

stiffy

ROD SUPPORTS

100 SERIES
ELECTRICAL
SUPPORTS

200 SERIES
LOW VOLTAGE
SUPPORTS

300 SERIES
CAST-IN-PLACE
SUPPORTS

400 SERIES
SLAB-ON-GRADE
SUPPORTS



Labor Saving Solutions
Designed by professionals for professionals!



SINCE 1977
SEEK ENGINEERED ATTACHMENT SOLUTIONS
FOR CONSTRUCTION



ARROW

A DISTRIBUTOR OF
STIFFY PRODUCTS

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Manufacturers of Engineered Support Solutions Since 1977

A division of Tomarco Contractor Specialties, we have been creating labor saving attachment solutions for over 40 years. CEAS offers installers a wide array of custom support solutions for electrical, low voltage, mechanical and plumbing applications that have re-established the bar for the industry.

Each Stiffy support is made specifically to order. Our distributors carry a limited inventory because most products are produced on a just-in-time basis. The CEAS manufacturing department has the ability to custom fabricate supports quickly and accurately. Most orders ship from our manufacturing facility within 24 to 48 hours from the time the order is received. This enables contractors to custom tailor their support packages for each project.

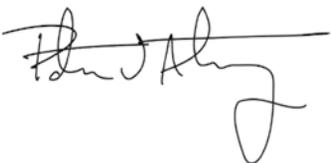
CEAS is an affiliate of ISAT Seismic Bracing, an industry leader in pre-engineered seismic bracing systems for Mechanical, Electrical and Plumbing contractors. ISAT employs an extensive engineering and technical support staff, including Structural Engineers with stamps in most states.

CEAS products work on jobsites because they are designed on jobsites. When unique product applications arise, CEAS has the ability to react quickly with prototypes and provide engineered product submittals that are approved by a Structural Engineer.

During the preconstruction phase of your next project, contact your local CEAS distributor. Whether it is overhead, below a computer floor, mounted to a wall or cast into concrete, CEAS will help to create the most labor saving and cost effective engineered attachment solution specific to your application.

We look forward to working with you on your next project.

Respectfully,



Patrick Armstrong
Vice President
CEAS Attachments





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Product Index - Stiffy 100 Series Rod Supports

Fig. 100 thru 119 - Single Hung Stiffy Supports



Fig. 100
Stiffy Straight Rod



Fig 101
Stiffy Stacker

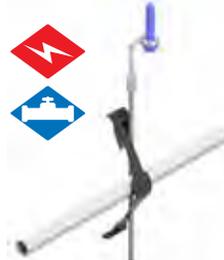


Fig 102
Threaded Stiffy

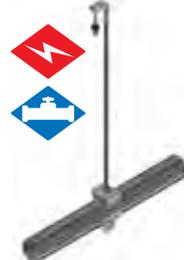


Fig 104
Threaded Stiffy
with Hanger

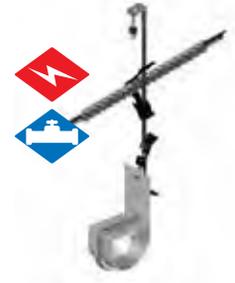


Fig 105
Threaded Stiffy with Hard
Concrete Footprint

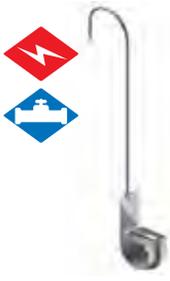


Fig 106
Stiffy Temp
Power Support



Fig 107
Stiffy Snap
Clip



Fig 108
Stiffy Insulated
Pipe Stacker



Fig 109
Stiffy Clip-on
Insulated Pipe
Stacker



Fig 110
Stiffy Threaded
Insulated Pipe
Stacker



Fig 111
Stiffy SER
Stacker

Fig. 120 thru 130 - Stiffy Trapezes



Fig 120
Stiffy Crossbar
Trapeze

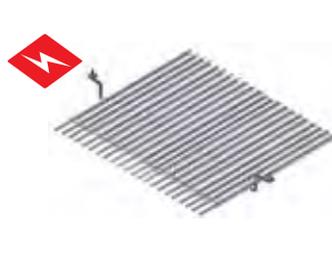


Fig 121
Stiffy Trapeze

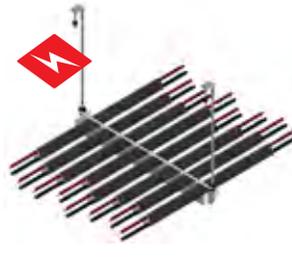


Fig 123
Stiffy Cradle
Crossbar Trapeze



Fig 124
Stiffy Snap-in
Trapeze

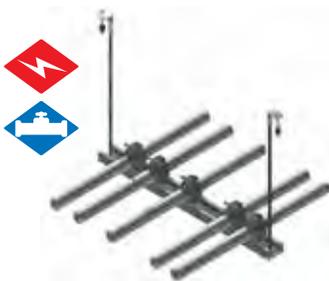


Fig 125
Stiffy Strut
Trapeze

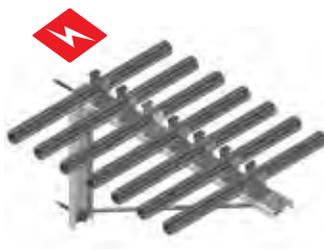


Fig 127
Stiffy Wall Mounted
Snap-in Trapeze

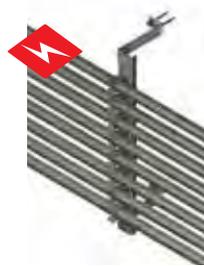


Fig 128
Stiffy Snap-in
Wall Rack



Fig 129
Stiffy HD Crossbar
Trapeze

Stiffy Trapezes (Cont.)

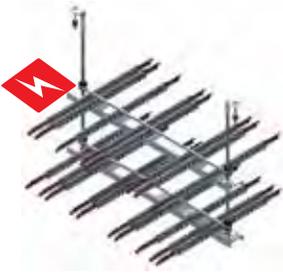


Fig 130 Stiffy HD 2-Tier Crossbar Trapeze



Fig 131 Stiffy Snap Trapeze

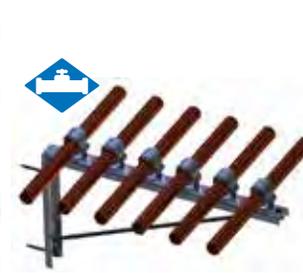


Fig 132 - Stiffy Wall Mount Snap Trapeze

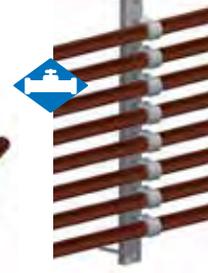


Fig 133 Stiffy Snap Wall Rack

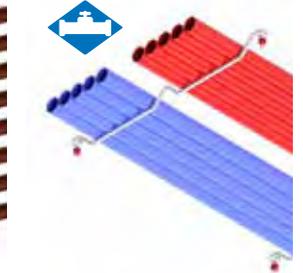


Fig 134 Stiffy PEX Piping Trapeze

Fig. 140 thru 145 - Stiffy Box Supports

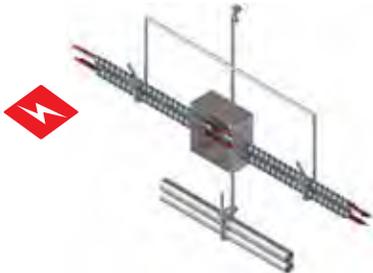


Fig 140 Stiffy Multi Stacker Support

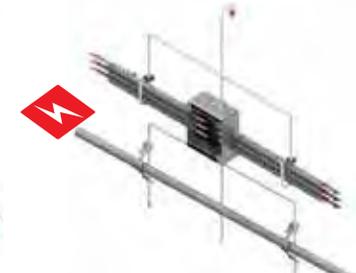


Fig 144 2-tier Stiffy Multi Stacker Support

Fig. 160 thru 199 - Misc Supports

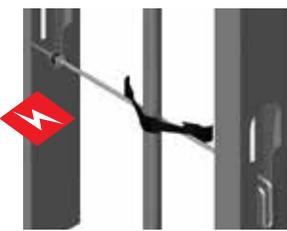


Fig 160 Stiffy Stud Spanner



Fig 161 Stiffy Gripper

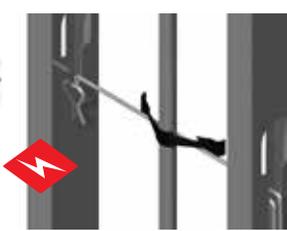


Fig 162 Fixed Stiffy Stud Spanner



Fig 163 Adjustable Stud Spanner



Fig 180 Stiffy Round Duct Support



Fig 190 Push Rod Pre-Fabricated Trapeze

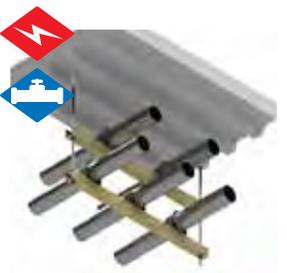


Fig 191 Push Rod 2-Tiered Pre-Fabricated Trapeze



Fig 191 Push Rod Single Clevis or J Hanger



Fig 195 Stiffy Gull Wing Line Set Support



Fig 196 Stiffy Line Set Support



Product Index - Stiffy 200 Series Rod Supports



Fig. 200 thru 219 - Stiffys with Comfort Cradles



Fig 200
Stiffy with
Comfort Cradle



Fig 201
Stiffy Clip-on
Comfort Cradle



Fig 202
Stiffy Wall
Rack Support



Fig 203
Stiffy Fixed Wall
Rack Support

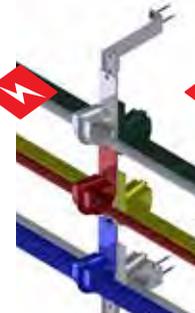


Fig 204
Stiffy Double Wall
Rack Support



Fig 205
Stiffy "Shorty"
Comfort Cradle

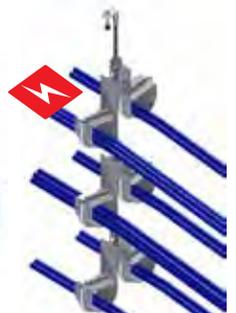


Fig 206
Stiffy Data Tree

Fig. 220 thru 239 - Low Voltage Trapezes

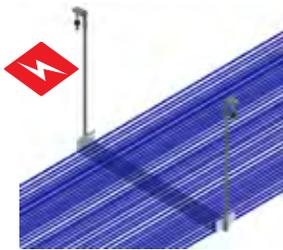


Fig 220
Stiffy Low Voltage
Trapeze



Fig 222
Stiffy LV Triangle
Trapeze

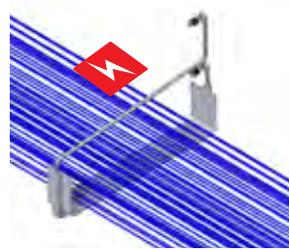


Fig 223
Stiffy Wall Mount
Trapeze

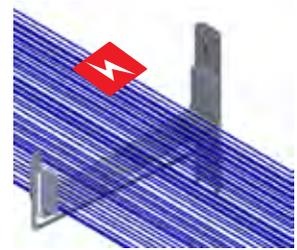


Fig 224
Stiffy Wall Mount
Trapeze

Fig. 240 thru 259 - Misc Low Voltage Supports



Fig 240
Bridle Ring Stiffy



Fig 241
Stiffy D-Ring



Fig 250
Stiffy Wall Sleeves



Fig 251
Stiffy DAS Antenna
Support

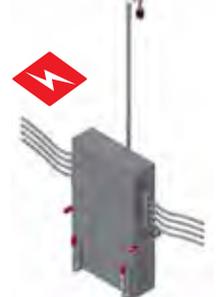


Fig 252
Stiffy Module
Support

Product Index - Stiffy 300 Series Rod Supports



Fig. 300 thru 339 - Form Poured Cast-in-Place Stiffy Supports

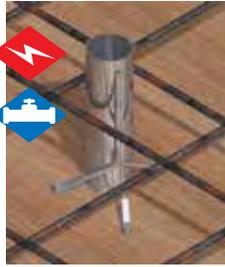


Fig 300
Cast-in-Place
Stiffy Tree



Fig 301
Single Loop CIP
Stiffy Tree



Fig 302
Double Loop
CIP Stiffy Tree

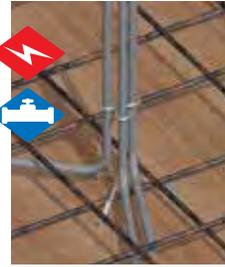


Fig 303
Triple Loop
CIP Stiffy Tree

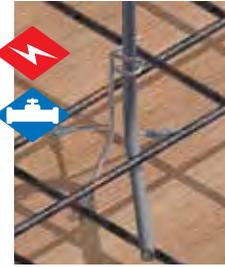


Fig 304
Single Loop CIP
Stiffy with "V"



Fig 310
CIP Stiffy
Trapeze

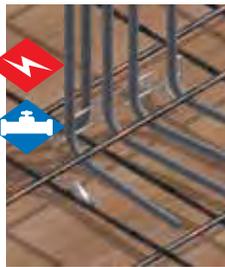


Fig 311
CIP 2 Tiered
Stiffy Trapeze



Fig 312
CIP Stiffy
Loop Trapeze



Fig 313
CIP Stiffy 2 Tiered
Loop Trapeze



Fig 314
Stiffy Snap-in
CIP Trapeze



Fig 316
CIP Stiffy Cage



Fig 317
Stiffy Snap-in
Back-to-Back
CIP Trapeze



Fig 320
CIP Stiffy
Street
90 Support



Fig 321
CIP Stiffy
Billy Chair
Support



Fig 322
Table Top
"Turtle" Box
Support

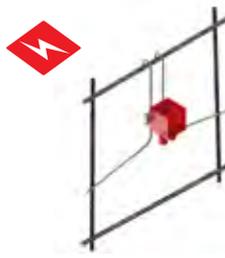


Fig 323
Stiffy Rebar
Hook CIP
Box Support



Fig 324
Stiffy CIP Channel
Box Support



Fig 330
Stiffy Cast-in-Place
Deck Sleeve



Fig 331
Stiffy Single Row CIP
Deck Sleeve





Product Index - Stiffy 300 Series Rod Supports

● (Continued) Fig. 300 thru 339—Form Poured Cast-in-Place Stiffy Supports

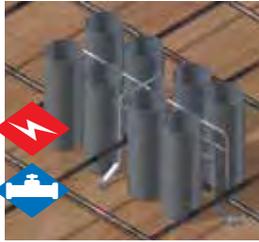


Fig 332
Stiffy Double Row CIP
Deck Sleeve

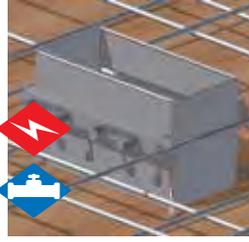


Fig 333
Stiffy Cast-in-Place
Strut Block Out



Fig 336
Stiffy Anchor
Bolt

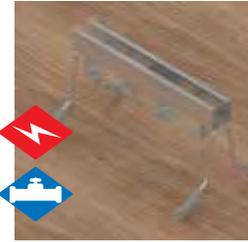


Fig 337
Stiffy Cast-in-Place
Strut Anchor

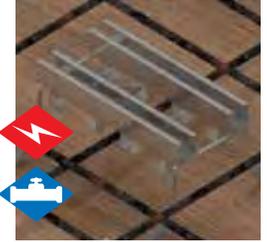


Fig 338
Stiffy Cast-in-Place
Double Strut Anchor

● Fig. 340 thru 379—Steel Deck Cast-in-Place Stiffy Supports

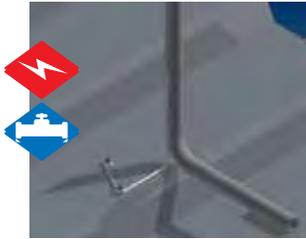


Fig 340
Steel Deck Stiffy
Tree

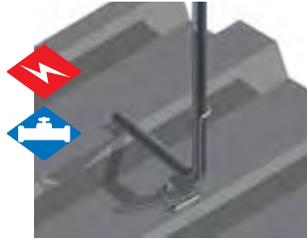


Fig 341
Steel Deck Stiffy
Tree with Loop

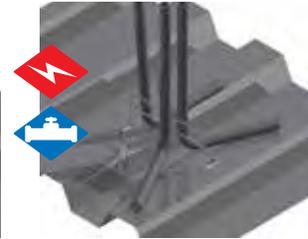


Fig 351
Steel Deck CIP 2
Tiered Stiffy Trapeze



Fig 370
Stiffy Metal
Deck Sleeve



Fig 371
Stiffy Single Row
Metal Deck Sleeve

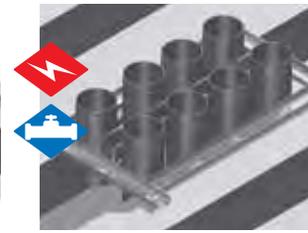


Fig 372
Stiffy Double Row
Metal Deck Sleeve

● Fig. 380 thru 399—Steel Deck Drop thru Supports

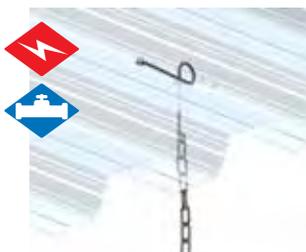


Fig 380
Cast-in-Place Stiffy
Jack Chain Loop

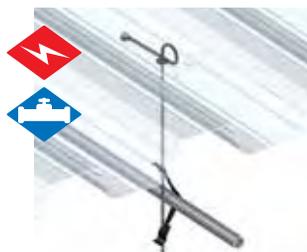


Fig 381
Cast-in-Place Stiffy Straight
Rod with Pigtail Loop

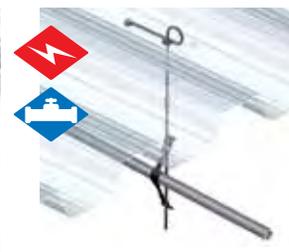


Fig 382
Cast-in-Place Stiffy Threaded
Rod with Pigtail Loop



Product Index - Stiffy 400 Series Rod Supports

Fig. 400-409 Slab-on-Grade Stiffy Stake Supports



Fig. 401
Single Loop

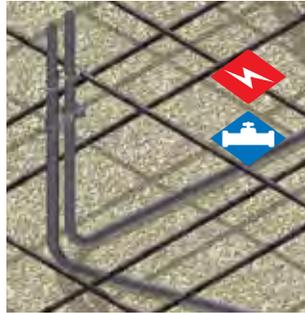


Fig. 402
Double Loop



Fig. 403
Triple Loop

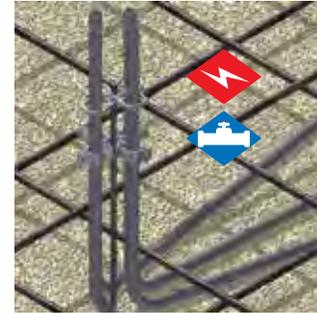


Fig. 404
Quad Loop

Fig. 410-419 Slab-on-Grade Stiffy Trapeze Supports

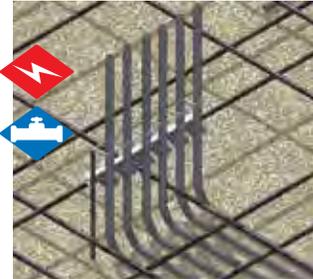


Fig. 410
Stiffy Snap-in
Slab-on-Grade Trapeze

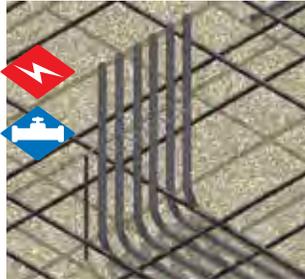


Fig. 414
Stiffy Single Loop
Slab-on-Grade Trapeze

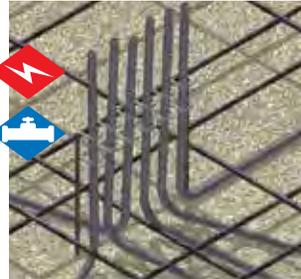


Fig. 415
Stiffy Double Loop
Slab-on-Grade Trapeze

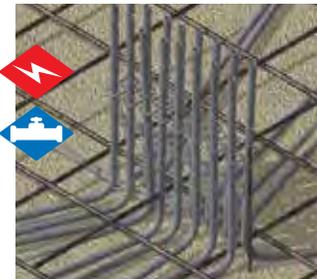


Fig. 417
Stiffy Back-to-Back
Slab-on-Grade Trapeze

Fig. 420-460 Slab-on-Grade Other Supports

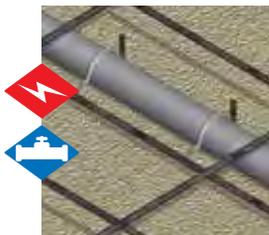


Fig. 420 Stiffy
Slab-on-Grade Candy
Cane Pipe Support

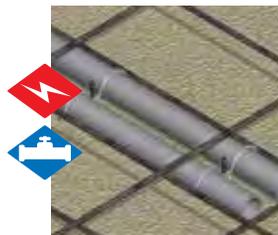


Fig. 421 Stiffy
Slab-on-Grade Double
Candy Cane Pipe Support

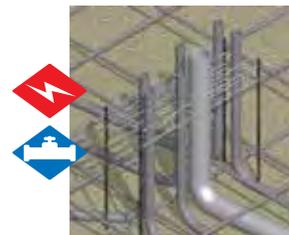


Fig. 430
Stiffy Slab-on-Grade
Panel Cage Support



Fig. 450
Stiffy Slab-on-Grade
Single Column
Trench Rack

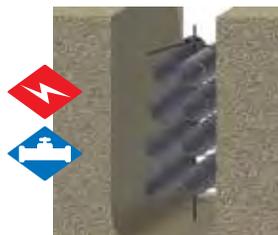


Fig. 451
Stiffy Slab-on-Grade
Double Column
Trench Rack

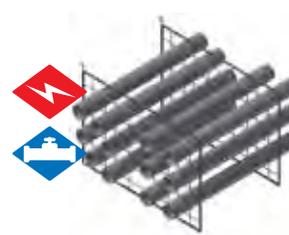


Fig. 452
Stiffy Trench Rack



Just Push It!!!

PUSH ROD HANGER

Patented



The Original
Blue Banger Hanger
ICC ESR3599

US Pat #'s
6,240,697 B1
7,093,400 B1

Revolutionary patented insert design beyond the Blue Banger Hanger

The Push Rod Hanger Inserts were engineered from the original, patented Blue Banger Hanger. That's right, the insert that changed the anchoring industry just got even better. The Push Rod Overhead Attachment System features a revolutionary patented auto-lock chamber that locks in threaded rod. Installers will quickly realize the labor savings benefits of simply pushing threaded rod into the Push Rod Auto-Lock Insert instead of turn threading. But wait, it gets even better, the threaded rods themselves include patented Engagement Markings that confirm full engagement. No second guessing, no installer error. Plus, just like the Blue Banger Hanger cousin, Push Rod Hanger's reduce inventory because each insert accommodates multiple rod sizes that can be changed after installation.

How's that for innovation?

To order Push Rods and pre-fabricated components turn to pages 86 through 91

Just Push It!!!



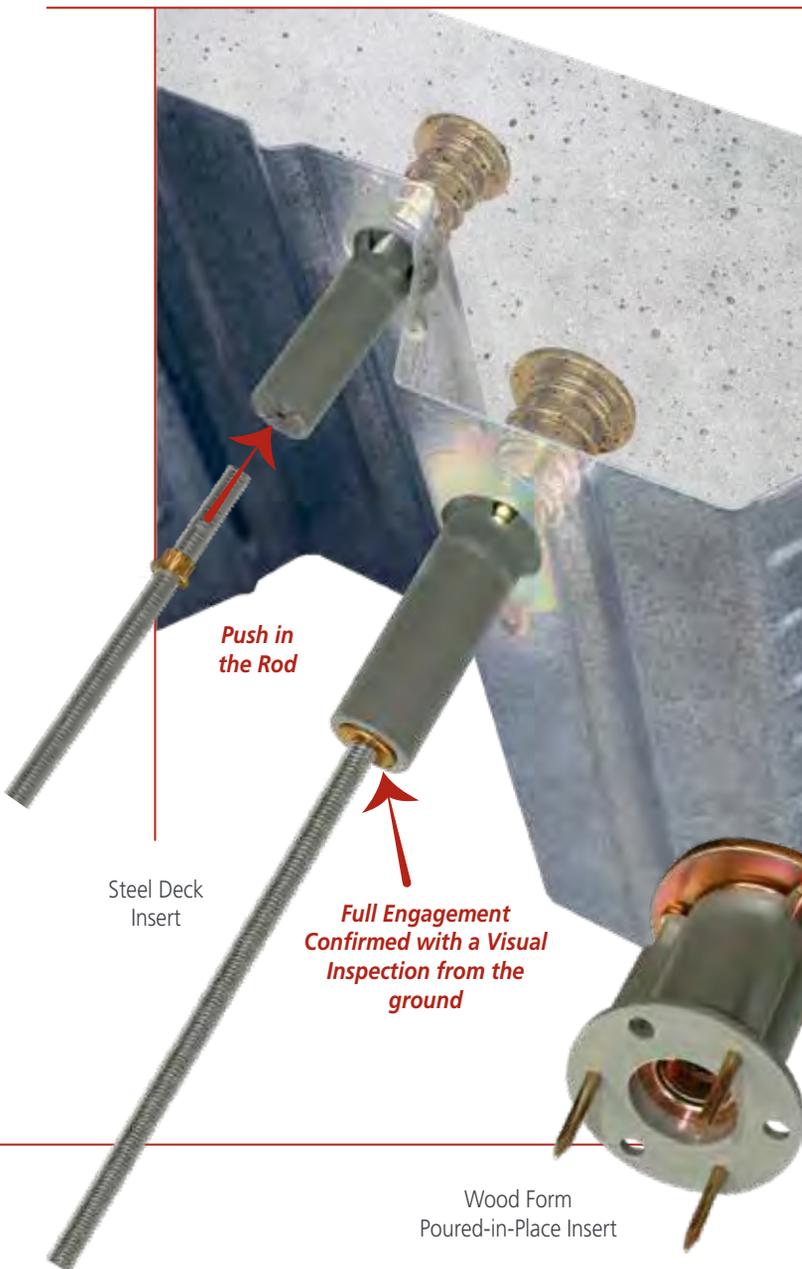
Push to engage, reverse thread to change rod sizes.

Factory pre-assembled rods with precisely placed Engagement Markings. CEAS Assemblies with Engagement Markings MUST be used with the PUSH ROD.

Load values achieved when Engagement Marking is flush up against protruding plastic sleeve.

Takes the guess work out of installation.

NO INSTALLER ERROR.



Push in the Rod

Full Engagement Confirmed with a Visual Inspection from the ground

Steel Deck Insert

Wood Form Poured-in-Place Insert

Revolutionary Push Rod Overhead Attachment System

*How do you reduce field installation labor costs?
Use the Push Rod Overhead Attachment System!!!*



*Hanger material arrives on the jobsite ready to be installed. No time wasted assembling components. **Just grab it and Push It!***



Trapezes and Assemblies can be labeled to correspond with specific locations on drawings.

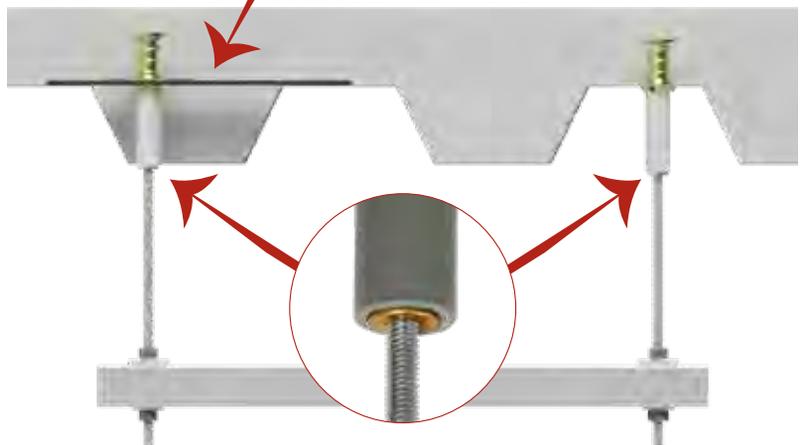


Just Push It!!!

All hardware is fully tightened.



Flute Span Bracket enables rods on pre-fabricated trapezes to be ordered to the same length without field adjustment.



Engagement Confirmed



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS

US Pat.
#9,181,691 B2

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Patented Push-Lock Concrete Anchor Inserts

PRSDI - Steel Deck Insert

Push Rod For Pre-Poured Concrete Steel Deck Inserts

To order Push Rods and pre-fabricated components turn to pages 86 through 91



PRSDI's are installed prior to pouring, reducing installation and material costs and increasing strength values. (Ideal for gravity & seismic anchorage)

Just Push It!!!

- No threading - simply PUSH ROD (Installs fast and secure)
- Saves labor costs
- Fits both 3/8" and 1/2" threaded rod
- Eliminates the need and cost of couplings

CEAS Engagement Markings

- Patented Engagement Markings confirm full engagement (eliminates guessing)
- Fits both 3/8" and 1/2" Threaded Rod
- Eliminates the need and cost of couplings

Machined Steel Insert with Large Flanged Head

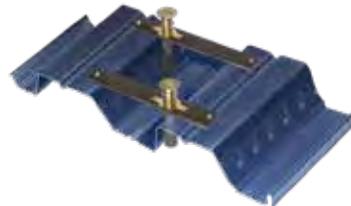
- Provides excellent shear values for overhead attachments
- Insert installed height of two inches can be used through or between ribs
- Patented grooved insert body prevents component separation even if the plastic flute is broken off prior to pour

Three Inch Plastic Sleeve

- Keeps internal threads clean
- Extended length makes insert easy to locate even with fireproofing below the deck
- Plastic sleeve provides guidance to align threaded rod with internal auto-lock chamber
- UL plenum rated for use in air handling spaces

Optional Flute Span Bracket

- Allows the PRSDI to be installed at the side of the flutes
- Enables the PRSDI to realize the higher capacity that is achieved in the upper flute
- Positions all inserts on the project at the same elevation to eliminate multiple thread rod lengths and improve the accuracy of off site prefabrication



SEISMICALLY QUALIFIED FOR USE IN CRACKED CONCRETE



It doesn't get any easier than this...

Easy Installation (See Installation Tools on Page 91)



Drill it



Bang it



Pour Concrete



Push Rod



Confirm Engagement

- The hammer blow must force the plastic sleeve thru the decking so it fully grips the bottom side to hold the insert vertical.
- The spring pressure on the deck washer expands the plastic flange to create resistance so the insert withstands pre-pour impact and remains upright.
- Push to Engage. Factory pre-assembled rods with precisely placed Engagement Markings confirm full engagement.
- Load values achieved when indicator strip is up against protruding plastic sleeve.

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

PRPIP - Poured-in-Place Insert Push Rod For Wood Form Concrete Decks

To order Push Rods and pre-fabricated components turn to pages 86 through 91



Pour-in-Place inserts are used on wood form poured decks and installed prior to pouring concrete, reducing installation and material costs. Nails Easily Break off

Just Push It!!!

- No threading - simply PUSH ROD (Installs fast and secure)
- Saves labor costs
- Fits both 3/8" and 1/2" threaded rod
- Eliminates the need and cost of couplings

CEAS Engagement Markings

- Patented Engagement Markings confirm full engagement (eliminates guessing)
- Fits both 3/8" and 1/2" Threaded Rod
- Eliminates the need and cost of couplings

Machined Steel Insert with Large Flanged Head

- Provides excellent shear values for overhead attachments
- Insert installed height of two inches complies with typical design specifications

Plastic Attachment Inserts with Nails

- Grey plastic ring acts as insert locator when forms are removed
- Plastic ring creates countersunk recess to keep threads clean from pour residue
- Nails are easily removed with a hammer
- UL plenum rated for use in air handling spaces



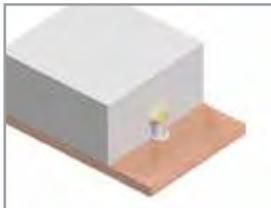
*No drilling concrete, No using rod couplers,
No special inspection, No installer error!*



Easy Installation (See Installation Tools on Page 91)



Hammer to Wood Form



Pour Concrete



Break off Nails



Push Rod



Confirm Engagement

- Hammer PRPIP to wood deck before the concrete pour. The nails hold the insert in place.
- Once the wood deck is removed, the PRPIP nails can easily be removed with a hammer blow.
- Push to Engage. Factory pre-assembled rods with precisely placed Engagement Markings confirm full engagement.
- Load values achieved when indicator strip is up against protruding plastic sleeve.

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS





The Original, Patented BLUE BANGER HANGER

US Pat #'s
6,240,697 B1
7,093,400 B1

- No special inspection
- Installs fast and secure
- Fully cracked concrete tested for vertical and dynamic seismic loading
- Backed By: ICC Report ESR-3599 Granted Under AC446



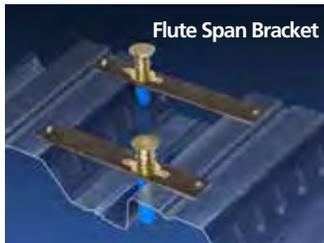
SDI - Steel Deck Insert

For Pre-Poured Concrete Steel Deck Inserts

SDI's are installed prior to pouring, reducing installation and material costs and increasing strength values.

See Installation Tools on Page 91

PART#	PART #	HOLE DIA	BOX QTY
HEA-SDI143812	1/4", 3/8" and 1/2" Steel Deck Insert	13/16" - 7/8"	100
HEA-SDI381258	3/8", 1/2" and 5/8" Steel deck Insert	1-1/8" - 1-3/16"	50
HEA-SDI5834	5/8" and 3/4" Steel deck Insert	1-3/16" - 1-1/4"	50
HEA-FSB1	Flute Span Bracket for SDI143812		Bulk
HEA-FSB2	Flute Span Bracket for SDI381258		Bulk
HEA-FSB3	Flute Span Bracket for SDI5834		Bulk



Flute Span Bracket

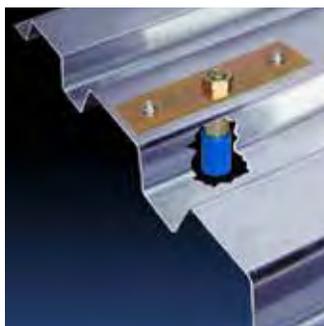


PIP - Poured-in-Place Insert

For Wood Form Concrete Decks

Poured-in-Place inserts are used on wood form poured decks and installed prior to pouring concrete, reducing installation and material costs.

PART#	PART #	BOX QTY
PIP143812	1/4", 3/8" and 1/2" Poured-in-Place Insert	200
PIP381258	3/8", 1/2" and 5/8" Poured-in-Place Insert	150
PIP5834	5/8" and 3/4" Poured-in-Place Insert	150



RDI - Roof Deck Insert

For No-Concrete Steel Decks

Roof Deck Insert anchors have a low profile attachment plate that does not protrude into roofing membrane. Fully assembled for field installation.

PART#	PART #	HOLE DIA	BOX QTY
RDI143812	1/4", 3/8" and 1/2" Roof Deck Insert	13/16" - 7/8"	50

Add "BAA" to the end of the part number for the Buy American Act compliant insert

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

Patented Concrete Anchor Inserts

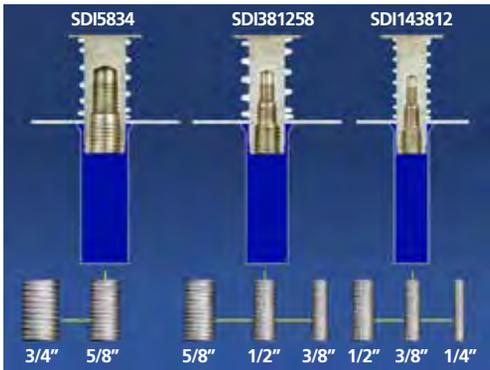
SEISMICALLY QUALIFIED FOR USE IN CRACKED CONCRETE



UL Approved File Number E240801



- No drilling concrete,
- No using rod couplers,
- No special inspection
- No installer error!



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



stiffy tool

Overhead Attachment Tool for Concrete, Wood and Steel Applications



The newly remastered Stiffy .27 caliber powder actuated tool makes overhead attachment applications easier than ever.



*Designed by Professionals
for Professionals*



**Ball Lock Design
for User Safety**



*Suppressed Noise is Perfect for
Hospitals, Tenet Improvement,
Occupied or Enclosed Areas Without
Distruption or Hearing Discomfort*

Stiffy Performance Advantages

- Powerful - Popular. .27 caliber 10 shot strip loads provide all the drive-ability needed for professional applications.
- Minimal field maintenance and no tools are required to remove nosepiece and piston to clean the barrel.
- Heavy duty manual indexing lever provides positive feed engagement for reliability and eliminates load skipping.
- Compact & lightweight design (under 5 lbs) is far easier to maneuver and easily fits in tight spaces.
- Durable ringless piston with 1-1/2" overdrive prevents breakage in thick fireproof applications.
- Actuated by an upward pole impact motion against work surface.
- Fixed length or telescoping pole tools easily remove to change lengths or for lockable tool storage to prevent theft.



Shown with the Stiffy Fixed Pole Tool and a Stiffy Straight Rod Support



Stiffy Fig 100 Wedgy Fig 600 Stiffy Fig 105 Wedgy Fig 641

Overhead Attachment Solutions



Superior DRIVE-ABILITY without the NOISE!

Shown with Stiffy Telescoping Pole Tool plus Side Car and Wedgy Cable Support



Stiffy Side Car

- Patent pending Stiffy Side Car saves time and labor
- Keeps plenty of pre-assembled cable supports right on the pole so you can work quickly and efficiently
- Works with both telescoping and fixed length Stiffy overhead pole tools

Stiffy Telescoping Pole Tool

- Easy installation from the ground for high reach applications (safer than ladders)
- Aircraft quality aluminum
- Ergonomic foam comfort grip
- Choose 2 or 3 stage (3'-6', 6'-12', 6'-18', 8'-24')

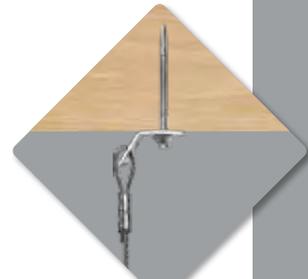


Stiffy Fixed Length Pole Tool

- Provides easy installation from the ground (safer than ladders)
- Reinforced fiberglass with ergonomic rubber comfort grip
- Choose standard fixed lengths (4', 6', 8', 10', 12')

Stiffy Timberpin Nosepiece

- Fastest way to secure to wood structures
- 2-1/2" extended nosepiece



DESCRIPTION	ORDER #	DESCRIPTION	ORDER #
Stiffy Tool	STTOOL	Fixed Length Stiffy Pole	
Stiffy Timber Pin Nosepiece	ST212	4' Fixed Length Pole	POLV4
Stiffy Side Car	STSC	6' Fixed Length Pole	POLV6
Telescoping Stiffy Pole		8' Fixed Length Pole	POLV8
2 Stage 3' - 6'	POLTV36	10' Fixed Length Pole	POLV10
2 Stage 6' - 12'	POLTV612	12' Fixed Length Pole	POLV12
3 Stage 6' - 18'	POLTV618	Custom Length	Special Order
3 Stage 8' - 24'	POLTV824		



**SAVES TIME
SAVES LABOR**



Other Innovative Products

P *Patented* **OWDER-PUFF** *Powder Actuated Tool & Accessories*



(Pat # 7,575,139 B2)

The **SILENT**, Indoor, Construction Tool SOLUTION

Concrete, Masonry, Wood and Steel Applications

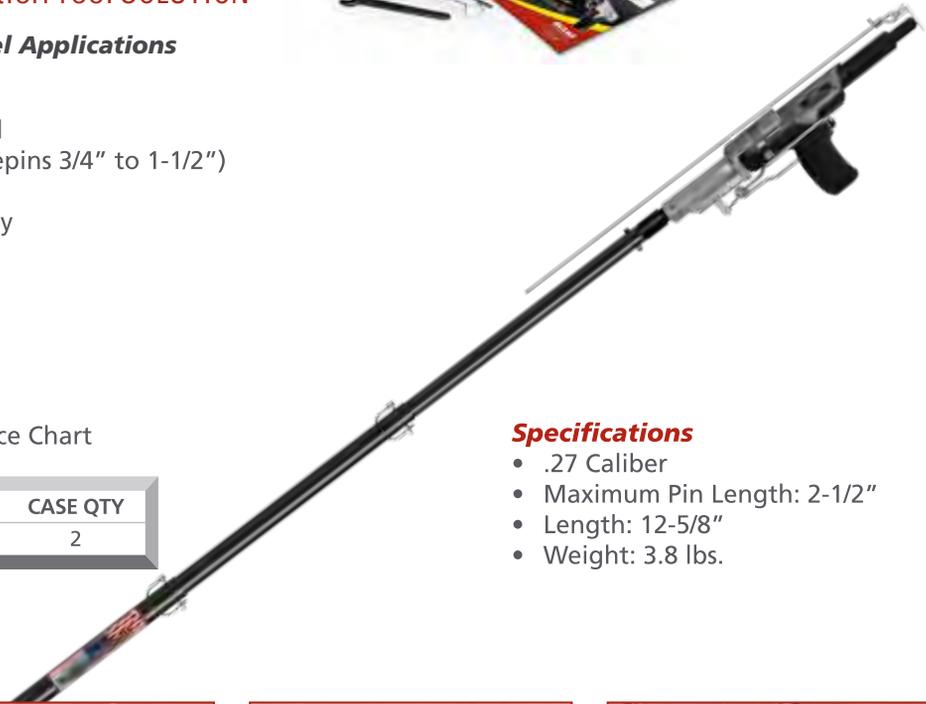
Kit Includes

- PowderPuff Powder Actuated Tool
- Red Universal Nosepiece (For Drivepins 3/4" to 1-1/2")
- Tool Belt and Holster
- Storage Tool Box with Pull Out Tray
- Safety Glasses
- Flat Head Screwdriver Tool
- Open End Wrench
- Cleaning Brush
- Cleaning Fluid
- Instruction Manual
- Nosepiece/Drivepin Quick Reference Chart

DESCRIPTION	PART #	BOX QTY	CASE QTY
PowderPuff Kit	HEA-PPKIT	1	2

Specifications

- .27 Caliber
- Maximum Pin Length: 2-1/2"
- Length: 12-5/8"
- Weight: 3.8 lbs.



SQUEEZE NUTS

For Channel and Strut



Fits All Size Channels



Threadfirst

CROSS SECTION
1 Tool de-burrs 1/4",
3/8" and 1/2" ATR



Before



Threadfirst Tool



After



stiffy

Fastener Options

Concrete Connections

Illustrations are not to scale.



Option#	Description	Part #	Substrate	Embed.	Reference	Tension	Shear
*001	Powers 1" x 0.145" Smooth Shank (0.300" Head Dia.)	50090	3000psi NWC Concrete	3/4"	ESR-2024	95	125
*002	Powers 1" x 0.157" Spiral Shank (8mm Head Dia.)	50205	2500psi NWC Concrete			120	170
*01	Powers 1-1/4" x 0.145" Smooth Shank (0.300" Head Dia.)	50092	3000psi NWC Concrete	1"		130	155
			3000psi LWC Over 3" Metal Deck			120	290
*011	Powers 1-1/4" x 0.157" Spiral Shank (8mm Head Dia.)	50208	2500psi NWC Concrete			195	245
			3000psi LWC Over 1-1/2" Metal Deck			200	410
			3000psi LWC Over 3" Metal Deck	120		305	
*02	Powers 1-1/2" x 0.145" Smooth Shank (0.300" Head Dia.)	50094	3000psi NWC Concrete	1-1/4"		155	165
			3000psi LWC Over 3" Metal Deck			190	340
*021	Powers 1-1/2" x 0.157" Spiral Shank (8mm Head Dia.)	50207	2500psi NWC Concrete			310	385
			3000psi LWC Over 1-1/2" Metal Deck		210	415	
			3000psi LWC Over 3" Metal Deck		140	370	
*03	1/4" x 3-1/4" Powers SD1 Wedge Anchor	7404SD1	3000psi NWC Concrete		1-1/2"	ESR-2818	1449
			3000psi LWC Over 3" Metal Deck	869			601
*031	3/8" x 3" Powers SD1 Wedge Anchor	7413SD1	3000psi NWC Concrete	2"	435		490
			3000psi LWC Over 3" Metal Deck		261		294
*04	1/4" x 2-1/4" Tapcon Screw Anchor (1/4" Dia. Hole in Concrete Required)	24292	3000psi NWC Concrete	2"	ESR-2202	183	341
			3000psi LWC Over 3" Metal Deck			110	249
*041	3/8" x 3" Tapcon Screw Anchor (3/8" Dia. Hole in Concrete Required)	50403	3000psi NWC Concrete	2-3/4"		358	464
			3000psi LWC Over 3" Metal Deck			215	298
*13.1	PowderPuff Standoff with Powers 1" x 0.157" Spiral Shank (8mm Head Dia.)	50205	2500psi NWC Concrete	3/4"	ESR-2024	120	170
*13	PowderPuff Standoff with Powers 1-1/4" x 0.157" Spiral Shank (8mm Head Dia.)	50208	2500psi NWC Concrete	1"		195	245
			3000psi LWC Over 1-1/2" Metal Deck			200	410
			3000psi LWC Over 3" Metal Deck			120	305
*13.2	PowderPuff Standoff with Powers 1-1/2" x 0.157" Spiral Shank (8mm Head Dia.)	50207	2500psi NWC Concrete	1-1/4"		310	385
			3000psi LWC Over 1-1/2" Metal Deck			210	415
			3000psi LWC Over 3" Metal Deck		140	370	

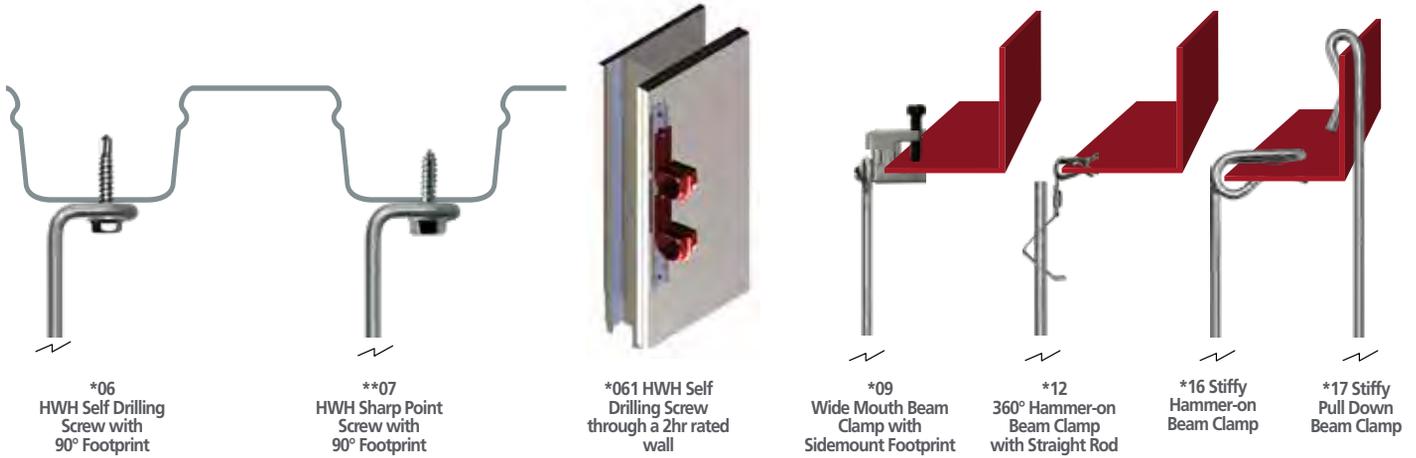
Footnotes:

1- Allowable loads listed are based on the capacities listed on the ICC report for the applicable substrate.



Steel Connections

Illustrations are not to scale.



Option#	Description	Part #	Substrate		Tension	Shear
*06	#10 x 1-1/4" HWH Self Drilling Screw	HWHT10114	18g Sheet Metal	ESR-1408	148	326
			16g Sheet Metal		194	398
			14g Sheet Metal		280	412
*061	#14 x 2" HWH Self Drilling Screw	HWHT104400	18g Sheet Metal		107	288
			16g Sheet Metal		206	517
			14g Sheet Metal		281	613
*07	#10 x 1-1/4" HWH Sharp Point Screw	HWHS10114	20g Sheet Metal	Calcs	105	222
*09	WIDE MOUTH BEAM CLAMP	BC	1/2" Max Steel Flange	UL	100	
*12.1	360° HAMMER-ON BEAM CLAMP	70824	1/8" - 1/4" Steel Flange		200	
*12.2		70858	5/16" - 1/2" Steel Flange			
*12.3		708912	9/16" - 3/4" Steel Flange			
*16	STIFFY HAMMER-ON BEAM CLAMP	SFSH	1/8" - 3/4" Steel Flange		200	
*17	STIFFY PULL DOWN BEAM CLAMP	SFSPD	1/8" - 5/16" Steel Flange		233	



stiffy

Fastener Options

Wood Connections

Illustrations are not to scale.



***07**
HWH Sharp
Point Screw with
90° Footprint



***08**
Timberpin
with 90°
Footprint



***14**
Stiffy Wood
Pull Down
Footprint



***18**
Hex Lag
with 90°
Footprint



***18**
Hex Lag with
Sidemount
Footprint

Option#	Description	Part #	Substrate	Reference	Tension
*07	#10 x 1-1/4" HWH Sharp Point Screw	HWHS10114	2" x 4" Douglas Fir (3/4" Embedment)	Calcs	109
*08	CEAS Timberpin 2-1/2" x 0.169 Ring Shank Nail with 0.300" Head Diameter	SF90TP250	Min 5" x 11" Glulam Beam	UL	100
			Min 2" x 6" Douglas Fir		
*14	Stiffy Wood Pull Down Footprint	SFWPD	2" Nominal Lumber	UL	100
*18	1/4" X 2-1/2" Hex Lag	HLG14212	Douglas Fir or Glulam	Calcs	216



Stiffy
ROD SUPPORTS



100 SERIES

ELECTRICAL SUPPORTS



JOBSITE PROBLEM
MEETS STIFFY
SOLUTION

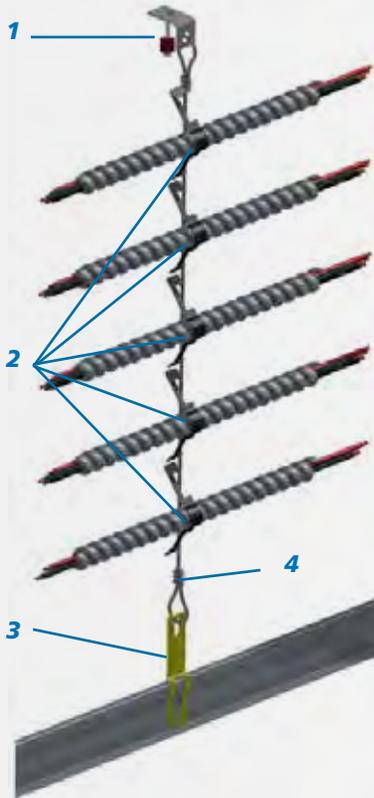
CEAS Construction Engineered Attachment Solutions Since 1977



Real-world Jobsite Innovation

Job Site Problem 1

Ceiling wire using bat wing clips

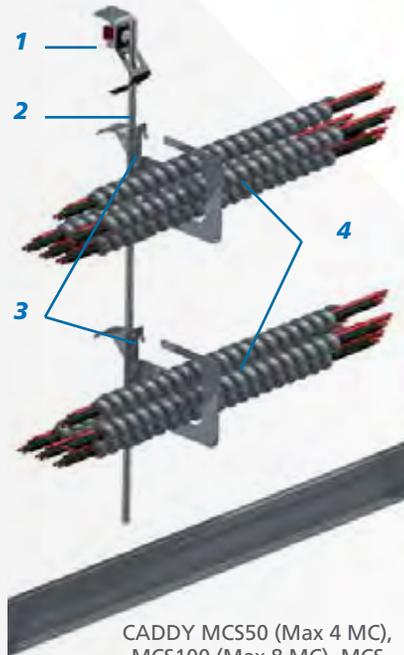


Job Site Problem 1

- Step 1 - Install Ceiling Wire
- Step 2 - Climb up a ladder and attach each individual MC cable
- Step 3 - Return to the location (after T-bar Grid is installed), climb a ladder & attach the banana clip. (Per NEC 300.11)
- Step 4 - Tie the ceiling wire to the clip

Job Site Problem 2

Pin, CADDY 708AB, Pencil Rod and CADDY MCS100



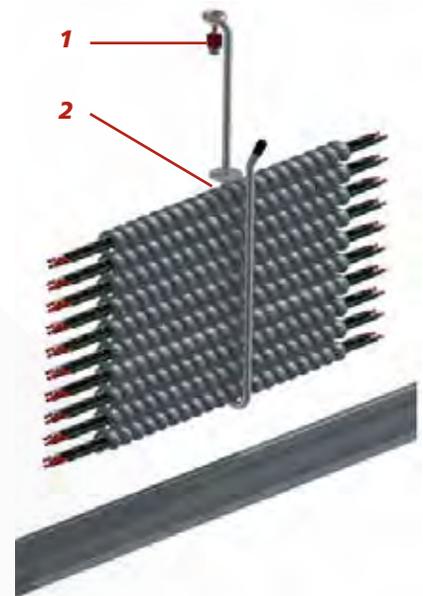
Job Site Problem 2

- Step 1 - Assemble components (Cut Rod, Attach Clip, Insert Fastener)
- Step 2 - Install Pencil Rod Assembly
- Step 3 - Climb up a ladder and attach each individual MC Support
- Step 4 - Climb up a ladder and attach each individual MC Cable

CADDY MCS50 (Max 4 MC),
MCS100 (Max 8 MC), MCS
101 (Max 7 MC)

Stiffy Solution

Fig 101 Stiffy Stacker



Fasteners are Engineered pre-assembled to the support

Stiffy Solution

- Step 1 - Install Fig 101 Stiffy Stacker from the ground using a pole tool
- Step 2 - Install the MC or EMT into the support and pull down the restraint washer.

It doesn't get any easier than this...

	Job Site Problem 1	Job Site Problem 2	Stiffy Solution
Engineered as an assembly	No	No	Yes
Can be ordered for multiple sizes of MC and EMT	No	Just small MC. Not available for EMT.	Yes
UL Listed for MC and EMT	No	No	Yes
NEC 300.11 compliant	Yes. Only when a Banana Clip is used to secure the wire to the T-bar Grid.	No	Yes
Pre-staked with several Engineered Attachment options	No	No	Yes
UL listed engineered attachment options for concrete, wood, metal and steel	No	No	Yes
Quick to install	No. Very labor intensive to install the batwing clips. Also, per NEC 300.11 the ceiling wire must be secured at the top as well as bottom which requires a second trip to the same location.	No. First the pin, clip and rod have to be cut and assembled. Then the MCS100s are attached. Finally	Yes



MC/AC Weight Tables

ALUMINUM MC CABLE 120V and 480Y/277V			
Trade Size	Approx Weight/1000 Feet (Lbs.)	Armor Min O.D.	Size Callout
120V Conductors			
14-2 Solid	90	0.47	*01 White
14-3 Solid	110	0.48	*01 White
14-4 Solid	130	0.51	*01 White
12-2 Solid	120	0.495	*01 White
12-3 Solid	150	0.53	*01 White
12-4 Solid	180	0.565	*01 White
10-2 Solid	170	0.56	*01 White
10-3 Solid	215	0.6	*02 Black
10-4 Solid	260	0.645	*02 Black
10-2 Solid	170	0.56	*01 White
10-3 Solid	215	0.6	*02 Black
10-4 Solid	260	0.645	*02 Black
8-2 Stranded	265	0.635	*02 Black
8-3 Stranded	260	0.685	*02 Black
8-4 Stranded	415	0.835	*03 Blue
6-2 Stranded	370	0.795	*03 Blue
6-3 Stranded	480	0.855	*04 Orange
6-4 Stranded	595	0.945	*04 Orange
4-3 Stranded	690	1.035	*05 Pink
4-4 Stranded	870	1.135	*06 Teal
3-3 Stranded	815	1.025	*05 Pink
3-4 Stranded	1025	1.12	*06 Teal
2-3 Stranded	1000	1.18	*06 Teal
2-4 Stranded	1260	1.295	*07 Wine
1-3 Stranded	1195	1.185	*06 Teal
480Y/277V Conductors			
8-2 Stranded	329	0.635	*01 White
8-3 Stranded	432	0.685	*01 White
8-4 Stranded	511	0.835	*03 Blue
6-2 Stranded	462	0.795	*03 Blue
6-3 Stranded	594	0.855	*04 Orange
6-4 Stranded	595	0.945	*04 Orange

HCF MC-AP TYPE MC ALL PURPOSE HOSPITAL CARE			
Trade Size	Approx Weight/1000 Feet (Lbs.)	Armor Min O.D.	Size Callout
12-2 Solid	110	0.445	*01 White
12-3 Solid	134	0.48	*01 White
12-4 Solid	180	0.515	*01 White
10-2 Solid	162	0.52	*01 White
10-3 Solid	202	0.565	*02 Black
10-3 Solid	266	0.67	*02 Black

LIGHTWEIGHT STEEL MC CABLE			
Trade Size	Approx Weight/1000 Feet (Lbs.)	Armor Min O.D.	Size Callout
12-2 Solid	147	0.495	*01 White
12-3 Solid	186	0.53	*01 White
10-2 Solid	222	0.56	*01 White
10-3 Solid	268	0.6	*02 Black
10-3 Solid	313	0.645	*02 Black

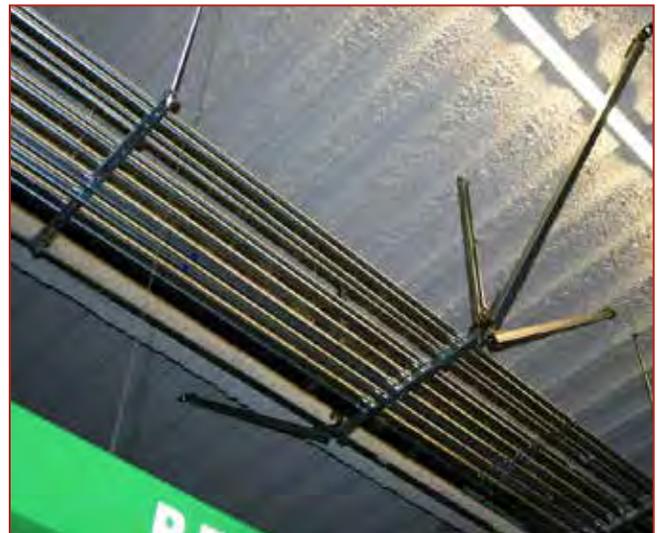
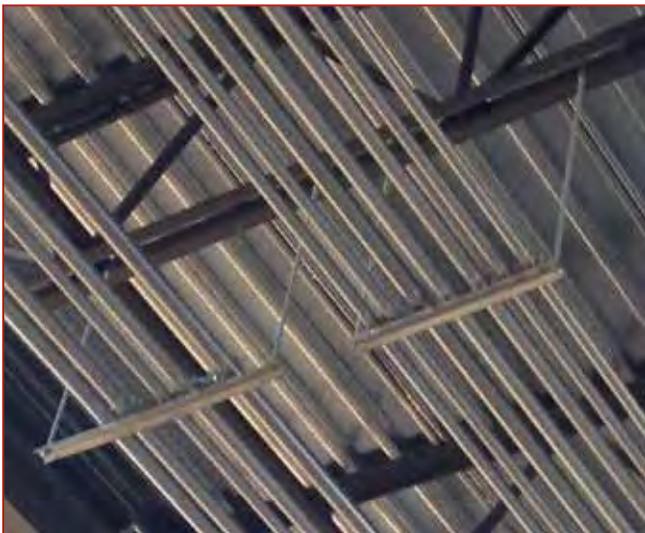
ISOLATED GROUND LIGHTWEIGHT STEEL MC CABLE			
Trade Size	Approx Weight/1000 Feet (Lbs.)	Armor Min O.D.	Size Callout
12-2 Solid	186	0.53	*01 White
12-3 Solid	223	0.565	*02 Black
12-4 Solid	330	0.58	*02 Black
10-2 Solid	268	0.6	*02 Black
10-3 Solid	313	0.645	*02 Black
10-4 Solid	391	0.67	*02 Black

ALUMINUM AC CABLE 120 VOLT			
Trade Size	Approx Weight/1000 Feet (Lbs.)	Armor Min O.D.	Size Callout
12-2 Solid	100	0.467	*01 White
12-3 Solid	130	0.489	*01 White
12-4 Solid	155	0.52	*01 White
10-2 Solid	135	0.476	*01 White
10-3 Solid	180	0.5	*01 White
10-4 Solid	225	0.541	*01 White
10-2 Solid	135	0.476	*01 White
10-3 Solid	180	0.5	*01 White
10-4 Solid	225	0.541	*01 White
8-2 Stranded	210	0.604	*02 Black
8-3 Stranded	275	0.637	*02 Black
8-4 Stranded	355	0.695	*02 Black
6-2 Stranded	260	0.7	*03 Blue
6-3 Stranded	395	0.739	*03 Blue
6-4 Stranded	500	0.807	*03 Blue
4-3 Stranded	590	0.885	*04 Orange
4-4 Stranded	760	0.971	*04 Orange
3-3 Stranded	720	0.99	*05 Pink
3-4 Stranded	930	1.085	*05 Pink
2-3 Stranded	885	1.014	*05 Pink
2-4 Stranded	1150	1.115	*05 Pink

EMT Weight Tables

EMT CONDUIT SCHEDULE (Lbs/LF)										
	Trade Size = Diameter									
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
Callout »	*08 Gray	*09 Brown	*10 Green	*11 Yellow	*12 Red	*13 Purple				
O.D. »	0.706	0.922	1.163	1.51	1.74	2.197	2.875	3.5	4	4.5
Qty.										
1	0.54	0.92	1.38	2.33	3.36	4.78	6.28	9.60	11.94	13.07
2	1.08	1.84	2.76	4.66	6.72	9.56				
3	1.62	2.76	4.14	6.99						
4	2.16	3.68	5.52	9.32						
5	2.70	4.60	6.90							
6	3.24	5.52	8.28							
7	3.78	6.44	9.66							
8	4.32	7.36								
9	4.86	8.28								
10	5.40	9.20								
11	5.94									
12	6.48									
13	7.02									
14	7.56									
15	8.10									
16	8.64									
17	9.18									
18	9.72									

* Conduit per linear foot weight is based on the weight of the EMT plus conductors per the IBC/CBC.



Basic Element Pipe Weight Table

Steel Pipe Data: Schedule 40							
Pipe Dia. Inch	Schedule	Pipe Weight Empty Lbs/Lf	Weight of Water Lbs/Lf	Pipe Weight Full Lbs/Lf	Insulation Thickness* Inch	Insulation Weight Lbs/Lf	Pipe Weight Full & Insulated Lbs/Lf
1/2.	40	0.85	0.13	0.98	1"	0.46	1.45
3/4"	40	1.13	0.23	1.36	1"	0.43	1.79
1"	40	1.70	0.37	2.07	1"	0.6	2.67
1-1/2"	40	2.70	0.88	3.58	1"	0.66	4.24
2"	40	3.60	1.45	5.05	1"	0.84	5.89

* Fiber Glass Pipe Insulation With ASJ

Steel Pipe Data: Schedule 80							
Pipe Dia. Inch	Schedule	Pipe Weight Empty Lbs/Lf	Weight of Water Lbs/Lf	Pipe Weight Full Lbs/Lf	Insulation Thickness* Inch	Insulation Weight Lbs/Lf	Pipe Weight Full & Insulated Lbs/Lf
1/2.	80	1.09	0.10	1.19	1"	0.46	1.65
3/4"	80	1.47	0.19	1.66	1"	0.43	2.09
1"	80	2.17	0.31	2.48	1"	0.6	3.08
1-1/2"	80	3.63	0.77	4.40	1"	0.66	5.06
2"	80	5.02	1.28	6.30	1"	0.84	7.14

* Fiber Glass Pipe Insulation With ASJ

Type K Copper Tubing						
Dia. Inch	Pipe Weight Empty Lbs/Lf	Weight of Water LBS/Lf	Pipe Weight Full Lbs/Lf	Insulation Thickness Inch	Insulation Weight* Lbs/Lf	Pipe Weight Full & Insulated Lbs/Lf
1/2.	0.34	0.09	0.43	1"	0.46	0.89
3/4"	0.64	0.19	0.83	1"	0.43	1.26
1"	0.84	0.34	1.18	1"	0.6	1.78
1-1/2"	1.36	0.74	2.1	1"	0.66	2.76
2"	2.06	1.31	3.37	1"	0.84	4.21

* Fiber Glass Pipe Insulation With ASJ

Type L Copper Tubing						
Dia. Inch	Pipe Weight Empty Lbs/Lf	Weight of Water LBS/Lf	Pipe Weight Full Lbs/Lf	Insulation Thickness Inch	Insulation Weight* Lbs/Lf	Pipe Weight Full & Insulated Lbs/Lf
1/2.	0.29	0.1	0.39	1"	0.46	0.85
3/4"	0.46	0.21	0.66	1"	0.43	1.09
1"	0.66	0.36	1.01	1"	0.6	1.61
1-1/2"	1.14	0.77	1.91	1"	0.66	2.57
2"	1.75	1.34	3.09	1"	0.84	3.93

* Fiber Glass Pipe Insulation With ASJ

Support Spacing Requirements

How to Determine Maximum Support Spacing

Step 1:

Determine weight per linear foot of the run being supported.

- Refer to pages 11-12 of this section for weights

Step 2:

Determine the capacity of the CEAS support

- Support capacities are included in the individual product data sheets

Step 3:

Verify that the weight per linear foot of the utilities supported does not exceed the requirements for seismic bracing.

- Refer to page 13 for the seismic restraint requirements

Step 4:

Calculate the spacing requirements based on the capacity of the support or use the requirements set forth in the applicable building code

Support Capacity Vs. Code Requirements—Use whichever is more stringent!

MAX SUPPORT CAPACITY	WEIGHT PER LINEAR FOOT OF THE SUSPENDED UTILITY ¹													
	<i>Maximum Support Spacing = Support Capacity ÷ Weight Per Linear Foot</i>													
	3.5 Lbs/LF	4 Lbs/LF	4.5 Lbs/LF	5 Lbs/LF	5.5 Lbs/LF	6 Lbs/LF	6.5 Lbs/LF	7 Lbs/LF	7.5 Lbs/LF	8 Lbs/LF	8.5 Lbs/LF	9 Lbs/LF	9.5 Lbs/LF	10 Lbs/LF
20 Lbs Capacity	5'-8"	5'	4'-5"	4'	4'-7"	3'-4"	3'	2'-10"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"	2'
30 Lbs Capacity	8'-6"	7'-6"	6'-8"	6'	5'-5"	5'	4'-7"	4'-3"	4'	3'-9"	3'-6"	3'-4"	3'-1"	3'
40 Lbs Capacity		10'	8'-10"	8'	7'-3"	6'-8"	6'-1"	5'-8"	5'-4"	5'	4'-8"	4'-5"	4'-2"	4'
50 Lbs Capacity				10'	9'-1"	8'-4"	7'-8"	7'-1"	6'-8"	6'-3"	5'-10"	5'-6"	5'-3"	5'
60 Lbs Capacity						10'	9'-2"	8'-6"	8'	7'-6"	7'	6'-8"	6'-3"	6'
70 Lbs Capacity								10'	9'-4"	8'-9"	8'-2"	7'-9"	7'-4"	7'
80 Lbs Capacity										10'	9'-4"	8'-10"	8'-5"	8'

Footnotes:

1-The weight per linear foot is based on the total weight of utilities suspended. See weight tables on pages 7 and 8.

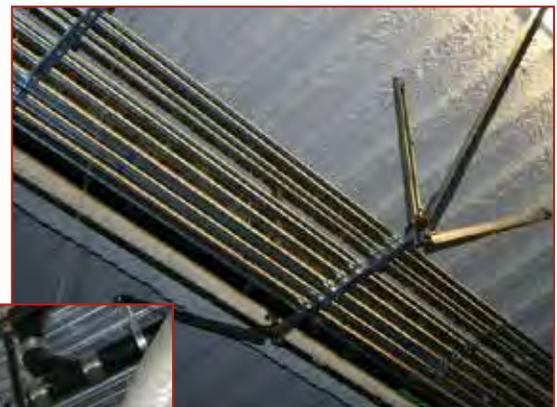
Or

PRODUCT	MAXIMUM SUPPORT SPACING	CODE REFERENCE
Type AC Cables	4-1/2'	NEC 2005 (Article 320.30)
Type MC Cables	6'	NEC 2005 (Article 330.30)
EMT Conduits	10'	NEC 2005 (Article 358.30)

Seismic Bracing Requirements

2012 IBC and 2013 CBC SEISMIC BRACING REQUIREMENTS FOR ELECTRICAL SERVICES		
Seismic Design Category	Ip	Service Bracing Requirements
A and B	All	No Bracing Required
C	1	No Bracing Required
C	>1.0	Brace Conduit Greater Than 2.5" Trade Size
		Brace Trapeze Assemblies Supporting More Than 10 Lbs/LF
		Restrain Floor Mounted Equipment
		Brace All Suspended Equipment
D, E, F	1	Brace Conduit Greater Than 2.5" Trade Size
		Brace Trapeze Assemblies Supporting More Than 10 Lbs/LF
		Brace Equipment > 4' Above Floor or Wp > 400 LBS
D, E, F	>1.0	Brace Conduit Greater Than 2.5" Trade Size.
		Brace Trapeze Assemblies Supporting More Than 10 Lbs/LF
		Restrain Floor Mounted Equipment
		Brace All Suspended Equipment
EXCEPTIONS	ALL	Light Fixtures Suspended From the Structure And Having Attachments Designed To Accommodate 1.4 x Weight in Both the Vertical and Horizontal Directions and With 360° Range of Motion

Note: Ip refers to Importance Factor of the component.



Seismic Bracing Requirements

2012 IBC and 2013 CBC		
BRACING REQUIREMENTS FOR PLUMBING and PROCESS PIPING SERVICES		
Seismic Design Category	Ip	Service Bracing Requirements
A and B	All	No Bracing Required
C	1.0	No Bracing Required
Steel Or Copper Piping Systems		
C	>1.0	Brace All Pipe Greater Than 2" Diameter Exceptions: Pipe With Non-Hazardous Content - Copper Vent Lines < 3-1/2" Diameter
		Brace All Trapeze Assemblies Supporting Loads >10 Lbs/Lf
D, E, F	1.0	Brace All Pipe > 3" Diameter
	>1.0	Brace All Pipe > 1" Diameter Exceptions: Pipe With Non-Hazardous Content With An Operating Weight < 5 lbs/lf.; - Sch. 40 Steel Vent Lines < 2" Diameter - Full Sch. 40 Steel Lines < 1-1/2" Diameter - Copper Vent Lines < 3-1/2" Diameter
	>1.0	Brace All Trapeze Assemblies Supporting Loads > 10 Lbs/Lf
EXCEPTIONS	All	Piping Systems Designed And Braced in Accordance with ASME B31.
Cast Iron, Glass Or Non-Ductile Plastic Piping Systems		
D, E, F	All (Except C = 1.0)	Brace All Pipe With Non-Hazardous Content With An Operating Weight > 5 lbs/lf: - No-Hub Cast Iron Gravity Lines > 2" Diameter - No-Hub Cast Iron Vent Lines > 3" Diameter

Note: Ip refers to Importance Factor of the component.



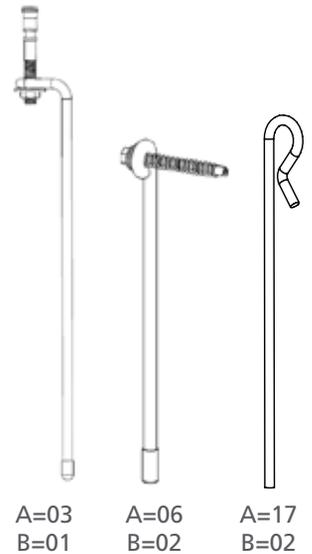


- The rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Mechanical, Electrical and Plumbing systems
- Max load: 70# per support
- Use Stiffy Grippers—Fig 161 for the attachment of MC/EMT
- Use Clip-on Comfort Cradles—Fig 201 for the support of Low Voltage Cabling
- UL listed hardware

Tip...Check out the Fig 161 Stiffy Grippers. 2-sided "Bat Wing" clips to support EMT and MC.



Shown with PowderPuff Pin A=13 and Hard Concrete Footprint B=011

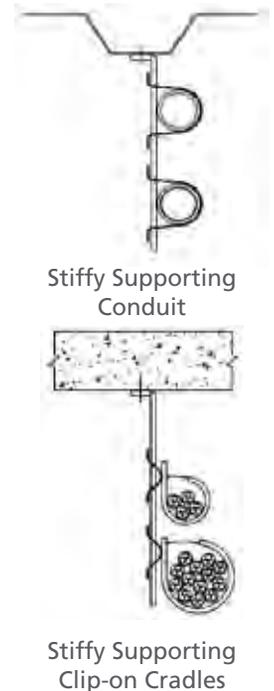


Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	Qty
Fig 100					
Fig 100					
Fig 100					

A		B		C	D	
*00	No Fastener	*01	*011	Drop Length (Inches)	Safety End Cap	
*01	1-1/4" Power Actuated Pin—1" Embedment				*01	Yes
*02	1-1/2" Power Actuated Pin—1-1/4" Embed				*02	No
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	90° Footprint	Hard Concrete Footprint			
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02			
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint			
*07	#10 Hex Washer Head Sharp Point					
*08	Timberpin (Wood Applications)					
*09	Wide Mouth Beam Clamp	*03	*04			
*13	1-1/4" PowderPuff Pin—1" Embedment					
*14	Stiffy Wood Pull Down Attachment	Threaded End (1/2" of Threads)	Straight Rod			
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange					
*25	Other—Please Specify	*10 Other—Please Specify				

Tip...For data cabling supports don't forget to check out the Fig 201.



Additional Fastener Options are Shown on Pages 19-21

Application Examples



Fig. 100



ELECTRICAL/LOW VOLTAGE APPLICATIONS



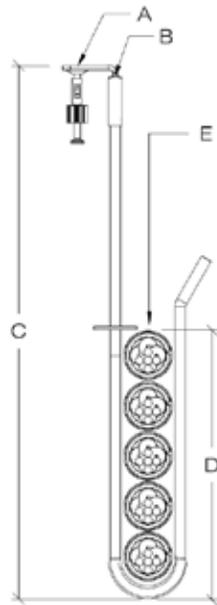
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Tip...Take a look at the Fig 120 to support MC horizontally.



- The rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- Zinc plated rod for corrosion resistance
- Supports EMT, MC/AC and Flexible Conduit
- Spaces cables to avoid bundling and NEC de-rating issues
- Max load: 70# per support
- Refer to project building code to determine max weight/LF without seismic restraints
- UL listed hardware

***Patented Design

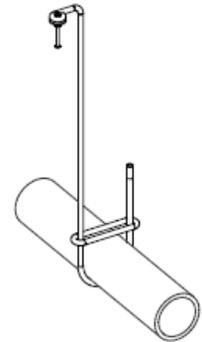
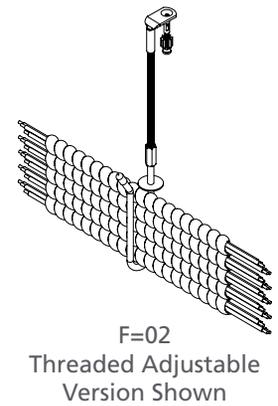


Fig 101 Supporting 2" EMT



Contractor:				Ship to Address:			
PO#				Order Date:			
**All Orders are Custom and Therefore Non-cancellable and Non-returnable							

	A	B	C	D	E	F	Qty
Fig 101							
Fig 101							
Fig 101							

A		B		C	D	E		F	
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	White (.430 thru .560 diameter) 14-3, 14-4, 12-2, 12-3, 12-4 and 10-2 MC/AC	*01	Fixed Length
*01	1-1/4" Power Actuated Pin—1" Embedment	 90° Footprint	 Hard Concrete Footprint			*02	Black (.560 thru .690 diameter) Standard MC Sizes: 10-3, 10-4, 8-2, 8-3.	*02	Threaded Adjustable Version
*02	1-1/2" Power Actuated Pin—1-1/4" Embed					*03	Blue (.700 thru .830 diameter) MC/AC		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 Gas Tool Footprint	 Sidemount Footprint			*04	Orange (.840 thru .970 diameter) MC/AC		
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					*05	Pink (.980 thru 1.11 diameter) MC/AC		
*04	1/4" x 1-3/4" Concrete Screw Anchor	 Threaded End (1/2" of Threads)	 Straight Rod			*06	Teal (1.12 thru 1.250 diameter) MC/AC		
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					*07	Wine (1.260 thru 1.390 diameter) MC/AC		
*06	#10 Hex Washer Head Self Driller	*03	*04			Refer the Tech Section for MC/AC Diam.			
*07	#10 Hex Washer Head Sharp Point					*08	Gray 1/2" EMT		
*08	Timberpin (Wood Applications)	*10	Other-Please Specify			*09	Brown 3/4" EMT		
*09	Wide Mouth Beam Clamp					*10	Green 1" EMT		
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)	*11	Other-Please Specify			*11	Yellow 1-1/4" EMT		
*13	1-1/4" PowderPuff Pin—1" Embedment					*12	Red 1-1/2" EMT		
*14	Stiffy Wood Pull Down Attachment	*13	Other-Please Specify			*13	Purple 2" EMT		
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					*14	Other Specify Size		
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange								
*25	Other—Please Specify								

Additional Fastener Options are Shown on Pages 19-21

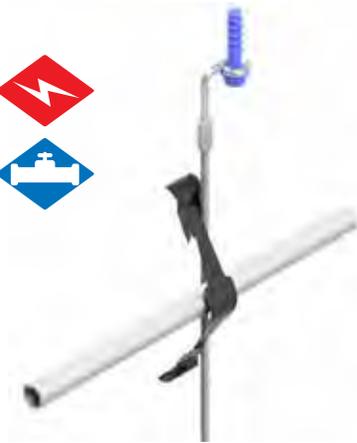
Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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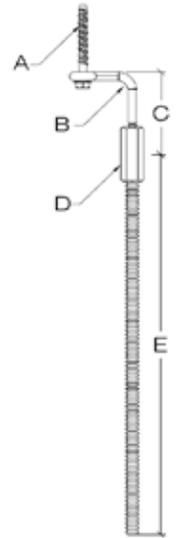




- The rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- Available with 1/4" or 3/8" All Thread Rod
- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Mechanical, Electrical and Plumbing systems
- Max load: 70# per support
- Designed for use where friction connections are not allowed
- FYI... When Stiffy Grippers (Fig 161) are connected to all thread rod a "Friction Connection" does not exist
- UL listed hardware



Tip...Check out the Fig 161 Stiffy Grippers. 2-sided "Bat Wing" clips to support conduit and MC.



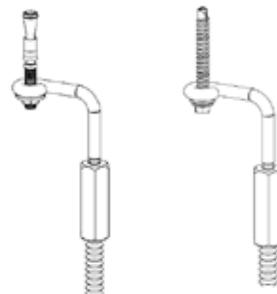
Shown with Wedge Bolt A=03, 90° Footprint B=01 and 3/8" ATR C=03

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C (3" Typ)	D	E	Qty
Fig 102						
Fig 102						
Fig 102						

A		B	C	D		E
*00	No Fastener	*01 90° Footprint	Drop Length ¹ (Inches) 3" Typical	*01	No Coupler	All Thread Rod Length (Inches)
*01	1-1/4" Power Actuated Pin—1" Embedment			*02	1/4" Coupler	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed			*03	1/4" x 3/8" Rod Coupler (Used with 3/8" ATR) ²	
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	*012 Gas Tool Footprint	Footnotes: 1—The overall threaded length is 1/2" on the Stiffy rod. 2—In order to transition to 3/8" ATR a reducing coupler is used for A=01 and 02 Footprints.			
*04	1/4" x 1-3/4" Concrete Screw Anchor					
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					
*06	#10 Hex Washer Head Self Driller					
*07	#10 Hex Washer Head Sharp Point	*02 Sidemount Footprint				
*08	Timberpin (Wood Applications)					
*09	Wide Mouth Beam Clamp					
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)					
*13	1-1/4" PowderPuff Pin—1" Embedment	*10 Other Please Specify				
*14	Stiffy Wood Pull Down Attachment					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange					
*25	Other—Please Specify					

Additional Fastener Options are Shown on Pages 19-21



A=03 B=01

A=06 B=01



Shown with Hammer-on Beam Clamp



Shown with A=01 Powder Actuated Pin

Application Examples

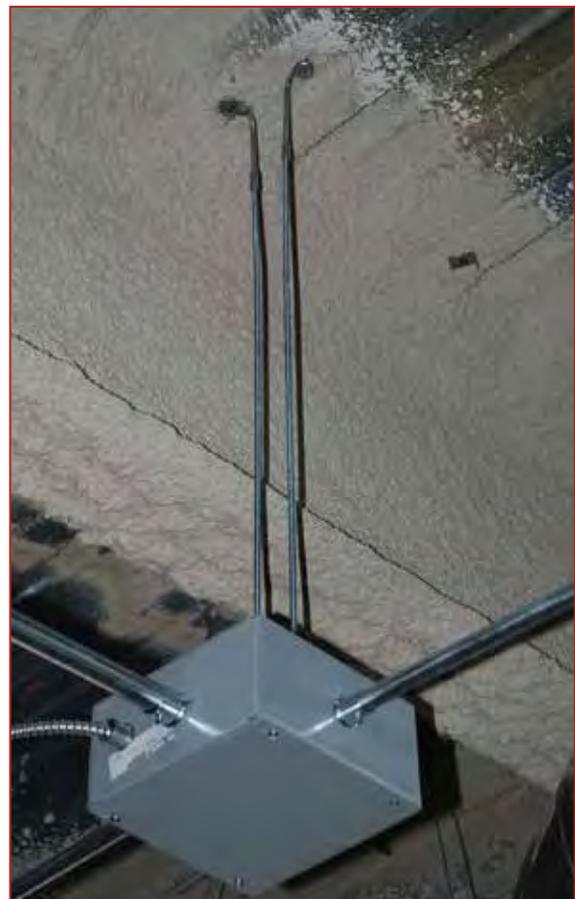
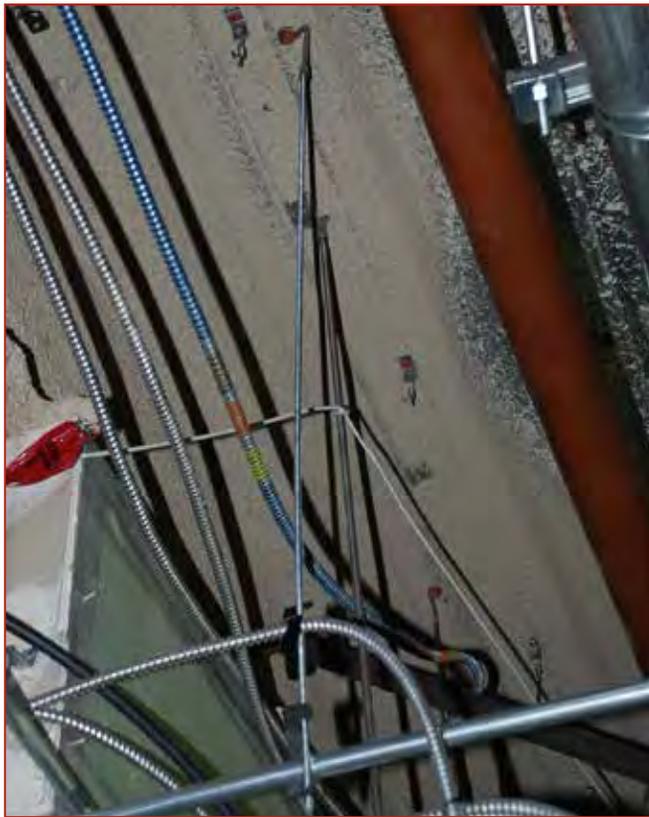


Fig. 102



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



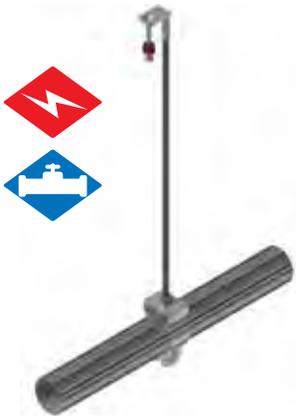
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Fig. 104

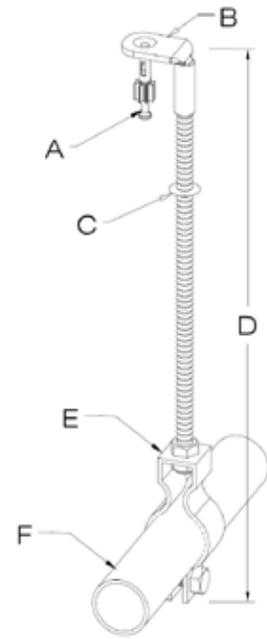
Threaded Stiffy with Hanger



- Available with 1/4" or 3/8" All Thread Rod
- Zinc plated rod for corrosion resistance
- For use with steel/copper pipe, conduit and MC
- Max load: 70# per support
- UL listed hardware



Threaded Stiffy with 3/8" ATR and a Loop Hanger



Shown with New Hard Concrete 3/8" ATR and a Conduit Hanger

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	F	Qty
Fig 104							
Fig 104							
Fig 104							

Tip...Check out the Fig 125 to support utilities on a trapeze.

A		B		C		D	E	F	
*00	No Fastener	*01	*011	*01	1/4" ATR	Drop Length (Inches)	*01 Conduit Hanger ³	Hanger Size	
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ¹			*02	3/8" ATR ²			*01	1/2"
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ¹						*02	3/4"	
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)						*03	1"	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)						*04	1-1/4"	
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02				*05	1-1/2"	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor						*06	2"	
*06	#10 Hex Washer Head Self Driller						*07	2-1/2"	
*07	#10 Hex Washer Head Sharp Point						*08	3"	
*08	Timberpin (Wood Applications)						*09	3-1/2"	
*09	Wide Mouth Beam Clamp	*03	*04				*25	Other-Please Specify	
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)								
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ¹								
*14	Stiffy Wood Pull Down Attachment								
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other-Please Specify							
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange								
*25	Other—Please Specify								
Additional Fastener Options are Shown on Pages 19-21									
Footnotes:									
1 - When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default.									
2 - In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8".									
3 - Conduit Hangers 1/2" thru 1-1/2" EMT are sized for 1/4" ATR. 2" and 2-1/2" are sized for 3/8" ATR.									
4 - 1/2" thru 2-1/2" Loop Hangers come with 3/8" top connectors.									
5 - All J-Hangers are zinc coated									
6 - When ordering felt lined hangers for pipe sizes 3-1/2" or under, order the next largest size to allow for the thickness of the felt lining.									
Refer to pages 25 and 26 for pipe weights									
Per the Uniform Plumbing Code and California Plumbing Code - 1/2" thru 4" diameter pipe requires 3/8" all thread rod - 5" thru 8" diameter pipe requires 1/2" all thread rod - 10" thru 12" diameter pipe requires 5/8" all thread rod									
									For felted hangers add an "F" to the order option. ⁶
									For zinc coated clevis hangers add a "Z" to the order option.
									Example: 02 = 3/4" Hanger 02F = 3/4" Felted Hanger 02Z = 3/4" Zinc Coated Hanger

Application Examples



Fig. 104

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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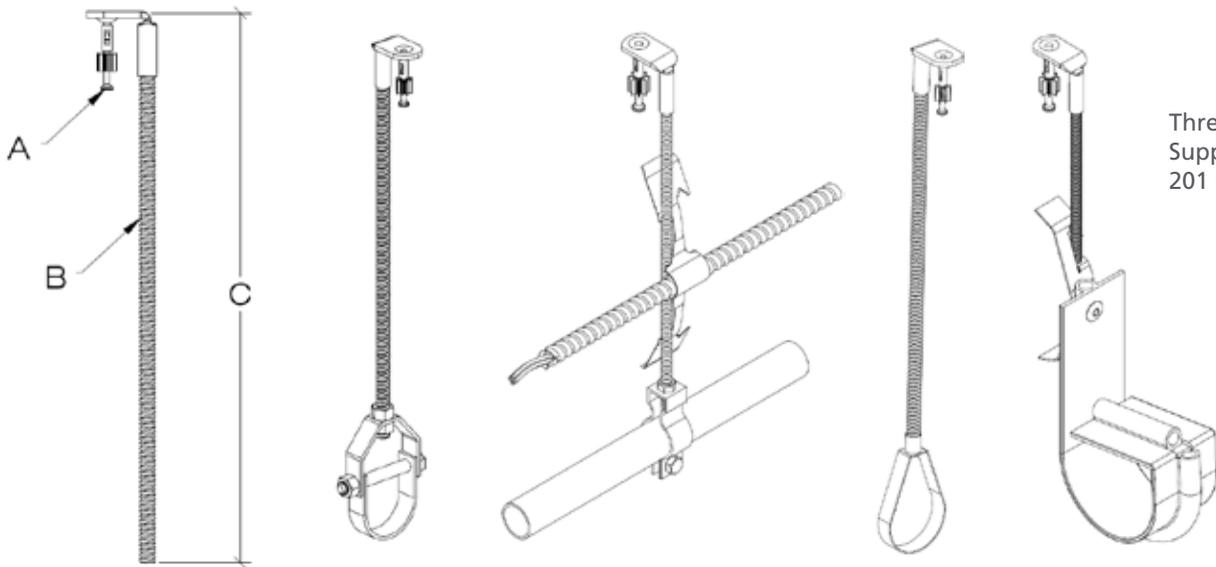


Fig. 105

Threaded Stiffy with Hard Concrete Footprint



- Stiffy Hard Concrete Footprint excels in tough concrete applications
- Designed as a support for Mechanical, Electrical and Plumbing
- The rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- Refer to the Fig 104 order form for pipe weight tables
- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for overhead applications
- For use with pipe, conduit, MC, j-boxes and clip-on cradles
- Max load: 70# per support
- UL listed hardware
- FYI... When Stiffy Grippers (Fig 161) are used to support conduit on all thread rod, a "Friction Connection" does not exist



Threaded Stiffy Supporting Fig 201 Clip-on Cradle

Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

Tip...Check out the Fig 125 to support utilities on a trapeze.

	A	B	C	Qty
Fig 105				
Fig 105				
Fig 105				



A		B		C
*01	1-1/4" Power Actuated Pin—1" Embedment	*01	1/4" All Thread Rod	Drop Length (Inches)
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.	*02	3/8" All Thread Rod	
*25	Other—Please Specify			

Application Examples



Fig. 105



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



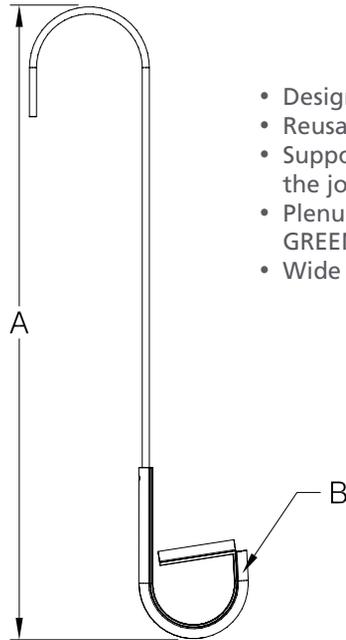
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 106

Threaded Temp Power Support



- Designed to support temporary power cords off of the ground
- Reusable design
- Supports are simply hooked over any existing structural element on the jobsite
- Plenum rated plastic cradles are available in RED, WHITE, BLUE, GREEN and YELLOW
- Wide Cradle offers exceptional support and reduces crimping



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

A	B									
Drop Length (Inches)	*01 1" Cradle									
<p>Dimensions:</p> <p>1" Cradle</p> <p>2" Cradle</p> <p>6" Cradle</p> <p>3-1/2" Cradle</p> <p>6" Cradle</p>	*02 2" Cradle									
	*03 3-1/2" Cradle									
	*04 6" Cradle									
	<table border="1"> <tr><td>R</td><td>Red</td></tr> <tr><td>B</td><td>Blue</td></tr> <tr><td>G</td><td>Green</td></tr> <tr><td>Y</td><td>Yellow</td></tr> <tr><td>BK</td><td>Black</td></tr> </table>	R	Red	B	Blue	G	Green	Y	Yellow	BK
R	Red									
B	Blue									
G	Green									
Y	Yellow									
BK	Black									
	<p>*Standard cradles come in white. Specify custom colors.</p> <p>Example: 02 = White 2" Cradle 02R = Red 2" Cradle</p>									

	A	B	Qty
Fig 106			
Fig 106			
Fig 106			



Application Examples



Fig. 106

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



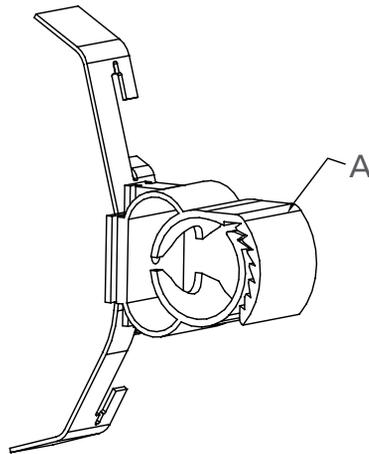
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Fig. 107

Stiffy Snap Clip



Shown attached to a Stiffy Fig 104 with 3/8" ATR Supporting a Clevis Hanger.

- Supports A/C Tubing, Refrigeration, PEX, Med Gas, Copper and Steel Pipe, EMT, MC/AC and Flexible Conduit
- Engineered as a complete assembly
- Works on 1/4" and 3/8" All Thread or Smooth Rod
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to project building code for seismic requirements
- UL Listed Components
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested
- Snaps can be installed around insulated pipes to maintain continuous insulation



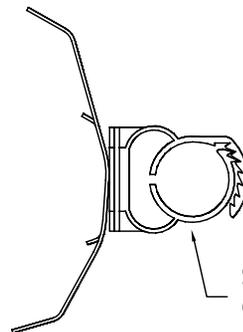
Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

A						
Input the appropriate value preceded by an (*)						
Trade Size	EMT ¹		Sch 40 Steel ²		Type K Copper ²	
	Size	Wt/LF	Size	Wt/LF	Size	Wt/LF
1/4"	-		*12		*10	
3/8"	-		*17		*12	
1/2"	*17	.054	*20	0.98	*15	0.43
5/8"	-		-		*17	
3/4"	*22	0.92	*25	1.36	*22	.83
1"	*28	1.38	*32	2.07	*28	1.18
1-1/4"	*36		*40		*32	

Footnotes:
 1-EMT weights are calculated with 40% conductor fill.
 2-Sch 40 Steel Copper weights are calculated as full of water.

	A	Qty
Fig 107		
Fig 107		
Fig 107		

Tip...Check out the Fig 102 or Fig 105 for the quickest way to support 3/8" Threaded Rod.



Snap-in clip available in different diameters (See A)

Application Examples



Fig. 107

MECHANICAL/PLUMBING APPLICATIONS



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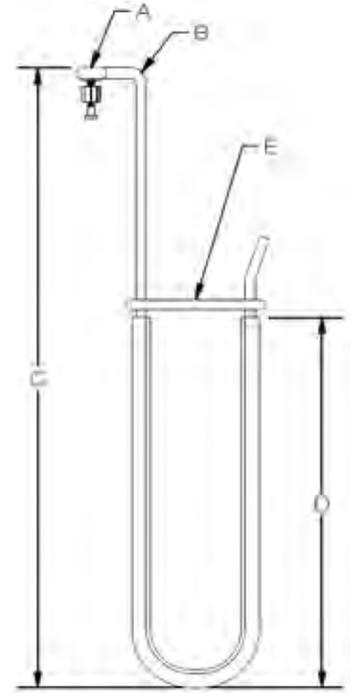




A=01 B=01

- Zinc plated rod for corrosion resistance
- Supports Line Sets and Insulated Refrigerant Piping
- 2" wide Plenum Rated plastic bearing surface reduces the pressure on the insulation.
- Max load: 70# per support
- Engineered submittal documents stamped by an engineer.
- Refer to project building code to determine max weight/ LF without seismic restraints

*****Patent Design**



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

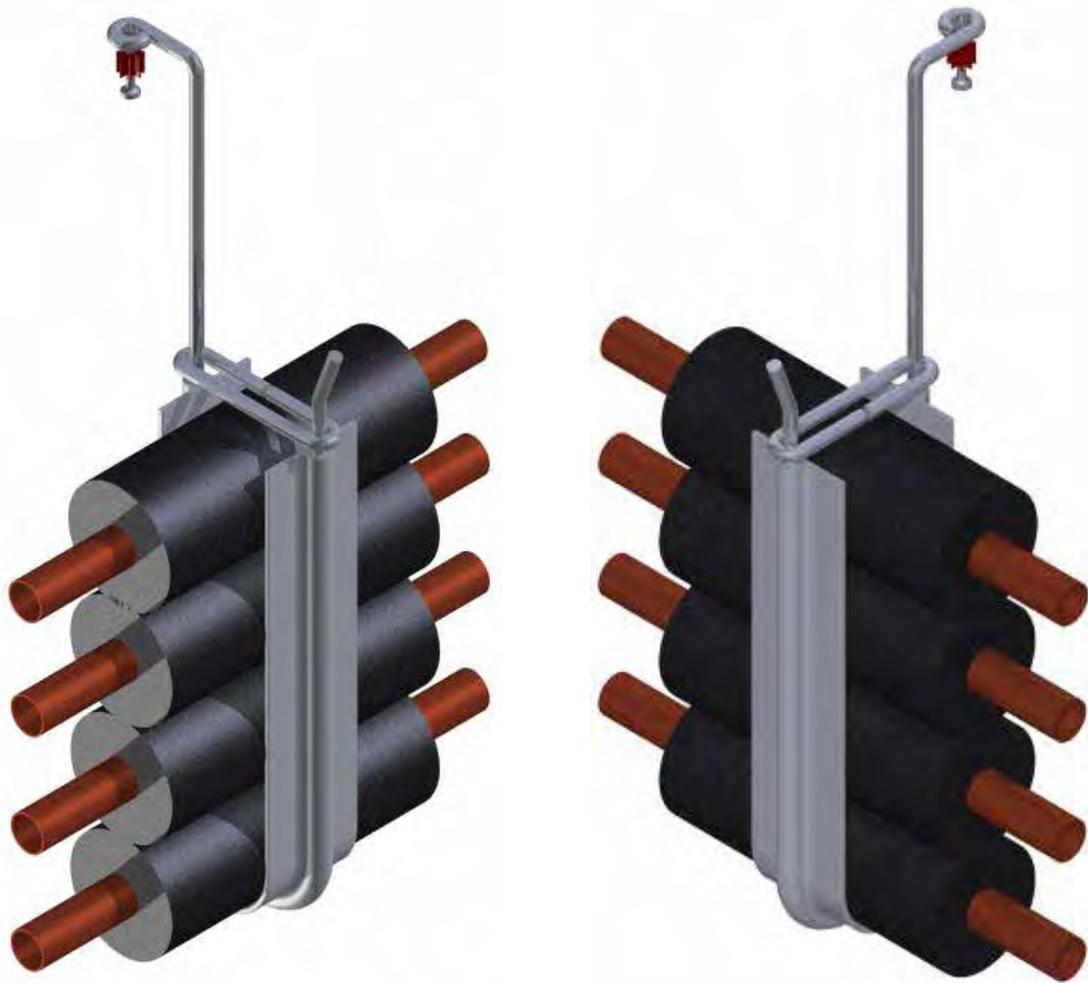
	A	B	C	D	E	Qty
Fig 108						
Fig 108						
Fig 108						

Tip...Take a look at the Fig 195 and Fig 196 to support refrigeration piping on a trapeze.

A		B		C	D	E	
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	1" Opening
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ⁷					*015	1.5" Opening
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ⁷	90° Footprint	Hard Concrete Footprint			*02	2" Opening
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					*025	2.5" Opening
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	*03	3" Opening				
*04	1/4" x 1-3/4" Concrete Screw Anchor	*035	3.5" Opening				
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	*04	4" Opening				
*06	#10 Hex Washer Head Self Driller	*045	4.5" Opening				
*07	#10 Hex Washer Head Sharp Point	*05	5" Opening				
*08	Timberpin (Wood Applications)	*055	5.5" Opening				
*09	Wide Mouth Beam Clamp	*06	6" Opening				
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)	*065	6.5" Opening				
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ⁷	*012	*02				
*14	Stiffy Wood Pull Down Attachment						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	Gas Tool Footprint	Sidemount Footprint				
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange	*03	*04				
*25	Other—Please Specify						
		Threaded End (1/2" of Threads)	Straight Rod				
		*10 Other-Please Specify					

Additional Fastener Options are Shown on Pages 19-21

Application Examples



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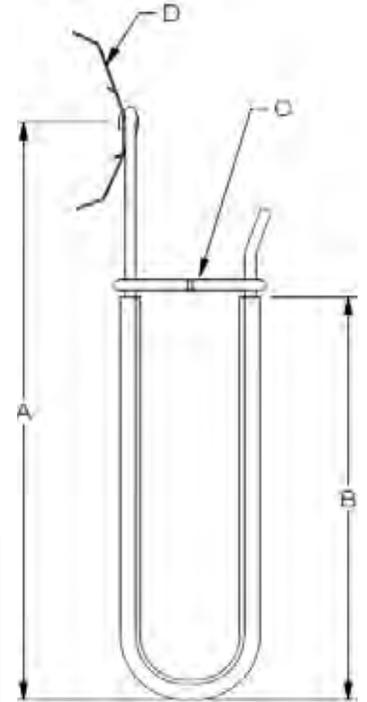




A=01 B=01

- Zinc plated rod for corrosion resistance
- Supports Line Sets and Insulated Refrigerant Piping
- 2" wide Plenum Rated plastic bearing surface reduces the pressure on the insulation.
- Spring Steel Clip can be ordered for 1/4" or 3/8" rod.
- Max load: 50# per support
- Engineered submittal documents stamped by an engineer.
- Refer to project building code to determine max weight/LF without seismic restraints

*****Patent Design**



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	Qty
Fig 109					
Fig 109					
Fig 109					

Tip...Take a look at the Fig 195 and Fig 196 to support refrigeration piping on a trapeze.

A	B	C		D	
Drop Length (Inches)	Return Length (Inches)	*01	1" Opening	*01	1/4" Spring Steel Clip
		*015	1.5" Opening	*02	3/8" Spring Steel Clip
		*02	2" Opening		
		*025	2.5" Opening		
		*03	3" Opening		
		*035	3.5" Opening		
		*04	4" Opening		
		*045	4.5" Opening		
		*05	5" Opening		
		*055	5.5" Opening		
		*06	6" Opening		
		*065	6.5" Opening		

Application Examples



Fig. 109



MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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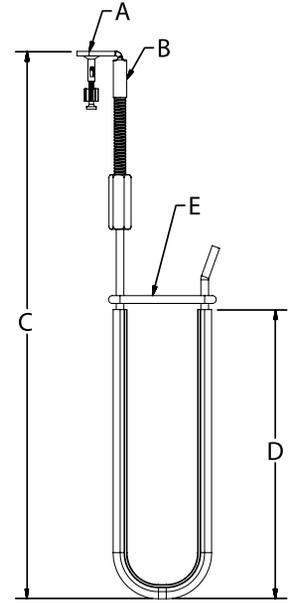
Fig. 110

Stiffy Threaded Insulated Pipe Stacker



- Zinc plated rod for corrosion resistance
- Supports Line Sets and Insulated Refrigerant Piping
- 3/8" Threaded Rod can be cut to length in the field.
- 2" wide Plenum Rated plastic bearing surface reduces the pressure on the insulation.
- Max load: 70# per support
- Engineered submittal documents stamped by an engineer.
- Refer to project building code to determine max weight/LF without seismic restraints

*****Patent Design**



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C	D	E	Qty
Fig 110						
Fig 110						
Fig 110						

Tip...Take a look at the Fig 195 and Fig 196 to support refrigeration piping on a trapeze.

A		B		C	D	E	
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	1" Opening
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*015	1.5" Opening
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²	90° Footprint	Hard Concrete Footprint			*02	2" Opening
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					*025	2.5" Opening
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					*3	3" Opening
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02			*035	3.5" Opening
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					*4	4" Opening
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint			*045	4.5" Opening
*07	#10 Hex Washer Head Sharp Point					*05	5" Opening
*08	Timberpin (Wood Applications)					*055	5.5" Opening
*09	Wide Mouth Beam Clamp	*03	*04			*06	6" Opening
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)					*065	6.5" Opening
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²	Threaded End (1/2" of Threads)	Straight Rod				
*14	Stiffy Wood Pull Down Attachment	*10 Other Please Specify					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange						
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange						
*25	Other—Please Specify						

Footnotes:
 1—When Power Actuated Fasteners (A=01, 02 or 13) and (B=01 90° Footprint) are selected, the B=011 Hard Concrete Footprint will be used by default.
 2—In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. Hard Concrete Footprints are available in 3/8".

Additional Fastener Options are Shown on Pages 19-21

Application Examples



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Fig. 111

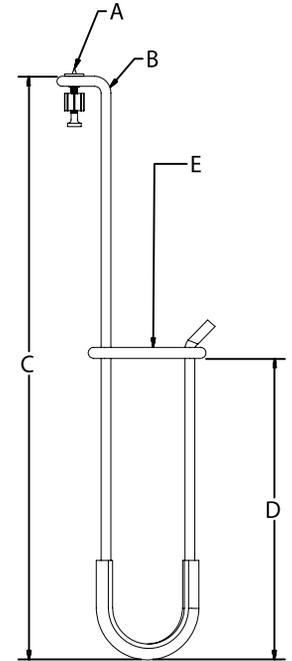
Stiffy Threaded SER Stacker



- Zinc plated rod for corrosion resistance
- Supports Service Entrance Cable fast and effectively
- SER Stackers can be ordered with threaded rod to enable the supports to be cut to length in the field
- 2" wide Plenum Rated plastic bearing surface reduces the pressure on the cables
- Max load: 70# per support
- Submittal documents stamped by an engineer
- Refer to project building code to determine max weight/LF without seismic restraints

*****Patent Design**

Tip...Take a look at the Fig 123 to support Service Entrance Cable horizontally.



F=02
Threaded Adjustable
Version Shown



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	F	Qty
Fig 111							
Fig 111							
Fig 111							

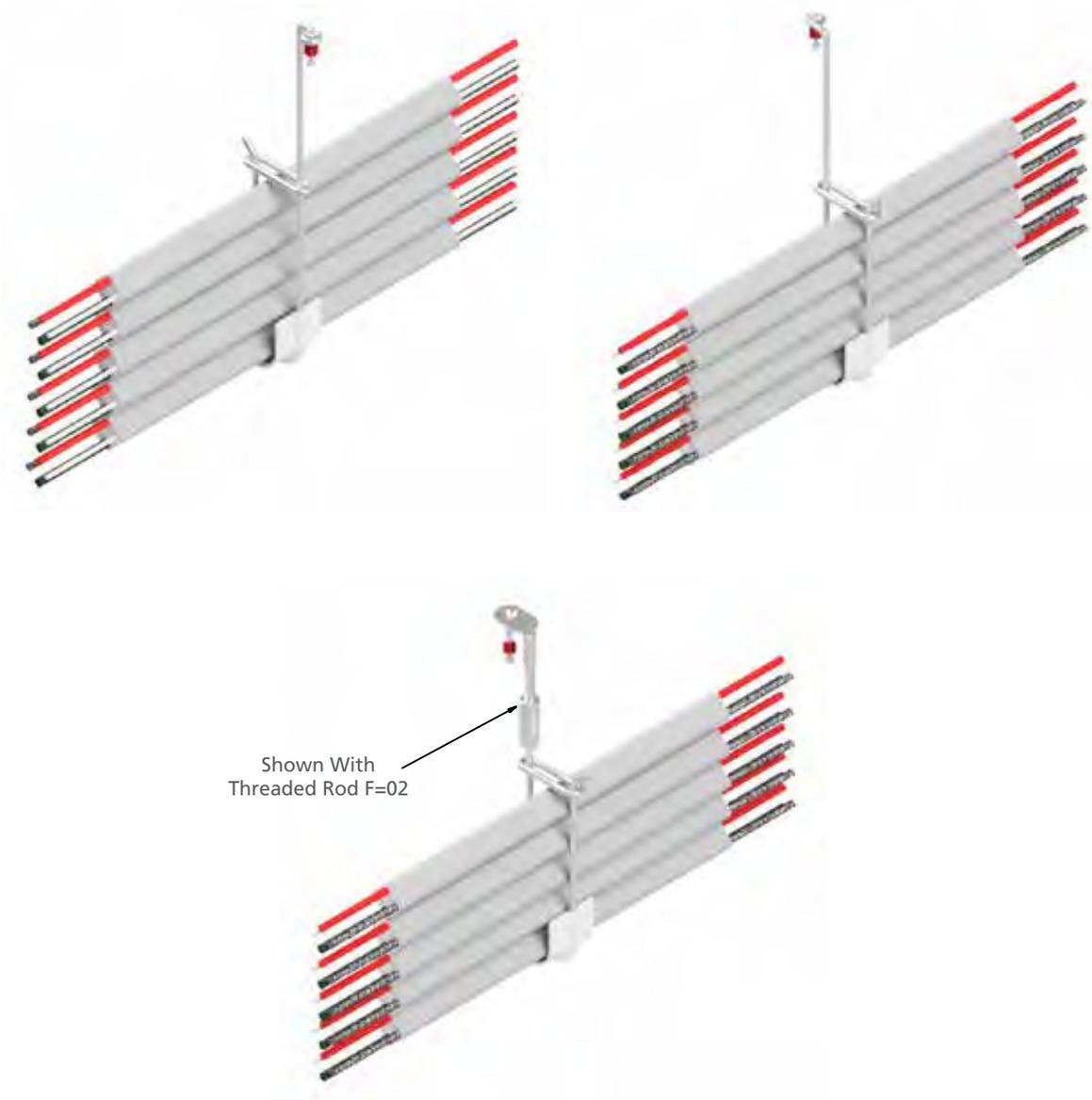
A		B		C	D	E		F	
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	3/4" Opening	*01	Fixed Length
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02	1" Opening	*02	Threaded Adjustable Version
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²					*03	1-1/4" Opening		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					*04	1-1/2" Opening		
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					*05	1-3/4" Opening		
*04	1/4" x 1-3/4" Concrete Screw Anchor					*06	2" Opening		
*04.1	3/8" x 1-3/4" Concrete Screw Anchor								
*06	#10 Hex Washer Head Self Driller	*012	*02						
*07	#10 Hex Washer Head Sharp Point								
*08	Timberpin (Wood Applications)								
*09	Wide Mouth Beam Clamp	*03	*04						
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)								
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²	Threaded End (1/2" of Threads)							
*14	Stiffy Wood Pull Down Attachment	Straight Rod							
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other Please Specify							
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange								
*25	Other—Please Specify								

Footnotes:
1—When Power Actuated Fasteners (A=01, 02 or 13) and (B=01 90° Footprint) are selected, the B=011 Hard Concrete Footprint will be used by default.
2—In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. Hard Concrete Footprints are available in 3/8".

Additional Fastener Options are Shown on Pages 19-21

Application Examples

Fig. 111



 ELECTRICAL/LOW VOLTAGE APPLICATIONS



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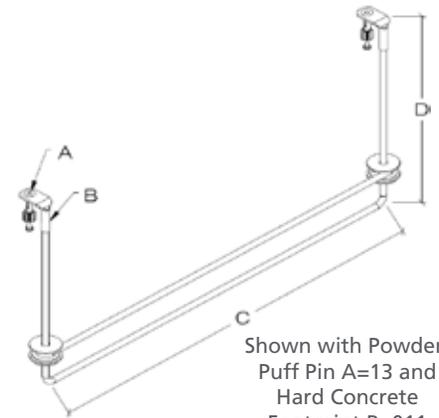


Fig. 120

Stiffy Crossbar Trapeze



- Supports MC/AC and Flexible Conduit
- Reduces the expense of costly trapezes
- UL listed hardware
- Run cables high and tight to avoid other trades
- Restraint washers hold crossbar in place
- Max load per trapeze: 100 Lbs (Refer to table below)
- Refer to page 28 for project building code and seismic requirements.

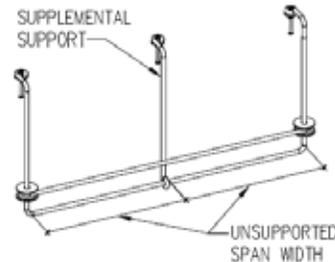


Shown with Powder Puff Pin A=13 and Hard Concrete Footprint B=011

Tip...Take a look at the Fig 101 to stack MC vertically.

Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

*Add supplemental support to reduce max unsupported span width



Tip..."Rollers" can be added to the crossbar to help the MC slide through the supports. Just ask!

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	Qty
Fig 120						
Fig 120						
Fig 120						

A		B		C	D	E	
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	Supplemental Support	
*01	1-1/4" Power Actuated Pin—1" Embedment	 90° Footprint	 Hard Concrete Footprint			*01	Yes
*02	1-1/2" Power Actuated Pin—1-1/4" Embed			*02	No		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 Gas Tool Footprint	 Sidemount Footprint				
*03.1	3/8" x 3" Wedge Anchor (2" Embed)						
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02				
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	 Gas Tool Footprint	 Sidemount Footprint				
*06	#10 Hex Washer Head Self Driller						
*07	#10 Hex Washer Head Sharp Point	 Threaded End (1/2" of Threads)	 Straight Rod				
*08	Timberpin (Wood Applications)						
*09	Wide Mouth Beam Clamp	*03	*04				
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)	 Threaded End (1/2" of Threads)	 Straight Rod				
*13	1-1/4" PowderPuff Pin—1" Embedment						
*14	Stiffy Wood Pull Down Attachment						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other-Please Specify					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange						
*25	Other—Please Specify						

Additional Fastener Options are Shown on Pages 19-21

Application Examples



Fig. 120



ELECTRICAL/LOW VOLTAGE APPLICATIONS



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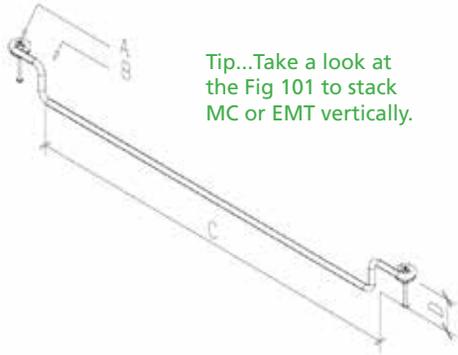


Fig. 121

Stiffy Trapeze

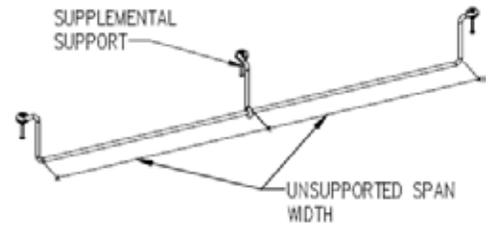


- Supports EMT, MC/AC and Flexible Conduit
- Reduces the expense of costly trapezes
- UL listed hardware
- Run cables high and tight to avoid other trades
- Guides cables vertically on walls
- Max load per trapeze: 100 Lbs (Refer to table below)
- Refer to page 28 for project building code and seismic requirements.



Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

*Add supplemental support to reduce max unsupported span width



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	Qty
Fig 121						
Fig 121						
Fig 121						



A		B		C	D	E			
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	Supplemental Support			
*01	1-1/4" Power Actuated Pin—1" Embedment						*01	Yes	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint	*02	No				
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)			*012	*02				
*03.1	3/8" x 3" Wedge Anchor (2" Embed)								
*04	1/4" x 1-3/4" Concrete Screw Anchor						*03	*04	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	Gas Tool Footprint	Sidemount Footprint				Threaded End (1/2" of Threads)	Straight Rod	
*06	#10 Hex Washer Head Self Driller								*10
*07	#10 Hex Washer Head Sharp Point								
*08	Timberpin (Wood Applications)								
*09	Wide Mouth Beam Clamp								
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)								
*13	1-1/4" PowderPuff Pin—1" Embedment								
*14	Stiffy Wood Pull Down Attachment								
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange								
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange								
*25	Other—Please Specify								

Additional Fastener Options are Shown on Pages 19-21

Fig. 121

Application Examples

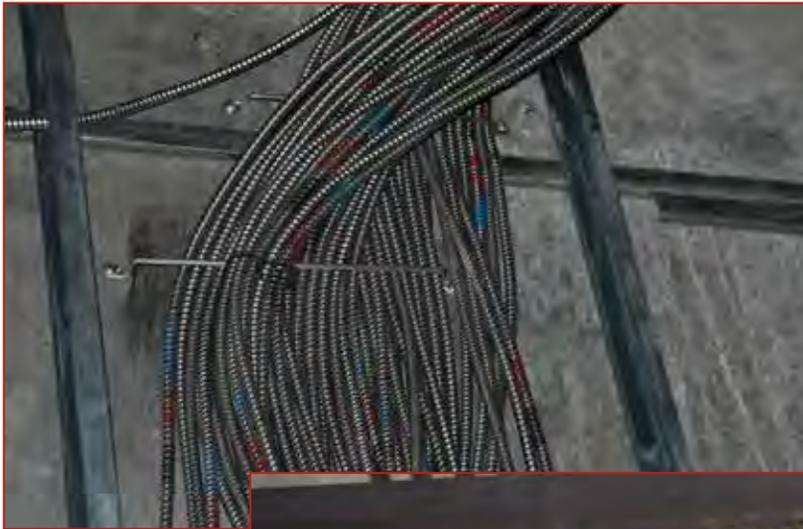


Fig. 121



ELECTRICAL/LOW VOLTAGE APPLICATIONS



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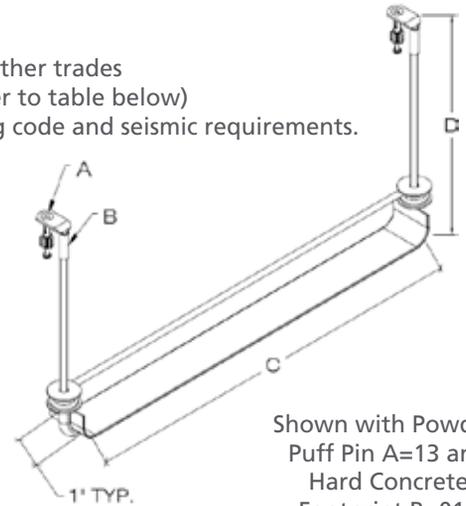
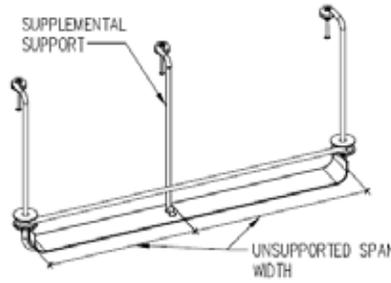
Fig. 123

Stiffy Cradle Crossbar Trapeze



- Supports Service Entrance Cable, MC/AC and Flexible Conduit
- Reduces the expense of costly trapezes
- Eliminates 1 or 2-hole straps
- UL listed hardware
- UL listed for use in plenums
- Run cables high and tight to avoid other trades
- Max load per trapeze: 100 Lbs (Refer to table below)
- Refer to page 28 for project building code and seismic requirements.

Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#
*Add supplemental support to reduce max unsupported span width	



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

Tip...Take a look at the Fig 111 to stack Service Entrance Cable vertically.

	A	B	C	D	E	Qty
Fig 123						
Fig 123						
Fig 123						

A		B		C	D	E	
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	Supplemental Support	
*01	1-1/4" Power Actuated Pin—1" Embedment					*01	Yes
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint	*02	No		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)			*02			
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	Gas Tool Footprint	Sidemount Footprint				
*04	1/4" x 1-3/4" Concrete Screw Anchor						
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	*03	*04				
*06	#10 Hex Washer Head Self Driller	Threaded End (1/2" of Threads)	Straight Rod				
*07	#10 Hex Washer Head Sharp Point						
*08	Timberpin (Wood Applications)	*10 Other-Please Specify					
*09	Wide Mouth Beam Clamp						
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)						
*13	1-1/4" PowderPuff Pin—1" Embedment						
*14	Stiffy Wood Pull Down Attachment						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange						
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange						
*25	Other—Please Specify						

Additional Fastener Options are Shown on Pages 19-21

Application Examples

Fig. 123

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



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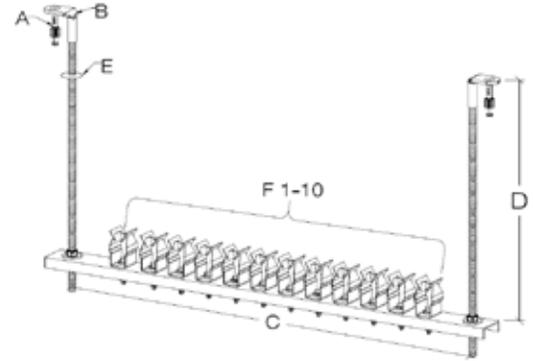
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Shown with Wide Mouth BC A=09 and Threaded Footprint B=03

- Supports Pipe, EMT, MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to page 28 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested



Shown with PowderPuff Pin A=13 and Hard Concrete Footprint B=011

Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

Max Capacity Based on Span	
24" Span	100#
36" Span	80#

	A	B	C	D	E	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	Qty
Fig 124																
Fig 124																
Fig 124																

A		B		C	D	E		F1 - F10			
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01	1/4" ATR	Conduit Size		Conduit Spacing	Wt/Lf ¹
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ⁵					*02	3/8" ATR ⁴	*00	No Conduit		
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ⁵	90° Footprint	Hard Concrete Footprint				*01	1/2" EMT ²	1-1/2" O.C.	0.54	
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)						*02	3/4" EMT ²	1-3/4" O.C.	0.92	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)						*03	1" EMT ²	2" O.C.	1.38	
*04	1/4" x 1-3/4" Concrete Screw Anchor						*04	1-1/4" EMT ³	2-1/4" O.C.	2.33	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	Gas Tool Footprint	Sidemount Footprint				*05	1-1/2" EMT ³	2-1/2" O.C.	3.36	
*06	#10 Hex Washer Head Self Driller						*10	Other—Please Specify			
*07	#10 Hex Washer Head Sharp Point	Threaded End (1/2" of Threads)	Other—Please Specify								
*08	Timberpin (Wood Applications)										
*09	Wide Mouth Beam Clamp										
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)										
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ⁵										
*14	Stiffy Wood Pull Down Attachment										
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange										
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange										
*25	Other—Please Specify										

Footnotes:

- 1-EMT weights are calculated with 40% conductor fill
- 2-Snap in style conduit supports are used for 1/2" EMT thru 1" EMT
- 3-Conduit Clips are used for 1-1/4" and 1-1/2" EMT
- 4-In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8".
- 5-When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default.

Additional Fastener Options are Shown on Pages 19-21

Application Examples

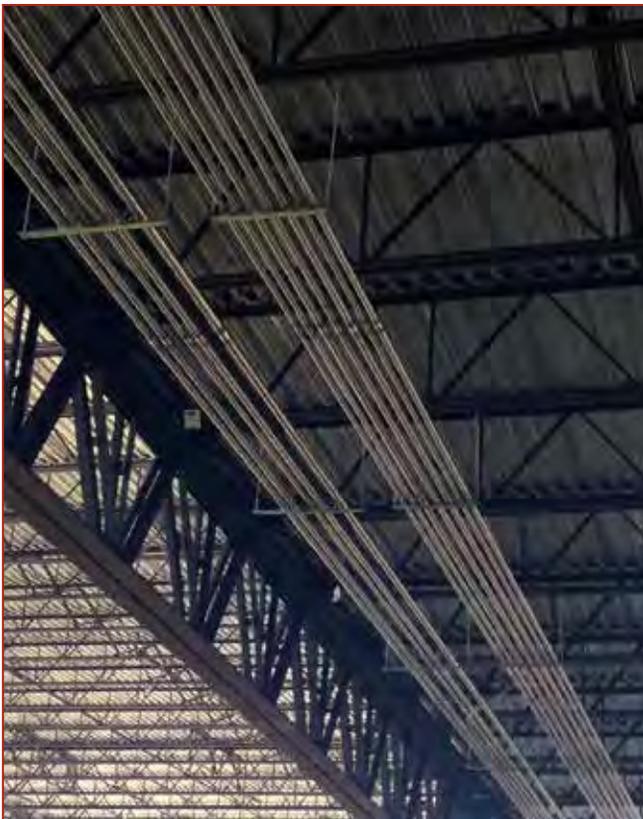


Fig. 124

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



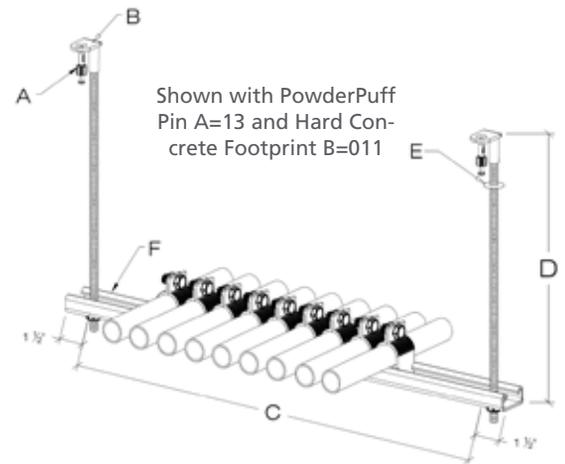
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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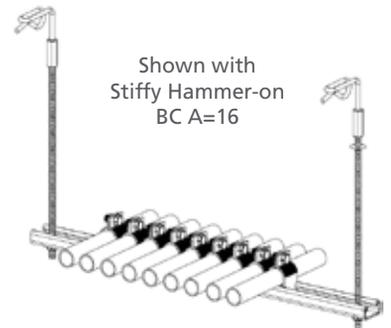




- Supports Pipe, EMT, MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Max load per trapeze: 100 Lbs
- Refer to page 28-29 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested



Tip...Take a look at the Fig 101 to stack MC or EMT vertically.



Shown with Stiffy Hammer-on BC A=16

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	F	Qty
Fig 125							
Fig 125							
Fig 125							

A		B		C	D	E		F
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01	1/4" ATR	Strut Profile
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02	3/8" ATR ¹	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²	90° Footprint	Hard Concrete Footprint					
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)							Gas Tool Footprint
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	*012	*02					
*04	1/4" x 1-3/4" Concrete Screw Anchor							*03
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	Threaded End (1/2" of Threads)						
*06	#10 Hex Washer Head Self Driller							
*07	#10 Hex Washer Head Sharp Point							
*08	Timberpin (Wood Applications)							
*09	Wide Mouth Beam Clamp							
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)							
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²							
*14	Stiffy Wood Pull Down Attachment							
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange							
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange							
*25	Other—Please Specify							
						Footnotes: 1- In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8". 2- When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default. 3- Solid strut used for trapezes		
								*01
						*02		
								*03

Additional Fastener Options are Shown on Pages 19-21

Application Examples

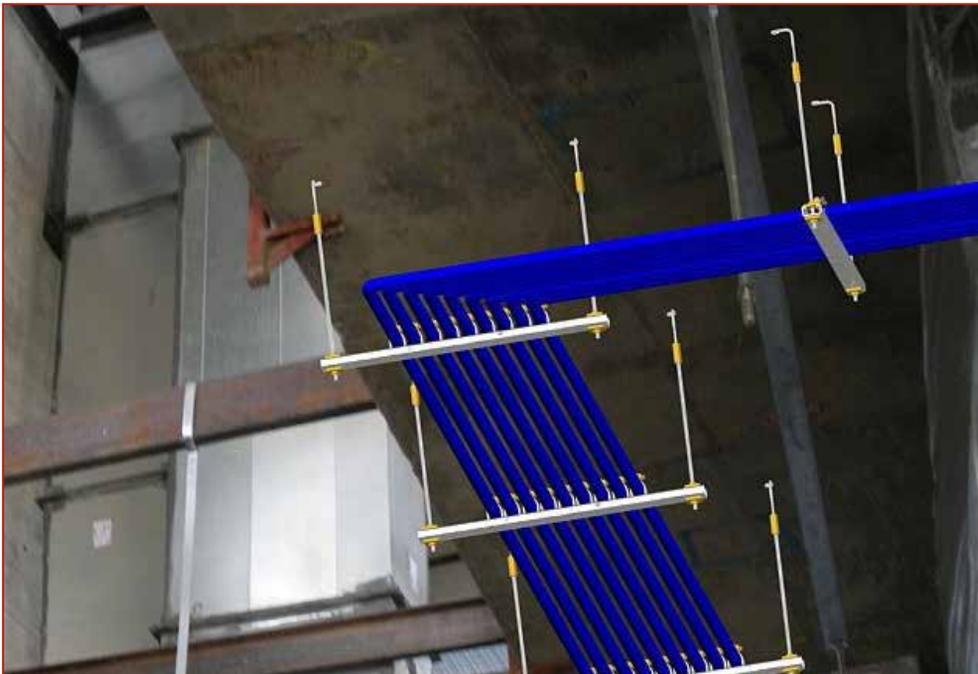
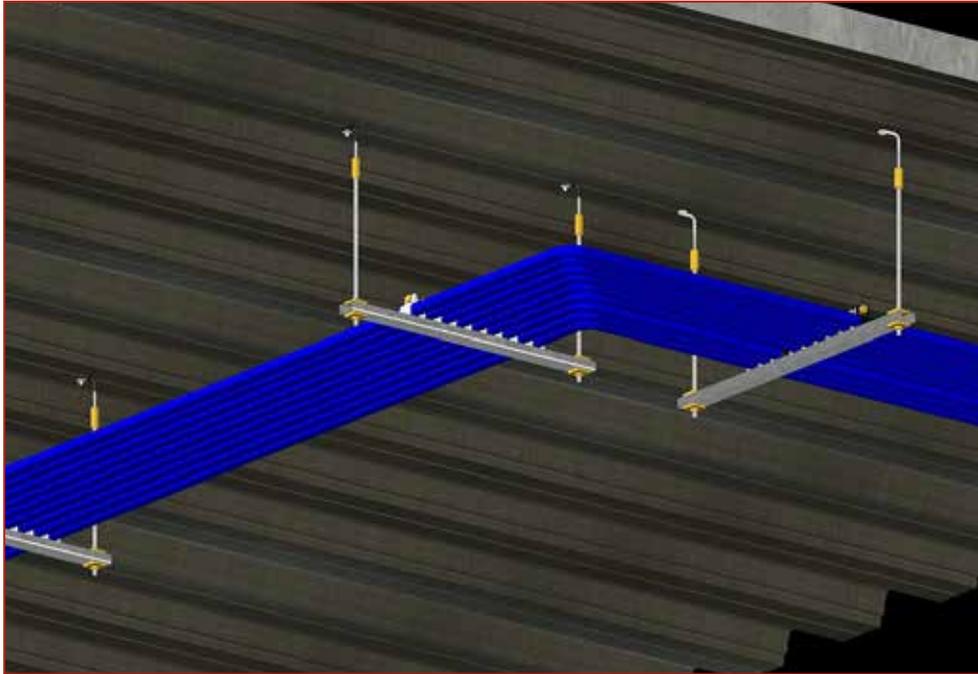


Fig. 125



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

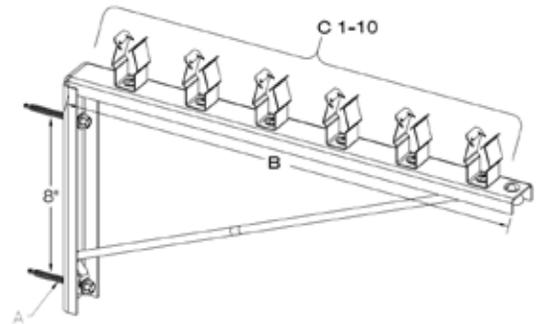
It's What We Do!





Stiffy Fig 127 Shown Supporting EMT

- Supports Pipe, EMT, MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to page 28 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested



Tip...Take a look at the Fig 101 to stack MC or EMT vertically.

Max Capacity Based on Span	
16" Span	80#
18" Span	67#



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	Qty
Fig 127													
Fig 127													
Fig 127													

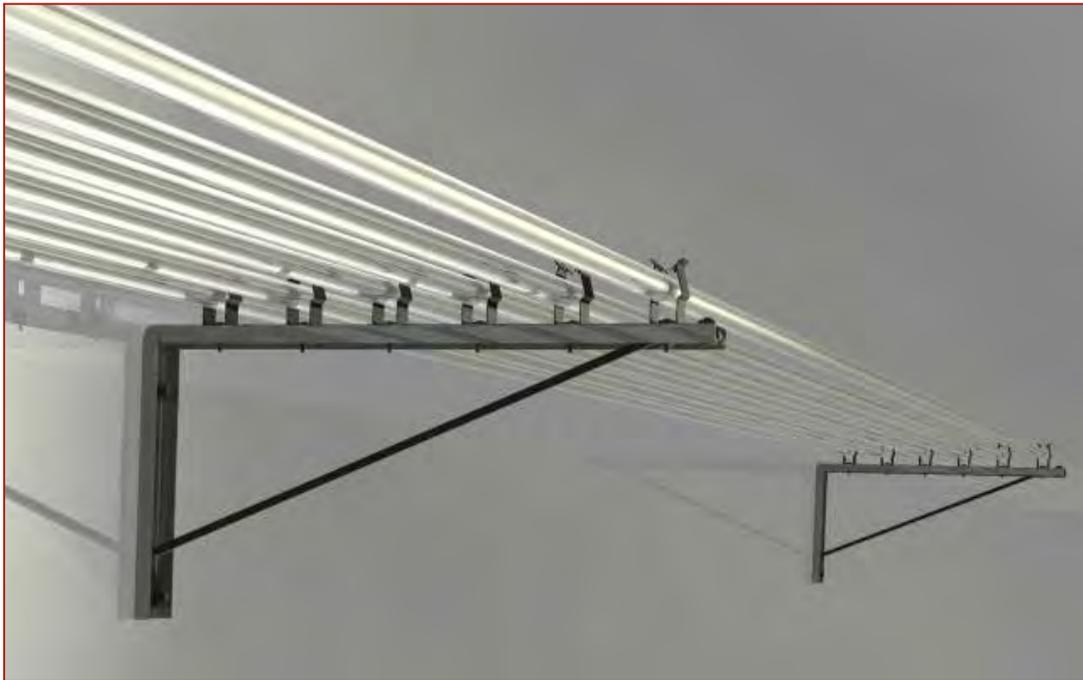
A		B	C 1 thru 10			
*00	No Fastener	Width (Inches)	Conduit Size		WT/LF ¹	
*01	1-1/4" Power Actuated Pin—1" Embedment		*00	No Conduit		
*02	1-1/2" Power Actuated Pin—1-1/4" Embed		*01	1/2" EMT ²	1-1/2" O.C.	0.54
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)		*02	3/4" EMT ²	1-3/4" O.C.	0.92
*03.1	3/8" x 3" Wedge Anchor (2" Embed)		*03	1" EMT ²	2" O.C.	1.38
*04	1/4" x 1-3/4" Concrete Screw Anchor		*04	1-1/4" EMT ³	2-1/4" O.C.	2.33
*04.1	3/8" x 1-3/4" Concrete Screw Anchor		*05	1-1/2" EMT ³	2-1/2" O.C.	3.36
*06.1	#14 x 2-1/2" 1/4" Hex Washer Head Self Driller					
*08	Timberpin (Wood Applications)					
*13	1-1/4" PowderPuff Pin—1" Embedment					
*25	Other—Please Specify					

Footnotes:
 1—EMT weights are calculated with 40% conductor fill.
 2—Snap-in style conduit supports are used for 1/2" EMT thru 1" EMT
 3—Conduit Clips are used for 1-1/4" and 1-1/2" EMT

Additional Fastener Options are Shown on Pages 19-21



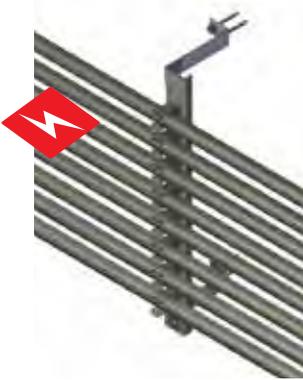
Application Examples



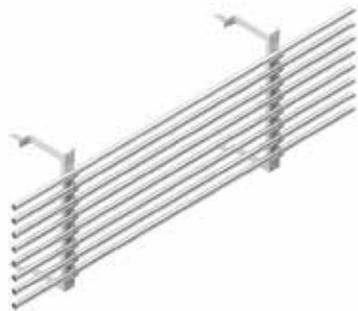
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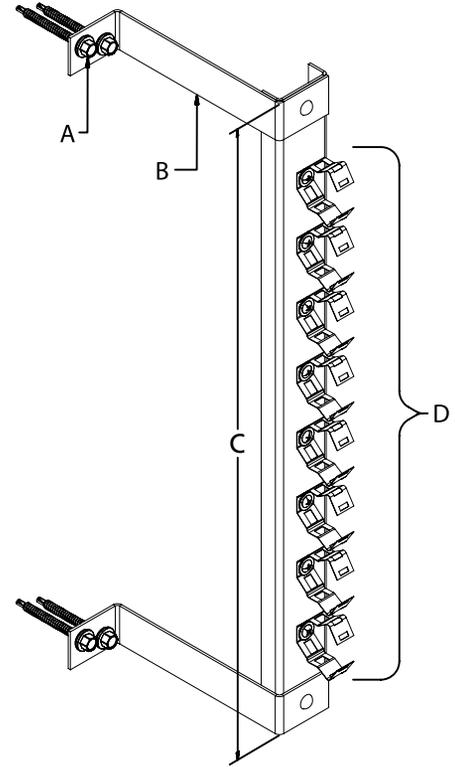
- Supports Pipe, EMT, MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to page 28 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested



Shown with the standoff bracket



Shown without the standoff bracket



Tip...Take a look at the Fig 101 to stack MC or EMT vertically.



Contractor:						Ship to Address:					
PO#						Order Date:					
<p>**All Orders are Custom and Therefore Non-cancellable and Non-returnable</p>											

	A	B	C	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	Qty
Fig 128														
Fig 128														
Fig 128														

A		B		C	D 1 thru 10			
*00	No Fastener	*00	5" Offset Bracket		Width (Inches)	Conduit Size	Conduit Spacing	WT/LF ¹
*01	1-1/4" Power Actuated Pin—1" Embedment	*00	No	Footnotes: 1-EMT weights are calculated with 40% conductor fill. 2-Snap-in style conduit supports are used for 1/2" EMT thru 1" EMT 3-Conduit Clips are used for 1-1/4" and 1-1/2" EMT	*00	No Conduit		
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	*01	Yes		*01	1/2" EMT ²	1-1/2" O.C.	0.54
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)				*02	3/4" EMT ²	1-3/4" O.C.	0.92
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				*03	1" EMT ²	2" O.C.	1.38
*04	1/4" x 1-3/4" Concrete Screw Anchor				*04	1-1/4" EMT ³	2-1/4" O.C.	2.33
*04.1	3/8" x 1-3/4" Concrete Screw Anchor				*05	1-1/2" EMT ³	2-1/2" O.C.	3.36
*06.1	#14 x 2-1/2" 1/4" Hex Washer Head Self Driller							
*08	Timberpin (Wood Applications)							
*13	1-1/4" PowderPuff Pin—1" Embedment							
*25	Other—Please Specify							

Additional Fastener Options are Shown on Pages 19-21

Application Examples

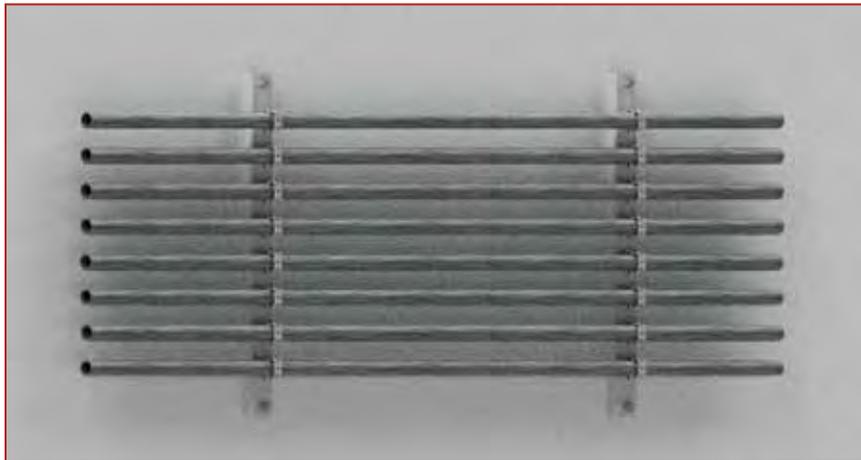
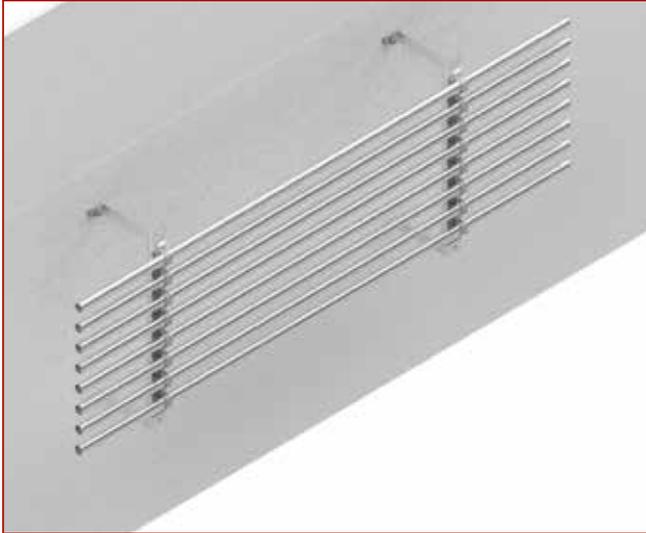


Fig. 128



ELECTRICAL/LOW VOLTAGE APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 129

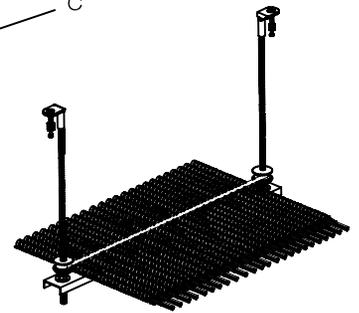
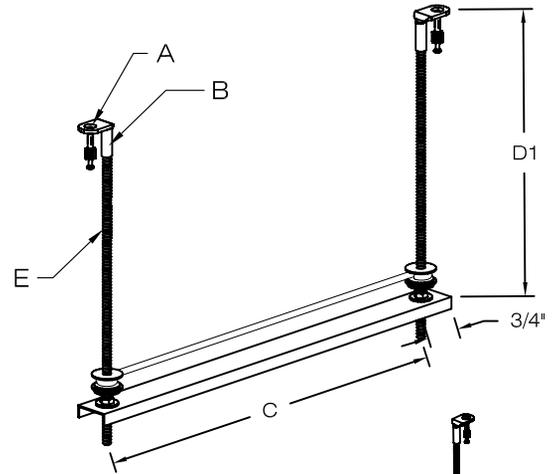
Stiffy HD Crossbar Trapeze



- Supports MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to page 28 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested

Tip...Take a look at the Fig 101 to stack MC or EMT vertically.

Max Capacity Based on Span	
24" Span	100#
36" Span	80#



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C	D	E	Qty
Fig 129						
Fig 129						
Fig 129						



A		B		C	D	E
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01 1/4" ATR
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02 3/8" ATR ¹
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²	90° Footprint	Hard Concrete Footprint	<p>Footnotes:</p> <p>1-In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8".</p> <p>2-When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default.</p>		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	Gas Tool Footprint	Sidemount Footprint			
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02			
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					
*06	#10 Hex Washer Head Self Driller	Threaded End (1/2" of Threads)	Straight Rod			
*07	#10 Hex Washer Head Sharp Point	*10 Other-Please Specify				
*08	Timberpin (Wood Applications)					
*09	Wide Mouth Beam Clamp					
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)					
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²					
*14	Stiffy Wood Pull Down Attachment					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange					
*25	Other—Please Specify					

Additional Fastener Options are Shown on Pages 19-21

Fig. 130

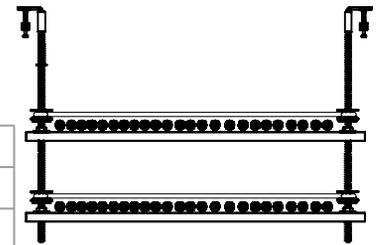
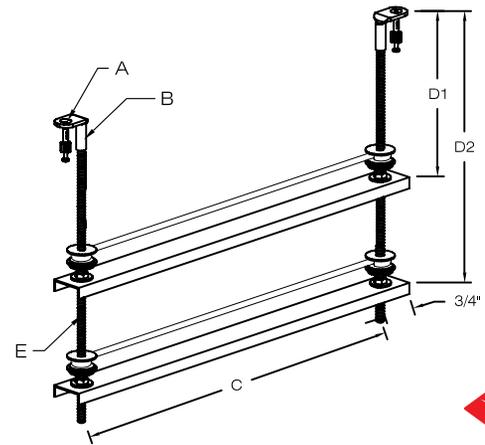
Stiffy HD 2-Tier Crossbar Trapeze



- Supports MC/AC and Flexible Conduit
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to page 28 for project building code and seismic requirements.
- UL listed hardware
- Engineering services are available to design anchors and trapeze assemblies per project requirements when requested

Tip...Take a look at the Fig 101 to stack MC or EMT vertically.

Max Capacity <i>Per Tier</i> Based on Span	
24" Span	100#
36" Span	80#



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C	D1	D2	E	Qty
Fig 130							
Fig 130							
Fig 130							



A		B		C	D	E
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01 1/4" ATR
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02 3/8" ATR ¹
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²			Footnotes:		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	90° Footprint	Hard Concrete Footprint	1- In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8".		
*03.1	3/8" x 3" Wedge Anchor (2" Embed)			2- When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default.		
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02			
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint			
*07	#10 Hex Washer Head Sharp Point					
*08	Timberpin (Wood Applications)					
*09	Wide Mouth Beam Clamp	*03	*04			
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)					
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²	Threaded End (1/2" of Threads)	Straight Rod			
*14	Stiffy Wood Pull Down Attachment					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other-Please Specify				
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange					
*25	Other—Please Specify					

Additional Fastener Options are Shown on Pages 19-21

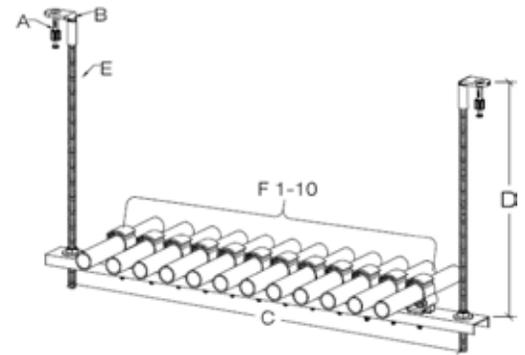
Fig. 130 ELECTRICAL/LOW VOLTAGE APPLICATIONS





Shown with Wide Mouth BC A=09 and Threaded Footprint B=03

- Supports A/C Tubing, Refrigeration, PEX, Med Gas, Copper and Steel Pipe, EMT, MC/AC and Flexible Conduit
- Engineered as a complete assembly
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to project building code for support spacing and seismic requirements
- UL Listed Components
- Snaps can be installed around insulated pipes or spacers can be supplied so insulation can be notched around the support
- Larger Sized Snaps are available to be installed around insulation



Shown with PowderPuff Pin A=13 and New Hard Concrete Footprint B=01

Max Capacity Based on Span	
24" Span	100#
36" Span	80#

Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											



	A	B	C	D	E	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	Qty
Fig 131																
Fig 131																
Fig 131																

A		B		C	D	E		F1 Thru F10														
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01	1/4" ATR	Input the appropriate value preceded by an (*)														
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02	3/8" ATR ¹	Trade Size	EMT ³	Sch 40 Steel ^{4,5}	Type K Copper ^{4,5}											
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²	90° Footprint	Hard Concrete Footprint	To add insulation spacers: Add an "I" to the order option followed by the insulation thickness. Example: *2812 = 1" copper with 2" of insulation.				Size	Wt/LF	Size	Wt/LF	Size	Wt/LF									
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)							*012	*02	1/4"	-	*10	-	*10	-							
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	Gas Tool Footprint	Sidemount Footprint					3/8"	-	*17	-	*17	-									
*04	1/4" x 1-3/4" Concrete Screw Anchor							1/2"	*17	0.54	*20	0.98	*15	0.43								
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	Threaded End (1/2" of Threads)	*10 Other Please Specify					5/8"	-	-	-	*17	-									
*06	#10 Hex Washer Head Self Driller							3/4"	*22	0.92	*25	1.36	*22	0.83								
*07	#10 Hex Washer Head Sharp Point											1"	*28	1.38	*32	2.07	*28	1.18				
*08	Timberpin (Wood Applications)											1-1/4"	*36	-	*40	-	*32	-				
*09	Wide Mouth Beam Clamp											1-1/2"	*40	3.36	*47	3.58	*40	2.1				
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)											2"	*51	4.78	*59	5.05	*51	3.37				
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²																					
*14	Stiffy Wood Pull Down Attachment																					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange																					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange																					
*25	Other—Please Specify																					

Footnotes:
 1—In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. New Hard Concrete Footprint B=011, is available in 1/4" and 3/8".
 2—When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default.
 3—EMT weights are calculated with 40% conductor fill.
 4—Sch 40 Steel and Copper weights are calculated as full of water.
 5—Larger Sized Snaps are available to be installed around insulation.

Additional Fastener Options are Shown on Pages 19-21

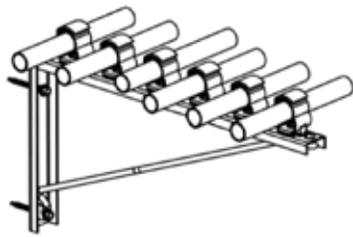
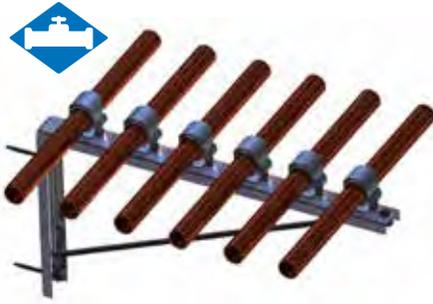
Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

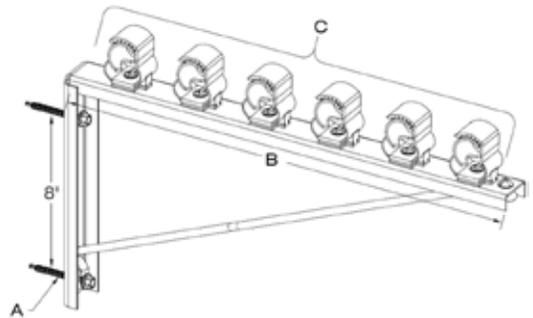
It's What We Do!





Stiffy Fig 132 Shown Supporting EMT

- Supports A/C Tubing, Refrigeration, PEX, Med Gas, Copper and Steel Pipe, EMT, MC/AC and Flexible Conduit
- Engineered as a complete assembly
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to project building code for support spacing and seismic requirements
- UL Listed Components
- Snaps can be installed around insulated pipes to maintain continuous insulation
- Larger Sized Snaps are available to be installed around insulation



Max Capacity Based on Span	
16" Span	80#
18" Span	67#



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	Qty
Fig 132													
Fig 132													
Fig 132													

A		B	C1 Thru C10						
		Width (Inches)	Input the appropriate value preceded by an (*)						
*00	No Fastener	To add insulation spacers: Add an "I" to the order option followed by the insulation thickness. Example: *2812 = 1" copper with 2" of insulation.	Trade Size	EMT ¹		Sch 40 Steel ^{2,3}		Type K Copper ^{2,3}	
*01	1-1/4" Power Actuated Pin—1" Embedment		Size	Wt/LF	Size	Wt/LF	Size	Wt/LF	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.		1/4"	-	-	*10	-	*10	-
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)		3/8"	-	-	*17	-	*10	-
*03.1	3/8" x 3" Wedge Anchor (2" Embed)		1/2"	*17	0.54	*20	0.98	*15	0.43
*04	1/4" x 1-3/4" Concrete Screw Anchor		5/8"	-	-	-	-	*17	-
*04.1	3/8" x 1-3/4" Concrete Screw Anchor		3/4"	*22	0.92	*25	1.36	*22	0.83
*06.1	#14 x 2-1/2" 1/4" Hex Washer Head Self Driller		1"	*28	1.38	*32	2.07	*28	1.18
*08	Timberpin (Wood Applications)		1-1/4"	*36	-	*40	-	*32	-
*13	1-1/4" PowderPuff Pin—1" Embedment (B=05)?		1-1/2"	*40	3.36	*47	3.58	*40	2.1
*15	Other—Please Specify		2"	*51	4.78	*59	5.05	*51	3.37

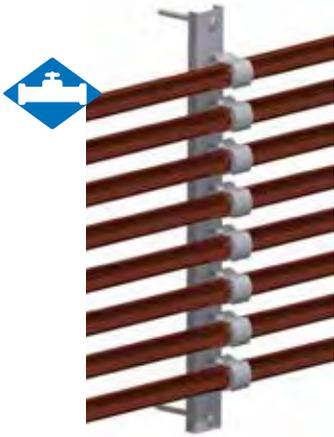


Footnotes:
 1—EMT weights are calculated with 40% conductor fill.
 2—Sch 40 Steel and Copper weights are calculated as full of water.
 3—Larger Sized Snaps are available to be installed around insulation.

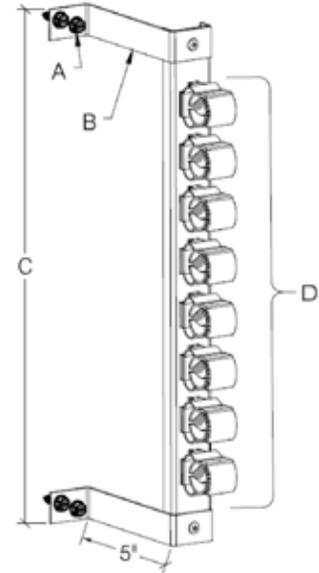
Additional Fastener Options are Shown on Pages 19-21

Fig. 133

Stiffy Snap Wall Rack



- Supports A/C Tubing, Refrigeration, PEX, Med Gas, Copper and Steel Pipe, EMT, MC/AC and Flexible Conduit
- Engineered as a complete assembly
- No time wasted in the field with unnecessary assembly
- Quick installation
- Refer to project building code for support spacing and seismic requirements
- UL Listed Components
- Snaps can be installed around insulated pipes to maintain continuous insulation
- Larger Sized Snaps are available to be installed around insulation



Shown with the standoff bracket



Shown without the standoff bracket

Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	



	A	B	C	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	Qty
Fig 133														
Fig 133														
Fig 133														

A		B		C	D1 Thru D10					
00	No Fastener	5" Offset Bracket		Width (Inches)	Input the appropriate value preceded by an ()					
*01	1-1/4" Power Actuated Pin—1" Embedment	*00	No		Trade Size	EMT ¹		Sch 40 Steel ^{2,3}		Type K Copper ^{2,3}
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.	*01	Yes	Size		Wt/LF	Size	Wt/LF	Size	Wt/LF
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	To add insulation spacers: Add an "I" to the order option followed by the insulation thickness. Example: *2812 = 1" copper with 2" of insulation.			1/4"	-	*10	-	*10	-
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				3/8"	-	*17	-	*10	-
*04	1/4" x 1-3/4" Concrete Screw Anchor	Footnotes: 1—EMT weights are calculated with 40% conductor fill. 2—Sch 40 Steel and Copper weights are calculated as full of water. 3—Larger Sized Snaps are available to be installed around insulation.		1/2"	*17	0.54	*20	0.98	*15	0.43
*04.1	3/8" x 1-3/4" Concrete Screw Anchor			5/8"	-	-	-	*17	-	*17
*06.1	#14 x 2-1/2" 1/4" Hex Washer Head Self Driller	Footnotes: 1—EMT weights are calculated with 40% conductor fill. 2—Sch 40 Steel and Copper weights are calculated as full of water. 3—Larger Sized Snaps are available to be installed around insulation.		3/4"	*22	0.92	*25	1.36	*22	0.83
*08	Timberpin (Wood Applications)			1"	*28	1.38	*32	2.07	*28	1.18
*13	1-1/4" PowderPuff Pin—1" Embedment	Footnotes: 1—EMT weights are calculated with 40% conductor fill. 2—Sch 40 Steel and Copper weights are calculated as full of water. 3—Larger Sized Snaps are available to be installed around insulation.		1-1/4"	*36	-	*40	-	*32	-
*15	Other—Please Specify			1-1/2"	*40	3.36	*47	3.58	*40	2.1
				2"	*51	4.78	*59	5.05	*51	3.37

Additional Fastener Options are Shown on Pages 19-21

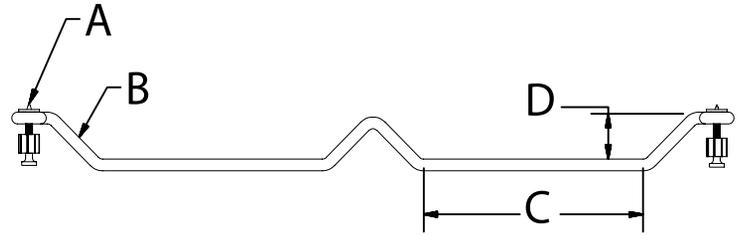
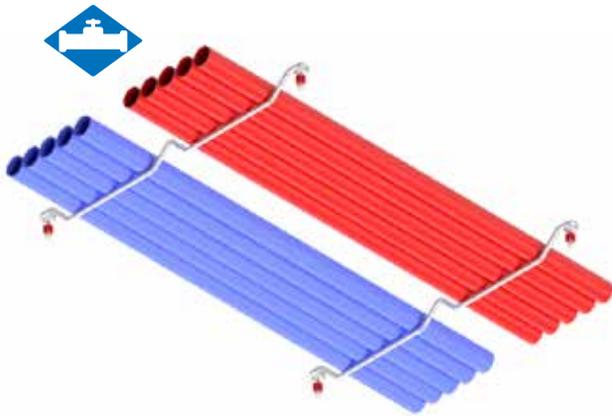
Fig. 133

MECHANICAL/PLUMBING APPLICATIONS



Fig. 134

Stiffy PEX Trapeze



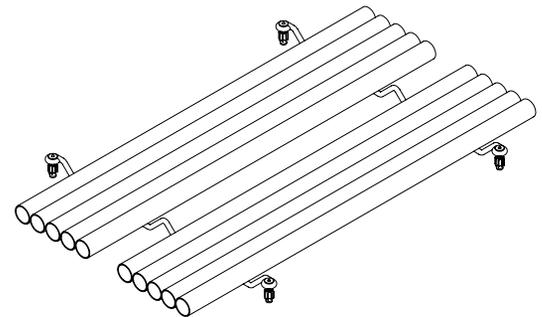
- Supports PEX piping high and tight overhead or vertically on walls
- Reduces the expense of costly trapezes
- Max load per trapeze: 50 Lbs (Refer to table below)
- Fasteners are included and designed to support the loads referenced in the capacity table.

Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

*Add supplemental support to reduce max unsupported span width

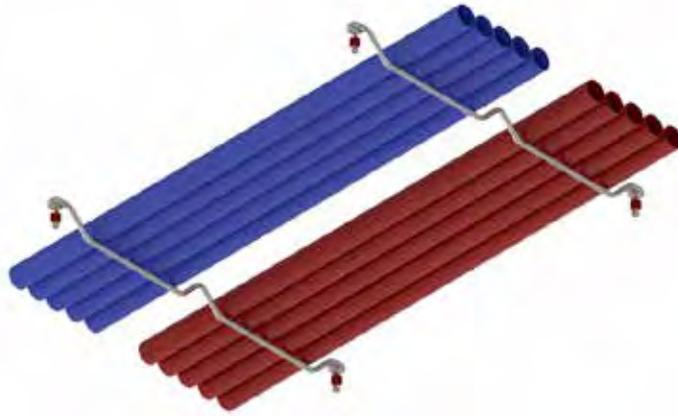
	A	B	C	D	Qty
Fig 134					
Fig 134					
Fig 134					



A		B		C	D
				Width (Inches)	Drop Length (Inches)
*00	No Fastener	*01	*011		
*01	1-1/4" Power Actuated Pin—1" Embedment				
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)				
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02		
*04.1	3/8" x 1-3/4" Concrete Screw Anchor				
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint		
*07	#10 Hex Washer Head Sharp Point				
*08	Timberpin (Wood Applications)				
*09	Wide Mouth Beam Clamp	*03	*04		
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)	Threaded End (1/2" of Threads)	Straight Rod		
*13	1-1/4" PowderPuff Pin—1" Embedment	*10 Other-Please Specify			
*14	Stiffy Wood Pull Down Attachment				
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange				
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange				
*25	Other—Please Specify				

Additional Fastener Options are Shown on Pages 19-21

Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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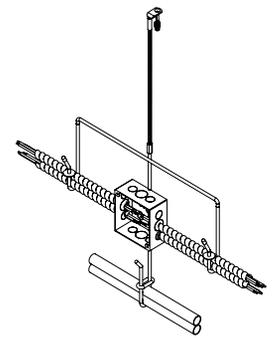
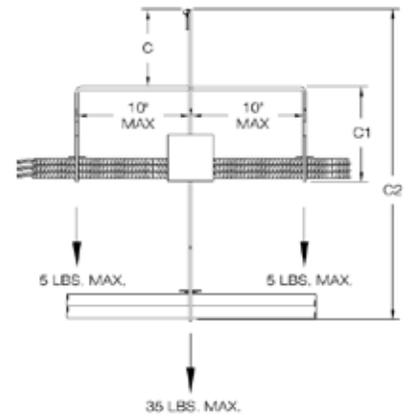
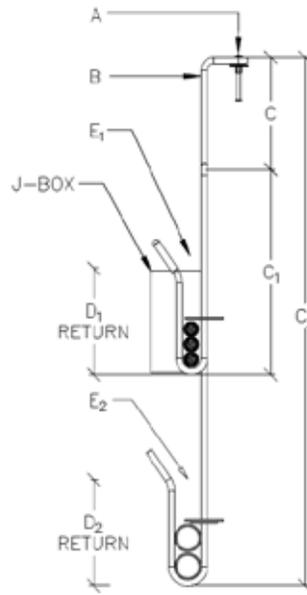


Fig. 140

Stiffy Multi Stacker Support



- Zinc plated rod resists corrosion
 - Supports EMT, MC/AC and Flexible Conduit
 - Spaces cables to avoid bundling and NEC de-rating issues
 - Max load: 50# per support
 - UL listed hardware
- ***Patented Design**



F=02
Threaded Adjustable
Version Shown

Contractor:						Ship to Address:					
PO#						Order Date:					
<p>**All Orders are Custom and Therefore Non-cancellable and Non-returnable</p>											

	A	B	C	C1	D1	E2	C2	D2	E2	F	Qty
Fig 140											
Fig 140											
Fig 140											

***To order the Multi Support with no stacker returns input "0" for the return length (D*) and opening size (E*).**

A		B		C-C2	D1-D2	E1-E2				F		
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	White	(.430 thru .560 diameter) 14-3, 14-4, 12-2, 12-3, 12-4 and 10-2 MC/AC		*01	Fixed Length	
*01	1-1/4" Power Actuated Pin—1" Embedment	 90° Footprint	 Hard Concrete Footprint			*02	Black	(.560 thru .690 diameter) Standard MC Sizes: 10-3, 10-4, 8-2, 8-3.		*02	Threaded Adjustable Version	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed					*03	Blue	(.700 thru .830 diameter) MC/AC				
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 Gas Tool Footprint	 Sidemount Footprint			*04	Orange	(.840 thru .970 diameter) MC/AC				
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					*05	Pink	(1.12 thru 1.250 diameter) MC/AC				
*04	1/4" x 1-3/4" Concrete Screw Anchor					*06	Teal	(1.260 thru 1.390 diameter) MC/AC				
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	 Threaded End (1/2" of Threads)	 Straight Rod			Refer to the Tech Section for MC/AC Diam.						
*06	#10 Hex Washer Head Self Driller					*07	Wine					
*07	#10 Hex Washer Head Sharp Point			*08	Gray	1/2" EMT						
*08	Timberpin (Wood Applications)			*09	Brown	3/4" EMT						
*09	Wide Mouth Beam Clamp	*10 Other—Please Specify		*10	Green	1" EMT						
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)			*11	Yellow	1-1/4" EMT						
*13	1-1/4" PowderPuff Pin—1" Embedment			*12	Red	1-1/2" EMT						
*14	Stiffy Wood Pull Down Attachment			*13	Purple	2" EMT						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange			*14	Other	Specify Size						
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange											
*25	Other—Please Specify											

Additional Fastener Options are Shown on Pages 19-21

Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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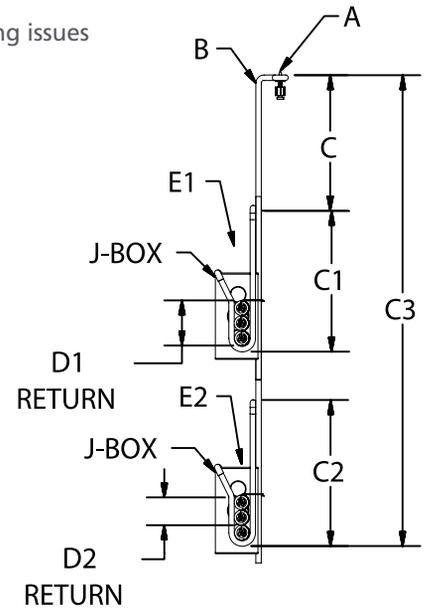
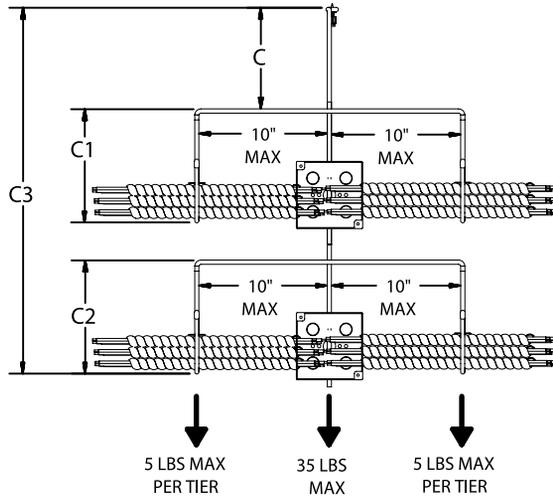
Fig. 144

2 Tier Stiffy Multi Stacker Support



*****Patented Design**

- Zinc plated rod resists corrosion
- Supports EMT, MC/AC and Flexible Conduit
- Spaces cables to avoid bundling and NEC de-rating issues
- Max load: 50# per support
- UL listed hardware



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



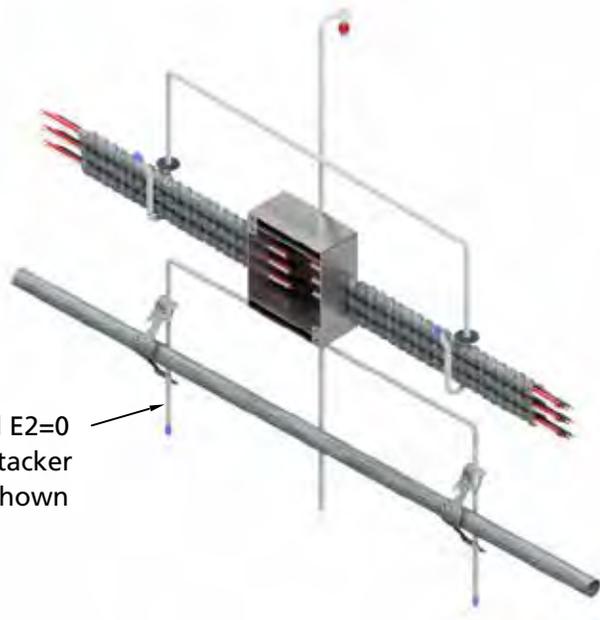
	A	B	C	C1	D1	E1	C2	D2	E2	C3	F	QTY
Fig 144												
Fig 144												
Fig 144												

***To order the Multi Support with no stacker returns input "0" for the return length (D*) and opening size (E*).**

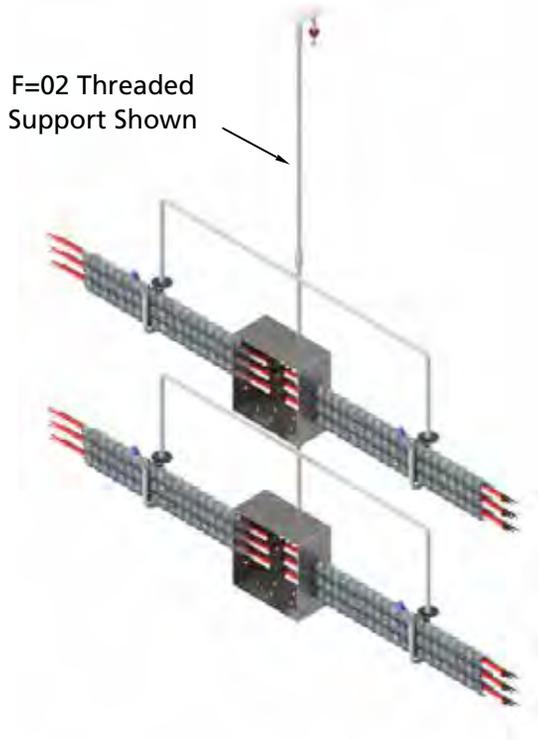
A		B		C-C3	D1-D2	E1-E2		F	
*00	No Fastener	*01	*011	Drop Length (Inches)	Return Length (Inches)	*01	White (.430 thru .560 diameter) 14-3, 14-4, 12-2, 12-3, 12-4 and 10-2 MC/AC	*01	Fixed Length
*01	1-1/4" Power Actuated Pin—1" Embedment					*02	Black (.560 thru .690 diameter) Standard MC Sizes: 10-3, 10-4, 8-2, 8-3.	*02	Threaded Adjustable Version
*02	1-1/2" Power Actuated Pin—1-1/4" Embed					*03	Blue (.700 thru .830 diameter) MC/AC		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					*04	Orange (.840 thru .970 diameter) MC/AC		
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					*05	Pink (.980 thru 1.11 diameter) MC/AC		
*04	1/4" x 1-3/4" Concrete Screw Anchor					*06	Teal (1.12 thru 1.250 diameter) MC/AC		
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	*10 Other-Please Specify				*07	Wine (1.260 thru 1.390 diameter) MC/AC		
*06	#10 Hex Washer Head Self Driller					Refer to the Tech Section for MC/AC Diam.			
*07	#10 Hex Washer Head Sharp Point					*08	Gray 1/2" EMT		
*08	Timberpin (Wood Applications)					*09	Brown 3/4" EMT		
*09	Wide Mouth Beam Clamp					*10	Green 1" EMT		
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)					*11	Yellow 1-1/4" EMT		
*13	1-1/4" PowderPuff Pin—1" Embedment					*12	Red 1-1/2" EMT		
*14	Stiffy Wood Pull Down Attachment					*13	Purple 2" EMT		
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					*14	Other Specify Size		
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange								
*25	Other—Please Specify								

Fig. 144

Application Examples



D2=0 and E2=0
with no Stacker
Returns Shown



F=02 Threaded
Support Shown



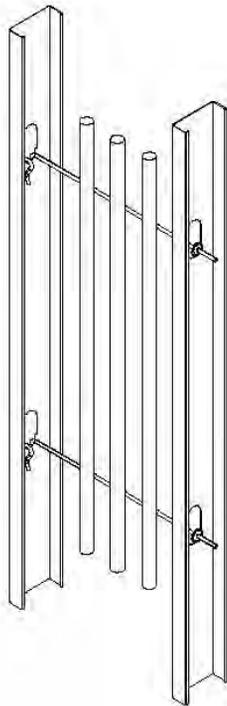
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!



Fig. 160

Stiffy Stud Spanner

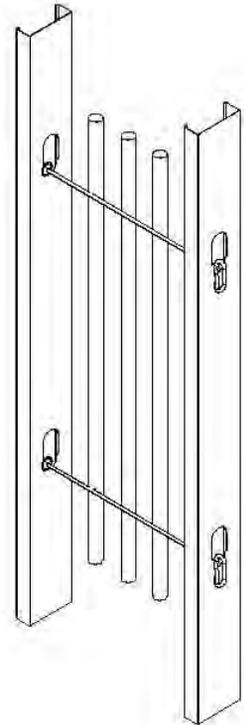


- Zinc plated rod for corrosion resistance
- Secures EMT, MC/AC and Flexible Conduit between studs
- Quick installation
- No screws required
- Innovative fastener loop secures the support to metal studs
- Use Stiffy Grippers—Fig 161 for attachment

*****Patented Design**



Tip...Check out the Fig 161 Stiffy Grippers. 2-sided "Bat Wing" clips to support EMT and MC.



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

A	
*01	16" Spanner
*02	24" Spanner

	A	Qty
Fig 160		
Fig 160		
Fig 160		

Application Examples



Fig. 160



ELECTRICAL/LOW VOLTAGE APPLICATIONS



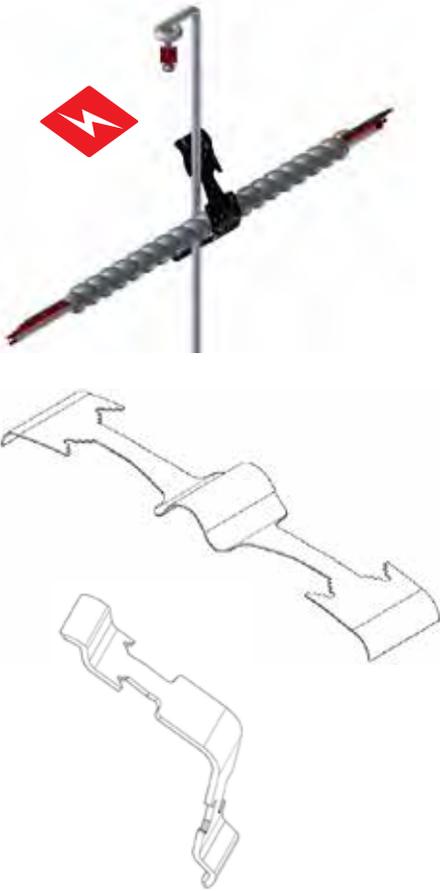
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!



Fig. 161

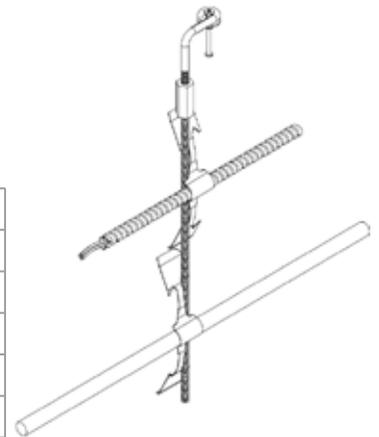
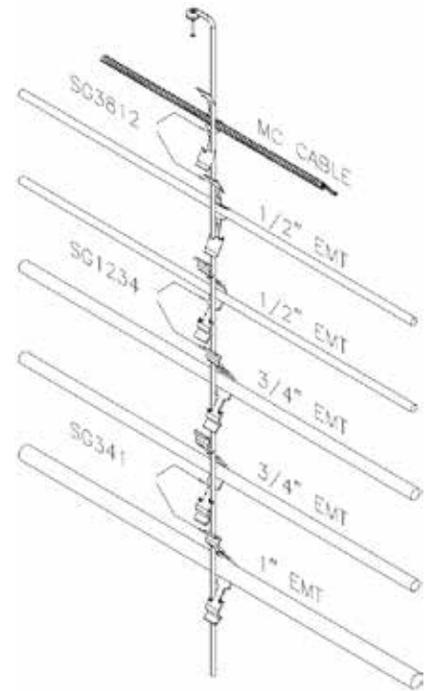
Stiffy Gripper



- 1 STIFFY GRIPPER = 2 SIZES
- Each Stiffy Gripper works on 2 sizes of EMT, MC/AC or Flexible Conduit
- 3 Sizes: (3/8" - 1/2"), (1/2" - 3/4") and (3/4" - 1")
- Reduce jobsite inventory
- Quick installation
- Max support spacing for Type AC cables not to exceed 4-1/2' (Per 2005 NEC® Article 320.30)
- Max support spacing for Type MC cables not to exceed 6' (Per 2005 NEC® Article 330.30)
- Max support spacing for EMT not to exceed 10' (Per 2005 NEC® Article 358.30)
- UL Listed

*****Patented Design**

SG3812 = CADDY® KX and K8
SG1234 = CADDY® K8 and K12
SG341 = CADDY® K12 and K16



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

EMT or MC/AC Size	12 thru 8 Gauge Ceiling Wire up to 1/4" Rod	Std Box Qty
14-2 (.433-.475 O.D.)	SG3812	100
4-3 (.453-.500 O.D.)	SG3812	100
12-2 (.467-.510 O.D.)	SG3812	100
12-3 (.489-.535 O.D.)	SG3812	100
1/2" EMT	SG3812 or SG1234	100
3/4" EMT	SG1234 or SG341	100
1" EMT	SG341	100

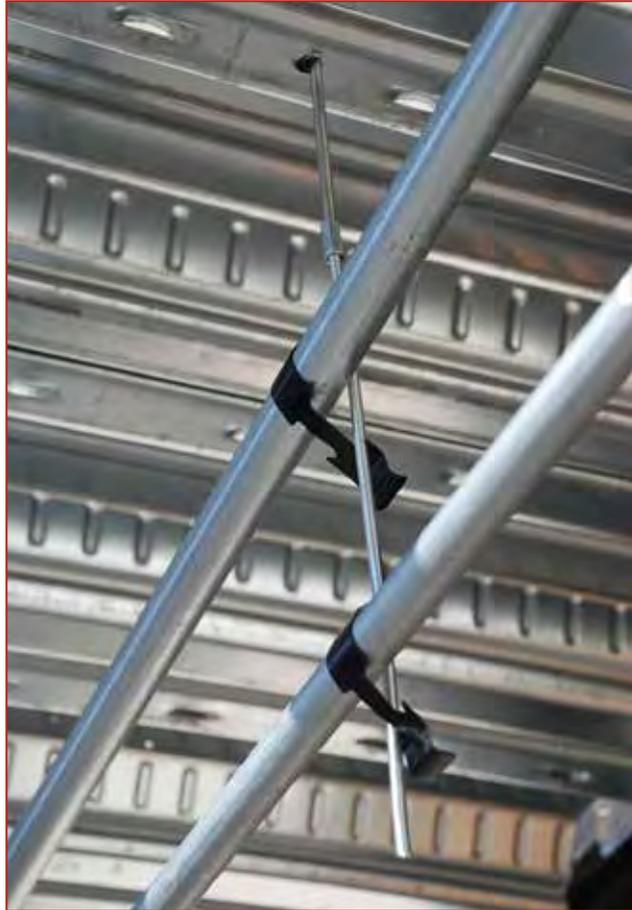
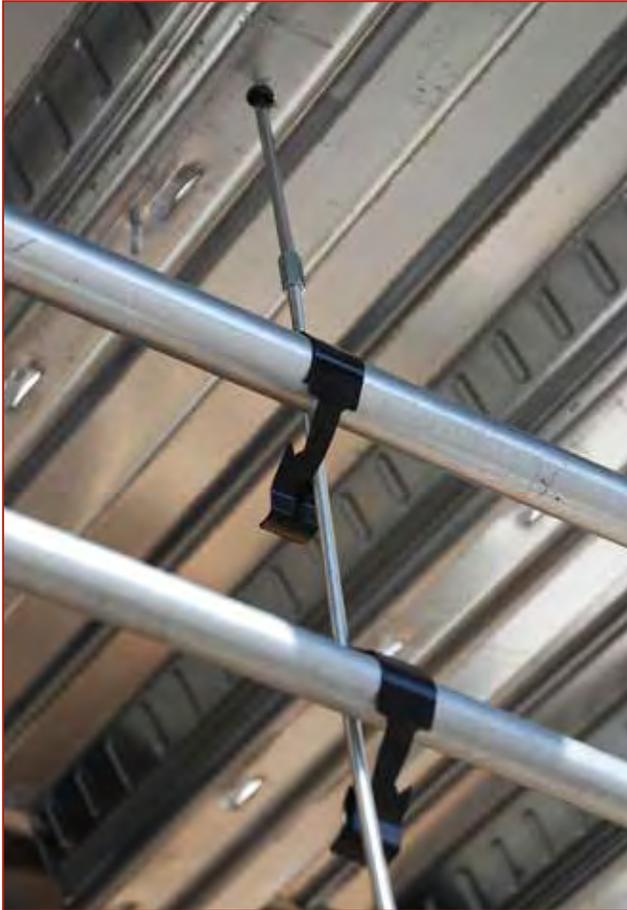
***For MC/AC weights and O.D. refer to page 7 of the Technical Section**

	A
*01	SG3812
*02	SG1234
*03	SG341

	A	Qty
Fig 161		
Fig 161		
Fig 161		

Fig. 161

Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!

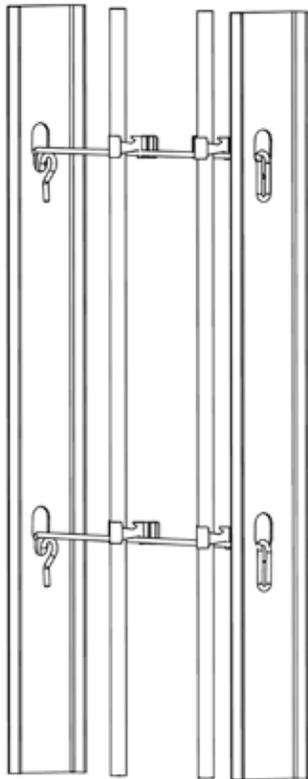


Fig. 162

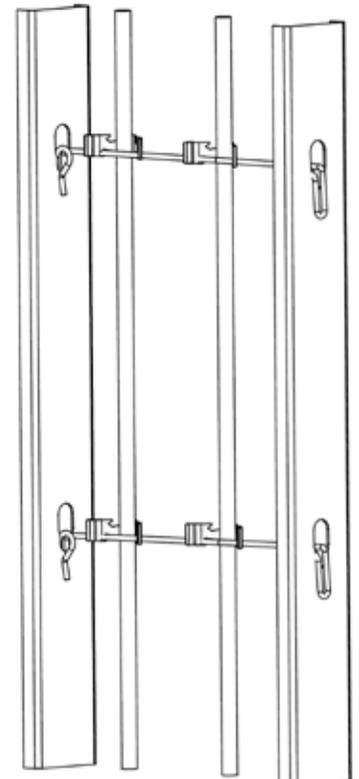
Stiffy Fixed Stud Spanner



ELECTRICAL/LOW VOLTAGE APPLICATIONS



- Fixed widths provide positive engagement on both studs.
- Zinc plated rod for corrosion resistance
- Secures EMT, MC/AC and Flexible Conduit between studs
- Quick installation
- No screws required
- Innovative fastener loop secures the support to metal studs
- Use Stiffy Grippers—Fig 161 for attachment



*****Patented Design**



Tip...Check out the Fig 161 Stiffy Grippers. 2-sided "Bat Wing" clips to support EMT and MC.

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A
*01	16" Fixed Length Spanner
*02	24" Fixed Length Spanner

	A	Qty
Fig 162		
Fig 162		
Fig 162		

Fig. 162

Fig. 163

Stiffy Adjustable Stud Spanner

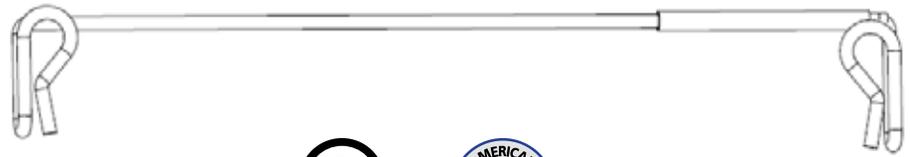
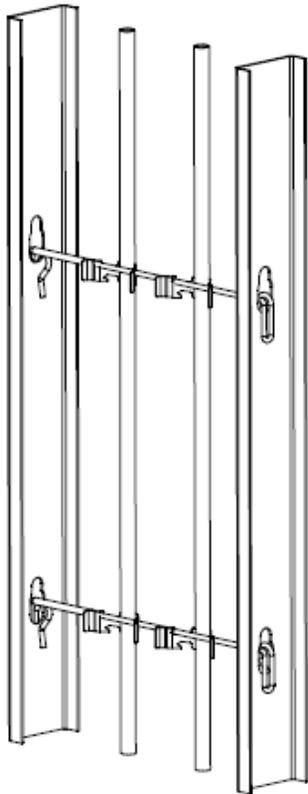


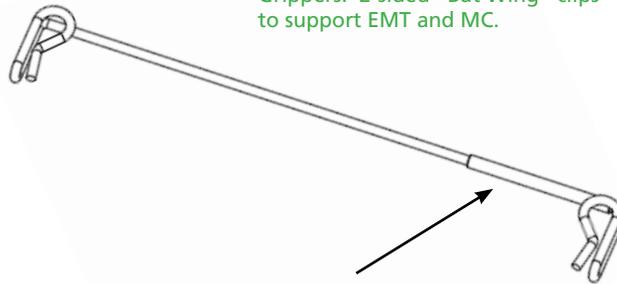
Fig. 163



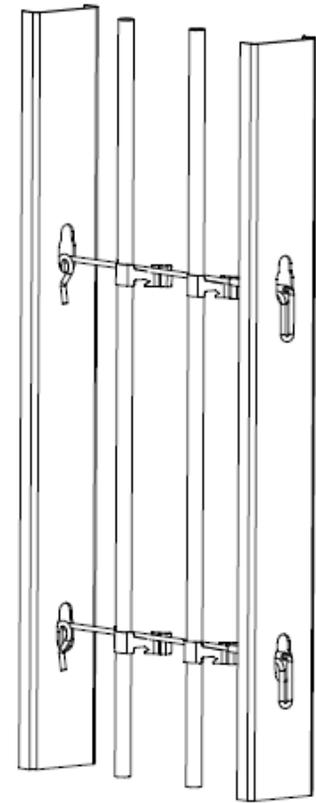
- Zinc plated rod for corrosion resistance
- Secures EMT, MC/AC and Flexible Conduit between studs
- Quick installation
- No screws required
- Innovative fastener loop secures the support to metal studs
- Use Stiffy Grippers—Fig 161 for attachment

*****Patented Design**

Tip...Check out the Fig 161 Stiffy Grippers. 2-sided "Bat Wing" clips to support EMT and MC.



Steel Sleeve provides adjustability



ELECTRICAL/LOW VOLTAGE APPLICATIONS

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

A	
*01	16" Adjustable Stud Spanner (15" - 17")
*02	24" Adjustable Stud Spanner (23"- 25")

	A	Qty
Fig 163		
Fig 163		
Fig 163		

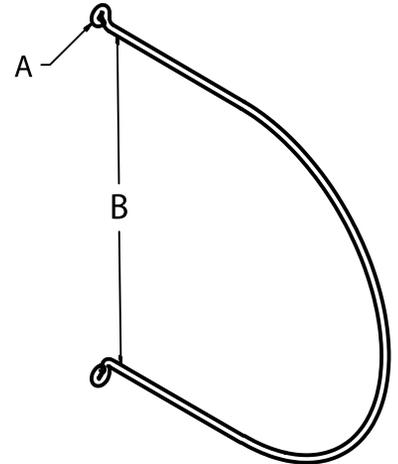


Fig. 180

Stiffy Round Duct Support



- Dramatically reduces the installation time of Round Duct.
- Designed to be install as a sidemount support as illustrated or horizontal trapeze mounted.
- A.K.A. "The Kazak"
- Zinc plated rod for corrosion resistance
- Engineered submittal documents stamped by an engineer.
- Support Capacities are based on Safety Factors in excess of the requirements of SMACNA.
- Refer to project building code to determine max weight/LF without seismic restraints.



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	A	B	Qty
Fig 180			
Fig 180			
Fig 180			

	A	Anchor Capacities ²		B
		Sidemount	Trap Mount	
*00	No Fastener			Round Duct Size
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed) ¹	110#	220#	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	215#	430#	
*04	1/4" x 1-3/4" Concrete Screw Anchor	869#	1738#	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	261#	522#	
*15	Other—Please Specify			

Additional Fastener Options are Shown on Pages 19-21

Support Capacities	
Sidemount	150#
Trapeze Mounted	300#

Footnotes:

- 1- Not for used in seismic design categories C (Ip=1.5), D, E or F where cracked concrete must be considered.
- 2- Capacities listed are for the fasteners only. Refer to the Support Capacities.

ROUND HVAC DUCT - GALVANIZED STEEL (WEIGHTS PER LINEAR FOOT)									
Diameter (in.)	22 GA.			20 GA.			18 GA.		
	Duct Weight Per Linear Ft (Lbs/Ft.)	Insulation Thickness (in.)	Insulated Duct Wt. Per Linear	Duct Weight Per Linear Ft (Lbs/Ft.)	Insulation Thickness (in.)	Insulated Duct Wt. Per Linear Ft	Duct Weight Per Linear Ft (Lbs/Ft.)	Insulation Thickness (in.)	Insulated Duct Wt. Per Linear Ft (Lbs/Ft.)
12	4.9	2	5.6						
14	5.7	2	6.5						
16	6.5	2	7.5						
18	7.3	2	8.5	8.6	2	9.8			
20	8.1	2	9.4	9.5	2	10.8	12.4	2	13.7
22	8.9	2	10.3	10.5	2	11.9	13.7	2	15.1
24	9.7	2	11.3	11.4	2	13.0	14.9	2	16.5
26	10.5	2	12.2	12.4	2	14.1	16.1	2	17.8
28	11.3	2	13.2	13.4	2	15.2	17.4	2	19.2
30	12.1	2	14.1	14.3	2	16.3	18.6	2	20.6
32	13.0	2	15.1	15.3	2	17.4	19.9	2	22.0
34	13.8	2	16.0	16.2	2	18.4	21.1	2	23.3

Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!



Just Push It!!! PUSH ROD HANGER

Patented Push-Lock Concrete Anchor Inserts



US Pat.
#9,181,691 B2

How to Order

- Step 1 - Determine the type and quantity of inserts required for the project.
- Step 2 - Complete and sign this form.
- Step 3 - Review project information and determine the prefabricated support or threaded rod requirements.
 - This information may not be available when the inserts are ordered due to the project coordination schedules.
 - Once the dimensions are known, complete the applicable order forms on pages 7-10.
- Step 4 - Issue a PO# for the material with applicable CEAS product order forms.
- Step 5 - Material is delivered to the project assembled and ready to be pushed into place.

PRPIP3812

Poured-in-Place Insert (for wood form decks)



Add "BAA" to the end of the part number for Buy American Act compliant

Qty	Part Number	Description
	CEA-PRPIP3812	Push Rod SDI 3/8" & 1/2" (150/box)

PRSDI3812

Steel Deck Insert (for pre-poured concrete)



Add "BAA" to the end of the part number for Buy American Act compliant

Qty	Part Number	Description
	CEA-PRSDI3812	Push Rod SDI 3/8" and 1/2" (50/box)
	FSB3	Flute Span Bracket for PRSDI3812



Contractor:	Project Name and Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

Intent to Purchase: The Push Rod Overhead Attachment System is only sold with Rods and/or assemblies with engagement markings manufactured by CEAS or ISAT, divisions of Tomarco Contractor Specialties. As such, this order form serves as a Letter of Intent to purchase the remaining components of the assemblies from Tomarco Contractor Specialties or its subsidiaries.

FAILURE TO PURCHASE THE NECESSARY COMPONENTS TO COMPLETE THE PUSH ROD OVERHEAD ATTACHMENT SYSTEM VOIDS ALL WARRANTIES AND CEAS TECHNICAL DATA AND COULD CREATE AN UNSAFE ATTACHMENT.

The signee acknowledges the requirement to purchase Push Rod components with Engagement Markings for the project referenced above. MATERIAL WILL NOT BE SHIPPED WITHOUT A SIGNED COPY OF THIS DOCUMENT.

Printed Name

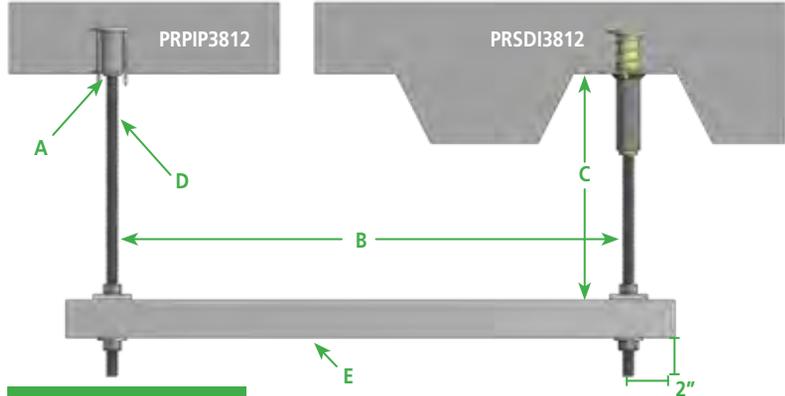
Authorized Signature

Fig. 190

Pre-Fabricated Trapeze



Shown with PRSDI3812 Engagement Mark (A = 02)



*Rod lengths are measured from the bottom of concrete

- Grab the trapeze and Just Push It!!!
- Supports Pipe, Conduit and HVAC Duct
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Refer to project building code to determine when seismic bracing is required
- Trapeze assembly capacities are all reviewed and confirmed by a Structural Engineer
- The Push Rod insert is Seismically Qualified for use in cracked concrete
- Trapeze assemblies can be manufactured in any configuration. Just send us the drawings.

Contractor:	Project Name and Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C	D	E	Qty
Fig 190						
Fig 190						
Fig 190						

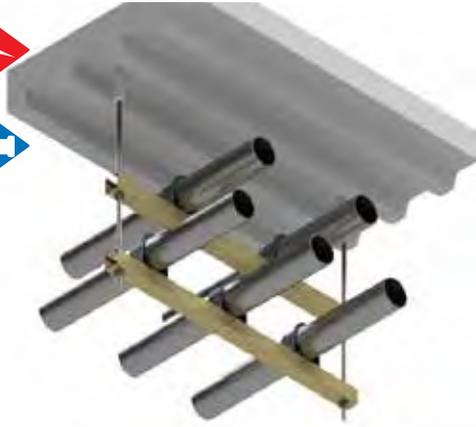
A		B ¹	C ²	D		E ³		
*00	No Engagement Mark	Width (Inches)	Drop Length (Inches)	*01	3/8" ATR	Strut Profile		
*01	PRPIP3812 Engagement Mark			*02	1/2" ATR	A1	13/16" x 1-5/8" 14g Strut	
*02	PRSDI3812 Engagement Mark			*25	Other			
*25	Other Anchor-Please Specify			B1	1-5/8" x 1-5/8" 12g Strut			
Footnotes: 1) Solid strut without holes is used for trapezes. 2) "C" Dimension is measured from the bottom of structure to the top of the trapeze. The engagement length into the Push Rod does not need to be accounted for. 3) Trapezes ordered with 3/8" and 1/2" ATR are built with 9/16" holes. Trapezes with 5/8" ATR are drilled out to accept rod.						B2	B2B 1-5/8" x 1-5/8" 12g Strut	
						C1	3-1/4" x 1-5/8" 12g Strut	
						C2	B2B 3-1/4" x 1-5/8" 12g Strut	



Fig. 190 ELECTRICAL/LOW VOLTAGE APPLICATIONS MECHANICAL/PLUMBING APPLICATIONS

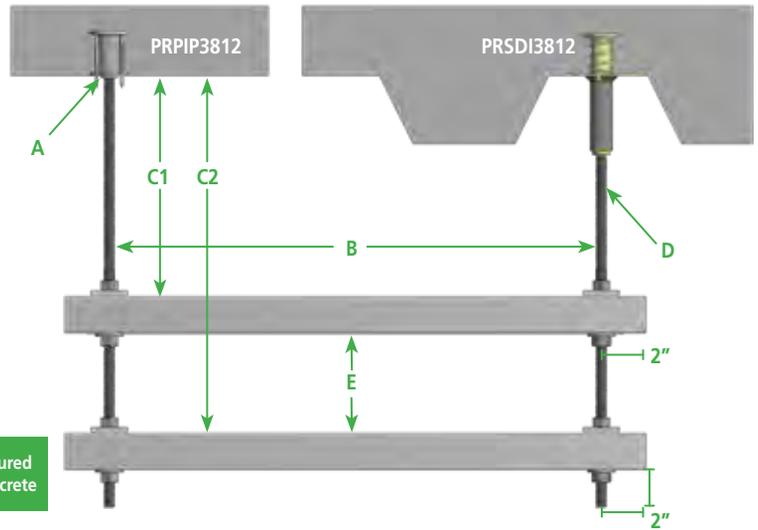
Fig. 191

2-Tiered Pre-Fabricated Trapeze



Shown with PRSDI3812 Engagement Mark (A = 02)

*Rod lengths are measured from the bottom of concrete



- Grab the trapeze and Just Push It!!!
- Supports Pipe, Conduit and HVAC Duct
- Prefabricated trapezes save time and money
- No time wasted in the field with unnecessary assembly
- Refer to project building code to determine when seismic bracing is required
- Trapeze assembly capacities are all reviewed and confirmed by a Structural Engineer
- The Push Rod insert is Seismically Qualified for use in cracked concrete
- Trapeze assemblies can be manufactured in any configuration. Just send us the drawings.

Contractor:	Project Name and Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C1	C2	D	E	Qty
Fig 191							
Fig 191							
Fig 191							

A		B ¹	C1 & C2 ²	D		E ³		
*00	No Engagement Mark	Width (Inches)	Drop Length (Inches)	*01	3/8" ATR	Strut Profile		
*01	PRPIP3812 Engagement Mark			*02	1/2" ATR	A1	13/16" x 1-5/8" 14g Strut	
*02	PRSDI3812 Engagement Mark			*25	Other			
*25	Other Anchor-Please Specify					A2	B2B 13/16" x 1-5/8" 14g Strut	
Footnotes: 1) Solid strut without holes is used for trapezes. 2) "C" Dimension is measured from the bottom of structure to the top of the trapeze. The engagement length into the Push Rod does not need to be accounted for. 3) Trapezes ordered with 3/8" and 1/2" ATR are built with 9/16" holes. Trapezes with 5/8" ATR are drilled out to accept rod.				B1	1-5/8" x 1-5/8" 12g Strut			
				B2	B2B 1-5/8" x 1-5/8" 12g Strut			
				C1	3-1/4" x 1-5/8" 12g Strut			
				C2	B2B 3-1/4" x 1-5/8" 12g Strut			

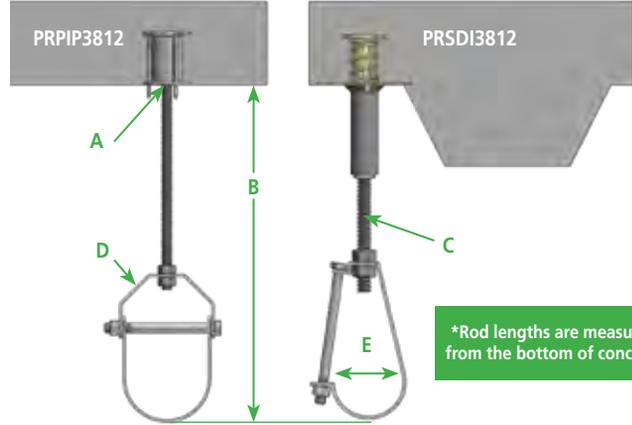


Fig. 192

Pre-Fabricated Single Clevis or J Hanger



Shown with PRPIP3812 Engagement Mark (A = 01) and Clevis Hanger (D = 03)



- Grab the hanger and Just Push It!!!
- Supports Pipe and Conduit
- Prefabricated hangers save time and money
- No time wasted in the field with unnecessary assembly
- Refer to project building code to determine when seismic bracing is required
- Assembly capacities are all reviewed and confirmed by a Structural Engineer
- The Push Rod insert is Seismically Qualified for use in cracked concrete

Contractor:		Project Name and Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	E	Qty
Fig 192						
Fig 192						
Fig 192						

A		B	C ¹		D ²		E		
*00	No Engagement Mark	Width (Inches)	*01	3/8" ATR	*01	Conduit Hanger ²	Hanger Size		
*01	PRPIP3812 Engagement Mark		*02	1/2" ATR			*01	1/2"	
*02	PRSDI3812 Engagement Mark		*03	5/8" ATR			*02	3/4"	
*25	Other Anchor-Please Specify		*04	3/4" ATR			*03	1"	
			*25	Other			*04	1-1/4"	
Footnotes: 1 - Reducing rod couplers are used where rod size does not equal anchor diameter. 2 - Conduit Hangers 1/2" thru 1-1/2" EMT are sized for 1/4" ATR. 2" and 2-1/2" are sized for 3/8" ATR. 3 - 1/2" thru 2-1/2" Loop Hangers come with 3/8" top connectons. 4 - All J-Hangers are zinc coated 5 - When ordering felt lined hangers for pipe sizes 3-1/2" or under, order the next largest size to allow for the thickness of the felt lining. Per the Uniform Plumbing Code and California Plumbing Code - 1/2" thru 4" diameter pipe requires 3/8" all thread rod - 5" thru 8" diameter pipe requires 1/2" all thread rod - 10" thru 12" diameter pipe requires 5/8" all thread rod Refer to pages 25 and 26 for pipe weights					*02	Loop Hanger ³	*05	1-1/2"	
								*06	2"
								*07	2-1/2"
								*08	3"
								*09	3-1/2"
								*10	4"
								*11	5"
								*12	6"
								*13	8"
								*25	Other - Please Sepcify
								For felted hangers add an "F" to the order option. ³	
								For zinc coated clevis hangers add a "Z" to the order option.	
								Example: 02 = 3/4" Hanger 02F = 3/4" Felted Hanger 02Z = 3/4" Zinc Coated Hanger	

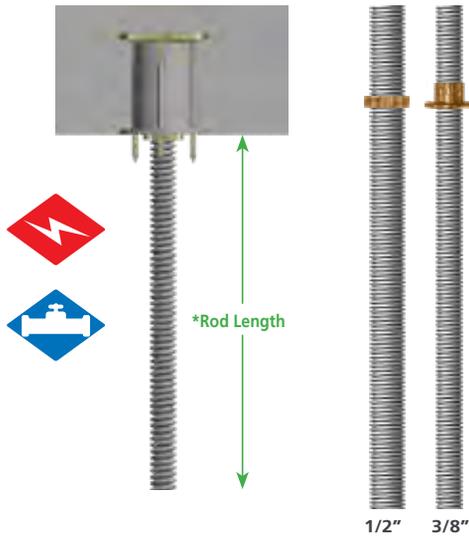
Fig. 192 ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

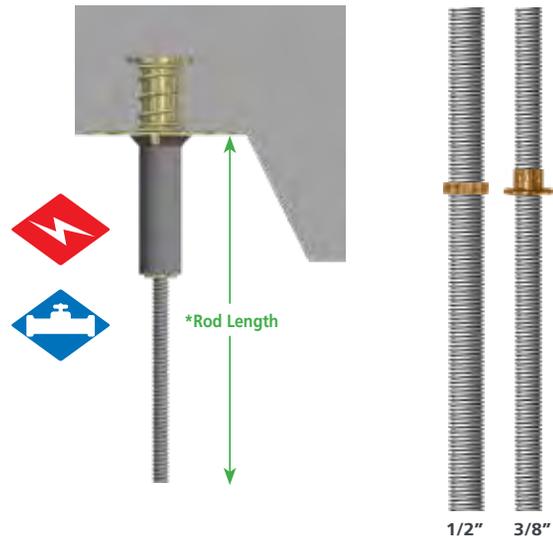
Just Push It!!! PUSH ROD HANGER

Patented Push-Lock Concrete Anchor Inserts

PRPIP3812



PRSDI3812



3/8" Threaded Rod with Engagement Markings for PRPIP3812		
QTY	Part Number	Description
	CEA-PRPIPR3824	PRPIP Threaded Rod - 3/8" x 24"
	CEA-PRPIPR3836	PRPIP Threaded Rod - 3/8" x 36"
	CEA-PRPIPR3848	PRPIP Threaded Rod - 3/8" x 48"
	CEA-PRPIPR3860	PRPIP Threaded Rod - 3/8" x 60"
	CEA-PRPIPR3872	PRPIP Threaded Rod - 3/8" x 72"
	CEA-PRPIPR3884	PRPIP Threaded Rod - 3/8" x 84"
	CEA-PRPIPR3896	PRPIP Threaded Rod - 3/8" x 96"
	CEA-PRPIPR38108	PRPIP Threaded Rod - 3/8" x 108"
	CEA-PRPIPR38118	PRPIP Threaded Rod - 3/8" x 118"
1/2" Threaded Rod with Engagement Markings for PRPIP3812		
QTY	Part Number	Description
	CEA-PRPIPR1224	PRPIP Threaded Rod - 1/2" x 24"
	CEA-PRPIPR1236	PRPIP Threaded Rod - 1/2" x 36"
	CEA-PRPIPR1248	PRPIP Threaded Rod - 1/2" x 48"
	CEA-PRPIPR1260	PRPIP Threaded Rod - 1/2" x 60"
	CEA-PRPIPR1272	PRPIP Threaded Rod - 1/2" x 72"
	CEA-PRPIPR1284	PRPIP Threaded Rod - 1/2" x 84"
	CEA-PRPIPR1296	PRPIP Threaded Rod - 1/2" x 96"
	CEA-PRPIPR12108	PRPIP Threaded Rod - 1/2" x 108"
	CEA-PRPIPR12118	PRPIP Threaded Rod - 1/2" x 118"
Custom Threaded Rod Lengths		
QTY	Part Number	
	Rod Diameter	Length (Inches)
	CEA-PRPIPR	
	CEA-PRPIPR	
	CEA-PRPIPR	

3/8" Threaded Rod with Engagement Markings for PRSDI3812		
QTY	Part Number	Description
	CEA-PRSDIR3824	PRSDI Threaded Rod - 3/8" x 24"
	CEA-PRSDIR3836	PRSDI Threaded Rod - 3/8" x 36"
	CEA-PRSDIR3848	PRSDI Threaded Rod - 3/8" x 48"
	CEA-PRSDIR3860	PRSDI Threaded Rod - 3/8" x 60"
	CEA-PRSDIR3872	PRSDI Threaded Rod - 3/8" x 72"
	CEA-PRSDIR3884	PRSDI Threaded Rod - 3/8" x 84"
	CEA-PRSDIR3896	PRSDI Threaded Rod - 3/8" x 96"
	CEA-PRSDIR38108	PRSDI Threaded Rod - 3/8" x 108"
	CEA-PRSDIR38118	PRSDI Threaded Rod - 3/8" x 118"
1/2" Threaded Rod with Engagement Markings for PRSDI3812		
QTY	Part Number	Description
	CEA-PRSDIR1224	PRSDI Threaded Rod - 1/2" x 24"
	CEA-PRSDIR1236	PRSDI Threaded Rod - 1/2" x 36"
	CEA-PRSDIR1248	PRSDI Threaded Rod - 1/2" x 48"
	CEA-PRSDIR1260	PRSDI Threaded Rod - 1/2" x 60"
	CEA-PRSDIR1272	PRSDI Threaded Rod - 1/2" x 72"
	CEA-PRSDIR1284	PRSDI Threaded Rod - 1/2" x 84"
	CEA-PRSDIR1296	PRSDI Threaded Rod - 1/2" x 96"
	CEA-PRSDIR12108	PRSDI Threaded Rod - 1/2" x 108"
	CEA-PRSDIR12118	PRSDI Threaded Rod - 1/2" x 118"
Custom Threaded Rod Lengths		
QTY	Part Number	
	Rod Diameter	Length (Inches)
	CEA-PRSDIR	
	CEA-PRSDIR	
	CEA-PRSDIR	



Contractor:	Project Name and Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

Push Rod

Just Push It!!! PUSH ROD HANGER

INSTALLATION TOOLS and ACCESSORIES

Installation tools and accessories for Push Rods and Blue Banger Hangers.

- Save labor and Reduces Back Strain



	PART#	DESCRIPTION
A	CEA-POLMKEY36	3'-6" Telescoping Install Tool w/Keyless Chuck
B	CEA-SDDHS1	30" Deck Driller with 13/16" Hole Saw (1)
	CEA-SDDHS2	30" Deck Driller with 1-3/16" Hole Saw (2)
C	CEA-SDDSB4	30" Deck Driller with 3/16" - 7/8" Step Bit (1)
	CEA-SDDSB5	30" Deck Driller with 1/4" - 1-3/8" Step Bit (2)
D	CEA-PIPINSTALL1	Bazooka PIP Install Tool (3)
	CEA-PIPINSTALL2	Bazooka PIP Install Tool (4)
E	CEA-BBDP1	13/16" Deck Punch with Tip (1)
	CEA-BBDP2	1-3/16" Deck Punch with Tip (2)
F	CEA-SB4	3/16" - 7/8" Step Bit (1)
	CEA-SB5	1/4" - 1-3/8" Step Bit (2)
G	CEA-HS1	13/16" Hole Saw Only (1)
	CEA-HS2	1-3/16" Hole Saw Only (2)
	CEA-HSA	Arbor for Hole Saw Only
H	CEA-HSC1	13/16" Carbide Tip Hole Saw Only (1)
	CEA-HSC2	1-3/16" Carbide Tip Hole Saw Only (2)
	CEA-HSCA	Arbor for Carbide Tip Hole Saw Only

1 For use with SDI143812 and RD1143812
 2 For use with SDI381258, SDI5834, and Push Rod PRSDI3812
 3 For use with PIP143812 only
 4 For use with PIP143812, PIP381258, PIP5834 and Push Rod PRPIP3812



ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

ID Tabs for Push Rods and Blue Banger Hangers - Easily ID different trades or systems

- Saves time
- Quick installation
- Multiple colors available
- Eliminates confusion between multiple systems and trades
- Labels can be adhered or notes with a marker
- Provides easy identification from the ground



PART#	DESCRIPTION
HEA-PT 38125A	FLUORESCENT YELLOW
HEA-PT 38125B	FLUORESCENT PINK
HEA-PT 38125C	FLUORESCENT BLUE
HEA-PT 38125D	FLUORESCENT PURPLE
HEA-PT 38125E	FLUORESCENT RED
HEA-PT 38125F	FLUORESCENT ORANGE
HEA-PT 38125G	WHITE
HEA-PT 38125H	GREEN (PMS 354)
HEA-PT 38125I	BROWN (PMS 469)
HEA-PT 38125J	NAVY BLUE (PMS 274)
HEA-PT 38125K	GREY (COOL GREY)
HEA-PT 38125L	FLUORESCENT GREEN

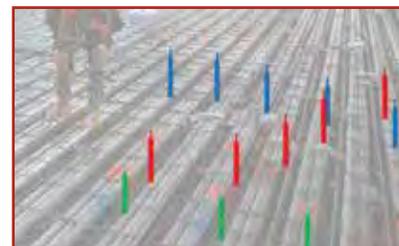
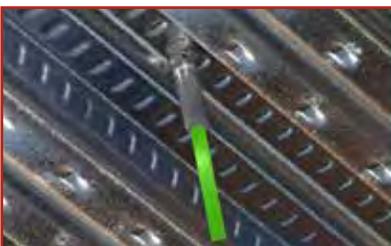


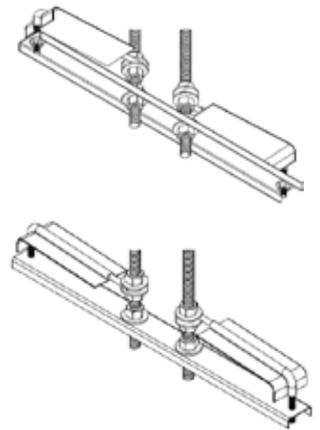
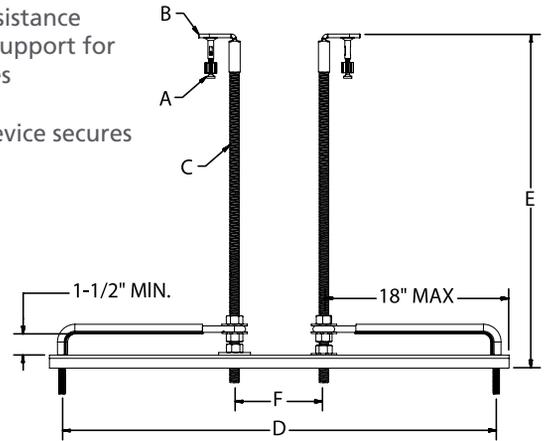
Fig. 195

Stiffy Gull Wing Line Set Support



- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Line Sets and Refrigeration Lines
- Max load: 70# per support
- 2" wide plenum rated plastic device secures the insulated lines in place
- Assembly can be fabricated to accommodate field conditions

Tip...Take a look at the Fig 108 through Fig 110 to stack refrigeration piping on a support.



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

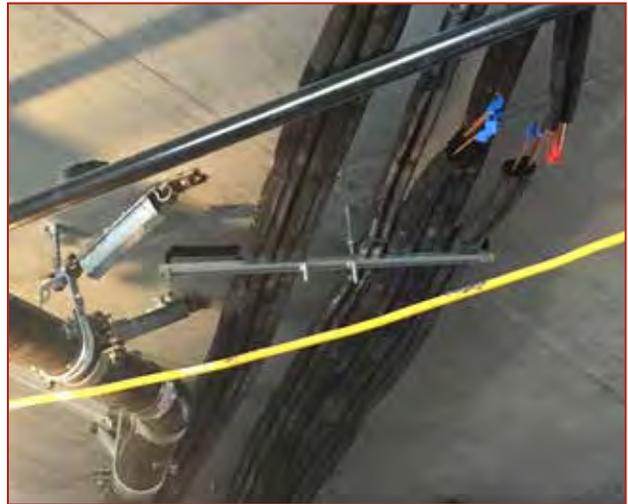
	A	B	C	D	E	F	Qty
Fig 195							
Fig 195							
Fig 195							

A		B		C	D	E	F ³	
*00	No Fastener	*01	*011	*01	3/8" ATR ¹	Trapese Width (Inches)	Drop Length (Inches)	Rod Spacing (Inches)
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²			*02	1/2" ATR			
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²			Footnotes: 1 - In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. Hard Concrete Footprint B=011, is available in 1/4" and 3/8". 2 - When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 Hard Concrete Footprint will be used by default. 3 - Be sure to consider the spacing requirements of the fasteners when determining the rod spacing.				
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)							
*03.1	3/8" x 3" Wedge Anchor (2" Embed)							
*04	1/4" x 1-3/4" Concrete Screw Anchor							
*04.1	3/8" x 1-3/4" Concrete Screw Anchor							
*06	#10 Hex Washer Head Self Driller							
*07	#10 Hex Washer Head Sharp Point							
*08	Timberpin (Wood Applications)							
*09	Wide Mouth Beam Clamp							
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)							
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²							
*14	Stiffy Wood Pull Down Attachment							
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange							
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange							
*25	Other—Please Specify							
		*02	*02					
		*03	*10 Other Please Specify					
		Threaded Rod (1/2" of Threads)						

Additional Fastener Options are Shown on Pages 19-21



Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!



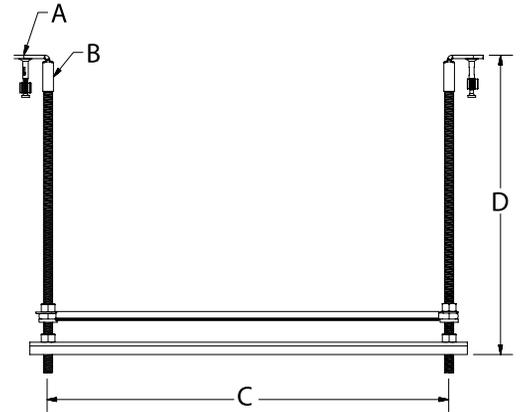
Fig. 196

Stiffy Line Set Support



- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Line Sets and Refrigeration Lines
- Max load: 100# per support
- 2" wide plenum rated plastic device secures the insulated lines in place
- Assembly can be fabricated to accommodate field conditions

Tip...Take a look at the Fig 108 through Fig 110 to stack refrigeration piping on a support.



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

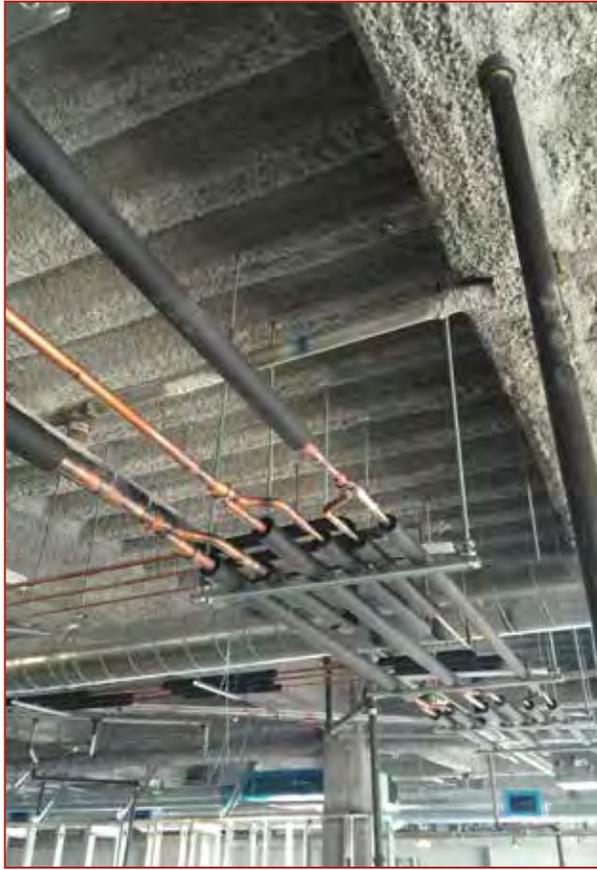


	A	B	C	D	E	Qty
Fig 196						
Fig 196						
Fig 196						

A		B		C	D	E	
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01	1/4" ATR
*01	1-1/4" Power Actuated Pin—1" Embedment (B = 011) ²					*02	3/8" ATR ¹
*02	1-1/2" Power Actuated Pin—1-1/4" Embed (B = 011) ²					*03	1/2" ATR
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	90° Footprint	Hard Concrete Footprint	Footnotes: 1 - In order to transition to 3/8" ATR a reducing coupler is used for B=01 and 02 Footprints. Hard Concrete Footprint B=011, is available in 1/4" and 3/8". 2 - When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 Hard Concrete Footprint will be used by default.			
*03.1	3/8" x 3" Wedge Anchor (2" Embed)						
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02				
*04.1	3/8" x 1-3/4" Concrete Screw Anchor						
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint				
*07	#10 Hex Washer Head Sharp Point						
*08	Timberpin (Wood Applications)						
*09	Wide Mouth Beam Clamp	*03	*04				
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)						
*13	1-1/4" PowderPuff Pin—1" Embedment (B = 011) ²	Threaded Rod (1/2" of Threads)	Straight Rod				
*14	Stiffy Wood Pull Down Attachment	*10 Other Please Specify					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange						
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange						
*25	Other—Please Specify						

Additional Fastener Options are Shown on Pages 19-21

Application Examples



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!

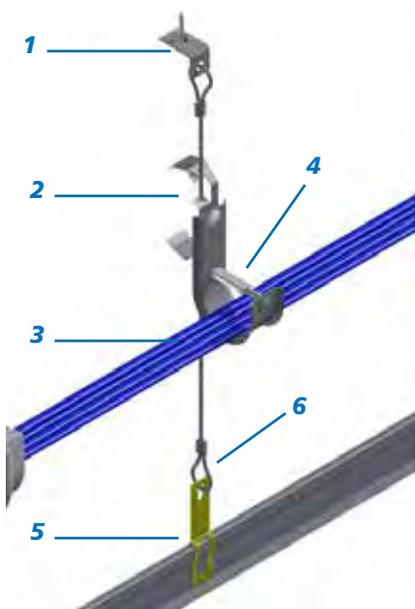


JOBSITE PROBLEM MEETS STIFFY SOLUTION



Job Site Problem

Typical T-Bar Installation



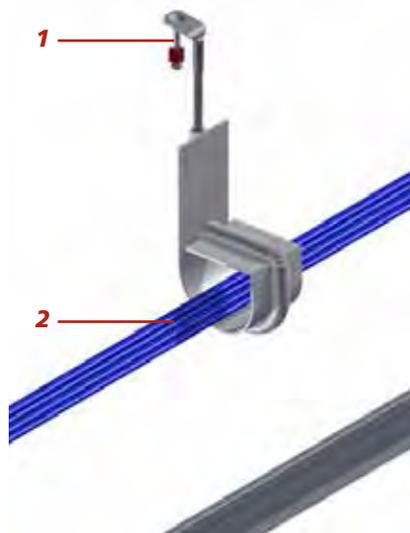
Job Site Problem

- Step 1 - Install Ceiling Wire
- Step 2 - Climb up a ladder and attach the data support
- Step 3 - Climb up a ladder and install the cable
- Step 4 - Install Restraint Clip
- Step 5 - **Return to the location** (after the T-bar Grid is installed), climb a ladder and attach the banana clip. (Per NEC 300.11)
- Step 6 - Tie the ceiling wire to the clip

Installer must revisit every support

Stiffy Solution

Fig 200 Comfort Cradle



Stiffy Solution

- Step 1 - Install the Stiffy from the ground

Pre-assembled Saves labor

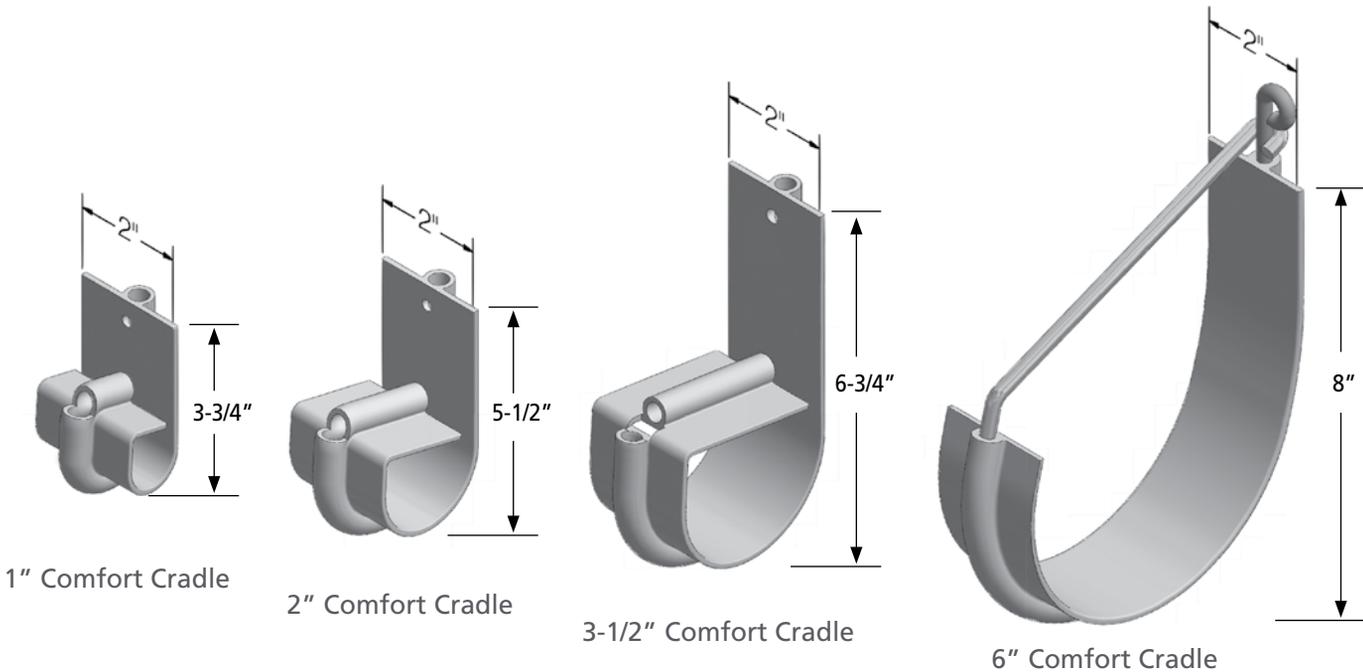
- Step 2 - PULL the cable through the Stiffy

No need to revisit - The rigid connection to the structure satisfies the requirements of NEC 300.11.

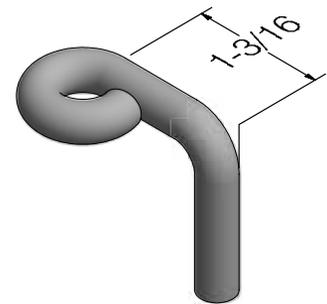
It doesn't get any easier than this...

	Job Site Problem	Stiffy Solution
Engineered as an assembly	No	Yes
NEC 300.11 compliant	Yes. Only when a Banana Clip is used to secure the wire to the T-bar Grid.	Yes
Pre-staked with several Engineered Attachment options	No	Yes
UL listed engineered attachment options for concrete, wood, metal and steel	No	Yes
Quick to install	No. Very labor intensive to install the batwing clips. Also, per NEC 300.11 the ceiling wire must be secured at the top as well as bottom which requires a second trip to the same location.	Yes

Low Voltage Product Data & Fill Capacities - Technical Data



PRODUCT	AREA (sq. in.)	CAT 5E O.D. = .214 Weight = 28 Lbs/1000ft		CAT 6A O.D. = .246 Weight = 31.1 lbs/1000ft	
		100% Fill	70% Fill	100% Fill	70% Fill
Comfort Cradle Fill Capacities¹					
		100% Fill	70% Fill	100% Fill	70% Fill
1" Comfort Cradle	0.785	21	15	16	11
2" Comfort Cradle	3.142	87	61	66	46
3-1/2" Comfort Cradle	9.621	267	187	202	141
6" Comfort Cradle	28.274	786	550	595	417
Trapeze Fill Capacities¹					
		100% Fill	50% Fill	100% Fill	50% Fill
6" Wide x 3" Deep	18	500	250	378	189
8" Wide x 3" Deep	24	667	333	504	252
10" Wide x 3" Deep	30	834	417	631	315
12" Wide x 3" Deep	36	1000	500	757	378
14" Wide x 3" Deep	42	1167	583	883	441
16" Wide x 3" Deep	48	1334	667	1009	504
18" Wide x 3" Deep	54	1500	750	1136	568
Cable Weight Totals					
Quantity of cables for 5 Lbs/ft		178		160	
Quantity of cables for 10 Lbs/ft		357		321	



Stiffy 90° Footprint



Maximum Support Spacing Illustration for Data Cables

Footnotes:

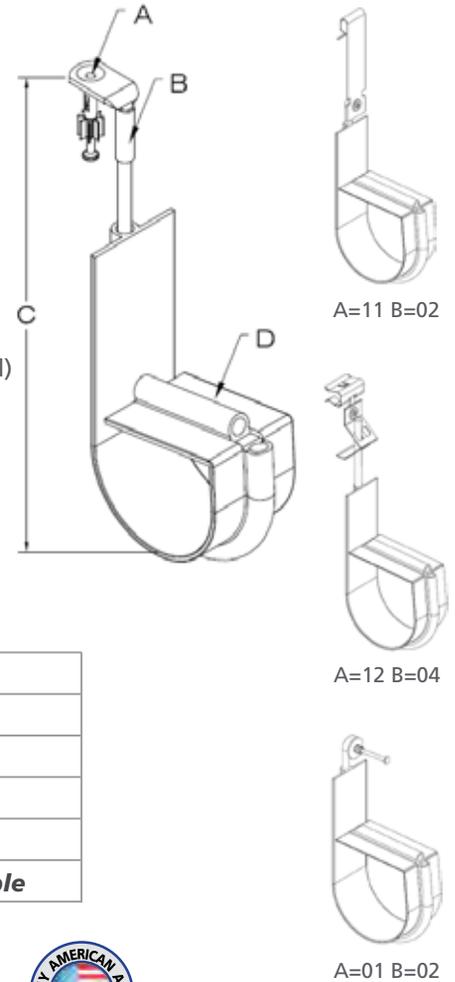
1-Refer to product pages for individual support capacities.

Non-continuous supports may not exceed spacing of 5' per TIA 569-C.9.7





- Nonconductive Plenum Rated 2" wide polypropylene Comfort Cradle with Locking Restraint Latch
- Max support spacing: 4-5' O.C.
- The rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- Max load for support rod: 70#
- Max load for cradle: 50#
- UL listed hardware
- UL listed for use in plenums
- Fill capacity for low voltage applications:
 - 1" cradle: Up to 15ea CAT5E or 11ea CAT6A. (70% Fill)
 - 2" cradle: Up to 61ea CAT5E or 46ea CAT6A. (70% Fill)
 - 3-1/2" cradle: Up to 187ea CAT5E or 141ea CAT6A. (70% Fill)
 - 6" cradle: Up to 550ea CAT5E or 417ea CAT6A. (70% Fill)
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	Qty
Fig 200					
Fig 200					
Fig 200					



A		B		C	D
*00	No Fastener	*01	*011	Drop Length (Inches)	*01 1" Cradle
*01	1-1/4" Power Actuated Pin—1" Embedment			Dimensions: 1" Cradle 2" Cradle 6" Cradle 3-1/2" Cradle	*02 2" Cradle
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint		*03 3-1/2" Cradle
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)				*04 6" Cradle
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02		R Red
*04.1	3/8" x 1-3/4" Concrete Screw Anchor				B Blue
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint		G Green
*07	#10 Hex Washer Head Sharp Point				Y Yellow
*08	Timberpin (Wood Applications)				BK Black
*09	Wide Mouth Beam Clamp	*03	*04		
*12	Adjustable Hammer-on BC Rotates 360° (Specify Flange Thickness)				
*13	1-1/4" PowderPuff Pin—1" Embedment	Threaded End (1/2" of Threads)	Straight Rod		
*14	Stiffy Wood Pull Down Attachment				
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other—Please Specify			
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange				
*25	Other—Please Specify				
					*Standard cradles come in white. Specify custom colors. Example: 02 = White 2" Cradle 02R = Red 2" Cradle

Additional Fastener Options are Shown on Pages 19-21

Application Examples

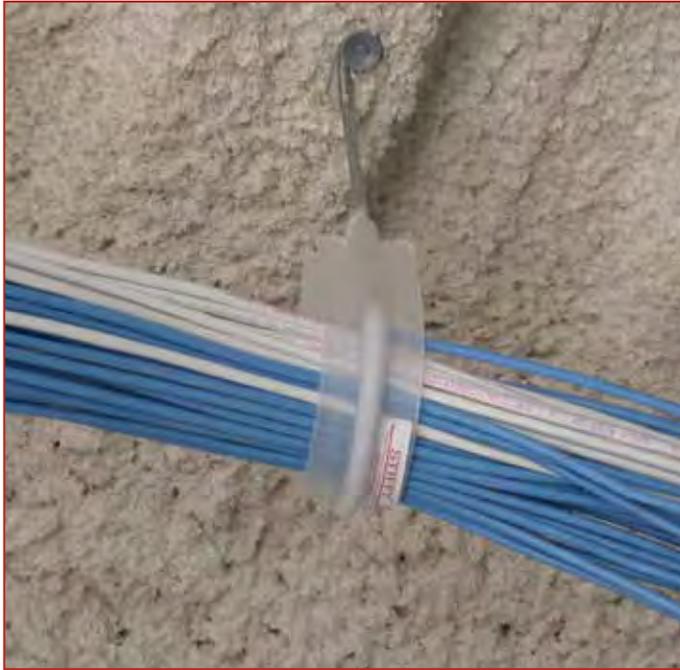


Fig. 200

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



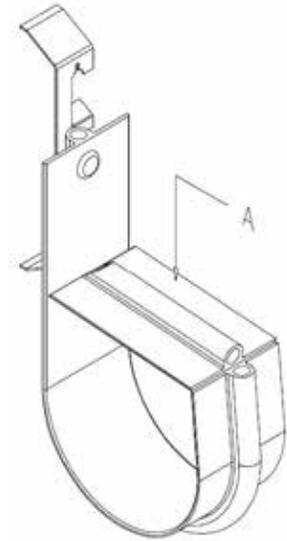
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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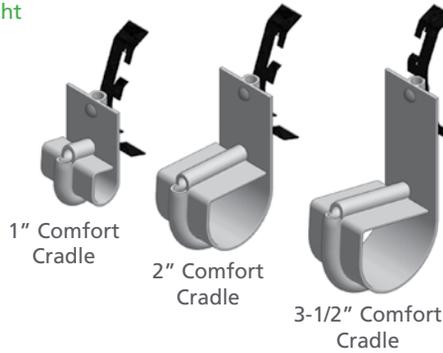




- Nonconductive Plenum Rated 2" wide polypropylene Comfort Cradle with Locking Restraint Latch
- Max support spacing: 4-5' O.C.
- When used with Stiffy Rod Supports the rigid connection eliminates the need to attach to ceiling grid per NEC Article 300-11
- UL listed hardware
- UL listed for use in plenums
- Fill capacity for low voltage applications:
 - 1" cradle: Up to 15ea CAT5E or 11ea CAT6A. (70% Fill)
 - 2" cradle: Up to 61ea CAT5E or 46ea CAT6A. (70% Fill)
 - 3-1/2" cradle: Up to 187ea CAT5E or 141ea CAT6A. (70% Fill)
 - 6" cradle: Up to 550ea CAT5E or 417ea CAT6A. (70% Fill)
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data
- Available for 3/8" dia all thread rod



Tip...Check out the Fig 100 Stiffy Straight Rod to support your Comfort Cradles.



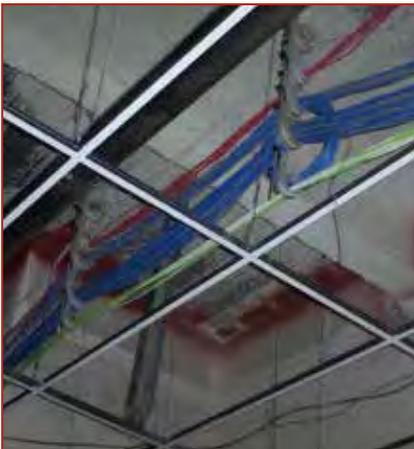
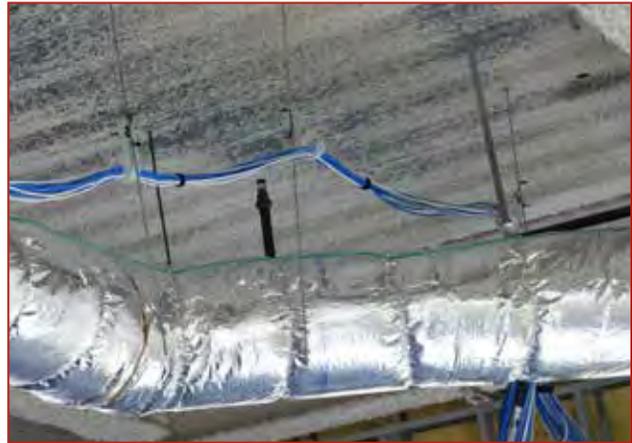
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

		A
*01	1" Cradle	100/Box
*02	2" Cradle	50/Box
*03	3-1/2" Cradle	30/Box
*04	6" Cradle	25/Box
R	Red	*Standard cradles come in white. Specify custom colors. Example: 02 = White 2" Cradle 02R = Red 2" Cradle
B	Blue	
G	Green	
Y	Yellow	
BK	Black	



	A	Qty
Fig 201		
Fig 201		
Fig 201		

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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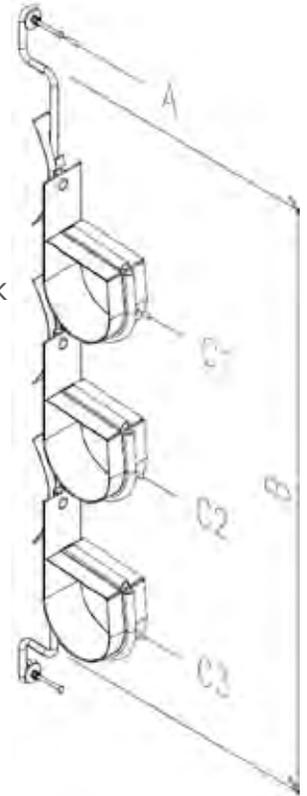
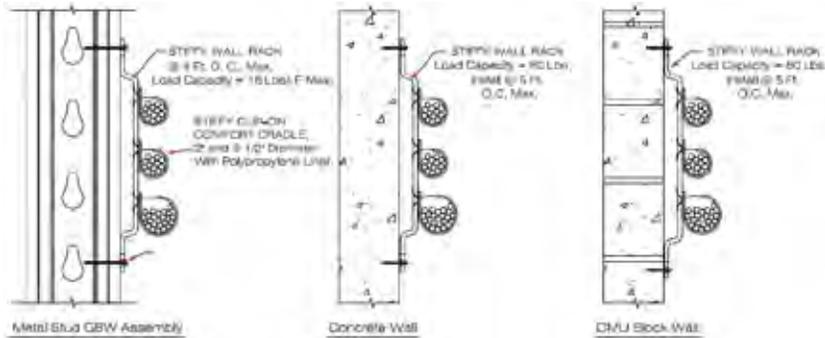
Fig. 202

Stiffy Wall Rack Support



Tip...Systems can be separated by color.

- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Saves space for coordination
- Install Fig 100 or Fig 200 where supports can not attach to wall
- Max load: 80 Lbs
- UL listed hardware
- UL listed for use in plenums
- 1" Offset from wall standard
- More than 5ea Comfort Cradles allowed as long as the load limitations listed above are not exceeded.
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data.
- Refer to page 28 for project building code and seismic requirements



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



Tip...Value Engineer cable tray out of your project by using Stiffy wall mounted racks.

	A	B	C1	C2	C3	C4	Qty
Fig 202							
Fig 202							
Fig 202							

A		B		C1,2,3, & 4	
*00	No Fastener	Drop Length (Inches)		*00	No Cradle
*01	1-1/4" Power Actuated Pin—1" Embedment	 1" Cradle	Minimum Dimensions: 2" Cradle	*01	1" Cradle
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.			*02	2" Cradle
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 3" Cradle	 6" Cradle	*03	3-1/2" Cradle
*03.1	3/8" x 3" Wedge Anchor (2" Embed)			*04	6" Cradle
*04	1/4" x 1-3/4" Concrete Screw Anchor	 3-1/2" Cradle		R	Red
*04.1	3/8" x 1-3/4" Concrete Screw Anchor			B	Blue
*06.1	#14 x 2-1/2" 1/4" Dia. Hex Washer Head Self Driller			G	Green
*08	Timberpin (Wood Applications)			Y	Yellow
*13	1-1/4" PowderPuff Pin—1" Embedment			BK	Black
*25	Other—Please Specify				

*Standard cradles come in white. Specify custom colors.

Example:
02 = White 2" Cradle
02R = Red 2" Cradle

Additional Fastener Options are Shown on Pages 19-21

Application Examples

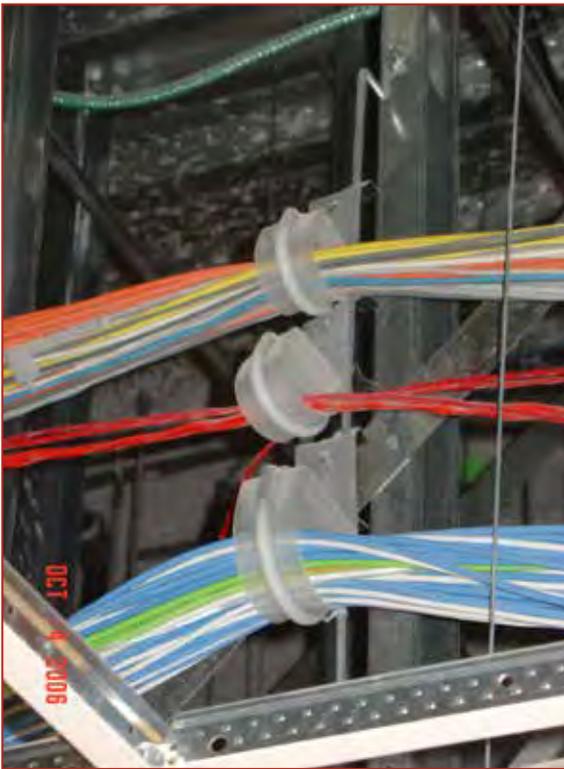


Fig. 202

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



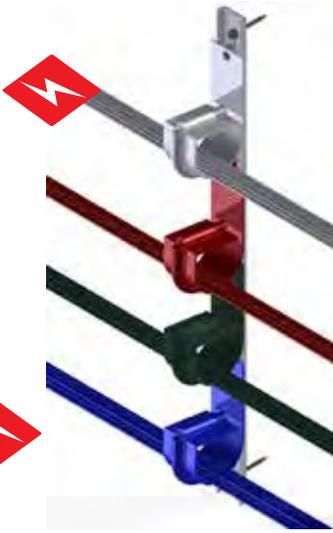
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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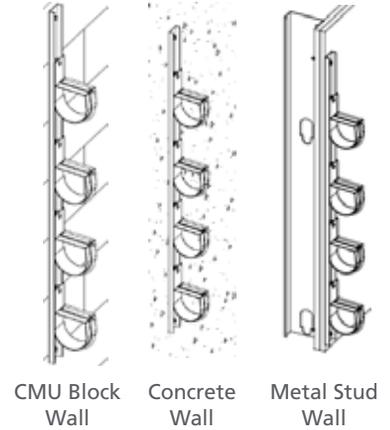
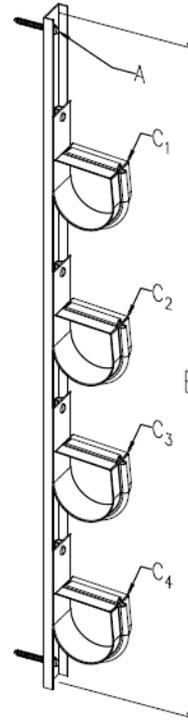
Fig. 203

Stiffy Fixed Wall Rack Support



Tip...Systems can be separated by color.

- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Saves space for coordination
- Install Fig 100 or Fig 200 where supports can not attach to wall
- Max load: 80 Lbs
- UL listed hardware
- UL listed for use in plenums
- 1" Offset from wall standard
- More than 5ea Comfort Cradles allowed as long as the load limitations listed above are not exceeded.
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data.
- Refer to page 28 for project building code and seismic requirements



Tip...Value Engineer cable tray out of your project by using Stiffy wall mounted racks.

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C1	C2	C3	C4	Qty
Fig 203							
Fig 203							
Fig 203							

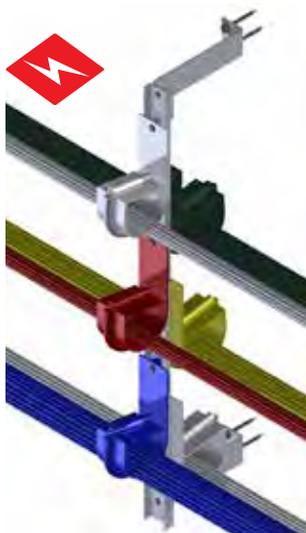
A		B		C1,2,3, & 4	
*00	No Fastener	Drop Length (Inches)		*00	No Cradle
*01	1-1/4" Power Actuated Pin—1" Embedment	 2" 1" Cradle	Minimum Dimensions:	*01	1" Cradle
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.			*02	2" Cradle
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 2" 2" Cradle	 6" Cradle	*03	3-1/2" Cradle
*03.1	3/8" x 3" Wedge Anchor (2" Embed)			*04	6" Cradle
*04	1/4" x 1-3/4" Concrete Screw Anchor	 3-1/2" Cradle		R	Red
*04.1	3/8" x 1-3/4" Concrete Screw Anchor			B	Blue
*06.1	#14 x 2-1/2" 1/4" Dia. Hex Washer Head Self Driller			G	Green
*08	Timberpin (Wood Applications)			Y	Yellow
*13	1-1/4" PowderPuff Pin—1" Embedment			BK	Black
*25	Other—Please Specify				

*Standard cradles come in white. Specify custom colors.
Example:
02 = White 2" Cradle
02R = Red 2" Cradle

Additional Fastener Options are Shown on Pages 19-21

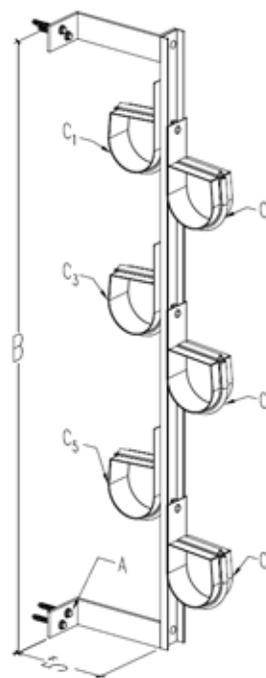
Fig. 204

Stiffy Double Wall Rack Support

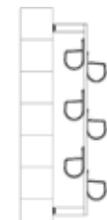


Tip...Systems can be separated by color.

- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Saves space for coordination
- Install Fig 100 or Fig 200 where supports can not attach to wall
- Max load: 80 Lbs
- Refer to page 9 for project building and seismic requirements
- UL listed hardware
- UL listed for use in plenums
- 1" Offset from wall standard
- More than 5ea Comfort Cradles allowed as long as the load limitations listed above are not exceeded.
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data.
- Refer to page 28 for project building code and seismic requirements



Concrete Wall



CMU Block Wall



Metal Stud Wall

Tip...Value Engineer cable tray out of your project by using Stiffy wall mounted racks.

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C1	C2	C3	C4	C5	C6	Qty
Fig 204									
Fig 204									
Fig 204									



A		B		C1,2,3,4,5 & 6	
*00	No Fastener	Drop Length (Inches)		*00	No Cradle
*01	1-1/4" Power Actuated Pin—1" Embedment	 1" Cradle	<u>Minimum Dimensions:</u>	*01	1" Cradle
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.			*02	2" Cradle
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	 2" Cradle	 6" Cradle	*03	3-1/2" Cradle
*03.1	3/8" x 3" Wedge Anchor (2" Embed)			*04	6" Cradle
*04	1/4" x 1-3/4" Concrete Screw Anchor	 3-1/2" Cradle		R	Red
*04.1	3/8" x 1-3/4" Concrete Screw Anchor			B	Blue
*06.1	#14 x 2-1/2" 1/4" Dia. Hex Washer Head Self Driller			G	Green
*08	Timberpin (Wood Applications)			Y	Yellow
*13	1-1/4" PowderPuff Pin—1" Embedment			BK	Black
*25	Other—Please Specify				

*Standard cradles come in white. Specify custom colors.

Example:
02 = White 2" Cradle
02R = Red 2" Cradle

Additional Fastener Options are Shown on Pages 19-21

Fig. 204 ELECTRICAL/LOW VOLTAGE APPLICATIONS



Fig. 205

Stiffy "Shorty" Comfort Cradle



Detail #1 Detail #2 Detail #3 Detail #4 Detail #5



Detail #6 Detail #7 Detail #8 Detail #9 Detail #10



Detail #11 Detail #12 Detail #13



Detail #14 Detail #15 Detail #16

- Nonconductive Plenum Rated 2" wide polypropylene Comfort Cradle with Locking Restraint Latch
- Max support spacing: 4-5' O.C.
- UL listed hardware
- UL listed for use in plenums
- Fill capacity for low voltage applications:
 - 1" cradle: Up to 15ea CAT5E or 11ea CAT6A. (70% Fill)
 - 2" cradle: Up to 61ea CAT5E or 46ea CAT6A. (70% Fill)
 - 3-1/2" cradle: Up to 187ea CAT5E or 141ea CAT6A. (70% Fill)
 - 6" cradle: Up to 550ea CAT5E or 417ea CAT6A. (70% Fill)
- Cradles are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 97 for technical data

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	Qty
Fig 205			
Fig 205			
Fig 205			



A				B	
*01	Detail 1	No Fastener		*01	1" Cradle
*02	Detail 2	#10 x 2-1/2" Hex Washer Head Self Driller		*02	2" Cradle
*03	Detail 3	#10 x 2-1/2" Hex Washer Head Sharp Point		*03	3-1/2" Cradle
*04	Detail 4	Wide Mouth Beam Clamp		*04	6" Cradle
*05	Detail 5	Wide Mouth Beam Clamp - Rotates 360°			
*06	Detail 6	Hammer-on Beam Clamp 3/32"-9/64" Flange	R	Red	 <p>*Standard cradles come in white. Specify custom colors.</p> <p>Example: 02 = White 2" Cradle 02R = Red 2" Cradle</p>
*07	Detail 6	Hammer-on Beam Clamp 1/8"-1/4" Flange	B	Blue	
*08	Detail 6	Hammer-on Beam Clamp 5/16"-1/2" Flange	G	Green	
*09	Detail 6	Hammer-on Beam Clamp 9/16"-3/4" Flange	Y	Yellow	
*10	Detail 7	Hammer-on Beam Clamp 3/32"-9/64" Flange - Rotates 360°	BK	Black	
*11	Detail 7	Hammer-on Beam Clamp 1/8"-1/4" Flange - Rotates 360°			
*12	Detail 7	Hammer-on Beam Clamp 5/16"-1/2" Flange - Rotates 360°			
*13	Detail 7	Hammer-on Beam Clamp 9/16"-3/4" Flange - Rotates 360°			
*14	Detail 8	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange			
*15	Detail 9	Under Floor Support to 3/4" dia. Round Pedestal			
*16	Detail 10	Under Floor Support to Pedestal - Universal			
*17	Detail 11	Stiffy Hammer-on Beam Clamp 1/8" - 1/4" Flange			
*18	Detail 12	Stiffy Pull Down Beam Clamp 1/16" - 1/4" Flange			
*19	Detail 13	Stiffy Wood Pull Down Beam Clamp - Nominal 2" Lumber			
*20	Detail 14	Flat Mount with No Fastener			
*21	Detail 15	Flat Mount with Fastener #10 x 2-1/2" Hex Washer Head Self Driller			
*22	Detail 16	Flat Mount #10 x 2-1/2" Hex Washer Head Sharp Point			

Additional Fastener Options are Shown on Pages 19-21

Application Examples



Detail #1



Detail #2



Detail #3



Detail #4



Detail #5

Roates 360°



Detail #6



Detail #7

Roates 360°



Detail #8



Detail #9



Detail #10



Detail #11



Detail #12



Detail #13



Detail #14



Detail #15



Detail #16

ELECTRICAL/LOW VOLTAGE APPLICATIONS



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Application Examples

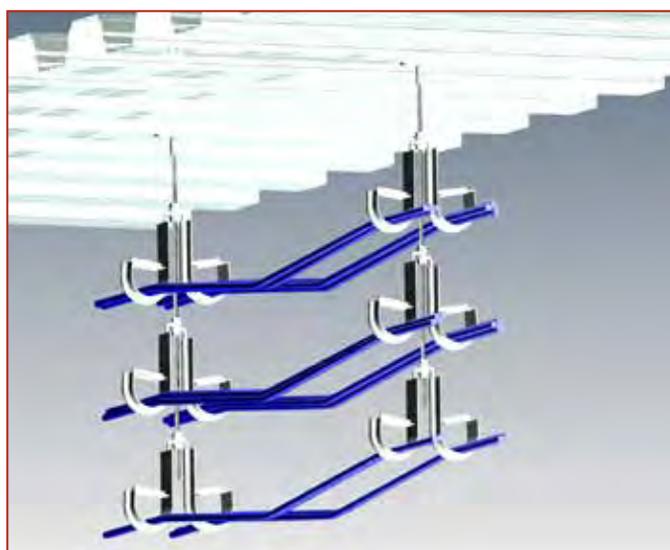
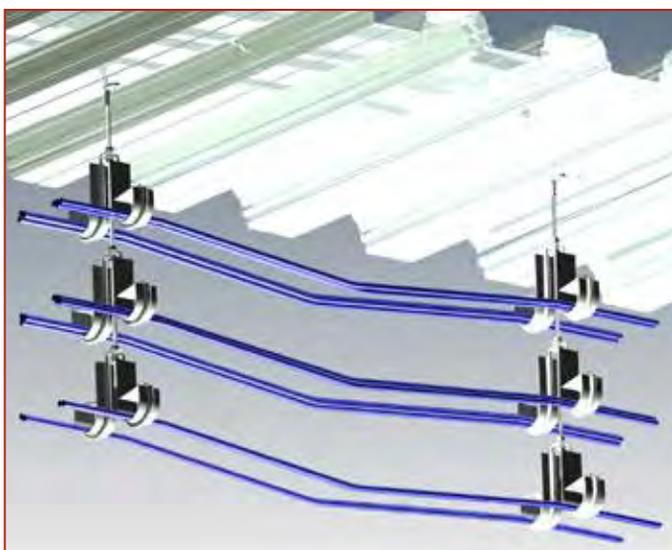
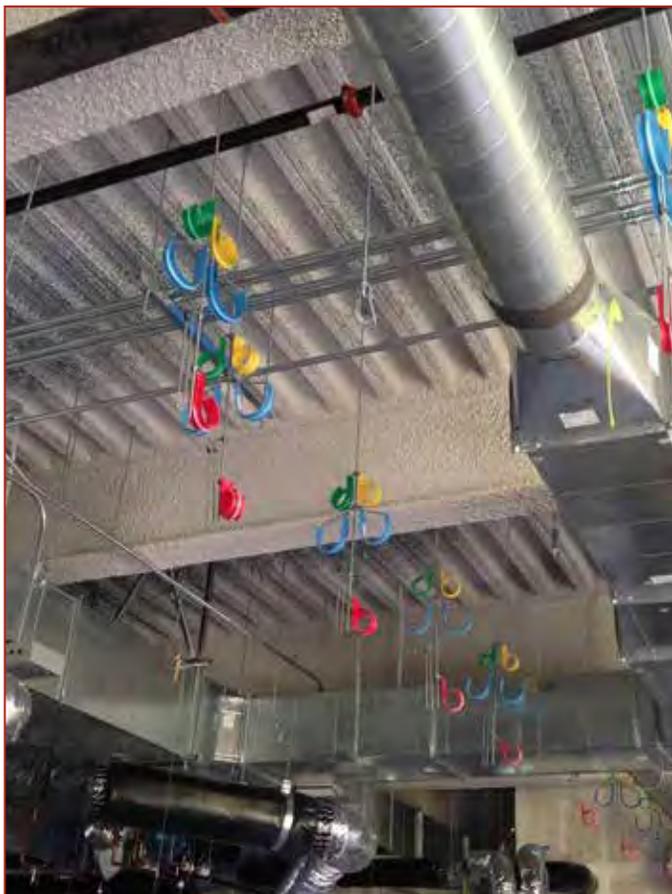


Fig. 206

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



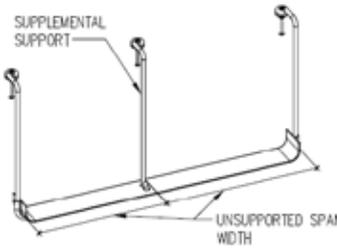
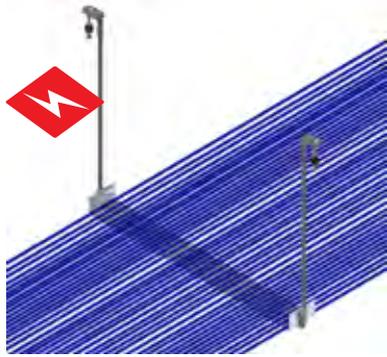
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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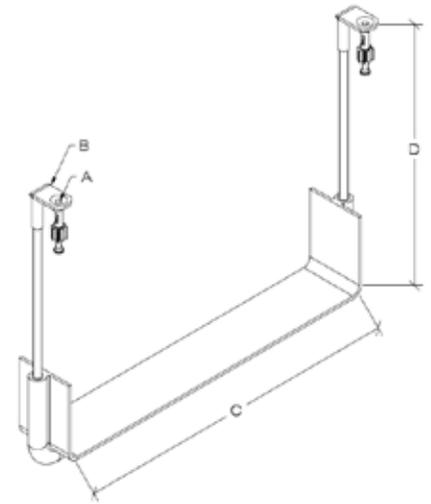


Fig. 220

Stiffy Low Voltage Trapeze



- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Max support spacing: 4-5' O.C.
- Max load per trapeze: 50 Lbs (Refer to table below)
- UL listed hardware for use in plenums
- Trapezes are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 28 for project building code and seismic requirements



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

*Add supplemental support to reduce max unsupported span width

	A	B	C (12" Typ.)	D	E	*F	Qty
Fig 220							
Fig 220							
Fig 220							

*Standard trapezes come in white.



A		B		C	D	E	F				
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	Supplemental Support	*01	White			
*01	1-1/4" Power Actuated Pin—1" Embedment						*01	Yes	*02	Red	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint				*02	Blue			
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)						*012	*02	*03	Green	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)	Gas Tool Footprint	Sidemount Footprint				*04	Yellow			
*04	1/4" x 1-3/4" Concrete Screw Anchor						*03	*04	*05	Black	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor	Threaded End (1/2" of Threads)	Straight Rod								
*06	#10 Hex Washer Head Self Driller										
*07	#10 Hex Washer Head Sharp Point										
*08	Timberpin (Wood Applications)										
*09	Wide Mouth Beam Clamp										
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)										
*13	1-1/4" PowderPuff Pin—1" Embedment										
*14	Stiffy Wood Pull Down Attachment										
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange										
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange										
*25	Other—Please Specify										

Additional Fastener Options are Shown on Pages 19-21

Fig. 220

Application Examples

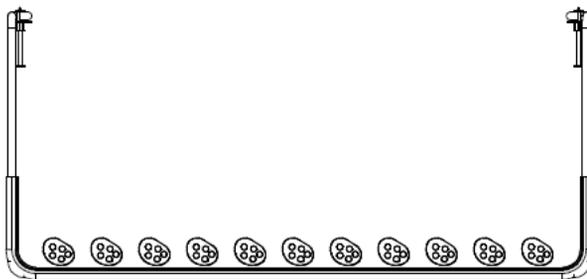
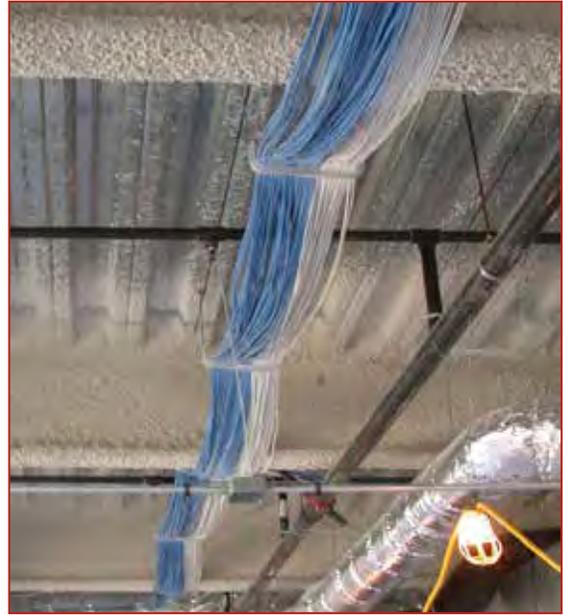


Fig. 220

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



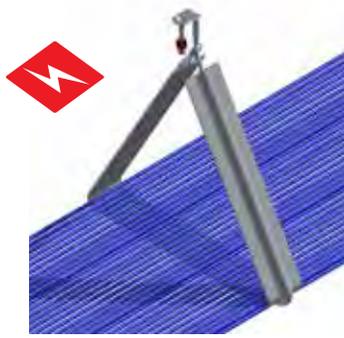
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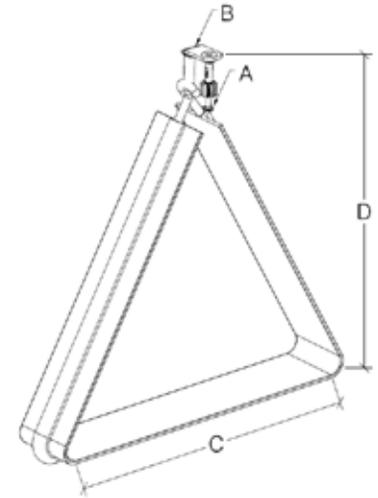


Fig. 222

Stiffy Low Voltage Triangle Trapeze



- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Triangle unlocks to allow cables to be added after installation.
- Max support spacing: 4-5' O.C.
- Max load per trapeze: 50 Lbs (Refer to table below)
- UL listed hardware
- UL listed for use in plenums
- Trapezes are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 28 for project building code and seismic requirements



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

	A	B	C (12" Typ.)	D	*E	Qty
Fig 222						
Fig 222						
Fig 222						

***Standard trapezes come in white.**



A		B		C	D	E	
*00	No Fastener	*01	*011	Width (Inches)	Drop Length (Inches)	*01	White
*01	1-1/4" Power Actuated Pin—1" Embedment					*02	Red
*02	1-1/2" Power Actuated Pin—1-1/4" Embed				*03	Blue	
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)				*04	Green	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				*05	Yellow	
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02		*06	Black	
*04.1	3/8" x 1-3/4" Concrete Screw Anchor						
*06	#10 Hex Washer Head Self Driller						
*07	#10 Hex Washer Head Sharp Point						
*08	Timberpin (Wood Applications)						
*09	Wide Mouth Beam Clamp	*03	*04				
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)						
*13	1-1/4" PowderPuff Pin—1" Embedment	Threaded End (1/2" of Threads)	Straight Rod				
*14	Stiffy Wood Pull Down Attachment						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other-Please Specify					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange						
*25	Other—Please Specify						

Additional Fastener Options are Shown on Pages 19-21

Application Examples



Fig. 222



ELECTRICAL/LOW VOLTAGE APPLICATIONS



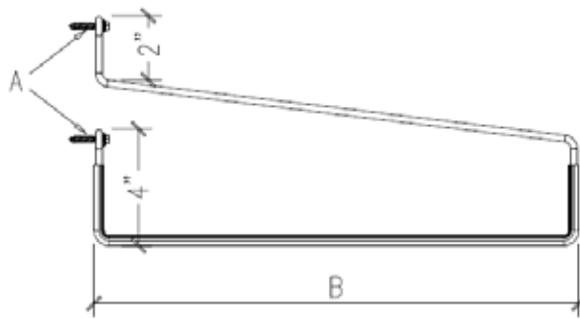
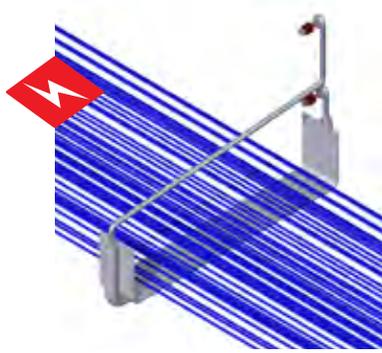
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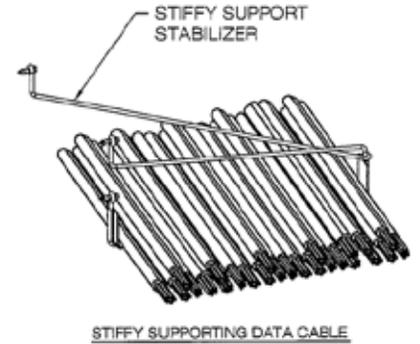
Fig. 223

Stiffy Wall Mount Trapeze

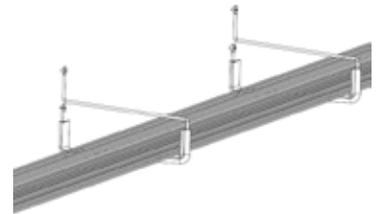


Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Saves space for coordination
- Max load: 50# (Refer to table below)
- UL listed hardware
- UL listed for use in plenums
- Trapezes are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 28 for project building code and seismic requirements



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	A	B	C	*D	Qty
Fig 223					
Fig 223					
Fig 223					

***Standard trapezes come in white.**



A		B	C		D
*00	No Fastener	Width (Inches)	Stabilizer Arm		*01 White
*01	1-1/4" Power Actuated Pin—1" Embedment		*00	No Stabilizer Arm	*02 Red
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.		*01	Stud Spacing 16" O.C.	*03 Blue
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)		*02	Stud Spacing 24" O.C.	*04 Green
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				*05 Yellow
*04	1/4" x 1-3/4" Concrete Screw Anchor				*06 Black
*04.1	3/8" x 1-3/4" Concrete Screw Anchor				
*06.1	1/4" x 2-1/2" Hex Washer Head Self Driller				
*07	#14 x 2-1/2" 2-1/2" Hex Washer Head Sharp Point				
*08	Timberpin (Wood Applications)				
*13	1-1/4" PowderPuff Pin—1" Embedment				
*25	Other—Please Specify				

Stabilizer Arm recommended for wide trapezes to provide stability when pulling cable.

Additional Fastener Options are Shown on Pages 19-21

Fig. 223

Application Examples

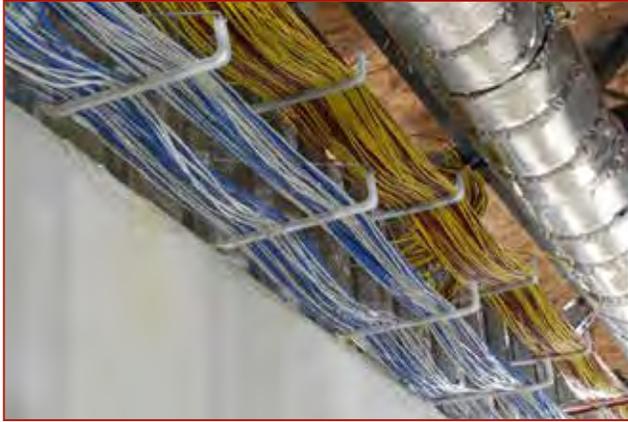


Fig. 223

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



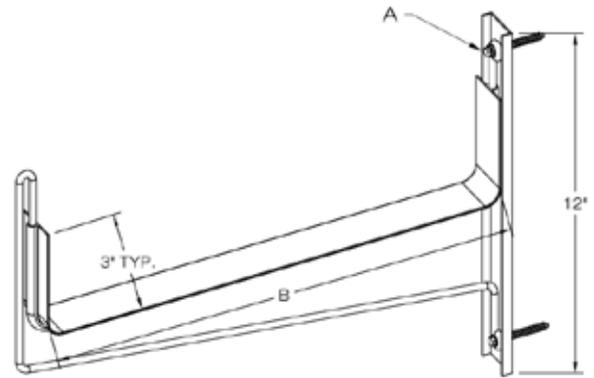
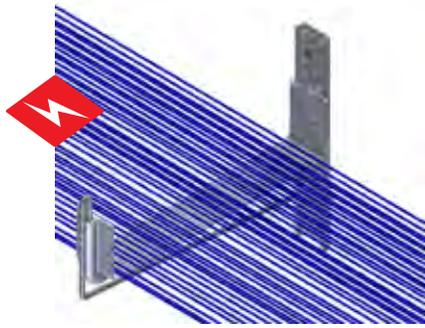
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Fig. 224

Stiffy Wall Mount Trapeze



- Replaces expensive Cable Tray and Eliminates Seismic Bracing.
- Saves space for coordination
- Max load: 50# (Refer to table below)
- UL listed hardware
- UL listed for use in plenums
- Trapezes are available in RED, WHITE, BLUE, GREEN, YELLOW and BLACK
- 2" Wide Cradle offers exceptional support and reduces crimping.
- Ideal for use with CAT 5e, CAT 6, CAT 6A, CAT 7 and Fiber Optic Cables
- Refer to page 28 for project building code and seismic requirements



Contractor:		Ship to Address:	
PO#		Order Date:	
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Max Capacity Based on Span	
12" Span	50#
14" Span	40#
16" Span	30#
18" Span	20#

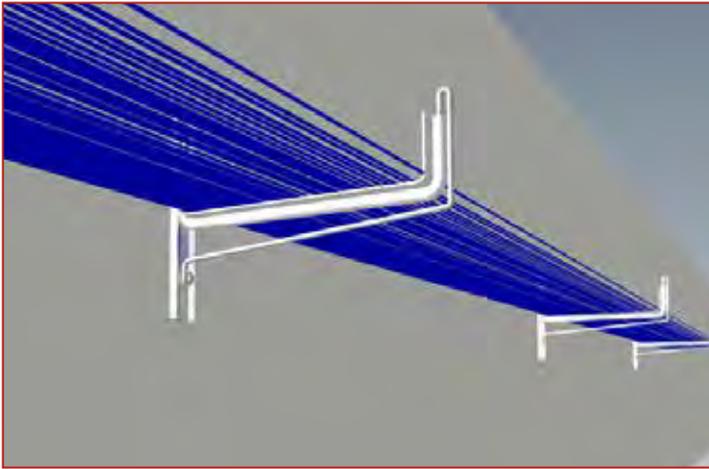
	A	B	C	*D	Qty
Fig 224					
Fig 224					
Fig 224					

***Standard trapezes come in white.**

A		B	C	D	
*00	No Fastener	Width (Inches)	Depth (Inches) (3" Typical)	*01	White
*01	1-1/4" Power Actuated Pin—1" Embedment			*02	Red
*02	1-1/2" Power Actuated Pin—1-1/4" Embed.			*03	Blue
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)			*04	Green
*03.1	3/8" x 3" Wedge Anchor (2" Embed)			*05	Yellow
*04	1/4" x 1-3/4" Concrete Screw Anchor			*06	Black
*04.1	3/8" x 1-3/4" Concrete Screw Anchor				
*06.1	1/4" x 2-1/2" Hex Washer Head Self Driller				
*07	#14 x 2/1/2" 1-1/2" Hex Washer Head Sharp Point				
*08	Timberpin (Wood Applications)				
*13	1-1/4" PowderPuff Pin—1" Embedment				
*25	Other—Please Specify				

Additional Fastener Options are Shown on Pages 19-21

Application Examples



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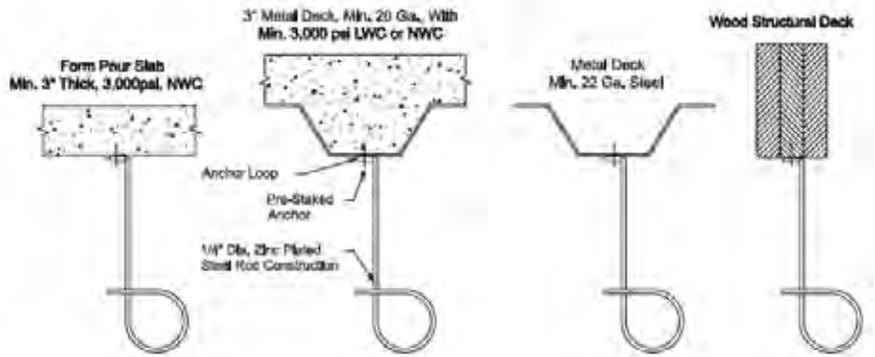
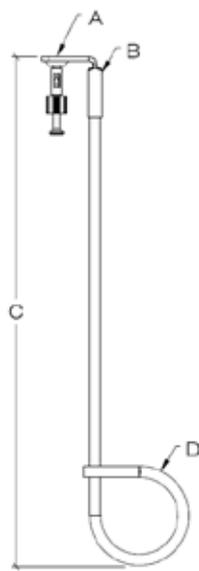


Fig. 240

Stiffy Bridle Ring



Shown with PowderPuff Pin A=13 and Hard Concrete Footprint B=011

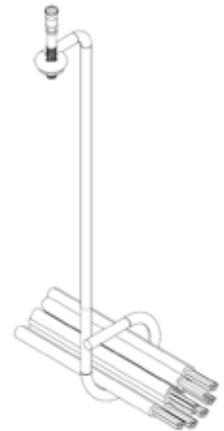


- Zinc plated rod for corrosion resistance
- Max static load: 25#
- Max support spacing: 4-5' O.C.
- UL listed hardware

ELECTRICAL/LOW VOLTAGE APPLICATIONS

Contractor:		Ship to Address:	
PO#		Order Date:	
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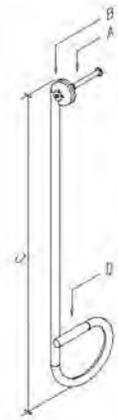
	A	B	C	D	Qty
Fig 240					
Fig 240					
Fig 240					



A=03 B=01

Fig. 240

A		B		C	D		
*00	No Fastener	*01	*011	Drop Length (Inches)	*01	2" Ring	
*01	1-1/4" Power Actuated Pin—1" Embedment				*02	3" Ring	
*02	1-1/2" Power Actuated Pin—1-1/4" Embed				*03	4" Ring	
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)				*04	5" Ring	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)				*05	6" Ring	
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02				
*04.1	3/8" x 1-3/4" Concrete Screw Anchor						
*06	#10 Hex Washer Head Self Driller						
*07	#10 Hex Washer Head Sharp Point						
*08	Timberpin (Wood Applications)						
*09	Wide Mouth Beam Clamp	*03	*04				
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)						
*13	1-1/4" PowderPuff Pin—1" Embedment						
*14	Stiffy Wood Pull Down Attachment						
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange	*10 Other-Please Specify					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4" Flange						
*25	Other—Please Specify						



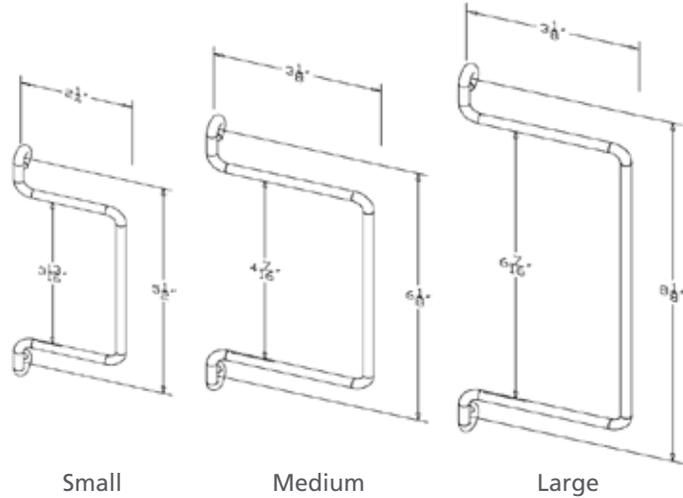
Additional Fastener Options are Shown on Pages 19-21

Fig. 241

Stiffy D Ring



- A quick and cost effective way to route, support and secure cables and jumpers in terminal closets
- Guides cables vertically on walls
- 1/4" zinc coated rod to resist corrosion



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	Qty
Fig 241			
Fig 241			
Fig 241			



A		B	
*00	No Fastener	*01	Small D-Ring
*01	1-1/4" Power Actuated Pin—1" Embedment	*02	Medium D-Ring
*02	1-1/4" Power Actuated Pin—1-1/4" Embed.	*03	Large D-Ring
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)	To order custom sizes please refer to the Fig 121 Order Form	
*03.1	3/8" x 3" Wedge Anchor (2" Embed)		
*04	1/4" x 1-3/4" Concrete Screw Anchor		
*04.1	3/8" x 1-3/4" Concrete Screw Anchor		
*06	#10 2-1/2" Hex Washer Head Self Driller		
*07	#10 2-1/2" Hex Washer Head Sharp Point		
*08	Timberpin (Wood Applications)		
*25	Other—Please Specify		

Additional Fastener Options are Shown on Pages 10 - 12

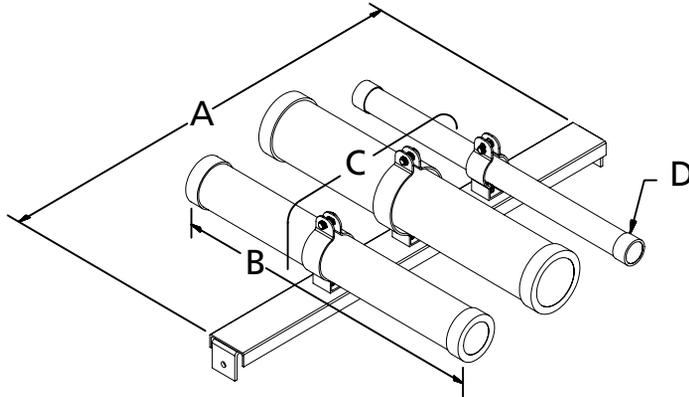


Fig. 250

Stiffy Wall Sleeves



- Allows the cabling installer to run cable before drywall is installed.
- Insulating Bushings can be color coded to identify specific cabling systems.
- Wall Sleeves can be ordered in any width or orientation to suit project requirements.
- Engineered submittal documents stamped by an engineer.



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	A	B	C1	D1	C2	D2	C3	D3	C4	D4	C5	D5	C6	D6	Qty
Fig 250															
Fig 250															
Fig 250															

	A	B	C1-6		D1-6	
*01	16" Wide	Sleeve Length (Inches)	*01	1/2" EMT	*00	No Bushing
*02	24" Wide		*02	3/4" EMT	*01	White Bushing (Standard)
*03	Other		*03	1" EMT	*01R	Red Bushing
			*04	1-1/4" EMT	*01B	Blue Bushing
			*05	1-1/2" EMT	*01G	Green Bushing
			*06	2" EMT	*01Y	Yellow Bushing
			*07	2-1/2" EMT	*01BL	Black Bushing
			*08	3" EMT		
			*09	3-1/2" EMT		
			*10	4" EMT		

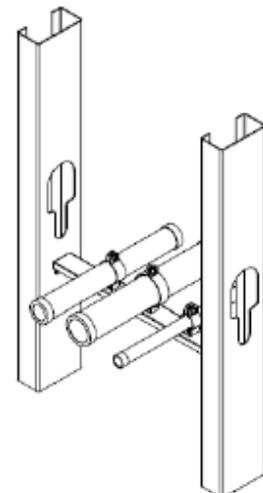


Fig. 250

Application Examples

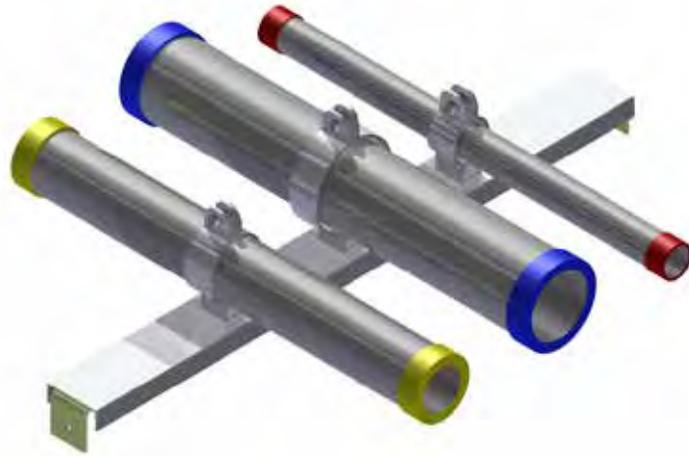


Fig. 250

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



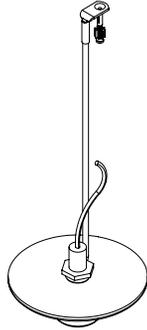
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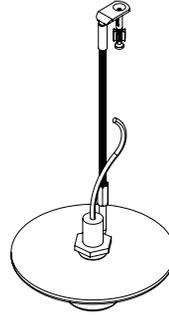




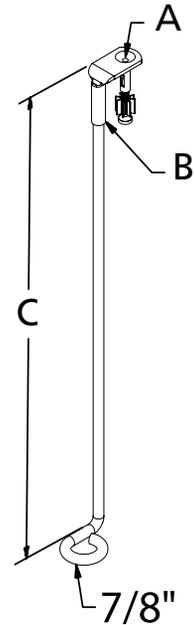
- Dramatically reduces the installation time of DAS Antennas
- Supports can be ordered as a fixed length or adjustable with threaded rod
- Zinc plated rod for corrosion resistance.
- Max load: 70# per support
- Engineered submittal documents stamped by an engineer
- Refer to project building code to determine max weight/LF without seismic restraints



Fixed Length
Version Shown D=01



Threaded Adjustable
Version Shown D=02



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	Qty
Fig 251					
Fig 251					
Fig 251					

A		B		C	D	
*00	No Fastener	*01	*011	Drop Length (Inches)	*01	Fixed Length
*01	1-1/4" Power Actuated Pin—1" Embedment				*02	Threaded Adjustable Version
*02	1-1/2" Power Actuated Pin—1-1/4" Embed	90° Footprint	Hard Concrete Footprint	Footnotes: 1-When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default. 2-Hard Concrete Footprint B=011, is available in 1/4" and 3/8". 3-D=02 1/2" All Thread rod is available with the B=03 threaded footprint only.		
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)					
*03.1	3/8" x 3" Wedge Anchor (2" Embed)					
*04	1/4" x 1-3/4" Concrete Screw Anchor	*012	*02			
*04.1	3/8" x 1-3/4" Concrete Screw Anchor					
*06	#10 Hex Washer Head Self Driller	Gas Tool Footprint	Sidemount Footprint			
*07	#10 Hex Washer Head Sharp Point	Threaded End (1/2" of Threads)	Straight Rod			
*08	Timberpin (Wood Applications)					
*09	Wide Mouth Beam Clamp	*03	*04			
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)	*10 Other-Please Specify				
*13	1-1/4" PowderPuff Pin—1" Embedment					
*14	Stiffy Wood Pull Down Attachment					
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange					
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange					
*25	Other—Please Specify					

Additional Fastener Options are Shown on Pages 19-21

Application Examples

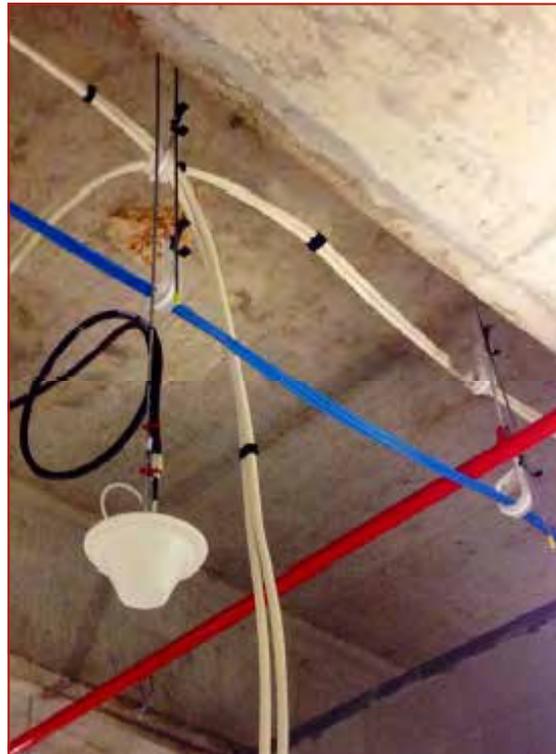


Fig. 251

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



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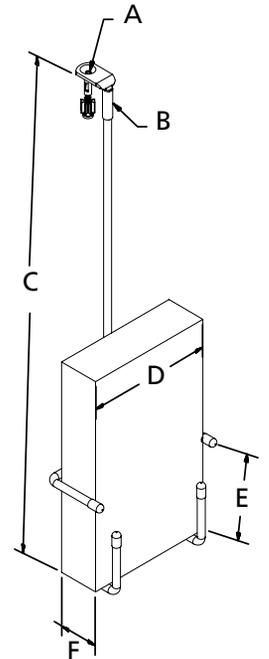
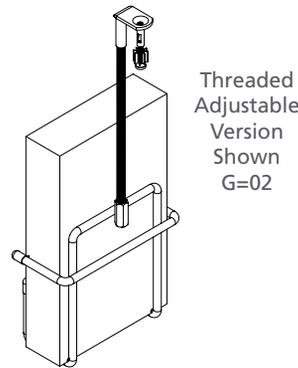
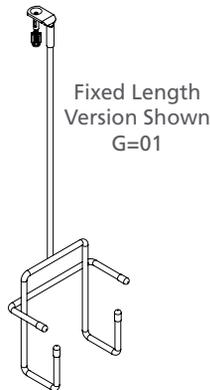


Fig. 252

Stiffy Module Support



- Dramatically reduces the installation time of Modules
- Supports can be ordered as a fixed length or adjustable with threaded rod
- Supports are custom sized for the specific application
- Zinc plated rod for corrosion resistance.
- Max load: 70# per support
- Engineered submittal documents stamped by an engineer
- Refer to project building code to determine max weight/LF without seismic restraints



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	A	B	C	D	E	F	G	Qty
Fig 252								
Fig 252								
Fig 252								

A		B		C	D	E	F	G	
*00	No Fastener	*01	*011	Drop Length (Inches)	Opening Width (Inches)	Opening Height (Inches)	Opening Depth (Inches)	*01	Fixed Length
*01	1-1/4" Power Actuated Pin—1" Embedment							*02	Threaded Adjustable Version
*02	1-1/2" Power Actuated Pin—1-1/4" Embed			Footnotes: 1-When Power Actuated Fasteners (A=01, 02 or 13) and (B=01-90° Footprint) are selected the B=011 New Hard Concrete Footprint will be used by default. 2-Hard Concrete Footprint B=011, is available in 1/4" and 3/8". 3-G=02 1/2" All Thread rod is available with the B=03 threaded footprint only.					
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)								
*03.1	3/8" x 3" Wedge Anchor (2" Embed)								
*04	1/4" x 1-3/4" Concrete Screw Anchor								
*04.1	3/8" x 1-3/4" Concrete Screw Anchor								
*06	#10 Hex Washer Head Self Driller								
*07	#10 Hex Washer Head Sharp Point								
*08	Timberpin (Wood Applications)								
*09	Wide Mouth Beam Clamp								
*12	Adjustable Hammer-on BC Rotates 360° Specify Flange Thickness)								
*13	1-1/4" PowderPuff Pin—1" Embedment								
*14	Stiffy Wood Pull Down Attachment								
*16	Hammer-on Beam Clamp 1/8" - 3/4" Flange								
*17	Bar Joist Pull Down Clamp 1/16" - 1/4 Flange								
*25	Other—Please Specify								

Additional Fastener Options are Shown on Pages 19-21

Fig. 252

Application Examples

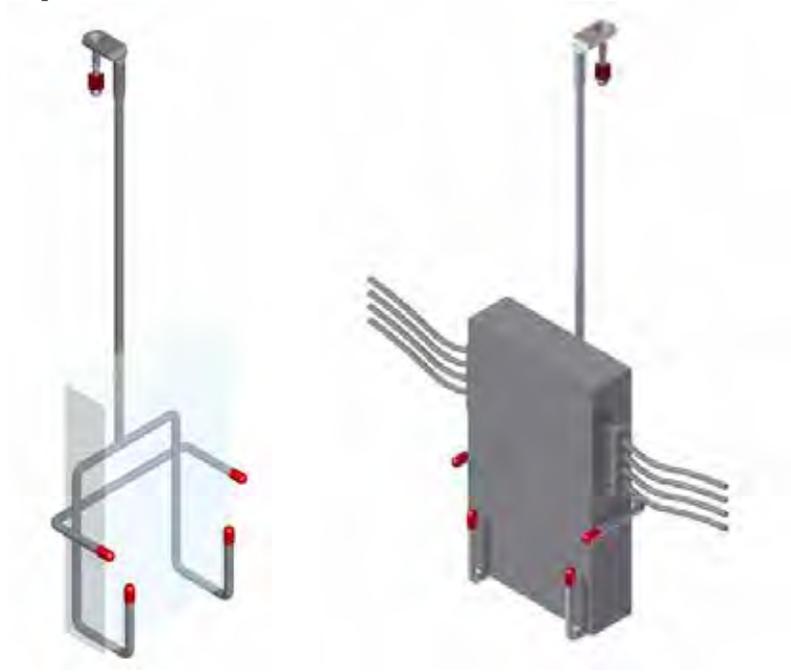


Fig. 252

ELECTRICAL/LOW VOLTAGE APPLICATIONS



The order dimensions for the module shown are D=5.25 E=3.375 F=2.25



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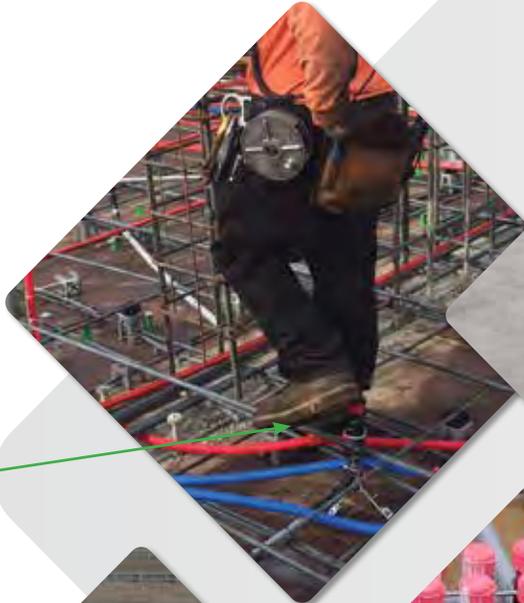
300 SERIES

CAST-IN-PLACE SUPPORTS

**Safer
Faster Installation
Saves Labor**

Rod
Buster
Rated

Tip...The Stiffy Sock
isolates fasteners and
eliminates any concern
of rust wicking into
the structure.



**JOBSITE PROBLEM
MEETS STIFFY
SOLUTION**

Real-world Jobsite Innovation

Job Site Problem

Typical Wire Installation



Job Site Problem 1

Decks are clear

Step 1 - Perform Layout

1st layer of rebar installed

Step 2 - Install horizontal conduit

2nd layer of rebar installed

Step 3 - Return to each location when the decks are most dangerous and find tie wire and scrap material

**Installer must revisit every support
Dangerous tripping hazard**

Stiffy Solution

Fig 302 Stiffy Tree



Stiffy Solution

Decks are clear

Step 1 - Perform Layout and install all of the Stiffy Supports with the 90s in a **SAFE** work environment

1st layer of rebar installed

Step 2 - Install horizontal conduit

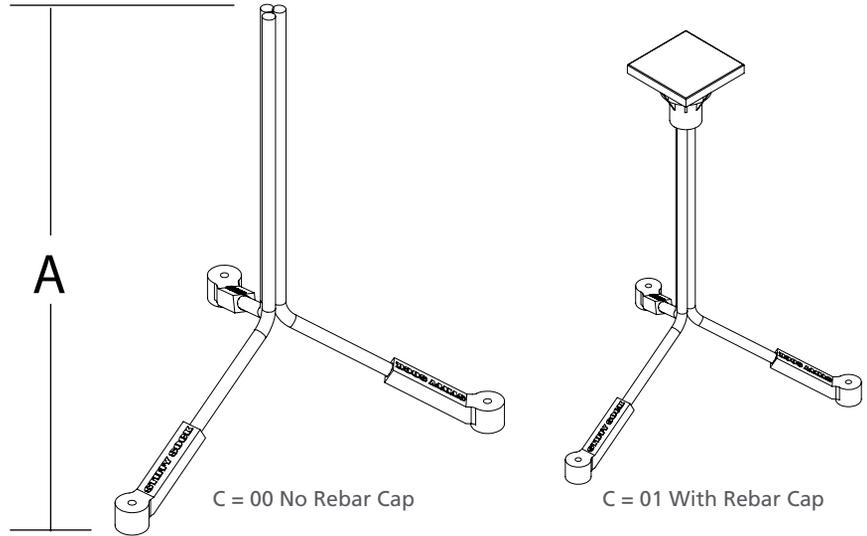
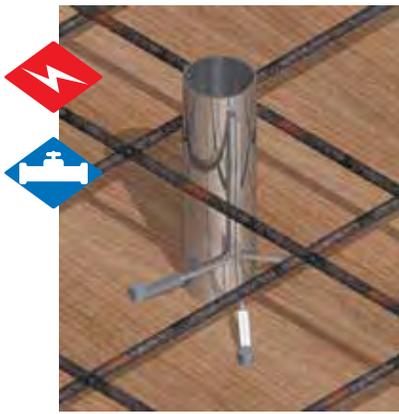
It doesn't get any easier than this...

	Job Site Problem	Stiffy Solution
Promotes a safe work environment	No - This method puts the installer at an increased risk for trip and impalement hazards	Yes - The supports are installed when the decks are clear thereby reducing the risks of injury
Quick to install	No - It is labor intensive to install tie wire and come up with supports on a deck	Yes
Eliminates support revisit	No - Installer must revisit each location after the second layer of rebar is installed	Yes
Additional Benefits	No	Yes - Install supports that securely hold pipes and boxes in place without costly and dangerous re-work with tie wire Supports 90s, Deck Sleeves and more



Fig. 300

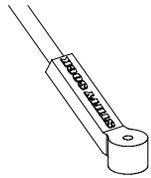
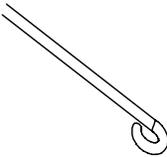
Cast-in-Place Stiffy Tree



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Provides rigid support for deck cans, pipes and conduits in concrete decks prior to the pour
- Eliminates the need to support from rebar or plastic chairs that break
- Constructed with Zinc coated rod to resist corrosion

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



A Height (Inches)	B Footprint		C Rebar Cap	
		*01	Stiffy Sock	*00
				
	*02	Stiffy Loop	*01	Rebar Cap
				

	A	B	C	Qty
Fig 300				
Fig 300				
Fig 300				

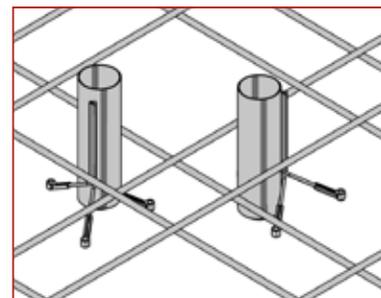


Fig. 300

Application Examples



Fig. 300

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/LUMBERING APPLICATIONS



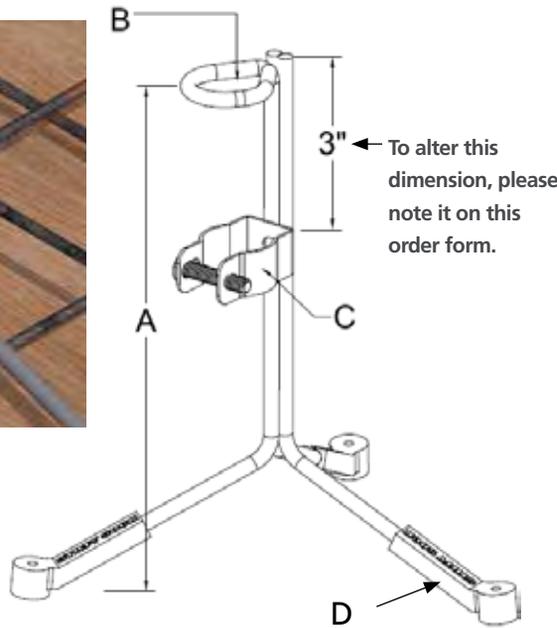
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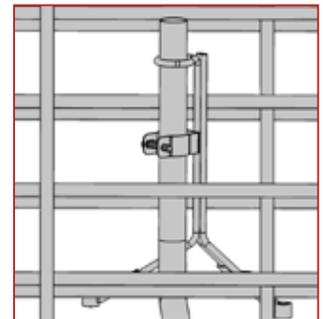
Fig. 301

Single Loop Cast-in-Place Stiffy Tree



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	A	B	C	D	Qty
Fig 301					
Fig 301					
Fig 301					

Tip...Check out the Fig 314 or Fig 317 for a quick solution to support multiple pipes.

Height (Inches)	A		B		C		D	
	Stiffy I.D.	For reference only		Conduit Clip		Footprint		
		GRC/PVC/ENT	PVC Coated Rigid					
	*01 .875"	1/2"(.84 OD)		*00 No	*01 Stiffy Sock			
	*02 1.125"	3/4"(1.05" OD)		*01 Yes				
	*03 1.375"		3/4" (1.13" OD)					
	*04 1.50"	1"(1.32" OD)	1" (1.4" OD)					
	*05 1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)					
	*06 2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)					
	*07 2.50"	2"(2.38" OD)	2" (2.46" OD)					
	*08 3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)					
	*09 3.625"	3"(3.5" OD)	3" (3.58" OD)					
	*10 4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)					
	*11 4.625"	4"(4.5" OD)	4" (4.58" OD)					
	*12 Other-Specify Size							

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

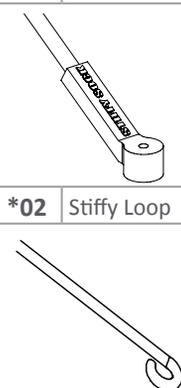


Fig. 301

Application Examples



Fig. 301



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



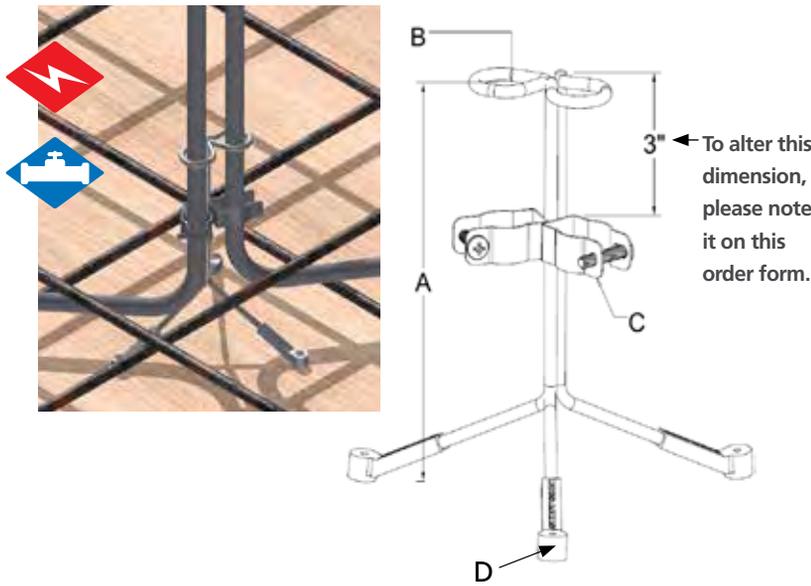
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Fig. 302

Double Loop Cast-in-Place Stiffy Tree



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion

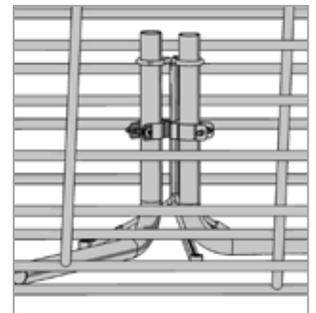
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

Tip...Check out the Fig 314 or Fig 317 for a quick solution to support multiple pipes.

	A	B1	B2	C	D	Qty
Fig 302						
Fig 302						
Fig 302						



A	B				C		D	
	Stiffy I.D.	For reference only		Conduit Clip		Footprint		
		GRC/PVC/ENT	PVC Coated Rigid					
Height (Inches)	*01 .875"	1/2" (.84 OD)		*00	No	*01	Stiffy Sock	
	*02 1.125"	3/4" (1.05" OD)		*01	Yes			
	*03 1.375"		3/4" (1.13" OD)					
	*04 1.50"	1" (1.32" OD)	1" (1.4" OD)					
	*05 1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)					
	*06 2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)					
	*07 2.50"	2" (2.38" OD)	2" (2.46" OD)					
	*08 3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)					
	*09 3.625"	3" (3.5" OD)	3" (3.58" OD)					
	*10 4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)					
	*11 4.625"	4" (4.5" OD)	4" (4.58" OD)					
	*12 Other-Specify Size							



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Application Examples



Fig. 302

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



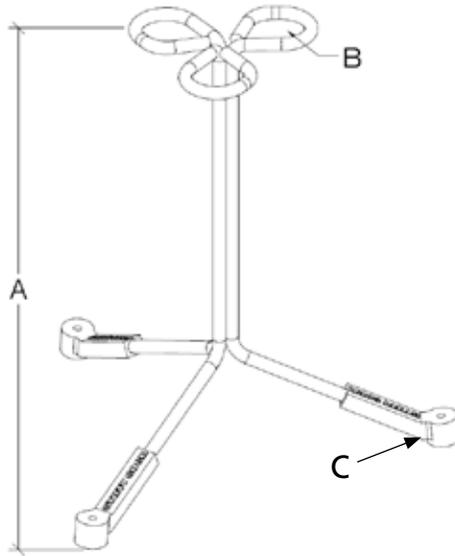
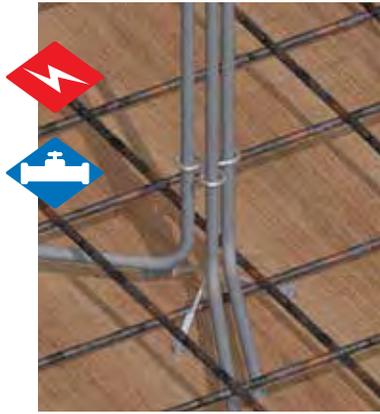
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Fig. 303

Triple Loop Cast-in-Place Stiffy Tree



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion

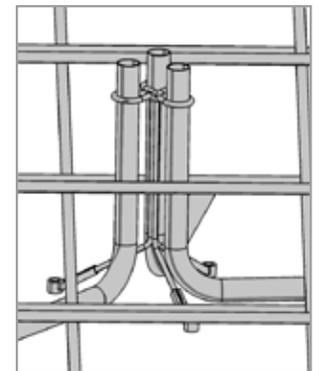
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

Tip...Check out the Fig 314 or Fig 317 for a quick solution to support multiple pipes.

	A-Height (In.)	Loop I.D.			C	Qty
		B1	B2	B3		
Fig 303						
Fig 303						
Fig 303						



A Height (Inches)	Stiffy I.D.		B		C
			For reference only		
			GRC/PVC/ENT	PVC Coated Rigid	
	*01	.875"	1/2"(.84 OD)		*01 Stiffy Sock
	*02	1.125"	3/4"(1.05" OD)		
	*03	1.375"		3/4" (1.13" OD)	
	*04	1.50"	1"(1.32" OD)	1" (1.4" OD)	
	*05	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)	
	*06	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)	
	*07	2.50"	2"(2.38" OD)	2" (2.46" OD)	
	*08	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)	
	*09	3.625"	3"(3.5" OD)	3" (3.58" OD)	
	*10	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)	
	*11	4.625"	4"(4.5" OD)	4" (4.58" OD)	
	*12	Other-Specify Size			



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Application Examples

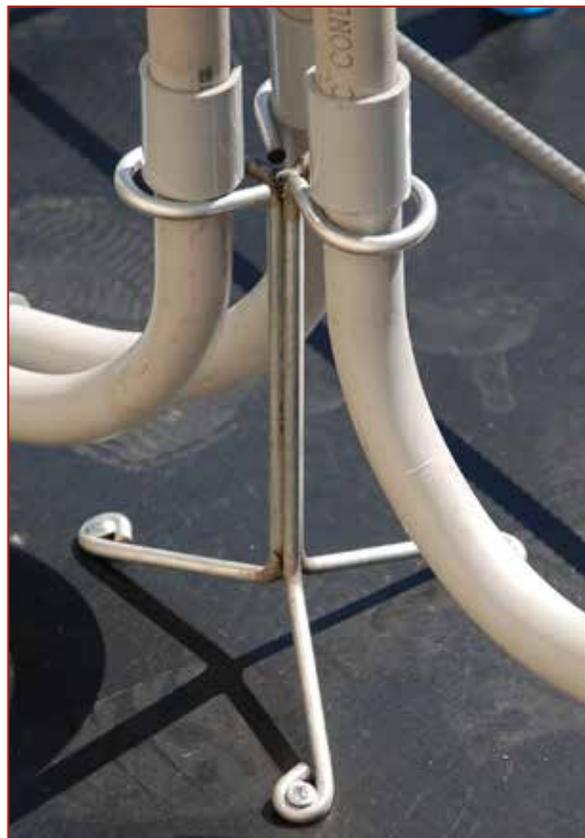


Fig. 303



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



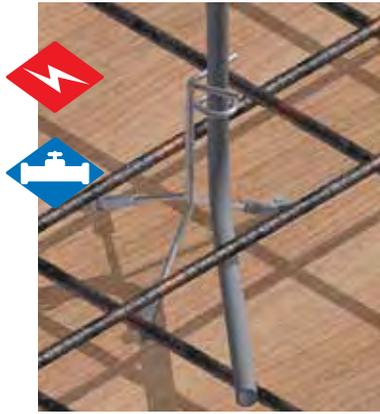
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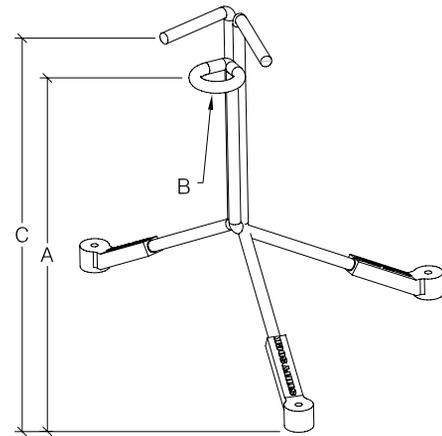


Fig. 304

Single Loop Cast-in-Place Stiffy with "V"



- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Supports 90 degree elbows
- Supports cast-in-place risers
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion after forms are removed

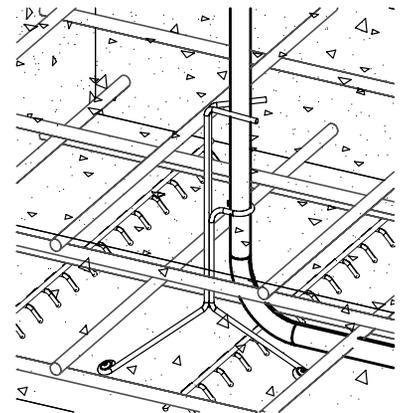


Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A-Height (In.)	B-Loop I.D.	C-"V" Height	D	Qty
Fig 304					
Fig 304					
Fig 304					



A Height (Inches)	B		C "V" Height (Inches)	D	
	Stiffy I.D.	For reference only		Footprint	
		GRC/PVC/ENT	PVC Coated Rigid	*01	Stiffy Sock
*01	.875"	1/2"(.84 OD)			
*02	1.125"	3/4"(1.05" OD)			
*03	1.375"		3/4" (1.13" OD)		
*04	1.50"	1"(1.32" OD)	1" (1.4" OD)		
*05	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)		
*06	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)		
*07	2.50"	2"(2.38" OD)	2" (2.46" OD)	*02	Stiffy Loop
*08	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)		
*09	3.625"	3"(3.5" OD)	3" (3.58" OD)		
*10	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)		
*11	4.625"	4"(4.5" OD)	4" (4.58" OD)		
*12	Other-Specify Size				



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Application Examples

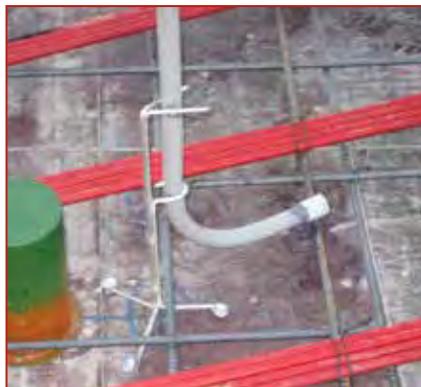
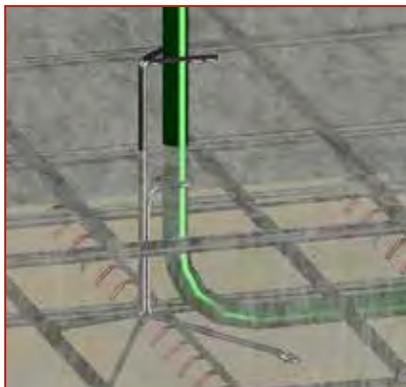
Fig. 304



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



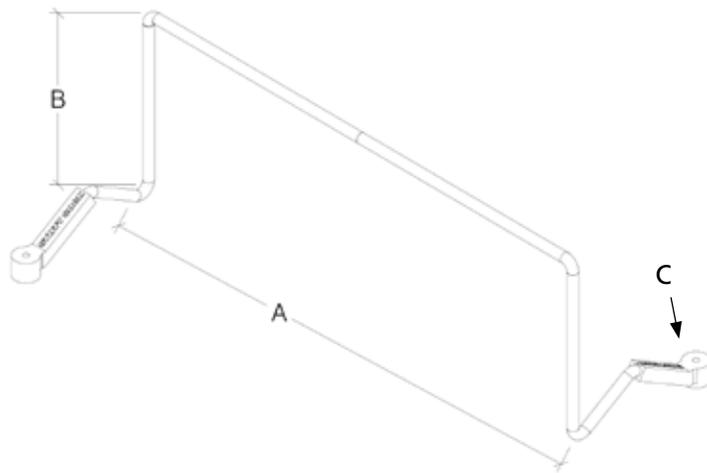
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Fig. 310

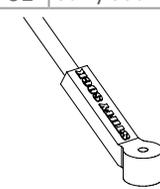
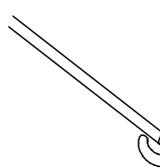
Cast-in-Place Stiffy Trapeze



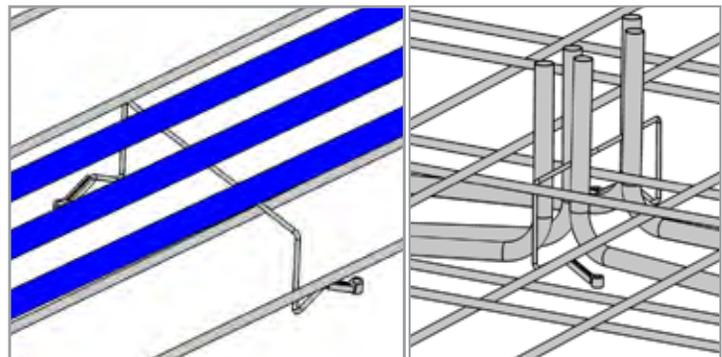
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Provides a support in Decks when minimal rebar is available to tie off
- Constructed with Zinc Coated Rod to Resist Corrosion

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



A	B	C	
Width (Inches)	Height (Inches)	Footprint	
		*01	Stiffy Sock
			
		*02	Stiffy Loop
			

	A	B	C	Qty
Fig 310				
Fig 310				
Fig 310				



Application Examples

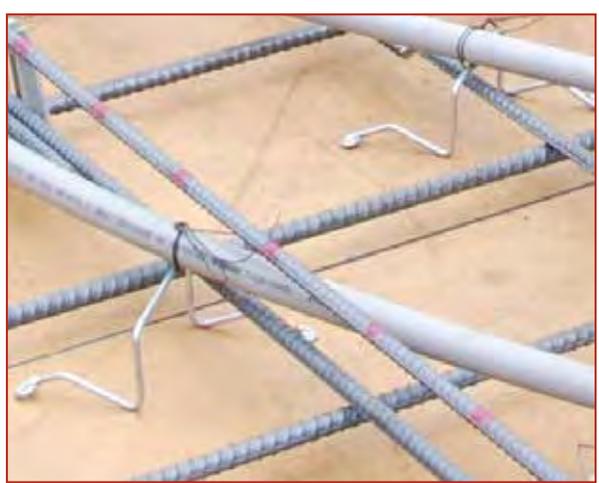
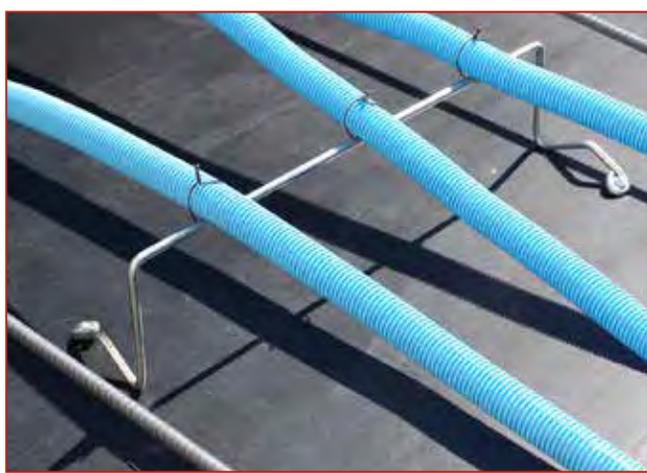


Fig. 310

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS

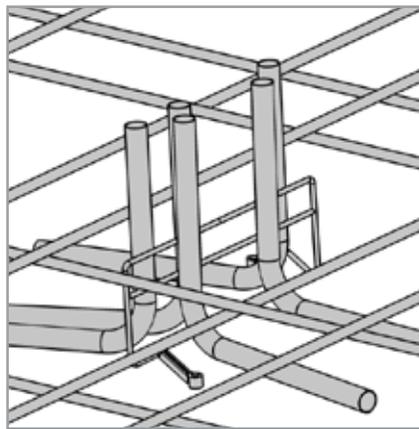
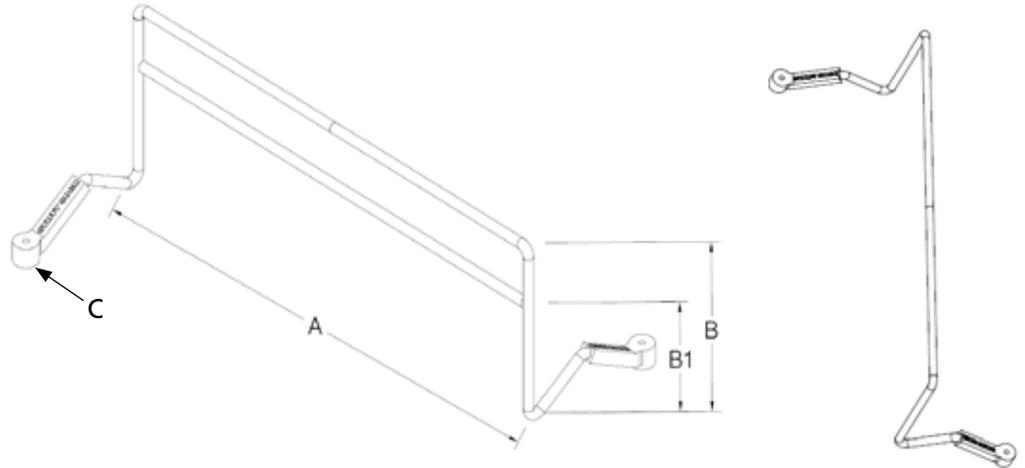


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Fig. 311

Cast-in-Place 2-Tiered Stiffy Trapeze



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Provides a support in Decks when minimal rebar is available to tie off
- Constructed with Zinc Coated Rod to Resist Corrosion

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



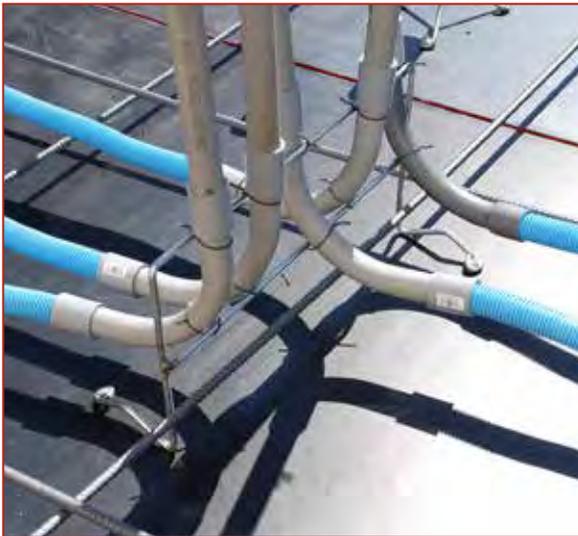
A Width (Inches)	B Height (Inches)	C Footprint	
		*01	Stiffy Sock
*02	Stiffy Loop		

	A	B	B1	C	Qty
Fig 311					
Fig 311					
Fig 311					

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



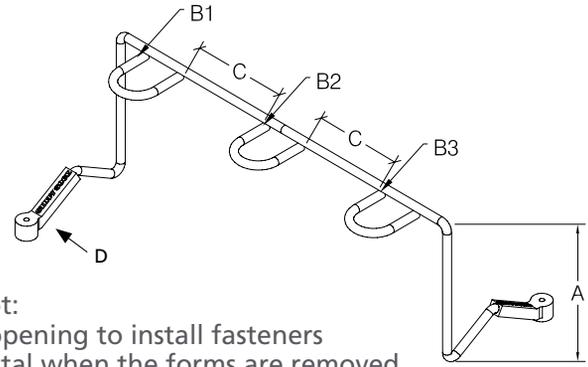
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Fig. 312

Cast-in-Place Stiffy Loop Trapeze



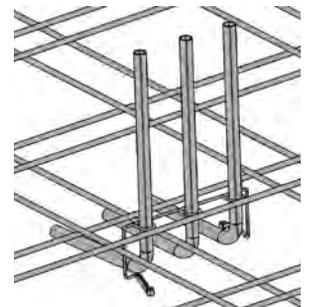
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion

Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											



	A	B1	B2	B3	B4	B5	B6	B7	B8	B9	C	D	Qty
Fig 312													
Fig 312													
Fig 312													

A	B		C		D
	Stiffy I.D.	For reference only	Spacing	Footprint	
Height (Inches)		GRC/PVC/ENT	PVC Coated Rigid	(1/2" min to fit Couplings)	
*01	.875"	1/2"(.84 OD)			*01 Stiffy Sock
*02	1.125"	3/4"(1.05" OD)			
*03	1.375"		3/4" (1.13" OD)		
*04	1.50"	1"(1.32" OD)	1" (1.4" OD)		
*05	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)		
*06	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)		
*07	2.50"	2"(2.38" OD)	2" (2.46" OD)		
*08	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)		
*09	3.625"	3"(3.5" OD)	3" (3.58" OD)		
*10	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)		
*11	4.625"	4"(4.5" OD)	4" (4.58" OD)		
*12	Other-Specify Size				



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

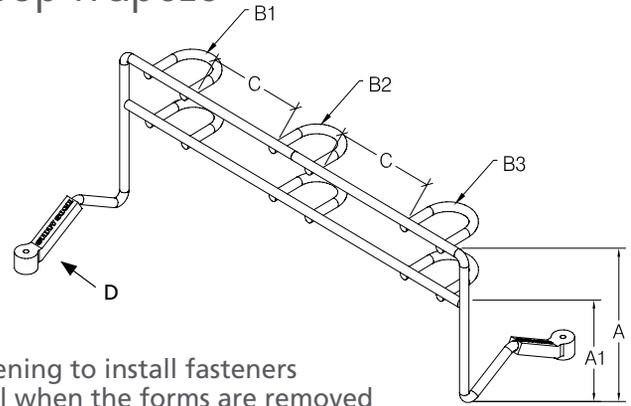
ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

Fig. 312

Fig. 313

Cast-in-Place 2-Tiered Stiffy Loop Trapeze



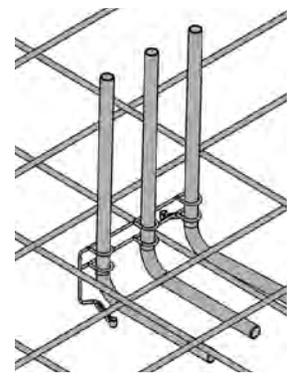
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	A1	B1	B2	B3	B4	B5	B6	B7	B8	B9	C	D	Qty
Fig 313														
Fig 313														
Fig 313														

A Height (Inches)	B		C Spacing	D Footprint
	Stiffy I.D.	For reference only		
		GRC/PVC/ENT	PVC Coated Rigid	
*01 .875"	1/2" (.84 OD)			*01 Stiffy Sock
*02 1.125"	3/4" (1.05" OD)			
*03 1.375"		3/4" (1.13" OD)		
*04 1.50"	1" (1.32" OD)	1" (1.4" OD)		
*05 1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)		
*06 2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)		
*07 2.50"	2" (2.38" OD)	2" (2.46" OD)		
*08 3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)		
*09 3.625"	3" (3.5" OD)	3" (3.58" OD)		
*10 4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)		
*11 4.625"	4" (4.5" OD)	4" (4.58" OD)		
*12	Other-Specify Size			

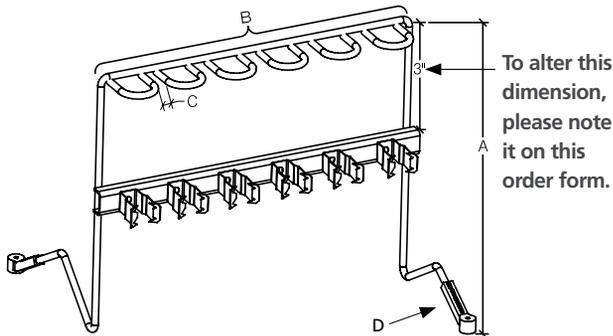


Foot Notes:

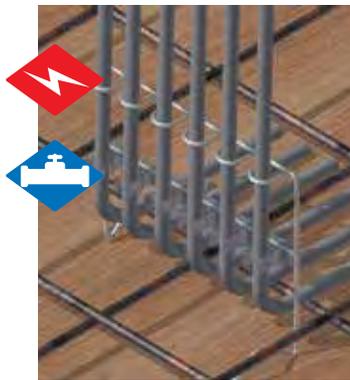
- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Fig. 314

Stiffy Snap-in Cast-in-Place Trapeze



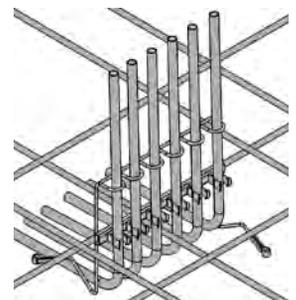
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B1	B2	B3	B4	B5	B6	B7	B8	B9	C	D	Qty
Fig 314													
Fig 314													
Fig 314													

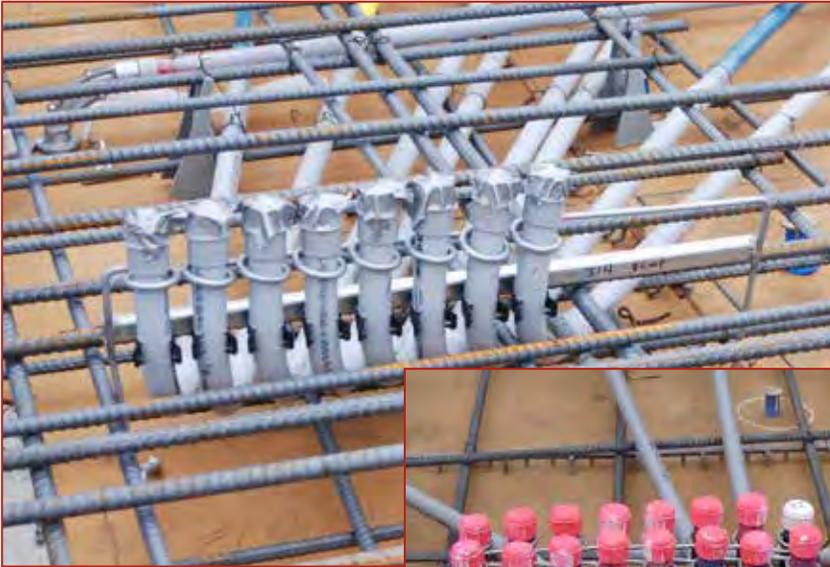
A Height (Inches)	Stiffy I.D.		B For reference only		C Spacing (1/2" min to fit Couplings)	D Footprint	
			GRC/PVC/ENT	PVC Coated Rigid		Footprint	
	*01	.875"	1/2"(.84 OD)			*01	Stiffy Sock
	*02	1.125"	3/4"(1.05" OD)				
	*03	1.375"		3/4" (1.13" OD)			
	*04	1.50"	1"(1.32" OD)	1" (1.4" OD)			
	*05	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)			
	*06	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)			
	*07	2.50"	2"(2.38" OD)	2" (2.46" OD)			
	*08	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)			
	*09	3.625"	3"(3.5" OD)	3" (3.58" OD)			
	*10	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)			
	*11	4.625"	4"(4.5" OD)	4" (4.58" OD)			
	*12	Other-Specify Size					



Footnotes:

- Snap in style conduit supports are used for 1/2" and 3/4" GRC/PVC/ENT
- Conduit Clips are used for 1" GRC/PVC/ENT and larger
- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



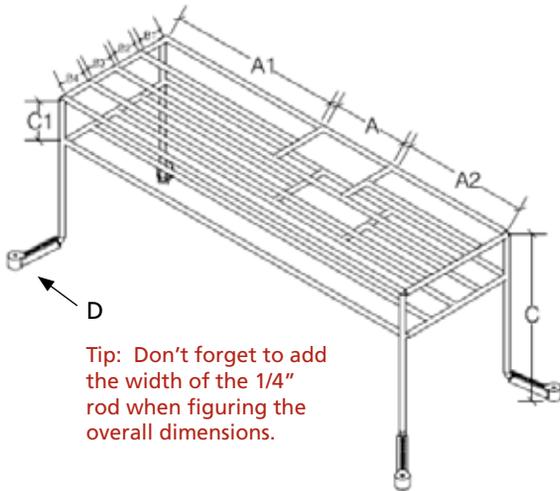
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Fig. 316

Cast-in-Place Stiffy Cage



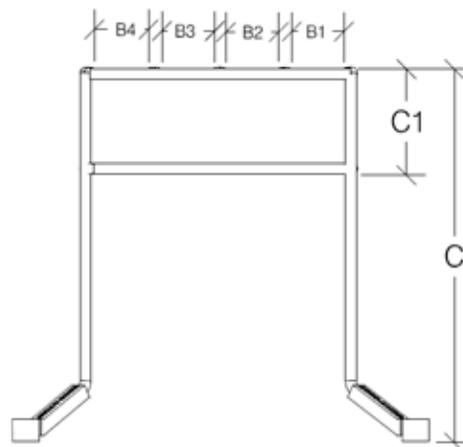
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion



Contractor:				Ship to Address:			
PO#				Order Date:			
**All Orders are Custom and Therefore Non-cancellable and Non-returnable							

	Opening (I.D.)	Length (In.)		Cage Opening				C (In.) Overall Height	C1 (In.) Cage Height	D	Qty
		A	A1	B1	B2	B3	B4				
Fig 316											
Fig 316											
Fig 316											

B			
Stiffy I.D.	For reference only		
	GRC/PVC/ENT	PVC Coated Rigid	
*01 .875"	1/2" (.84 OD)		
*02 1.125"	3/4" (1.05" OD)		
*03 1.375"		3/4" (1.13" OD)	
*04 1.50"	1" (1.32" OD)	1" (1.4" OD)	
*05 1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)	
*06 2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)	
*07 2.50"	2" (2.38" OD)	2" (2.46" OD)	
*08 3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)	
*09 3.625"	3" (3.5" OD)	3" (3.58" OD)	
*10 4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)	
*11 4.625"	4" (4.5" OD)	4" (4.58" OD)	
*12	Other-Specify Size		
Footnotes:			
• Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.			
• 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.			
• 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.			



D	
Footprint	
*01	Stiffy Sock
*02	Stiffy Loop



Application Examples



Before the concrete is poured



After the concrete is poured



Before the concrete is poured



After the concrete is poured

Fig. 316

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS



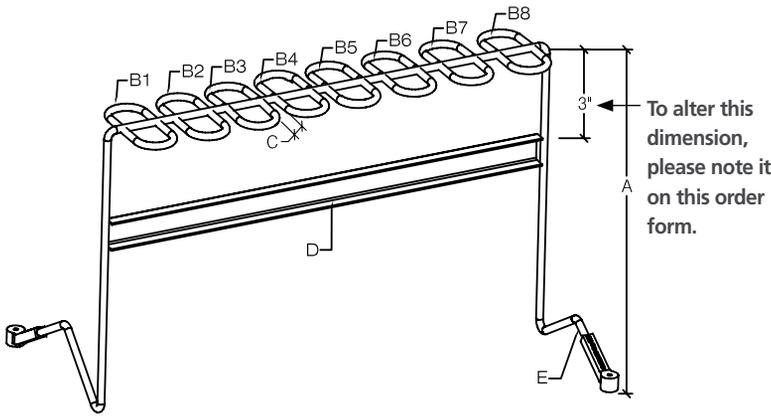
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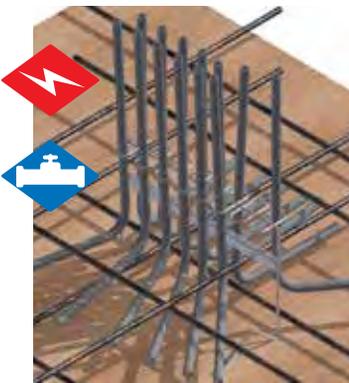


Fig. 317

Stiffy Snap-in Back-to-Back CIP Trapeze



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for pipes and conduits in concrete decks prior to the pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Barely noticeable from below after forms are removed
- Works great in Post-Tension Decks to keep pipes away from Cables
- Eliminates the need to support from rebar or plastic chairs that break
- Support can extend above the concrete pour to protect the pipe
- Constructed with Zinc Coated Rod to Resist Corrosion



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B1	B2	B3	B4	B5	B6	B7	B8	C	D	E	Qty
Fig 317													
Fig 317													
Fig 317													

A Height (Inches)	B		C Spacing (1/2" min to fit Couplings)	D Crossbrace	E Footprint	
	Stiffy I.D.	For reference only GRC/PVC/ENT PVC Coated Rigid			*01 Stiffy Loop	*02 Stiffy Sock
*01 1.125"	.875"	1/2" (.84 OD)		*01 Channel		
*02 1.375"	1.125"	3/4" (1.05" OD)		*02 Rod Crossbar		
*03 1.50"	1.375"	1" (1.32" OD)				
*04 1.75"	1.50"	1" (1.32" OD)				
*05 2.125"	1.75"	1-1/4" (1.66" OD)				
*06 2.50"	2.125"	1-1/2" (1.9" OD)				
*07 3.00"	2.50"	2" (2.38" OD)		*03 2 Rod Crossbar	*03 Dual Loop	*04 Dual Sock
*08 3.625"	3.00"	2-1/2" (2.88" OD)				
*09 4.125"	3.625"	3" (3.5" OD)				
*10 4.625"	4.125"	3-1/2" (4" OD)		*04 2 Channel Crossbar		
*11 4.625"	4.625"	4" (4.5" OD)				
*12	Other-Specify Size					

Footnotes:

- Snap in style conduit supports are used for 1/2" and 3/4" GRC/PVC/ENT
- Conduit Clips are used for 1" GRC/PVC/ENT and larger
- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Fig. 317

Real World Job-site Innovation

Job Site Problem

Stiffy Solution

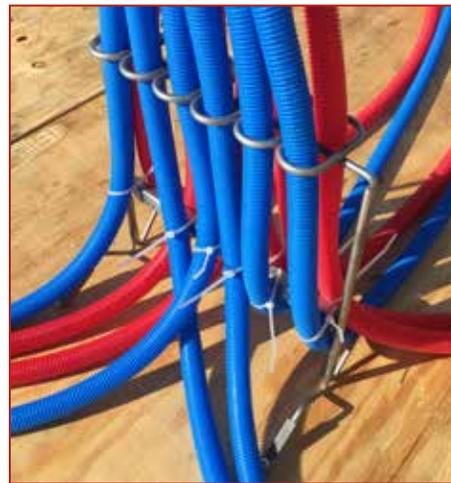
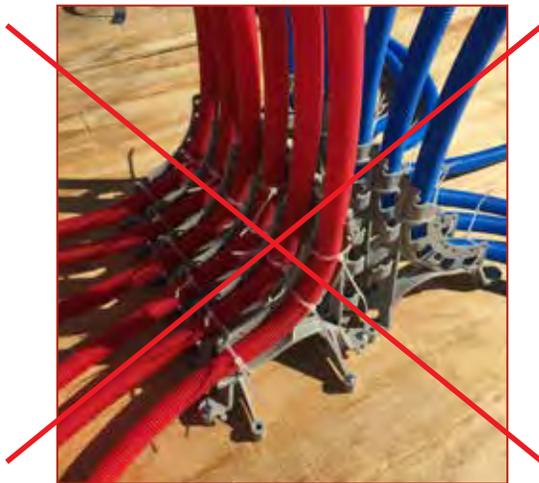
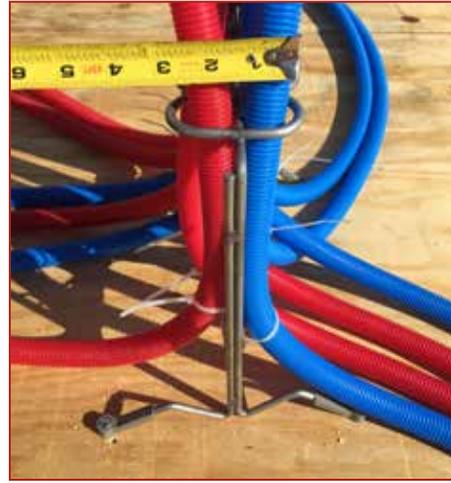
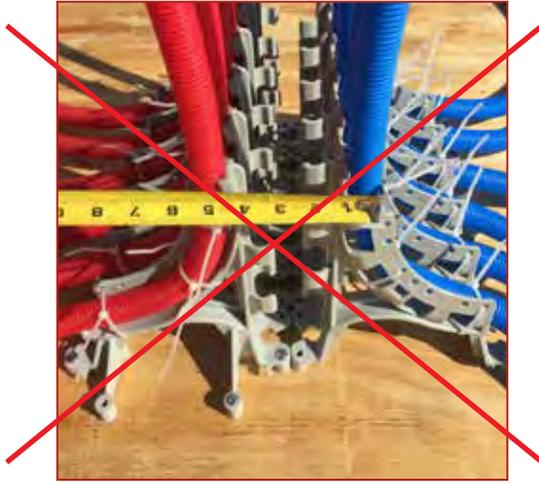


Fig. 317

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

	Job Site Problem	Stiffy Solution
How many pipes and fit within a 3-5/8" x 16" stud bay? (1/2" Pre-Sleeve Pex or 3/4" ENT)	7	18
Will two rows fit within a 3-5/8" wall?	No (6" wall required)	Yes
Provides a small footprint on the deck?	No	Yes
Available in different dimensions to accommodate project requirements?	No	Yes
Can be ordered for multiple pipe/conduit sizes?	No	Yes
Pipe and conduits can be fed into the support from any direction?	No	Yes



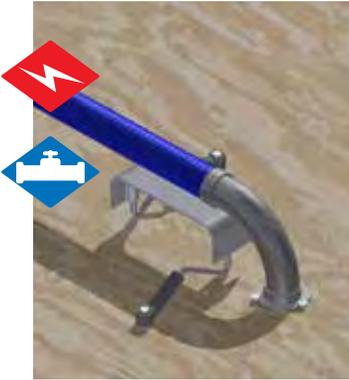
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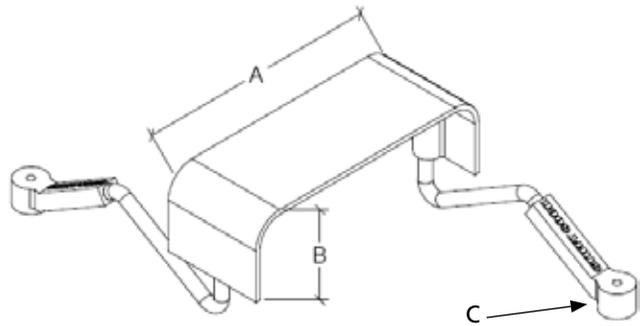
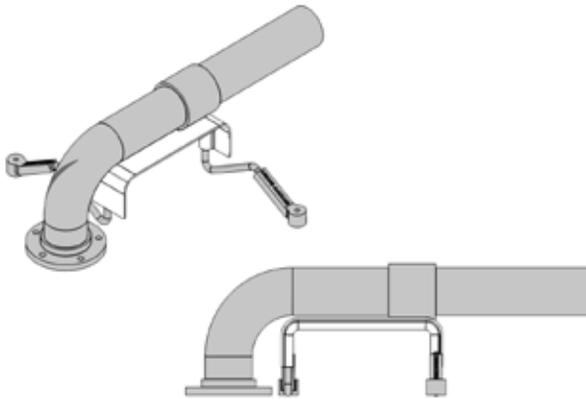


Fig. 320

CIP Stiffy Street 90 Support



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for 90° Street elbows in concrete decks prior to the pour
- Eliminates broken plastic fittings
- Eliminates the need to support from rebar or plastic chairs that break
- Barely noticeable from below after forms are removed
- Constructed with Zinc Coated Rod to Resist Corrosion



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



A	B	C
Width (Inches)	Height (Inches) or Red Dot 90° Size	Footprint
		*01 Stiffy Sock
	*01 3/4" Red Dot 90°	
	*02 1" Red Dot 90°	
		*02 Stiffy Loop

	A	B	C	Qty
Fig 320				
Fig 320				
Fig 320				

****When ordering Red Dot® 90° supports input 01 or 02.**

Fig. 320

Application Examples

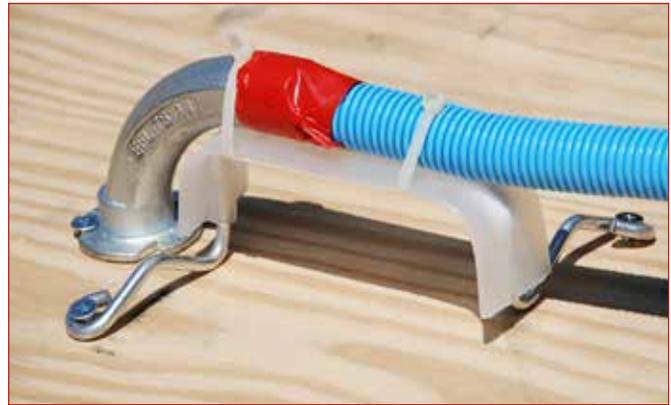


Fig. 320

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



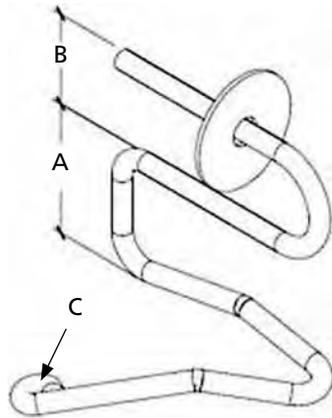
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 321

Cast-in-Place Stiffy Billy Chair Support



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for 90° Street elbows in concrete decks prior to the pour
- Eliminates broken plastic fittings
- Eliminates the need to support from rebar or plastic chairs that break
- Barely noticeable from below after forms are removed
- Constructed with Zinc Coated Rod to Resist Corrosion

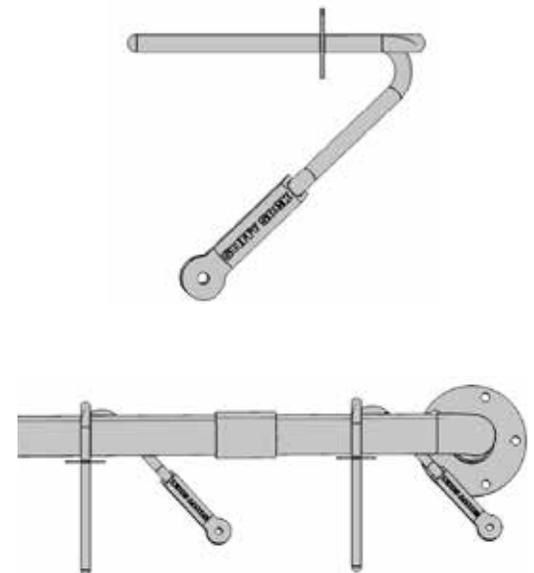
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



Stiffy I.D.	B		Footprint
	For reference only		
	GRC/PVC/ENT	PVC Coated Rigid	
*01 .875"	1/2" (.84 OD)		*01 Stiffy Sock
*02 1.125"	3/4" (1.05" OD)		
*03 1.375"		3/4" (1.13" OD)	
*04 1.50"	1" (1.32" OD)	1" (1.4" OD)	
*05 1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)	
*06 2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)	
*07 2.50"	2" (2.38" OD)	2" (2.46" OD)	
*08 3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)	
*09 3.625"	3" (3.5" OD)	3" (3.58" OD)	
*10 4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)	
*11 4.625"	4" (4.5" OD)	4" (4.58" OD)	
*12 Other-Specify Size			

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



	A-Height (In.)	B-Opening	C	Qty
Fig 321				
Fig 321				
Fig 321				

Fig. 321

Application Examples



Fig. 321

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



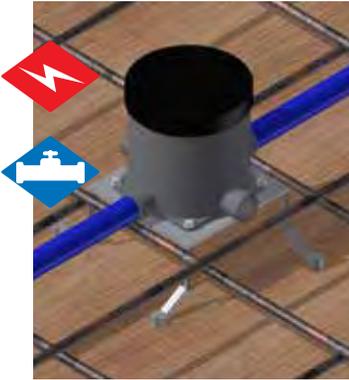
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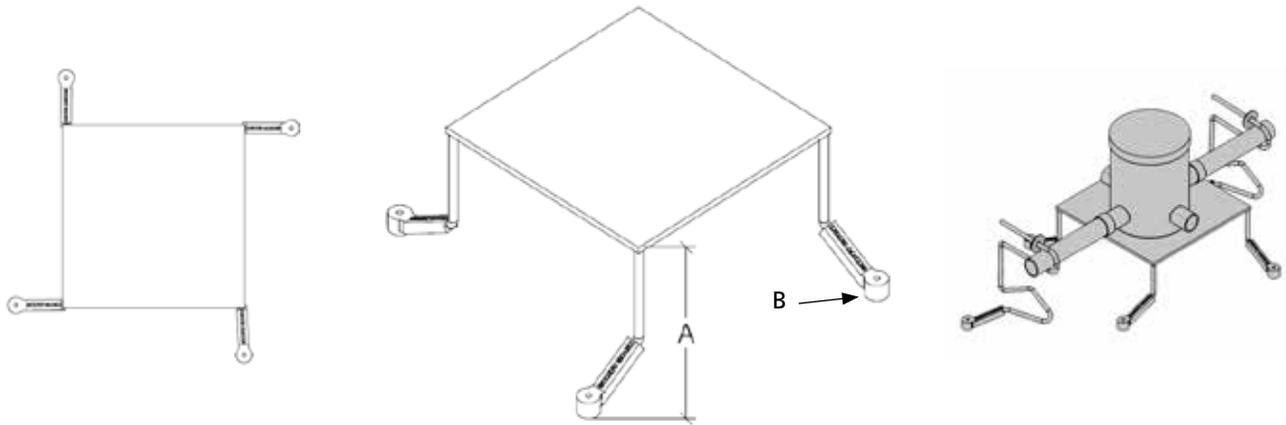


Fig. 322

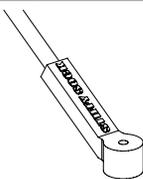
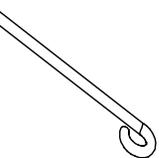
Stiffy Table Top "Turtle" Box Support



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Reduces exposed metal when the forms are removed
- Provides rigid support for floor boxes in decks prior to the pour
- Select the table elevation so the box is at the finished floor level
- Offers many additional uses
- Table top is 7" x 7" x 1/8" thick standard. Custom sizes available.
- Eliminates the need to support from rebar or plastic chairs that break.
- Barely noticeable from below after forms are removed
- Constructed with Zinc Coated Rod to Resist Corrosion after forms are removed



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

A	B
Height (In.)	Footprint
	*01 Stiffy Sock
	
	*02 Stiffy Loop
	

	A	B	Qty
Fig 322			
Fig 322			
Fig 322			
The standard dimension of the table top is 7" x 7". Custom sizes are available. Please specify.			



Application Examples



Fig. 322

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



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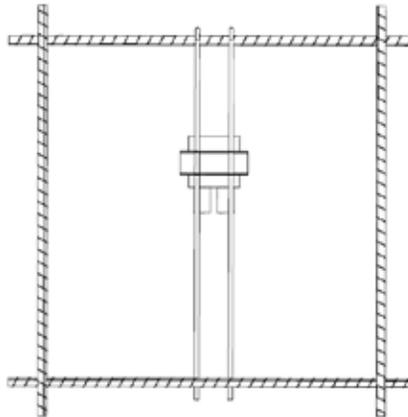
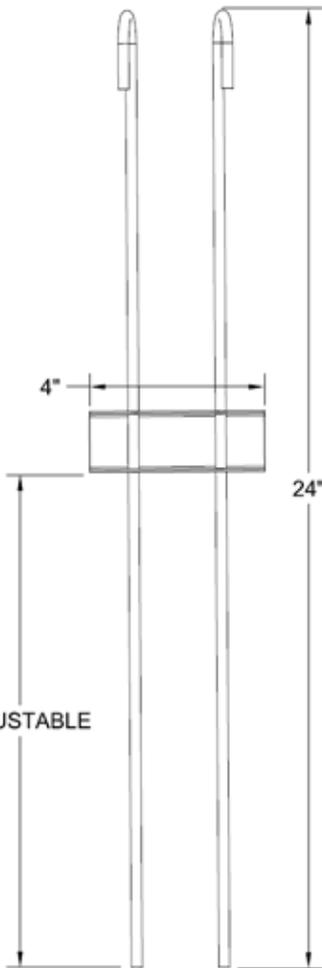


Fig. 323

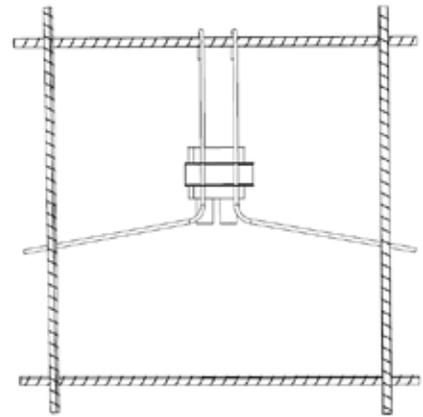
Stiffy Wall Box Support



- Ideal solution for installing boxes in shotcrete or gunite walls when forms are not used.
- Provides rigid support for boxes in walls prior to the pour.
- Stiffy legs create spring pressure forcing the box against the concrete form ensuring a clean finished installation.
- Universal design enables the boxes to be supported with no consideration for the rebar.
- Can be mounted both before and after the forms have been installed.
- Eliminates the need to support boxes from inconsistent rebar or drill forms.



Step 1:
Hook the Stiffy to rebar and adjust the elevation of the box.



Step 2:
Spread the legs to set the elevation and use tie wire to secure in place.

	Qty
Fig 323	
Fig 323	
Fig 323	



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

Application Examples



Fig. 323

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

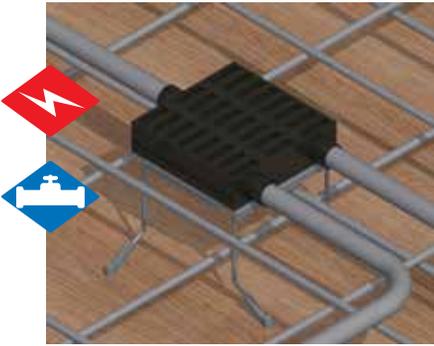
 MECHANICAL/PLUMBING APPLICATIONS



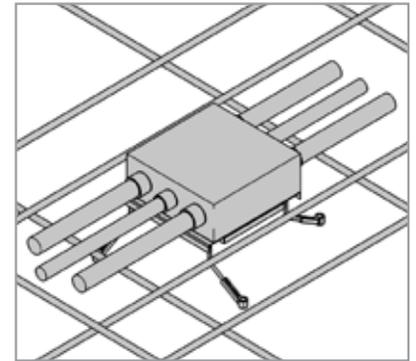
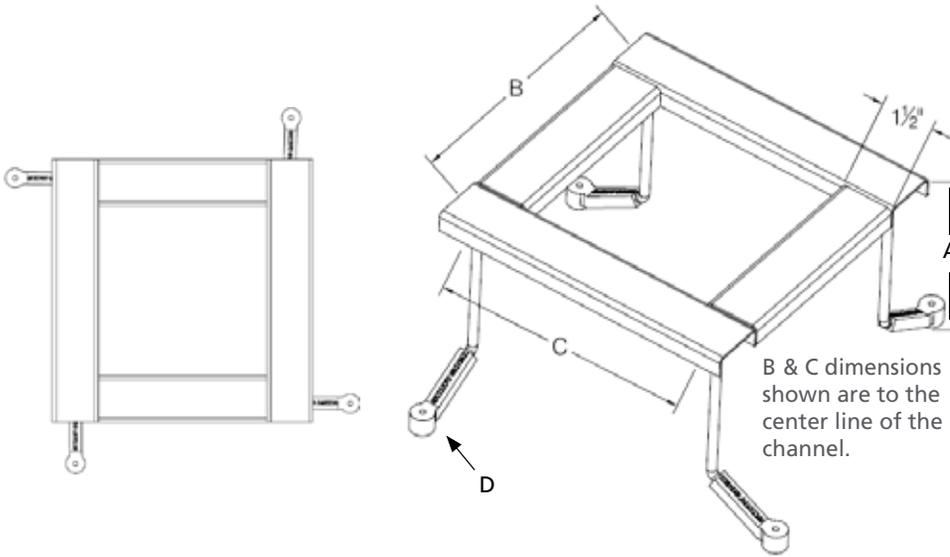
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Fig. 324

Stiffy Cast-in-Place Channel Box Support



- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Provides rigid support for floor boxes in decks prior to the pour
- Select the table elevation so the box is at the finished floor level
- Offers many additional uses
- 16g channel mounting surface can be ordered any size.
- Eliminates the need to support from rebar or plastic chairs that break.
- Barely noticeable from below after forms are removed
- Angled feet minimize metal on deck
- Constructed with Zinc Coated Rod to Resist Corrosion after forms are removed



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



A	B	C	B
Height (In.)	Width (In.)	Width (In.)	Footprint
			*01 Stiffy Sock
			*02 Stiffy Loop

	A	B	C	D	Qty
Fig 324					
Fig 324					
Fig 324					

Application Examples



Fig. 324

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



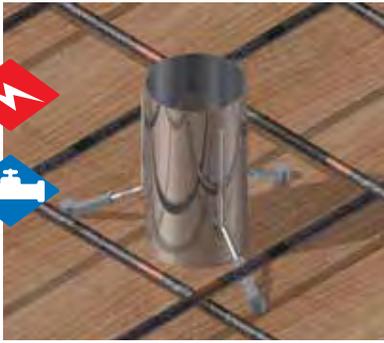
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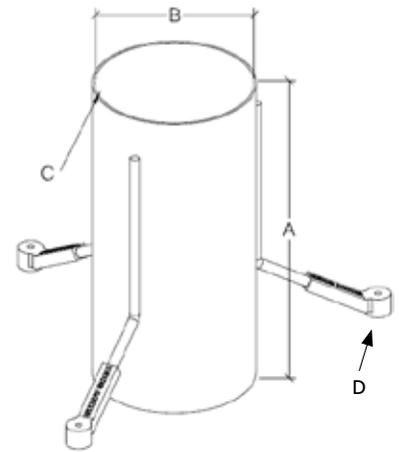
Fig. 330

Stiffy Cast-in-Place Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Offers many additional uses
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Eliminates rework and reinforcement when using thin deck sleeves



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	C	D	Qty
Fig 330					
Fig 330					
Fig 330					



A	B		C		D	
Overall Height	Opening Size I.D.		End Caps		Footprint	
	*01	1" (1.049" ID)	*00	No End Caps	*01	Stiffy Sock
	*015	1 1/2" (1.610" ID)	*01	End Cap on Top ^{1,2}		
	*02	2" (2.067" ID)	*02	End Cap on Bottom ^{1,2}		
	*025	2 1/2" (2.731" ID)	*03	End Cap on Both Ends ^{1,2}		
	*03	3" (3.356" ID)	Footnotes: 1- Plastic End Caps are used for 1" through 4" I.D. 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.		*02	Stiffy Loop
	*04	4" (4.334" ID)				
	*05	5" (4.8125" ID)				
	*06	6" (5.8125" ID)				
	*07	7" (6.8125" ID)				
	*08	8" (7.8125" ID)				
	*09	9" (8.8125" ID)				
	*10	10" (9.8125" ID)				
	*11	11" (10.8125" ID)				
	*12	12" (11.8125" ID)				
	*13	Other—Please specify				

Fig. 330

Application Examples

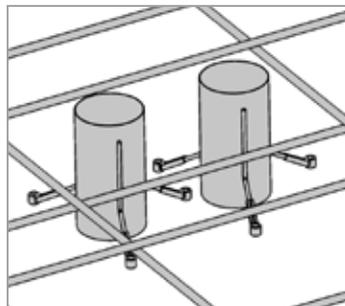
Fig. 330



 ELECTRICAL/LOW VOLTAGE APPLICATIONS



 MECHANICAL/PLUMBING APPLICATIONS



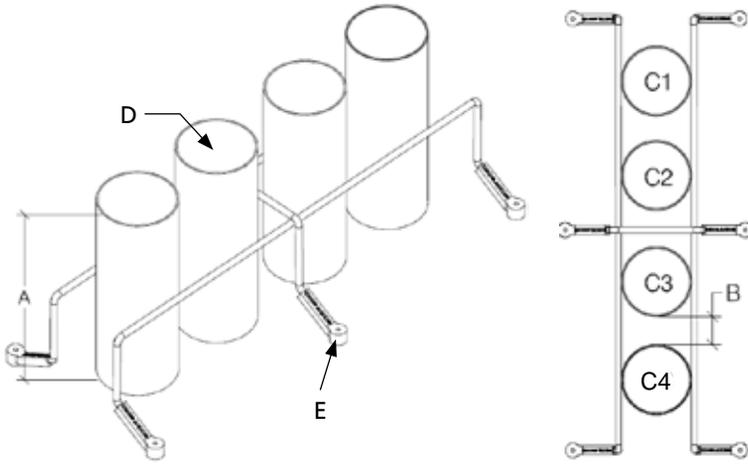
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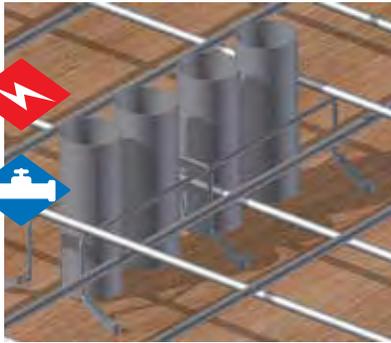
Fig. 331

Stiffy Single Row CIP Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

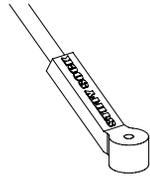
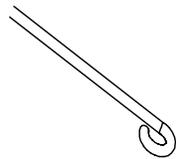
- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Prefabricated deck sleeve template provides a quick layout solution for through penetrations
- Sleeve size and spacing can be customized to fit any project condition
- Additional sleeves can be added to the line-up
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Eliminates rework and reinforcement when using thin deck sleeves



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B	C1	C2	C3	C4	C5	C6	C7	C8	D	E	Qty
Fig 331													
Fig 331													
Fig 331													

*To reduce the number of cans required input N/A to any values that do not apply.

A	B	C		D		E	
Overall Height	Sleeve Spacing	Opening Size I.D.		End Caps		Footprint	
		*01	1" (1.049" ID)	*00	No End Caps	*01	Stiffy Sock
		*015	1 1/2" (1.610" ID)	*01	End Caps on Top ^{1,2}		
		*02	2" (2.067" ID)	*02	End Caps on Bottom ^{1,2}		
		*025	2 1/2" (2.731" ID)	*03	End Caps on Both Ends ^{1,2}		
		*03	3" (3.356" ID)				
		*04	4" (4.334" ID)				
		*05	5" (4.8125" ID)				
		*06	6" (5.8125" ID)				
		*07	7" (6.8125" ID)				
		*08	8" (7.8125" ID)				
		*09	9" (8.8125" ID)				
		*10	10" (9.8125" ID)				
		*11	11" (10.8125" ID)				
		*12	12" (11.8125" ID)				
		*13	Other—Please specify				
						*02	Stiffy Loop
							

Footnotes:
 1- Plastic End Caps are used for 1" through 4" I.D.
 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.



Fig. 331

Application Examples



Fig. 331

 ELECTRICAL/LOW VOLTAGE APPLICATIONS



 MECHANICAL/PLUMBING APPLICATIONS



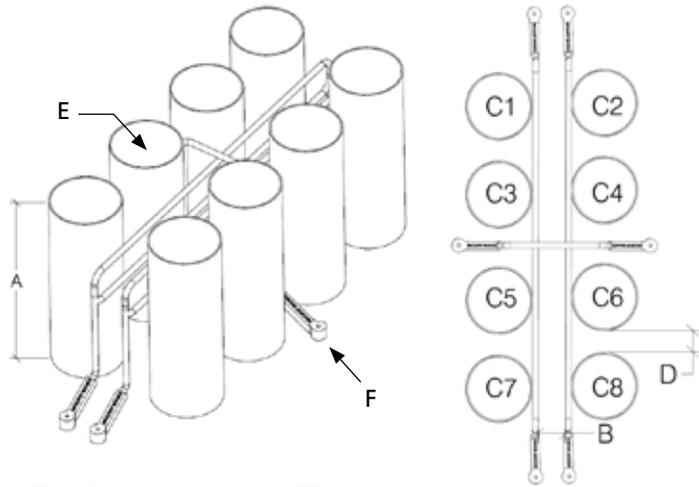
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Fig. 332

Stiffy Double Row CIP Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

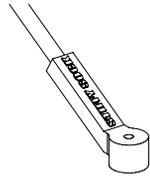
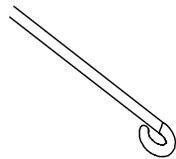
- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Sleeve size and spacing can be customized to fit any project condition
- Additional sleeves can be added to the line-up
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Eliminates rework and reinforcement when using thin deck sleeves



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B	C1	C2	C3	C4	C5	C6	C7	C8	D	E	F	Qty
Fig 332														
Fig 332														
Fig 332														

*To reduce the number of cans required input N/A to any values that do not apply.

A	B	C		D		E	
Overall Height	Sleeve Spacing	Opening Size I.D.		End Caps		Footprint	
		*01	1" (1.049" ID)	*00	No End Caps	*01	Stiffy Sock
		*015	1 1/2" (1.610" ID)	*01	End Caps on Top ^{1,2}		
		*02	2" (2.067" ID)	*02	End Caps on Bottom ^{1,2}		
		*025	2 1/2" (2.731" ID)	*03	End Caps on Both Ends ^{1,2}		
		*03	3" (3.356" ID)				
		*04	4" (4.334" ID)				
		*05	5" (4.8125" ID)				
		*06	6" (5.8125" ID)				
		*07	7" (6.8125" ID)				
		*08	8" (7.8125" ID)				
		*09	9" (8.8125" ID)				
		*10	10" (9.8125" ID)				
		*11	11" (10.8125" ID)				
		*12	12" (11.8125" ID)				
		*13	Other—Please specify				
						*02	Stiffy Loop
							

Footnotes:
 1- Plastic End Caps are used for 1" through 4" I.D.
 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.



Application Examples

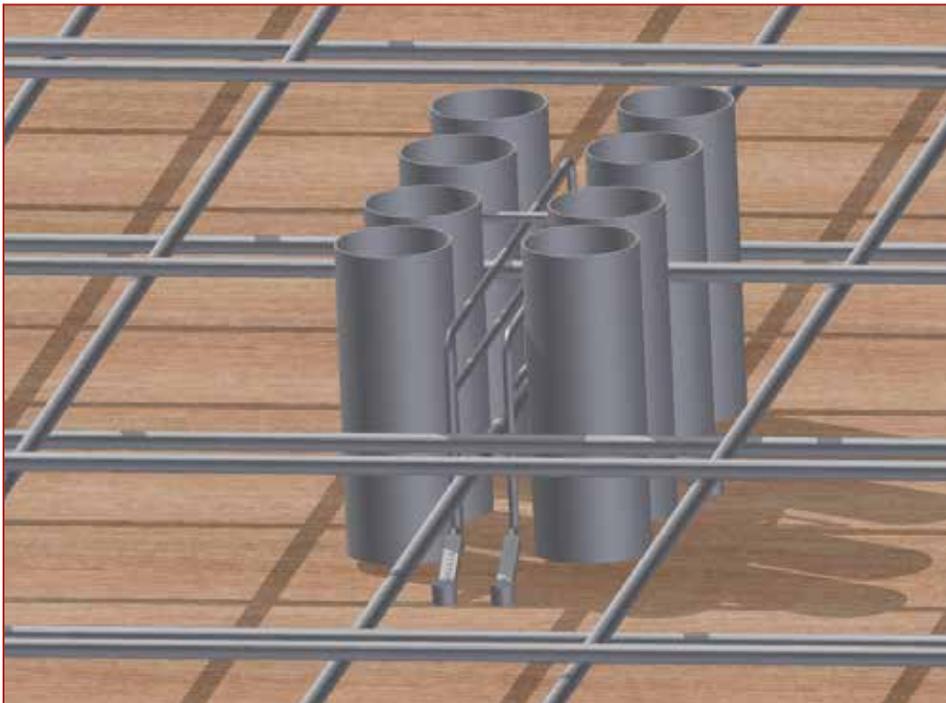
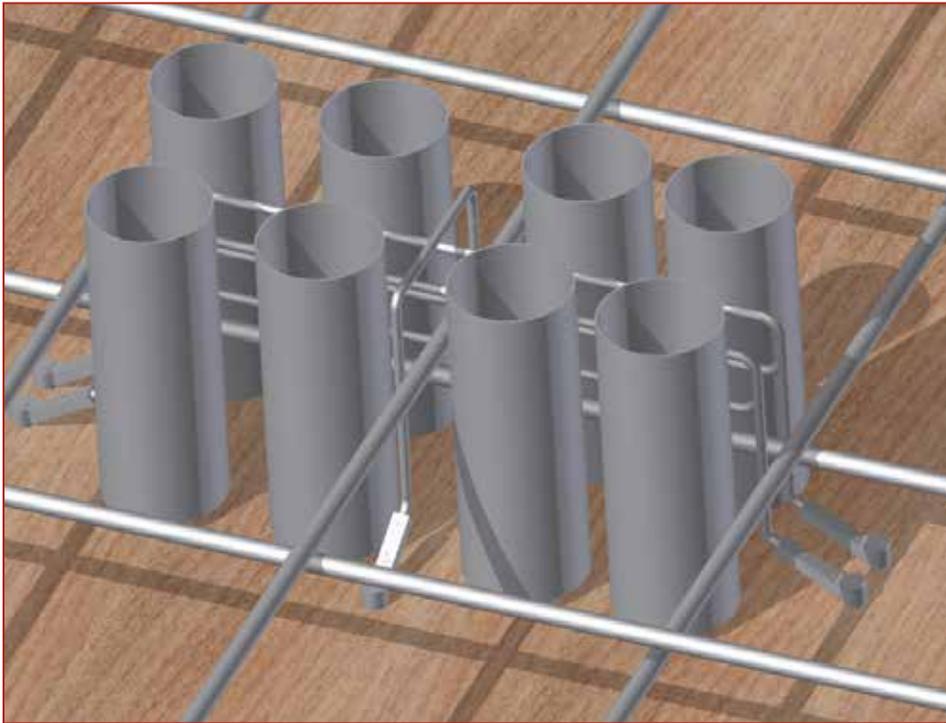


Fig. 352

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



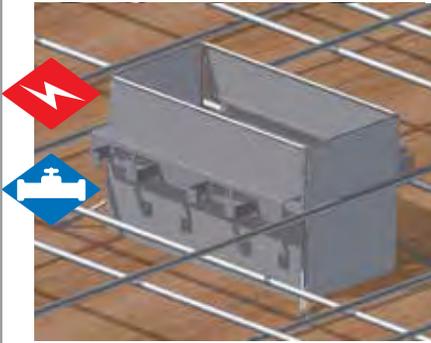
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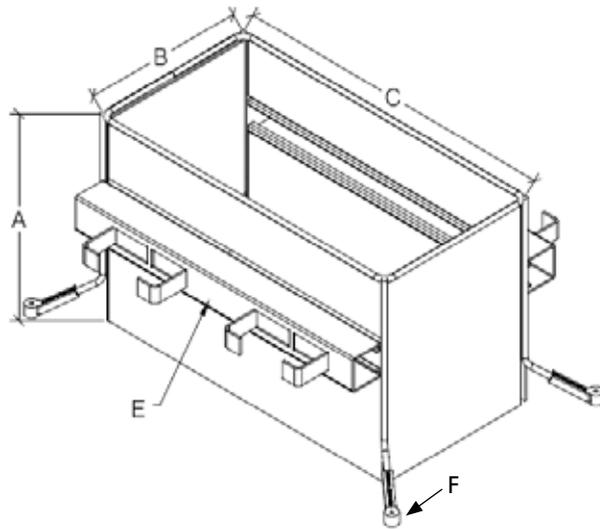
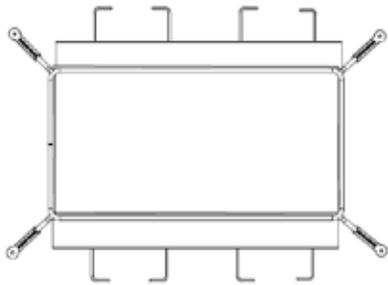


Fig. 333

Stiffy Cast-in-Place Strut Block Out



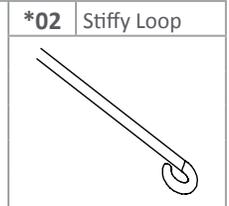
- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Stiffy Sock® plastic foot:
 - Provides a uniform opening to install fasteners
 - Eliminates exposed metal when the forms are removed
- Eliminates anchor edge distance issues when supporting risers
- Block Out size can be customized to fit any project condition
- Reinforced heavy gauge sheet metal resists abuse during concrete pours
- Reduces layout time
- Embedded strut simplifies shaft coordination issues



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



A	B	C	D		E		F
Height	Width	Length	End Caps		CIP Strut		Footprint
			*00	No End Caps	*00	No Strut	*01 Stiffy Sock
			*01	End Caps on Top	*01	Strut on All Sides	
			*02	End Caps on Bottom	*02	Strut on Both "B" Dimension Sides	
			*03	End Caps on Both Ends	*03	Strut on One "B" Dimension Side	
					*04	Strut on Both "C" Dimension Sides	
					*05	Strut on One "C" Dimension Side	



	A	B	C	D	E	F	Qty
Fig 333							
Fig 333							
Fig 333							

Fig. 333

Application Examples

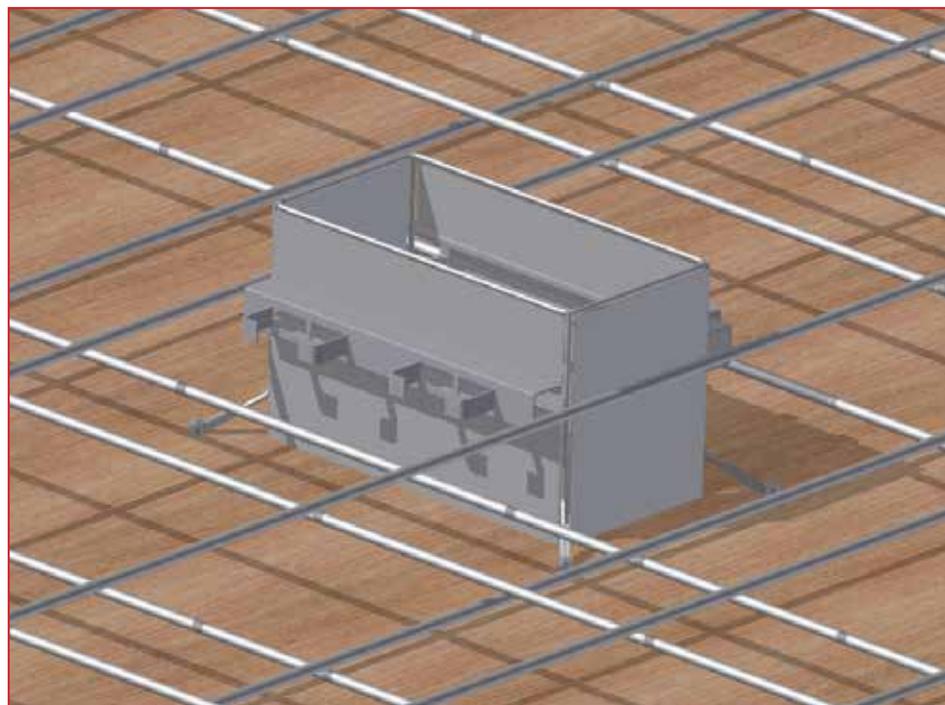
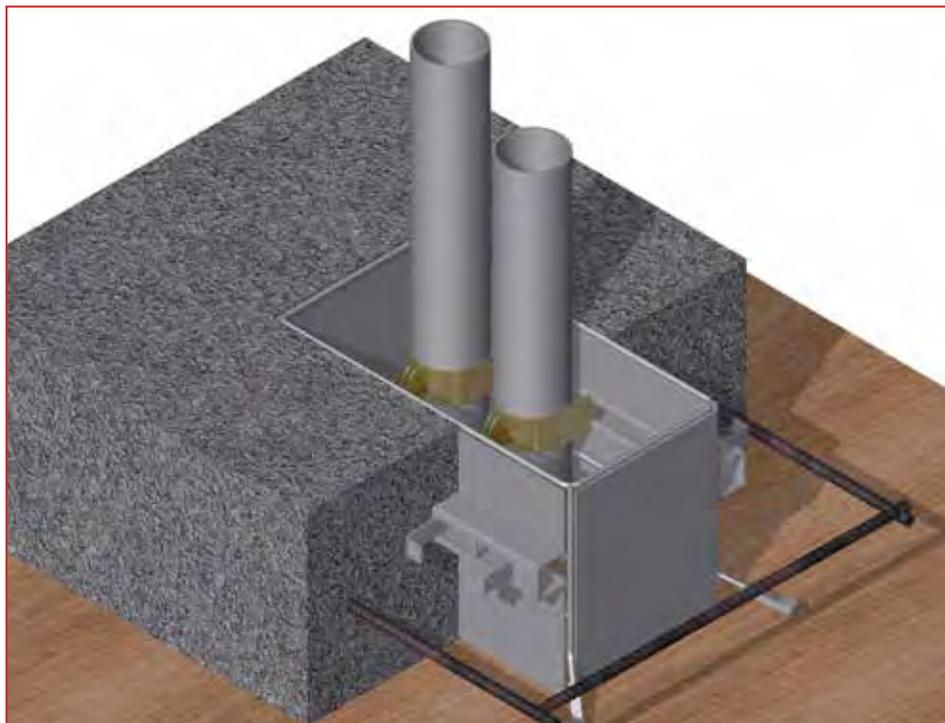


Fig. 333



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



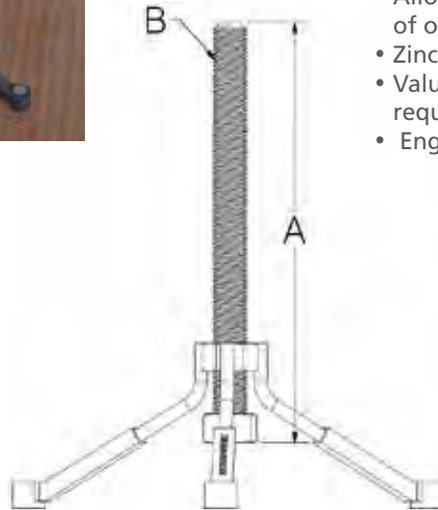
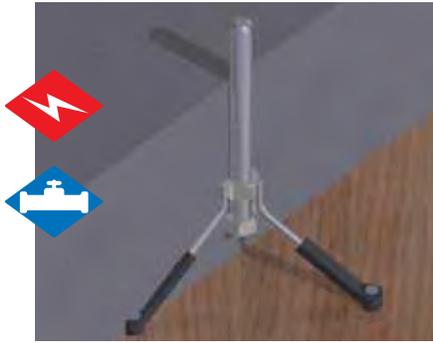
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Fig. 336

Stiffy Anchor Bolt



- Provides a solid support for Anchor Bolts without tying off of rebar or using cheap plastic supports that break.
- Allows Anchor Bolts to be installed when the decks are clear of obstructions.
- Zinc plated rod for corrosion resistance.
- Values shown are calculated with Cracked Concrete per the requirements of ACI 318.
- Engineered submittal documents stamped by an engineer.



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B	QTY
Fig 336			
Fig 336			
Fig 336			

A	B	
Height	*01	3/8" Bolt
	*02	1/2" Bolt
	*03	5/8" Bolt
	*04	3/4" Bolt
	*05	7/8" Bolt
	*06	1" Bolt

Stiffy Cast-in-Place Anchor Bolt			
Anchor Dia	Min Concrete Thickness	Min Embed	Allowable Load
5/8"	8"	4"	5000
3/4"	9"	5"	5500
7/8"	9"	5"	5500
1"	10"	6"	7500

Footnotes:
 1 - Calculations based on 4000psi NWC
 2 - 8" minimum edge distance
 3 - Calculations performed take into consideration cracked concrete per ACI 318

Application Examples



Fig. 336

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



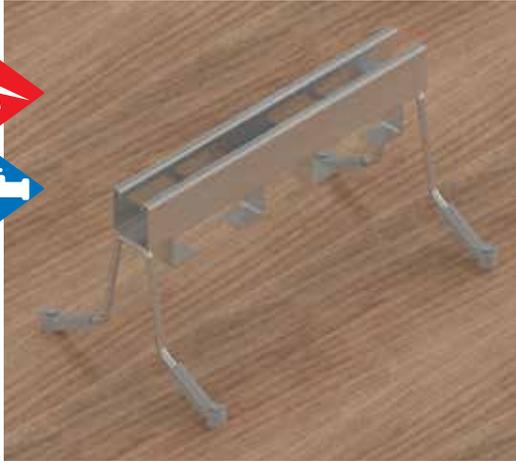
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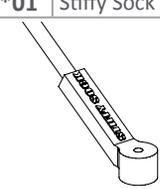
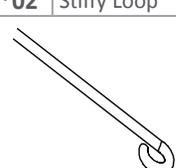


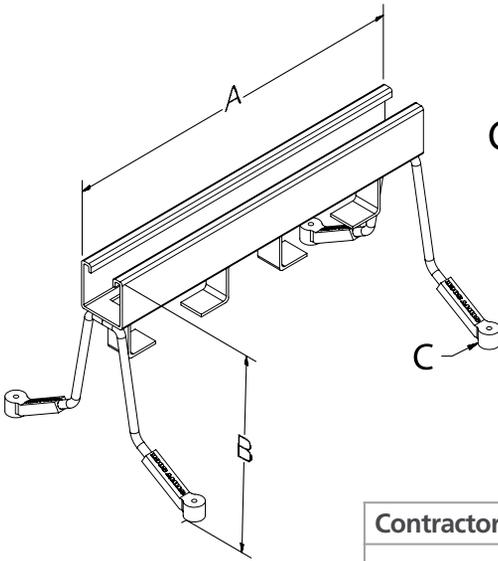
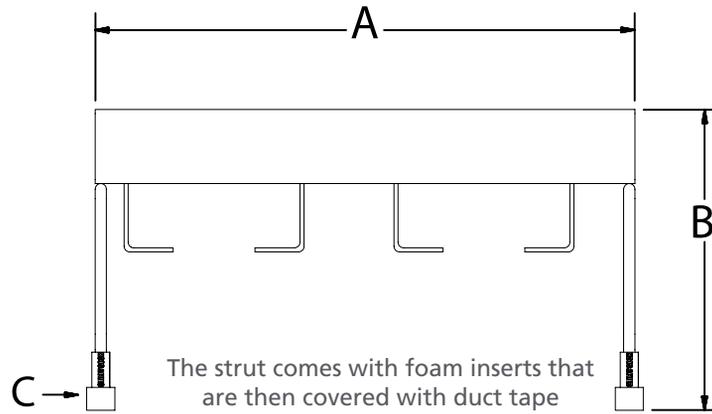
Fig. 337

Stiffy Cast-in-Place Strut Anchor

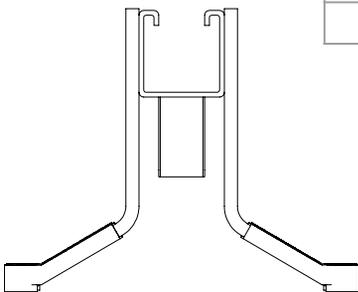


- Strut is finished out to the top of the concrete pour
- Quick solution for attaching stanchions or equipment
- Once the concrete cures simply remove the foam and use a strut nut and bolt to make connection
- Strut can be provided in lengths up to 20'

A	B	C
Length	Height	Footprint
		*01 Stiffy Sock
		
		*02 Stiffy Loop
		



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	



	A	B	C	Qty
Fig 337				
Fig 337				
Fig 337				

Application Examples



STEP 1



STEP 2



STEP 3



STEP 4

Fig. 337



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



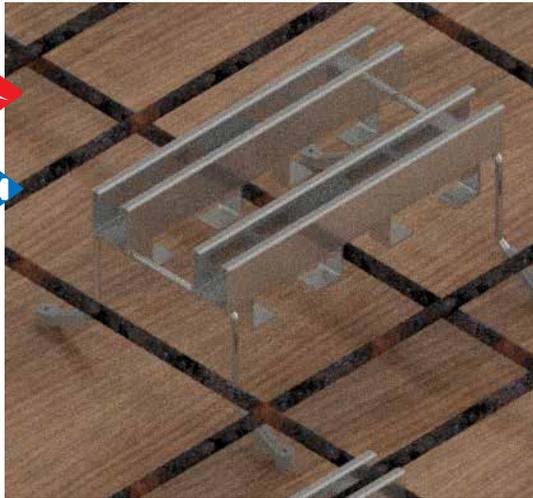
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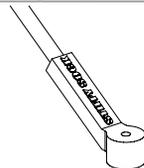
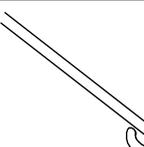


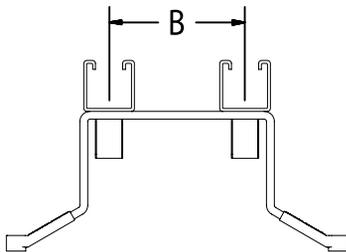
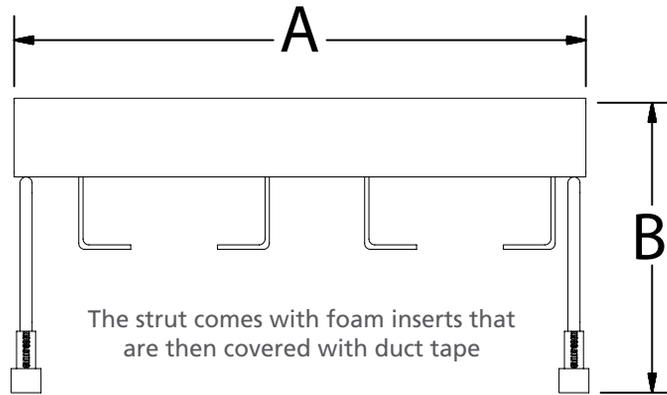
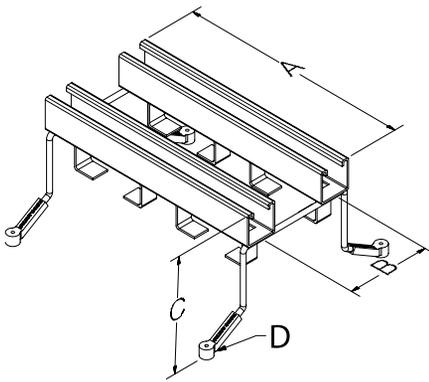
Fig. 338

Stiffy Cast-in-Place Double Strut Anchor



- Strut is finished out to the top of the concrete pour
- Quick solution for attaching stanchions or equipment
- Once the concrete cures simply remove the foam and use a strut nut and bolt to make connection
- Strut can be provided in lengths up to 20'

A	B	C	D
Length	Width	Height	Footprint
			*01 Stiffy Sock
			
			*02 Stiffy Loop
			



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A	B	C	D	Qty
Fig 338					
Fig 338					
Fig 338					



Application Examples



Fig. 338



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



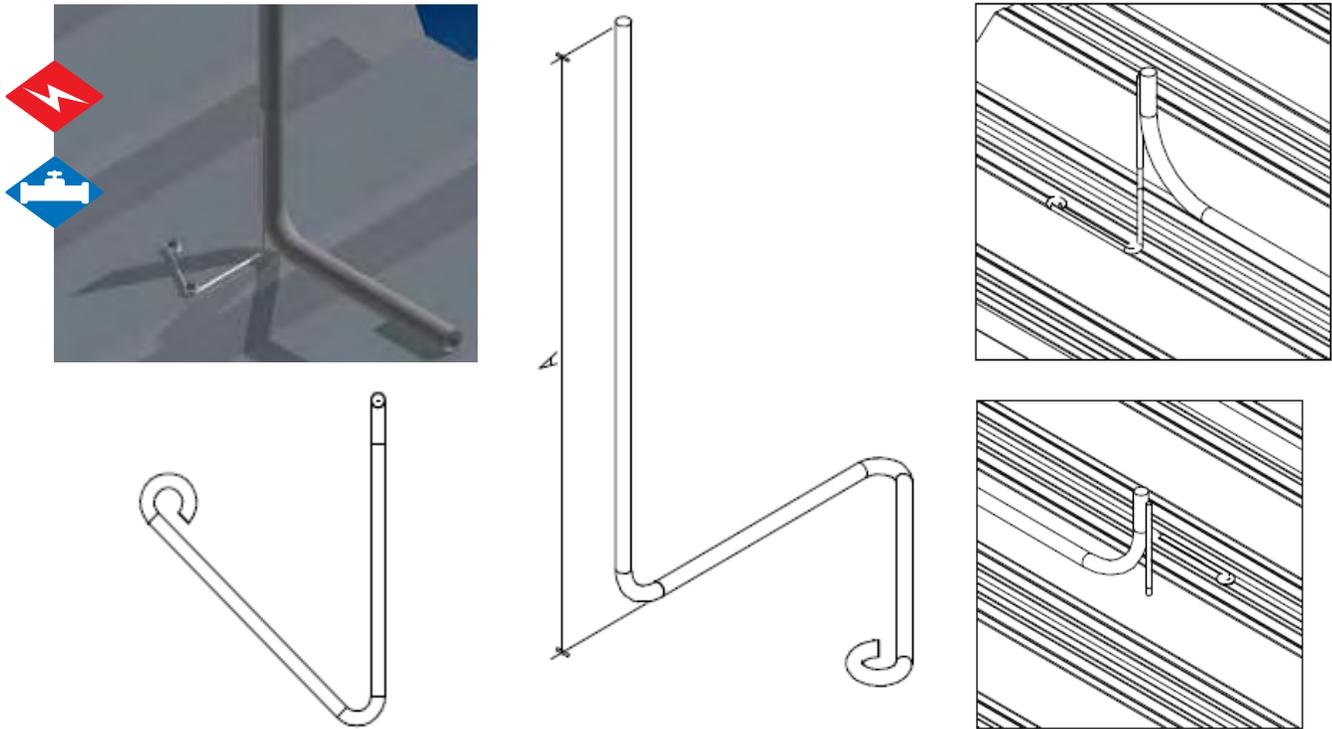
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Fig. 340

Steel Deck Stiffy Tree



- Provides rigid support for pipes and conduits in metal pan decks prior to the pour
- Supports 90° elbows that turn up into walls or transformers
- Supports cast-in-place risers
- Offers many additional uses

Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A-Height (In.)	Qty
Fig 340		
Fig 340		
Fig 340		



Application Examples



Fig. 340



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



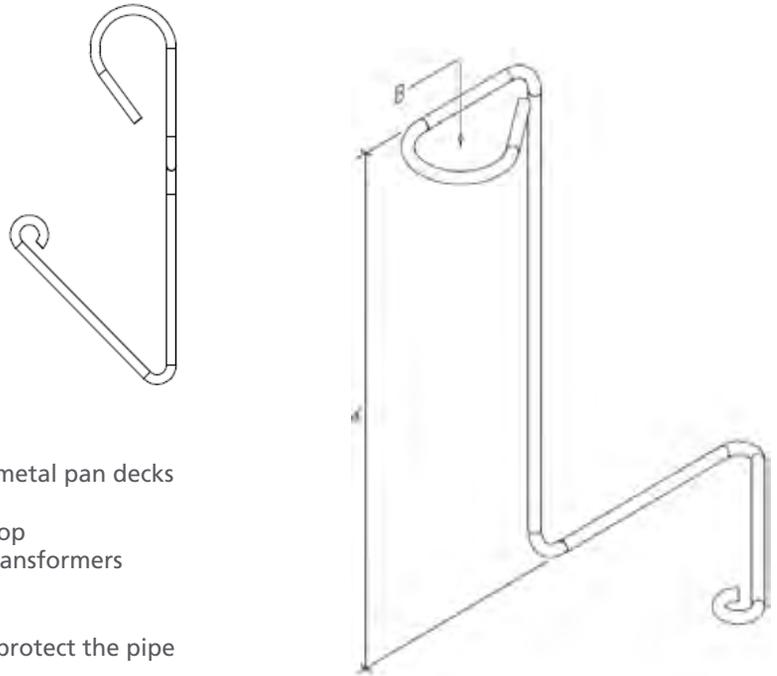
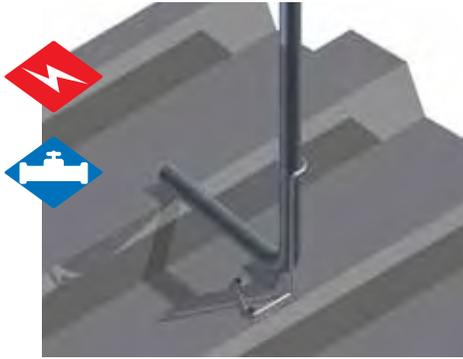
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 341

Steel Deck Stiffy Tree with Loop



- Provides rigid support for pipes and conduits in metal pan decks prior to the pour
- Support loop design eliminates restraint at the top
- Supports 90° elbows that turn up into walls or transformers
- Supports cast-in-place risers
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



Stiffy I.D.		B	
		For reference only	
		GRC/PVC/ENT	PVC Coated Rigid
*01	.875"	1/2" (.84 OD)	
*02	1.125"	3/4" (1.05" OD)	
*03	1.375"		3/4" (1.13" OD)
*04	1.50"	1" (1.32" OD)	1" (1.4" OD)
*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)
*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)
*07	2.50"	2" (2.38" OD)	2" (2.46" OD)
*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)
*09	3.625"	3" (3.5" OD)	3" (3.58" OD)
*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)
*11	4.625"	4" (4.5" OD)	4" (4.58" OD)
*12	Other-Specify Size		
Footnotes: <ul style="list-style-type: none"> • Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings. • 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D. • 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D. 			

	A-Height (In.)	B-Loop I.D.	Qty
Fig 341			
Fig 341			
Fig 341			

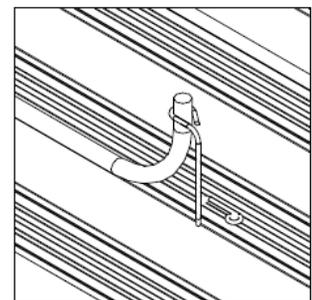
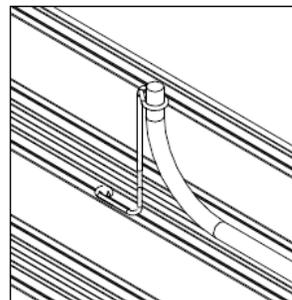


Fig. 341

Application Examples

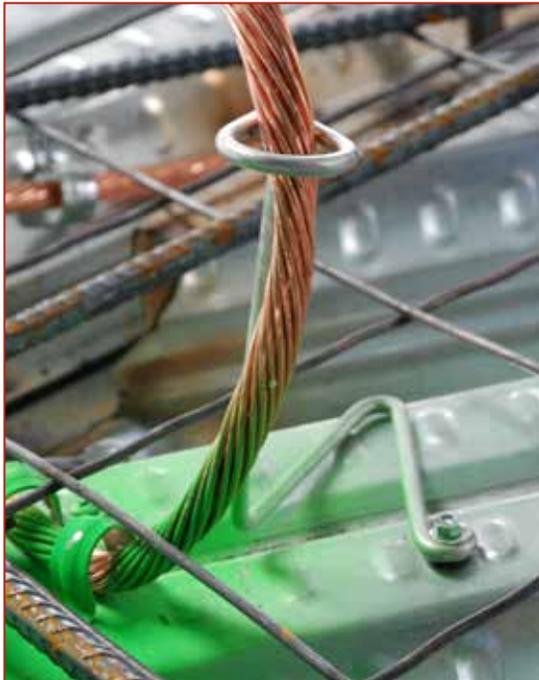


Fig. 341

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



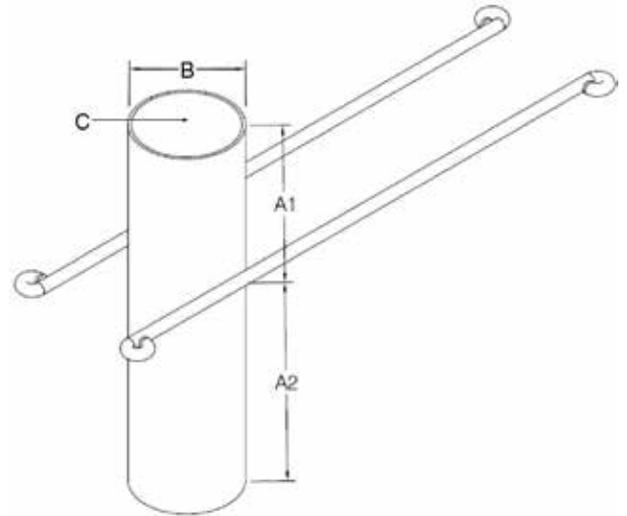
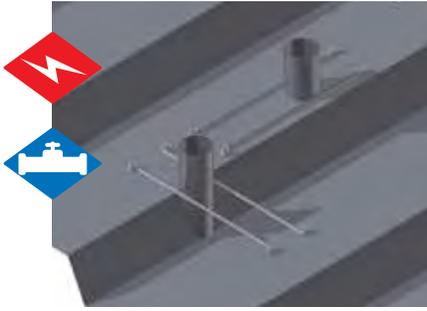
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 370

Stiffy Metal Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Offers many additional uses
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Eliminates rework and reinforcement when using thin deck sleeves
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Reduces layout time

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



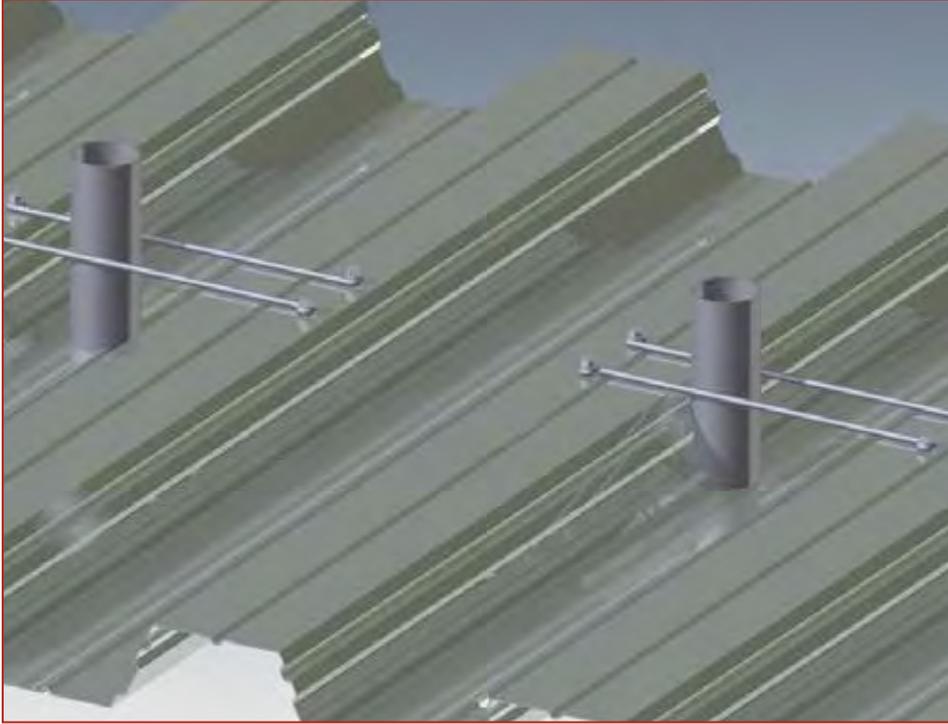
	A1	A2	B	C	Qty
Fig 370					
Fig 370					
Fig 370					



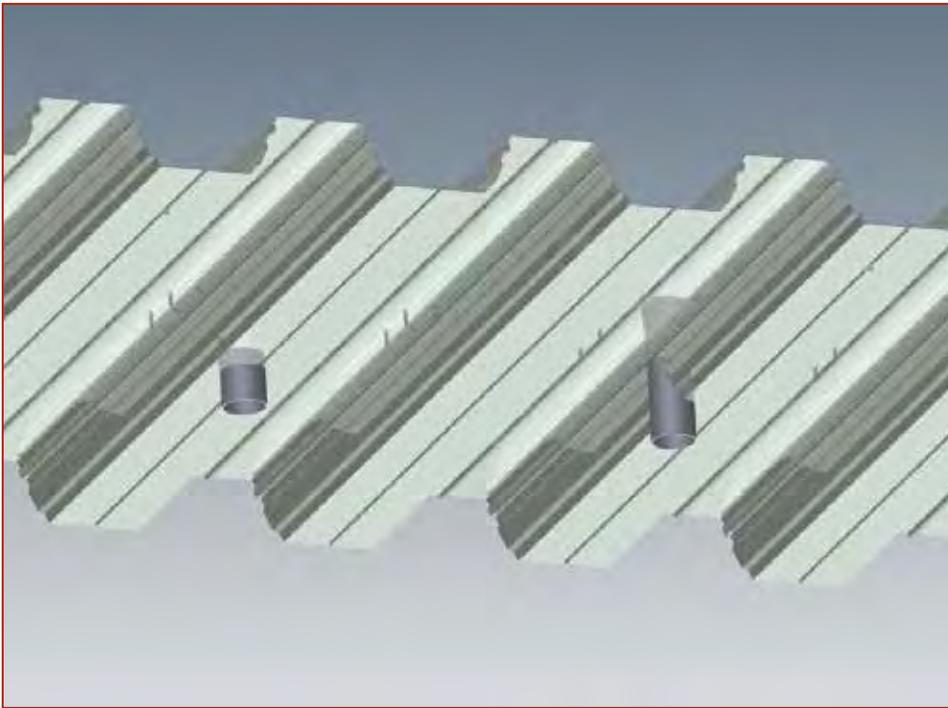
A1	A2	B		C	
Height Above Upper Flute	Height Below Upper Flute	Opening Size I.D.		End Caps	
		*01	1" (1.049" ID)	*00	No End Caps
		*015	1 1/2" (1.610" ID)	*01	End Caps on Top ^{1,2}
		*02	2" (2.067" ID)	*02	End Caps on Bottom ^{1,2}
		*025	2 1/2" (2.731" ID)	*03	End Caps on Both Ends ^{1,2}
		*03	3" (3.356" ID)	Footnotes: 1- Plastic End Caps are used for 1" through 4" I.D. 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.	
		*04	4" (4.334" ID)		
		*05	5" (4.8125" ID)		
		*06	6" (5.8125" ID)		
		*07	7" (6.8125" ID)		
		*08	8" (7.8125" ID)		
		*09	9" (8.8125" ID)		
		*10	10" (9.8125" ID)		
		*11	11" (10.8125" ID)		
		*12	12" (11.8125" ID)		
		*13	Other—Please specify		
*Angle iron can be used in lieu of rod to support the can into the deck if required by the project.					

Fig. 370

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



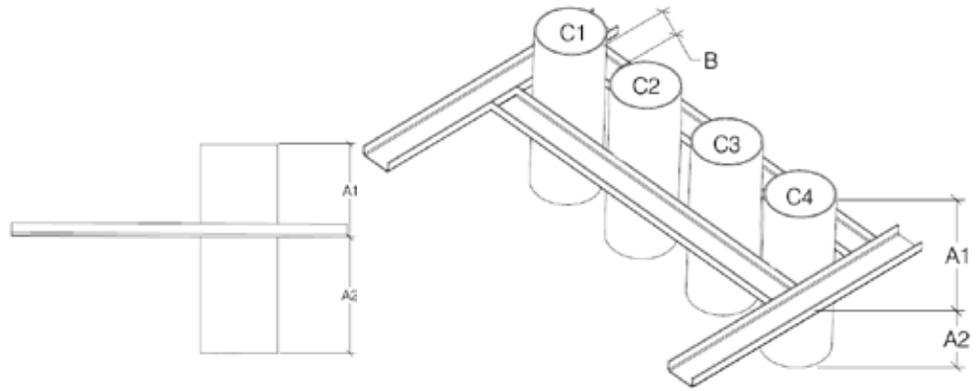
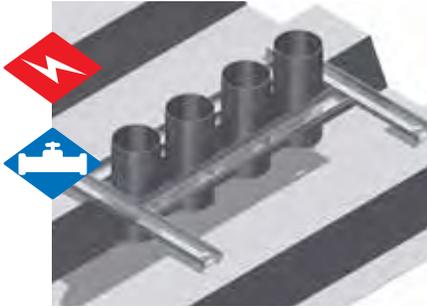
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!



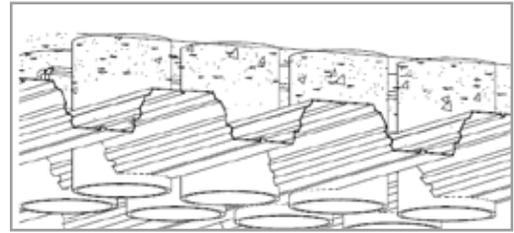
Fig. 371

Stiffy Single Row Metal Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

- Provides a secure sleeve in concrete decks for Mechanical, Plumbing and Electrical applications
- Offers many additional uses
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Eliminates rework and reinforcement when using thin deck sleeves
- Heavy Gauge Steel Sleeves resist abuse during concrete pours
- Reduces layout time



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



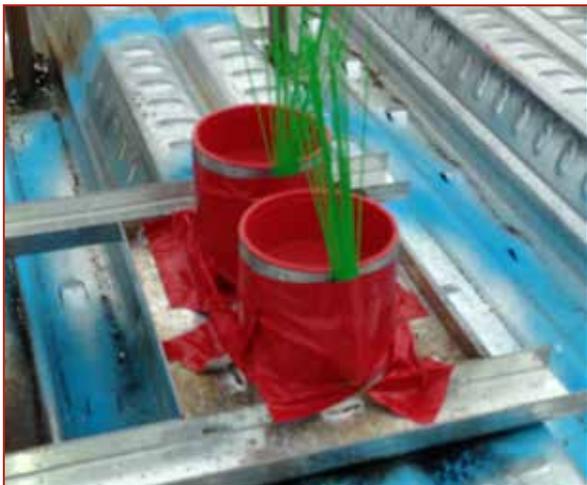
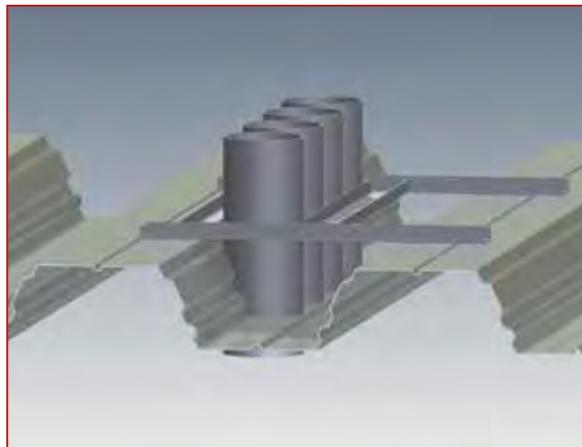
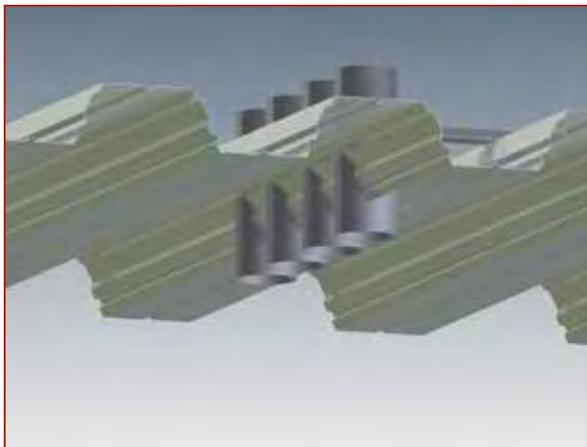
	A1	A2	B	C1	C2	C3	C4	C5	C6	C7	C8	D	Qty
Fig 371													
Fig 371													
Fig 371													

*To reduce the number of cans required input N/A to any values that do not apply.

A1	A2	B	C	D
Height Above Upper Flute	Height Below Upper Flute	Sleeve Spacing	Opening Size I.D.	End Caps
*Angle iron can be used in lieu of rod to support the can into the deck if required by the project.			*01 1" (1.049" ID)	*00 No End Caps
			*015 1 1/2" (1.610" ID)	*01 End Caps on Top ^{1,2}
			*02 2" (2.067" ID)	*02 End Caps on Bottom ^{1,2}
			*025 2 1/2" (2.731" ID)	*03 End Caps on Both Ends ^{1,2}
			*03 3" (3.356" ID)	Footnotes: 1- Plastic End Caps are used for 1" through 4" I.D. 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.
			*04 4" (4.334" ID)	
			*05 5" (4.8125" ID)	
			*06 6" (5.8125" ID)	
			*07 7" (6.8125" ID)	
			*08 8" (7.8125" ID)	
			*09 9" (8.8125" ID)	
			*10 10" (9.8125" ID)	
			*11 11" (10.8125" ID)	
		*12 12" (11.8125" ID)		
		*13 Other—Please specify		

Fig. 371

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



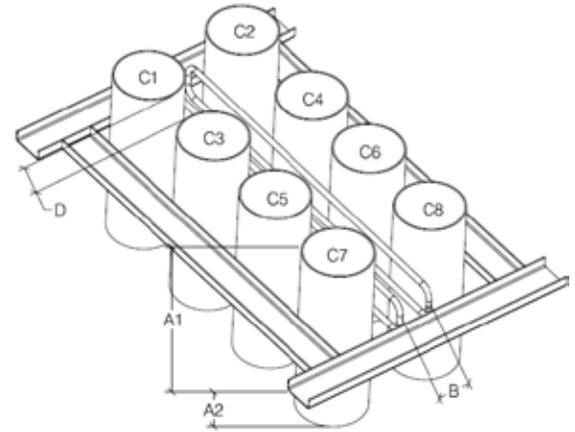
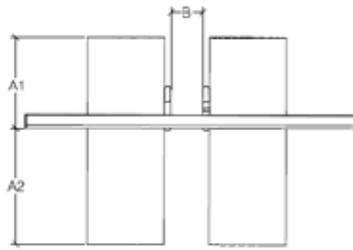
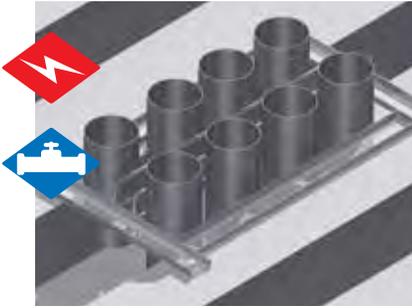
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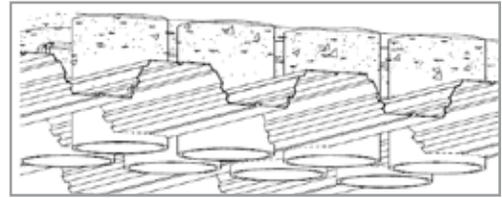
Fig. 372

Stiffy Double Row Metal Deck Sleeve



All Sleeves are Manufactured with a Minimum of 18g Steel

- Prefabricated deck sleeve template provides a quick layout solution for through penetrations
- Sleeve size and spacing can be customized to fit any project condition
- Additional sleeves can be added
- Steel channel frame allows the sleeves to be installed at any location onto metal deck
- Angle iron can be substituted for CRC channel in order to provide reinforcement for the metal deck



Contractor:						Ship to Address:					
PO#						Order Date:					
<p>**All Orders are Custom and Therefore Non-cancellable and Non-returnable</p>											

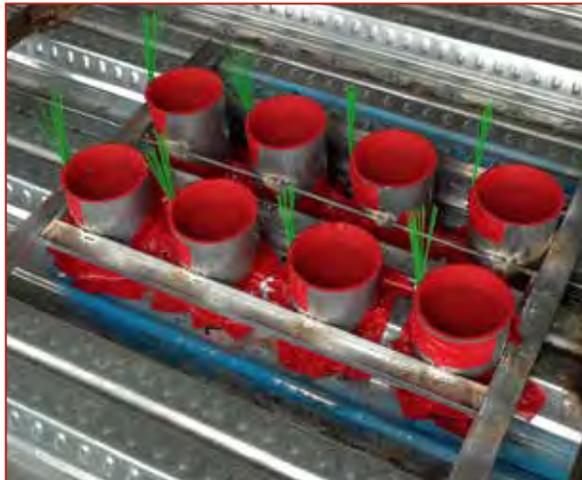
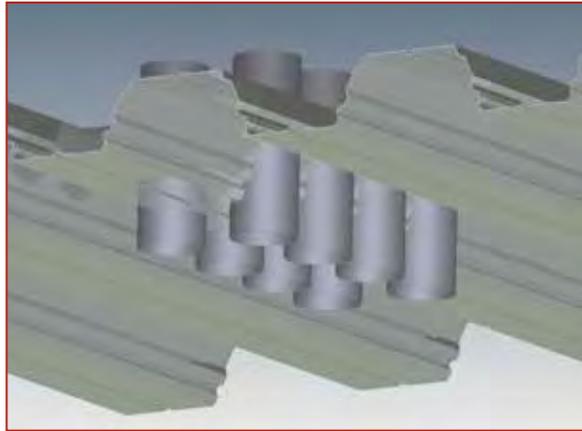
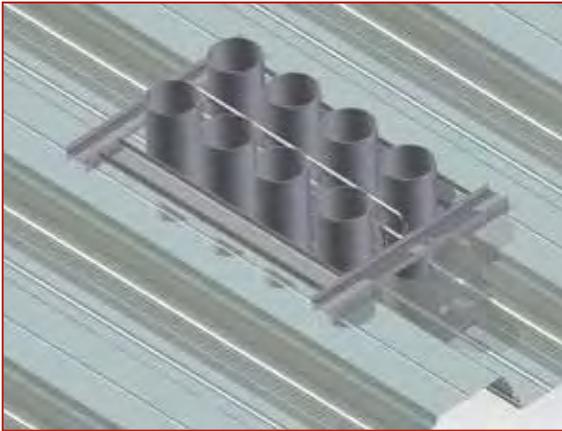
	A1	A2	B	C1	C2	C3	C4	C5	C6	C7	C8	D	E	Qty
Fig 372														
Fig 372														
Fig 372														

*To reduce the number of cans required input N/A to any values that do not apply.

A1	A2	B	C		D	E	
Height Above Upper Flute	Height Below Upper Flute	Sleeve Spacing Between Rows	Opening Size I.D.		Sleeve Spacing	End Caps	
<p>*Angle iron can be used in lieu of rod to support the can into the deck if required by the project.</p>			*01	1" (1.049" ID)		*00	No End Caps
			*015	1 1/2" (1.610" ID)		*01	End Caps on Top ^{1,2}
			*02	2" (2.067" ID)		*02	End Caps on Bottom ^{1,2}
			*025	2 1/2" (2.731" ID)		*03	End Caps on Both Ends ^{1,2}
			*03	3" (3.356" ID)		<p>Footnotes: 1- Plastic End Caps are used for 1" through 4" I.D. 2- Sleeves 5" and larger will be taped at the ends when end caps are requested.</p>	
			*04	4"(4.334" ID)			
			*05	5" (4.8125" ID)			
			*06	6" (5.8125" ID)			
			*07	7" (6.8125" ID)			
			*08	8" (7.8125" ID)			
			*09	9" (8.8125" ID)			
			*10	10" (9.8125" ID)			
			*11	11" (10.8125" ID)			
*12	12" (11.8125" ID)						
*13	Other—Please specify						

Fig. 372

Application Examples



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



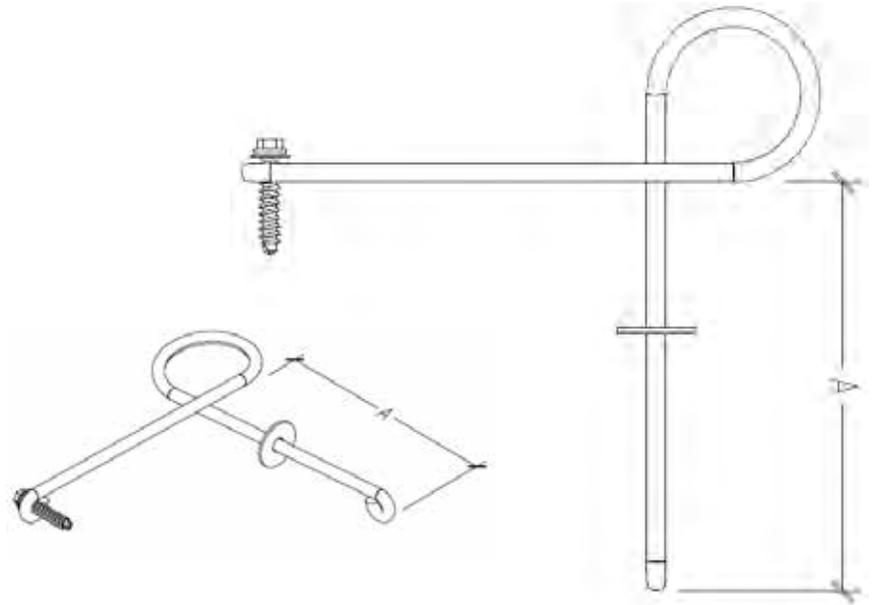
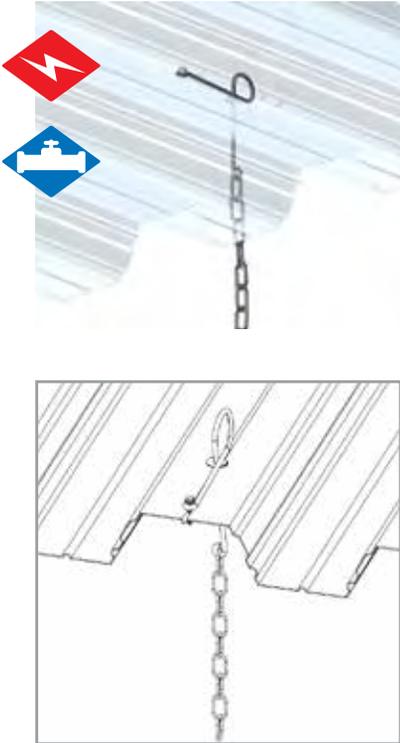
CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 380

Cast-in-Place Stiffy Jack Chain Loop



- Designed as a rigid method of support for Mechanical, Electrical and Plumbing systems.
- Punch a hole into the metal pan deck, drop the support through and fasten
- Provides vertical support for jack chain, cable or wire
- Neoprene washer prevents concrete slurry from penetrating the hole when the deck is filled with concrete
- Can be used with or without concrete being poured over the deck
- Comes pre-staked with Hex Washer Head Tek Screws
- Max load in concrete filled deck: 300# per support
- Max load in decks with no concrete fill: 133# per support
- UL Listed

Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

	A-Height (In.)	Qty
Fig 380		
Fig 380		
Fig 380		

Fig. 380

Application Examples



Fig. 380

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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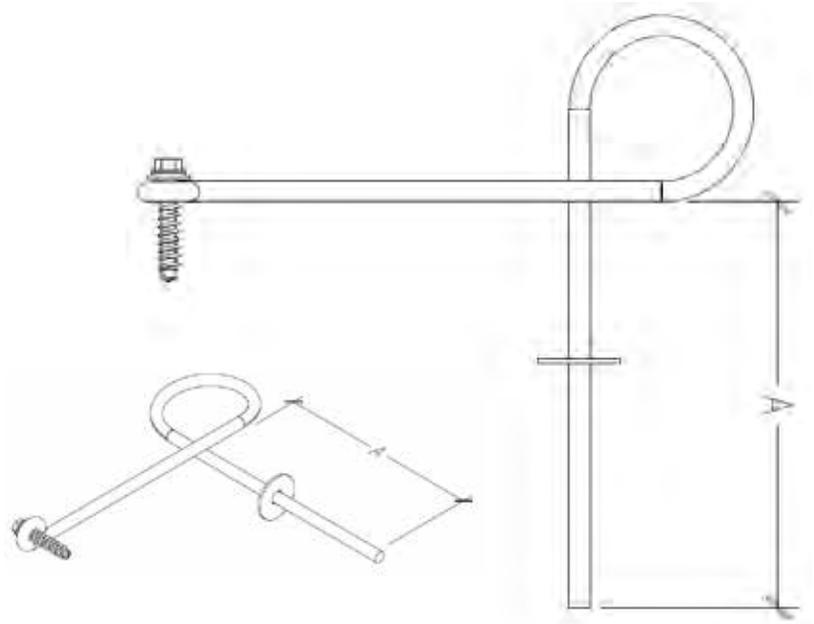


Fig. 381

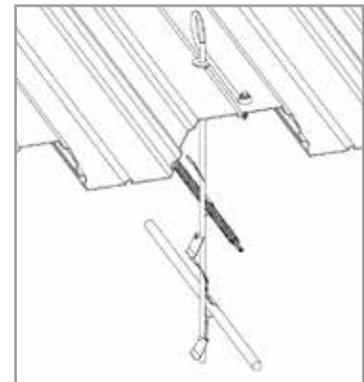
Stiffy Cast-in-Place Straight Rod with Pigtail Loop

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS



- Punch a hole in the deck and drop this support through
- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Mechanical, Electrical and Plumbing systems.
- Can be used with or without concrete being poured over the deck
- Neoprene washer prevents concrete slurry from passing thru the deck
- Max load in concrete filled deck: 300# per support
- Max load in decks with no concrete fill: 133# per support
- UL Listed



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

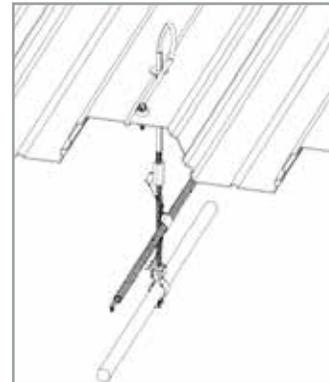
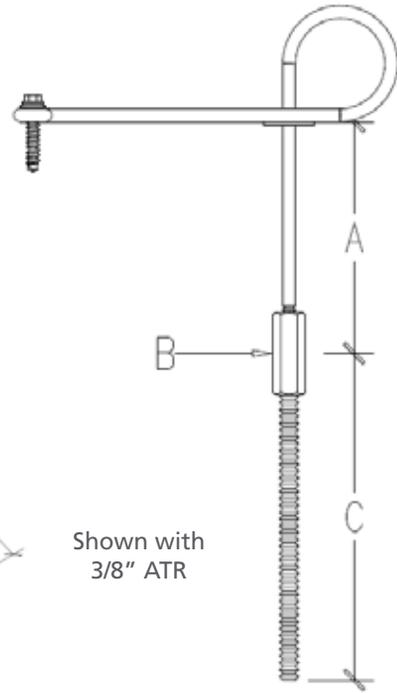
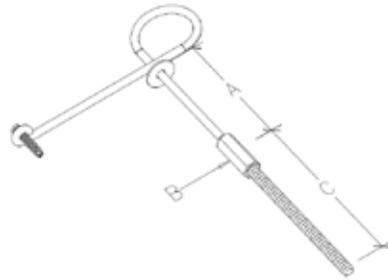
	A-Height (In.)	Qty
Fig 381		
Fig 381		
Fig 381		



Fig. 381

Fig. 382

Stiffy Cast-in-Place Threaded Rod with Pigtail Loop



- Punch a hole in the deck and drop this support through
- Available with 1/4" or 3/8" All Thread Rod
- Zinc plated rod for corrosion resistance
- Designed as a rigid method of support for Mechanical, Electrical and Plumbing systems.
- Can be used with or without concrete being poured over the deck
- Neoprene washer prevents concrete slurry from passing thru the deck
- Recommended where "Friction Connections" are not allowed
- FYI... When Stiffy Grippers (Fig 162) are connected to all thread rod a "Friction Connection" does not exist
- Max load in concrete filled deck: 300# per support
- Max load in decks with no concrete fill: 133# per support
- UL Listed

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

A	B		C
Drop Length (Inches)	*01	No Coupler ¹	All Thread Rod Length (In.)
	*02	1/4" Coupler	
	*03	1/4" x 3/8" Rod Coupler	
Footnote: 1- Threaded end has 1/2" of threads			

	A	B	C	Qty
Fig 382				
Fig 382				
Fig 382				



Stiffy
ROD SUPPORTS



400 SERIES

SLAB-ON-GRADE SUPPORTS

It doesn't get any easier than this...



JOBSITE PROBLEM
MEETS STIFFY
SOLUTION

CEAS Construction Engineered Attachment Solutions Since 1977



Real-world Jobsite Innovation

Job Site Problems

Typical Support



- Time wasted identifying, cutting, and assembling components
- Conduits or pipes are not aligned
- Once the concrete is cured re-work is required to accomplish a proper installation

Typical Support



- Time wasted identifying, cutting, and assembling components
- Tie wire can easily slip off allowing the conduit to float during the concrete pour.

stiffy Solutions

Fig. 410



- Stiffy Supports arrive on the project and are ready to be installed.
- No valuable field man hours are wasted locating components and wrapping tie wire.
- Supports are made to order for the exact application.
- Conduits or pipes are perfectly aligned
- Once the concrete is cured the result is a clean finished product

Fig. 421



- Stiffy Supports arrive on the project and are ready to be installed.
- No valuable field man hours are wasted locating components and wrapping tie wire.
- Supports are made to order for the exact application.
- Conduits or pipes are perfectly aligned
- Once the concrete is cured the result is a clean finished product
- Multiple conduits or pipes can be secured with a single support

	Job Site Problem	Stiffy Solution
Quick to install	No - Labor intensive, cut parts to size, tie wire - costly	Yes - Delivered as a complete assembly
Additional Benefits	No	<p>YES</p> <p>Supports 90s in dirt prior to the concrete pour</p> <p>Rebar extends above the loops to allow for installation</p> <p>Support loop design eliminates top restraint</p>
Insures that 90's stay vertical during concrete pours	No	YES

Fig. 401

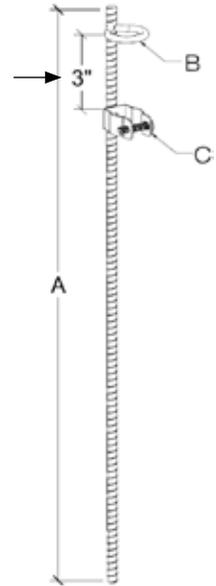
Single Loop Slab-on-Grade Stiffy Stake



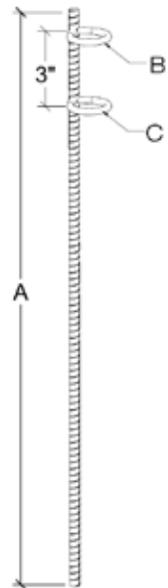
- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil.

****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations

To alter this dimension, please note it on this order form.



Shown with B=01 Conduit Clip



Shown with B=02 Stiffy Loop

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

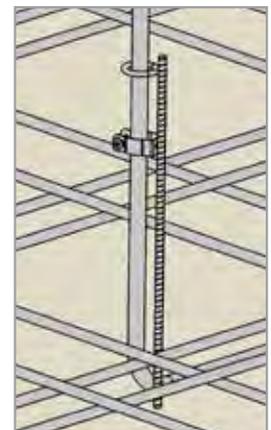
	A	B	C	Qty
Fig 401				
Fig 401				
Fig 401				



A Height (Inches)	Stiffy I.D.		B		C	
			For reference only		Lower Assembly	
		GRC/PVC/ENT	PVC Coated Rigid	*00	No Lower Assembly	
(22" Typ.)	*01	.875"	1/2"(1.84 OD)		*01	Conduit Clip
	*02	1.125"	3/4"(1.05" OD)		*02	Loop
	*03	1.375"		3/4" (1.13" OD)		
	*04	1.50"	1"(1.32" OD)	1" (1.4" OD)		
	*05	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)		
	*06	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)		
	*07	2.50"	2"(2.38" OD)	2" (2.46" OD)		
	*08	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)		
	*09	3.625"	3"(3.5" OD)	3" (3.58" OD)		
	*10	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)		
	*11	4.625"	4"(4.5" OD)	4" (4.58" OD)		
	*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



Application Examples



Fig. 401

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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Fig. 402

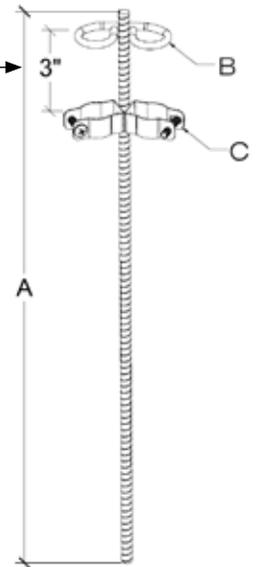
Double Loop Slab-on-Grade Stiffy Stake



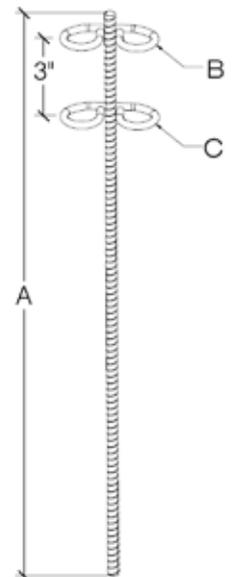
- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil.

****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations

To alter this dimension, please note it on this order form.



Shown with B=01 Conduit Clip



Shown with B=02 Stiffy Loop

Contractor:		Ship to Address:	
PO#		Order Date:	
** All Orders are Custom and Therefore Non-cancellable and Non-returnable			

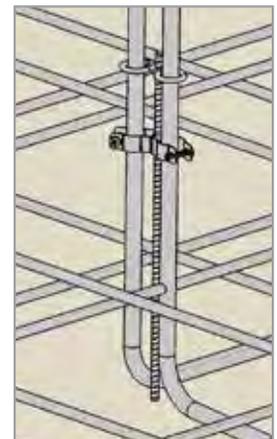
	A	B1	B2	C	Qty
Fig 402					
Fig 402					
Fig 402					



A Height (Inches)	Stiffy I.D.		B For reference only		C Lower Assembly	
			GRC/PVC/ENT	PVC Coated Rigid	*00 No Lower Assembly	*01 Conduit Clip
(22" Typ.)	*01	.875"	1/2" (.84 OD)		*01	Conduit Clip
	*02	1.125"	3/4" (1.05" OD)		*02	Loop
	*03	1.375"		3/4" (1.13" OD)		
	*04	1.50"		1" (1.4" OD)		
	*05	1.75"		1-1/4" (1.74" OD)		
	*06	2.125"		1-1/2" (1.98" OD)		
	*07	2.50"		2" (2.46" OD)		
	*08	3.00"		2-1/2" (2.96" OD)		
	*09	3.625"		3" (3.58" OD)		
	*10	4.125"		3-1/2" (4.08" OD)		
	*11	4.625"		4" (4.58" OD)		
	*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



Application Examples

Fig. 402



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

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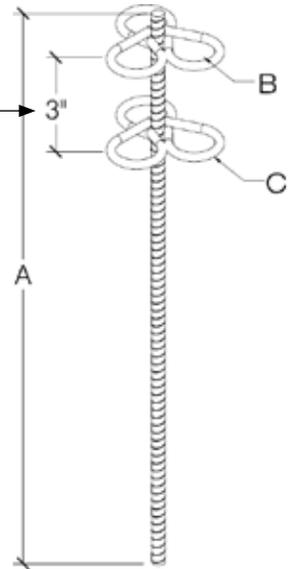
Fig. 403

Triple Loop Slab-on-Grade Stiffy Stake

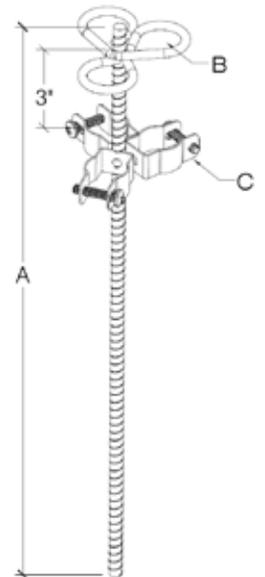


- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil.

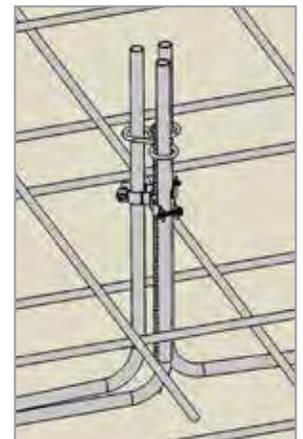
To alter this dimension, please note it on this order form.



Shown with B=01 Conduit Clip



Shown with B=02 Stiffy Loop



****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations

Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B1	B2	B3	C	Qty
Fig 403						
Fig 403						
Fig 403						



A	B		C			
					Stiffy I.D.	For reference only
Height (Inches)		GRC/PVC/ENT	PVC Coated Rigid	*00	No Lower Assembly	
(22" Typ.)	*01	.875"	1/2" (.84 OD)		*01	Conduit Clip
	*02	1.125"	3/4" (1.05" OD)		*02	Loop
	*03	1.375"		3/4" (1.13" OD)		
	*04	1.50"	1" (1.32" OD)	1" (1.4" OD)		
	*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)		
	*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)		
	*07	2.50"	2" (2.38" OD)	2" (2.46" OD)		
	*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)		
	*09	3.625"	3" (3.5" OD)	3" (3.58" OD)		
	*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)		
	*11	4.625"	4" (4.5" OD)	4" (4.58" OD)		
	*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

Fig. 403

Fig. 404

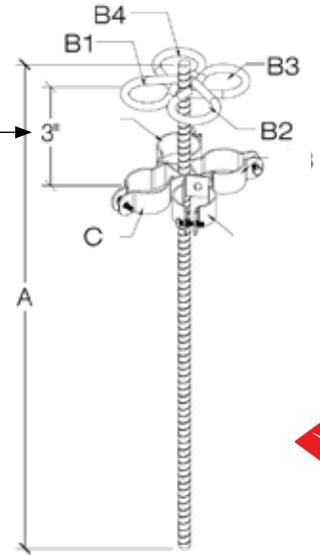
Quad Loop Slab-on-Grade Stiffy Stake



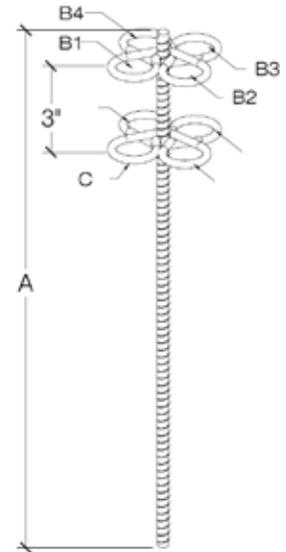
To alter this dimension, please note it on this order form.

- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil.

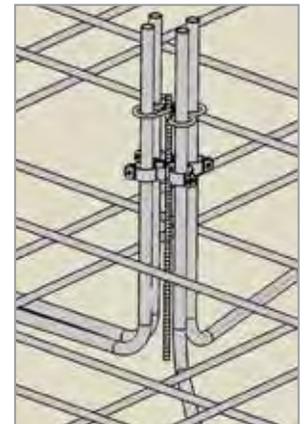
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Shown with B=01 Conduit Clip



Shown with B=02 Stiffy Loop



Contractor:				Ship to Address:			
PO#				Order Date:			
** All Orders are Custom and Therefore Non-cancellable and Non-returnable							

	A	B1	B2	B3	B4	C	Qty
Fig 404							
Fig 404							
Fig 404							



A Height (Inches)	Stiffy I.D.		B		C	
			For reference only		Lower Assembly	
			GRC/PVC/ENT	PVC Coated Rigid	*00	No Lower Assembly
(22" Typ.)	*01	.875"	1/2" (.84 OD)		*01	Conduit Clip
	*02	1.125"	3/4" (1.05" OD)		*02	Loop
	*03	1.375"	1" (1.32" OD)	3/4" (1.13" OD)		
	*04	1.50"		1" (1.4" OD)		
	*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)		
	*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)		
	*07	2.50"	2" (2.38" OD)	2" (2.46" OD)		
	*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)		
	*09	3.625"	3" (3.5" OD)	3" (3.58" OD)		
	*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)		
	*11	4.625"	4" (4.5" OD)	4" (4.58" OD)		
	*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Fig. 404

ELECTRICAL/LOW VOLTAGE APPLICATIONS

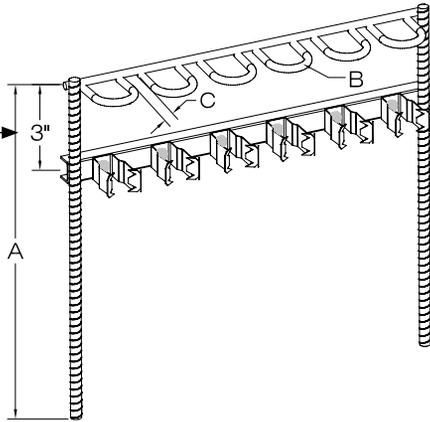
MECHANICAL/PLUMBING APPLICATIONS



Fig. 410

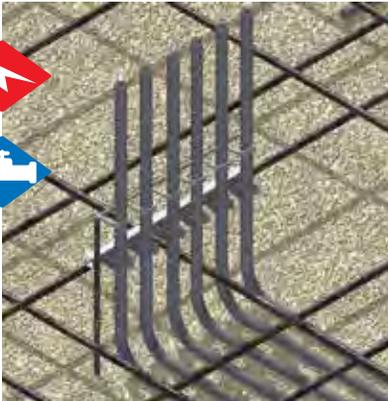
Stiffy Snap-in Slab-on-Grade Trapeze

To alter this dimension, please note it on this order form.



- Ideal for electrical panel locations
- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil

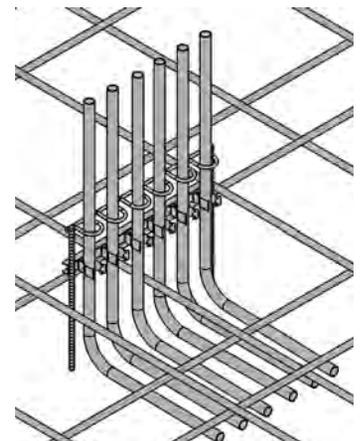
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C	Qty
Fig 410													
Fig 410													
Fig 410													

A Height (Inches)	Stiffy I.D.		B For reference only		C Spacing (1/2" min to fit couplings)
			GRC/PVC/ENT	PVC Coated Rigid	
		*01	.875"	1/2" (.84 OD)	
(22" Typ.)	*02	1.125"	3/4" (1.05" OD)		
	*03	1.375"		3/4" (1.13" OD)	
	*04	1.50"	1" (1.32" OD)	1" (1.4" OD)	
	*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)	
	*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)	
	*07	2.50"	2" (2.38" OD)	2" (2.46" OD)	
	*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)	
	*09	3.625"	3" (3.5" OD)	3" (3.58" OD)	
	*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)	
	*11	4.625"	4" (4.5" OD)	4" (4.58" OD)	
		*12	Other-Specify Size		



Footnotes:

- Snap in style conduit supports are used for 1/2" and 3/4" GRC/PVC/ENT
- Conduit Clips are used for 1" GRC/PVC/ENT and larger
- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



Fig. 410

Application Examples

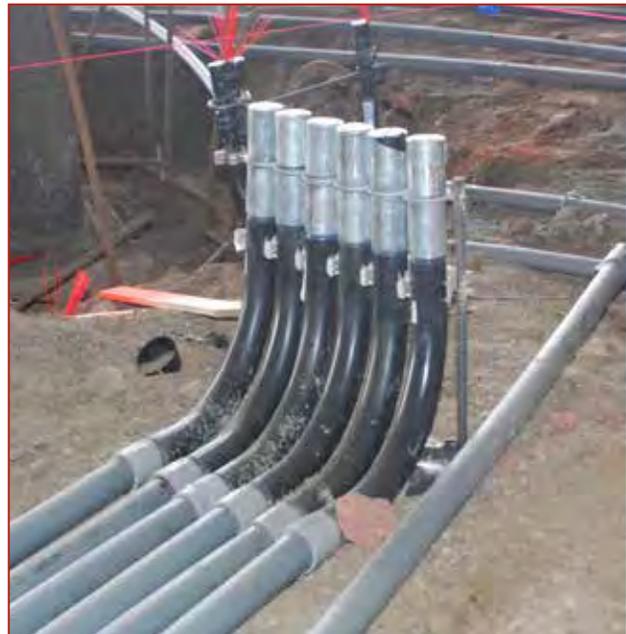


Fig. 410



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



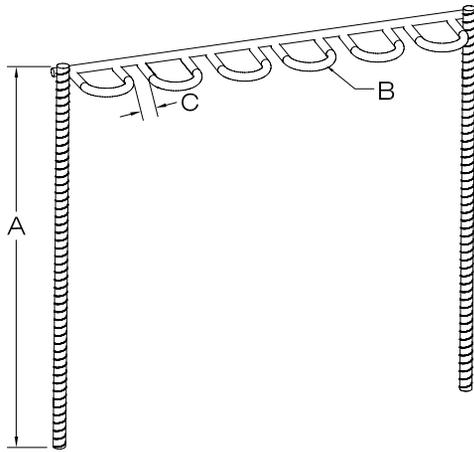
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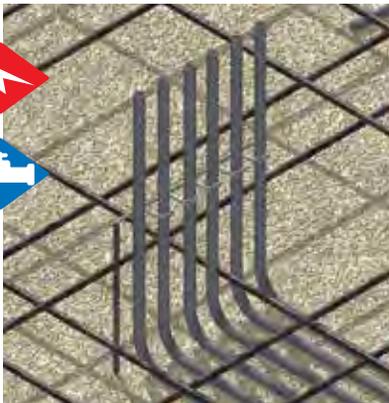
Fig. 414

Stiffy Single Loop Slab-on-Grade Trapeze



- Ideal for electrical panel locations
- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil

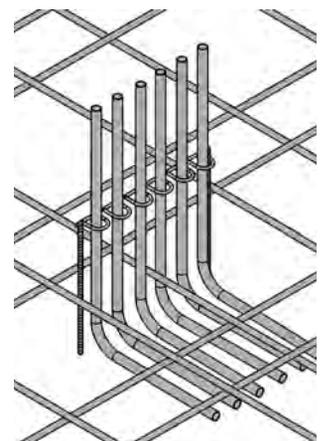
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C	Qty
Fig 414													
Fig 414													
Fig 414													

A Height (Inches)	B		C Spacing		
	Stiffy I.D.	For reference only			
		GRC/PVC/ENT	PVC Coated Rigid		
(22" Typ.)	*01	.875"	1/2" (.84 OD)		(1/2" min to fit couplings)
	*02	1.125"	3/4" (1.05" OD)		
	*03	1.375"		3/4" (1.13" OD)	
	*04	1.50"	1" (1.32" OD)	1" (1.4" OD)	
	*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)	
	*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)	
	*07	2.50"	2" (2.38" OD)	2" (2.46" OD)	
	*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)	
	*09	3.625"	3" (3.5" OD)	3" (3.58" OD)	
	*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)	
	*11	4.625"	4" (4.5" OD)	4" (4.58" OD)	
	*12	Other-Specify Size			



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



Fig. 414

Application Examples



Fig. 414

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



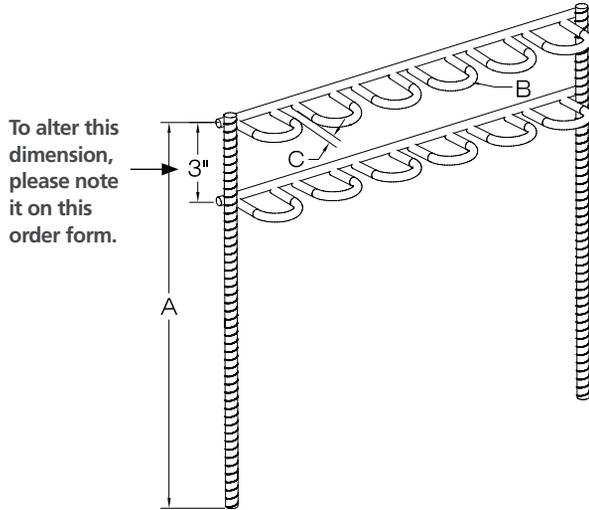
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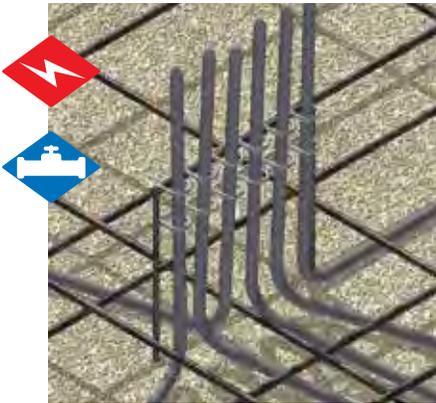
Fig. 415

Stiffy Double Loop Slab-on-Grade Trapeze



- Ideal for electrical panel locations
- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Support loop design eliminates restraint at the top
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil

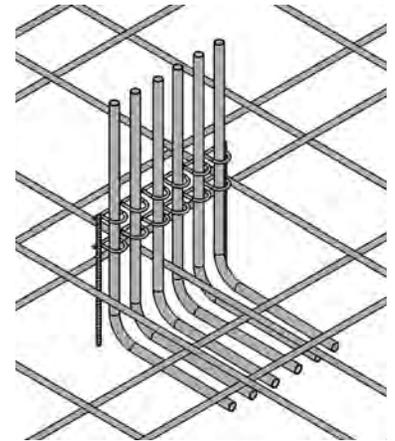
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Contractor:						Ship to Address:					
PO#						Order Date:					
**All Orders are Custom and Therefore Non-cancellable and Non-returnable											

	A	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C	Qty
Fig 415													
Fig 415													
Fig 415													

A Height (Inches)	B		C Spacing		
	Stiffy I.D.	For reference only			
		GRC/PVC/ENT	PVC Coated Rigid		
(22" Typ.)	*01	.875"	1/2" (.84 OD)		(1/2" min to fit couplings)
	*02	1.125"	3/4" (1.05" OD)		
	*03	1.375"		3/4" (1.13" OD)	
	*04	1.50"	1" (1.32" OD)	1" (1.4" OD)	
	*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)	
	*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)	
	*07	2.50"	2" (2.38" OD)	2" (2.46" OD)	
	*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)	
	*09	3.625"	3" (3.5" OD)	3" (3.58" OD)	
	*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)	
	*11	4.625"	4" (4.5" OD)	4" (4.58" OD)	
	*12	Other-Specify Size			



Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



Application Examples

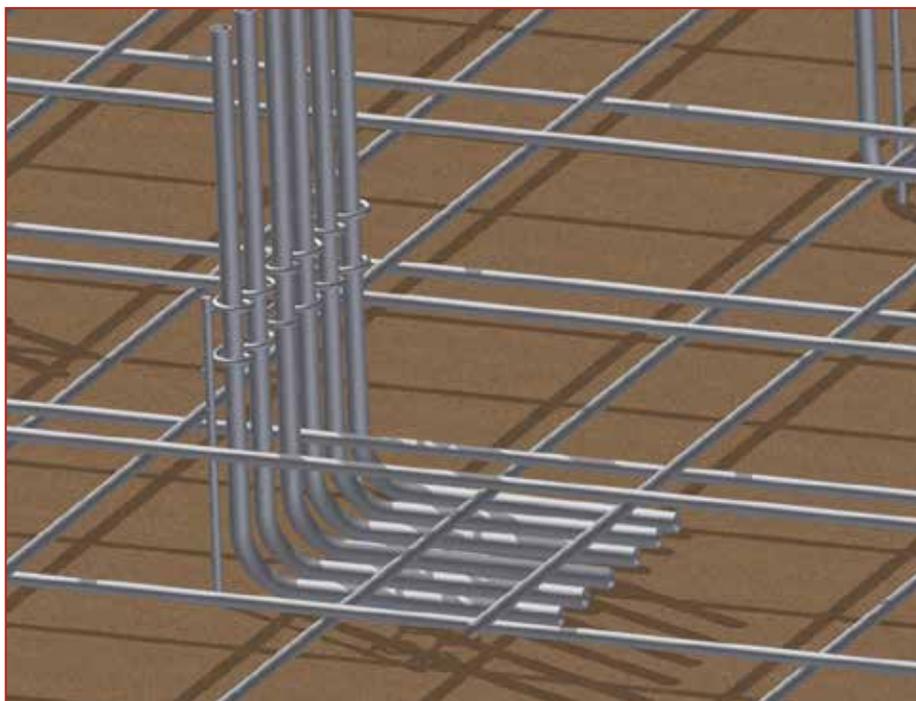
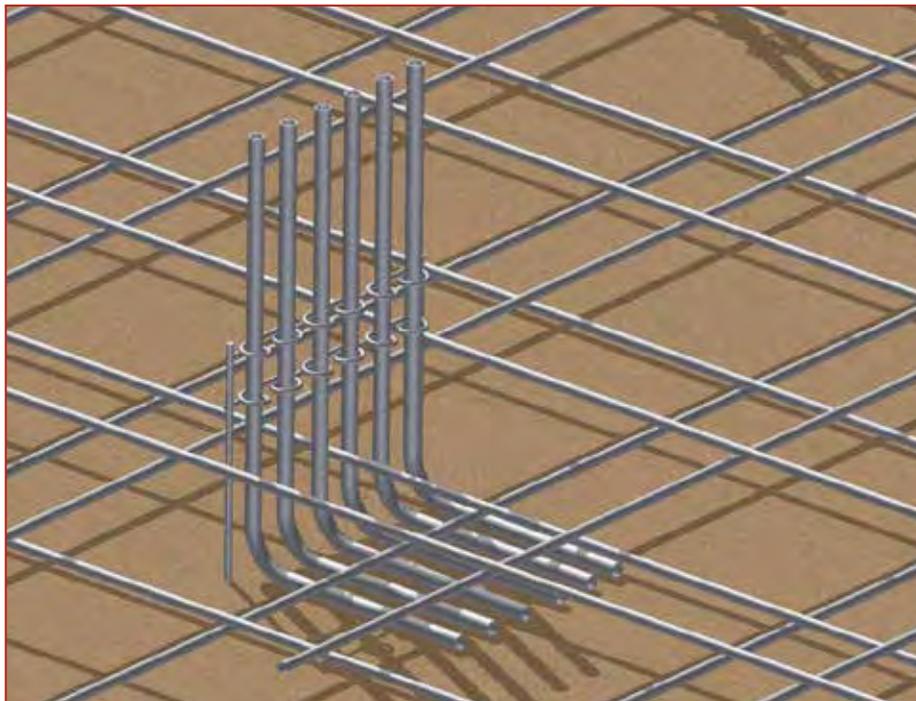


Fig. 415



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



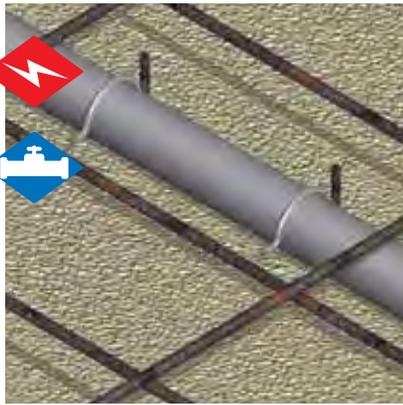
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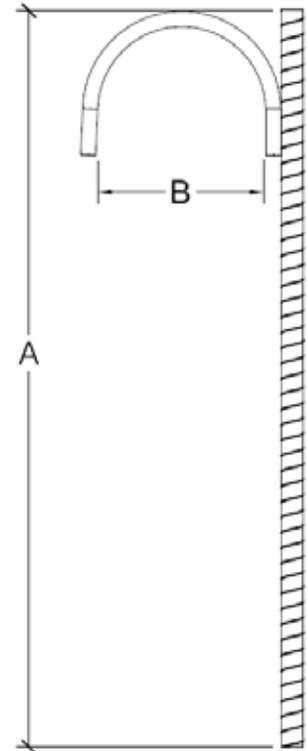
Fig. 420

Stiffy Slab-on-Grade Candy Cane Pipe Support



- Hooks secure conduits in dirt and sand prior to the concrete pour
- Spacing is easily maintained between conduits
- Offers many additional uses

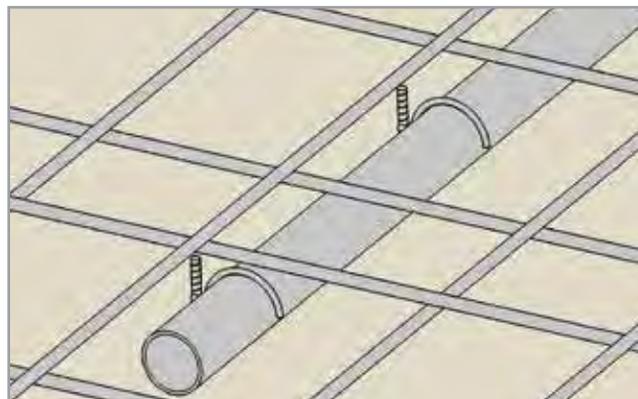
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

A	B	
Height (Inches)	Hook I.D.	
(10" Typ.)	*01	1-1/2"
	*02	2"
	*03	2-1/2"
	*04	3"
	*05	3-1/2"
	*06	4"
	*11	Other-Specify Size

	A	B	Qty
Fig 420			
Fig 420			
Fig 420			



Application Examples



Fig. 420



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



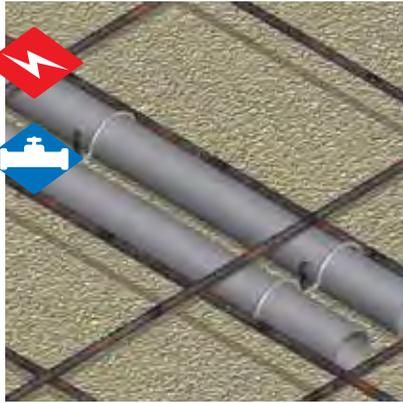
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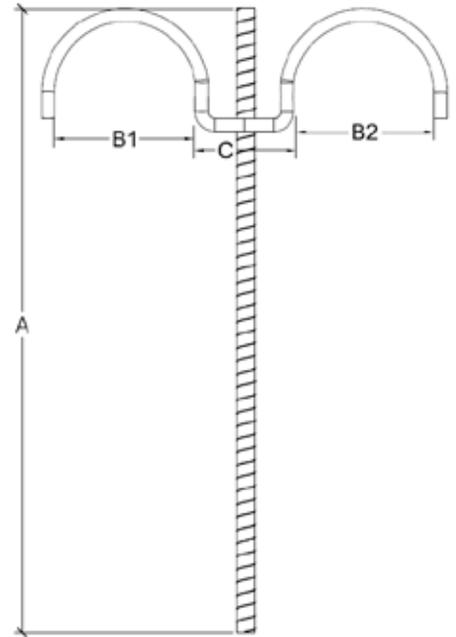
Fig. 421

Stiffy Double Slab-on-Grade Candy Cane Pipe Support



- Hooks secure conduits in dirt and sand prior to the concrete pour
- Spacing is easily maintained between conduits
- Offers many additional uses

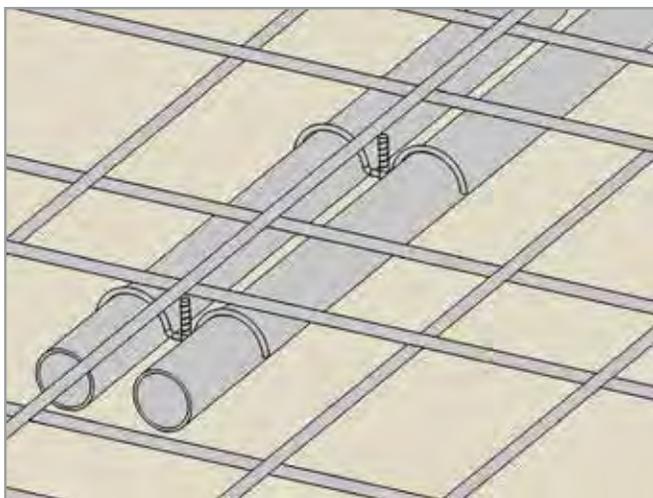
****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations



Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B1	B2	C	Qty
Fig 421					
Fig 421					
Fig 421					

A	B1 & B2		C
Height	Hook I.D.		Conduit Spacing
(Inches)	*01	1-1/2"	(7/8" Min)
(10" Typ.)	*02	2"	
	*03	2-1/2"	
	*04	3"	
	*05	3-1/2"	
	*06	4"	
	*11	Other-Specify Size	



Application Examples

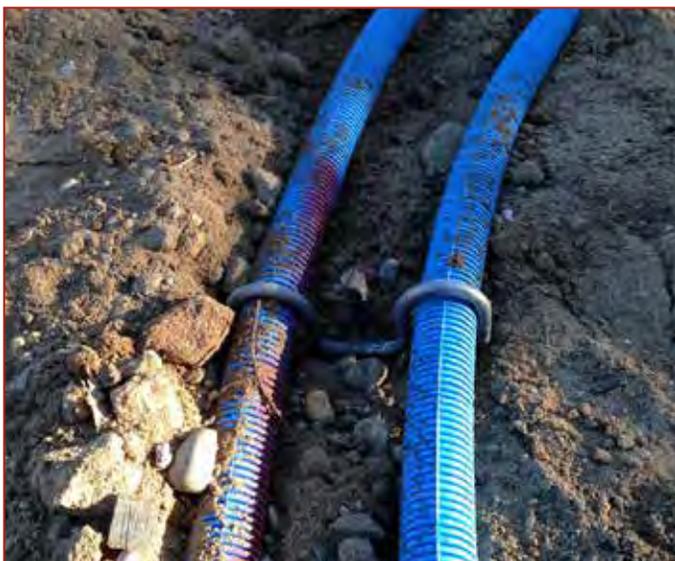
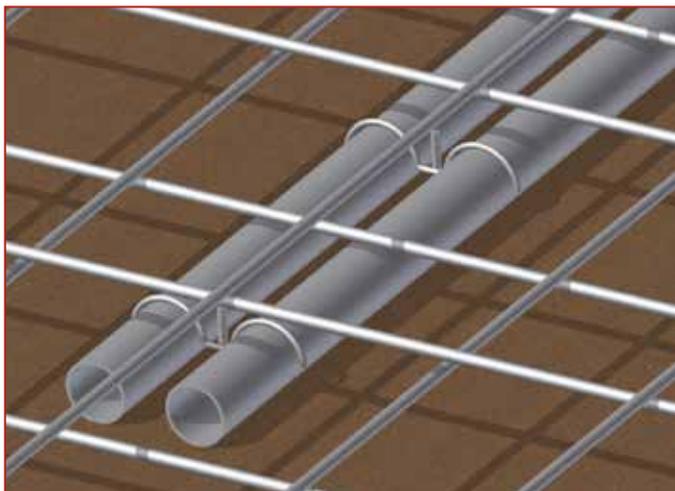


Fig. 421



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



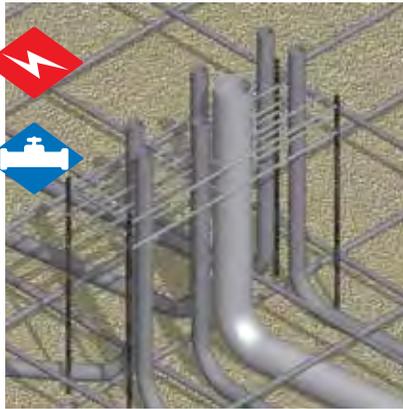
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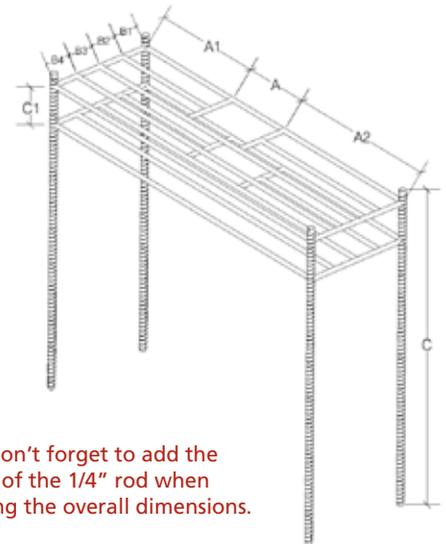


Fig. 430

Stiffy Slab-on-Grade Panel Cage Support



- Provides rigid support for pipes and conduits in dirt and sand prior to the concrete pour
- Cage design accommodates an array of options for terminations into panels
- Offers many additional uses
- Support can extend above the concrete pour to protect the pipe
- Rebar extends above the loops to provide a surface to hammer the supports into the soil



****Important Note:** When the rebar legs must penetrate a vapor barrier dip the Stiffy into a bucket of vapor barrier mastic to preserve the seal and eliminate the need to tape the penetrations

Tip: Don't forget to add the width of the 1/4" rod when figuring the overall dimensions.

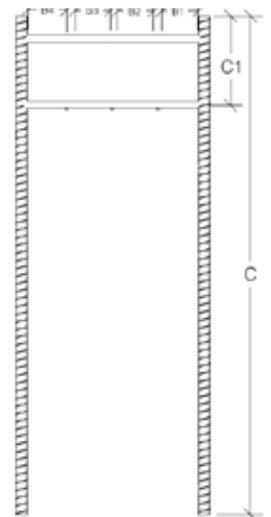
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			



	Opening (I.D.)	Length (In.)		Cage Opening				C (In.) Overall Height	C1 (In.) Cage Height	Qty
	A	A1	A2	B1	B2	B3	B4			
Fig 430										
Fig 430										
Fig 430										

*Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.

Stiffy I.D.		B	
		For reference only	
		GRC/PVC/ENT	PVC Coated Rigid
*01	.875"	1/2" (.84 OD)	
*02	1.125"	3/4" (1.05" OD)	
*03	1.375"		3/4" (1.13" OD)
*04	1.50"	1" (1.32" OD)	1" (1.4" OD)
*05	1.75"	1-1/4" (1.66" OD)	1-1/4" (1.74" OD)
*06	2.125"	1-1/2" (1.9" OD)	1-1/2" (1.98" OD)
*07	2.50"	2" (2.38" OD)	2" (2.46" OD)
*08	3.00"	2-1/2" (2.88" OD)	2-1/2" (2.96" OD)
*09	3.625"	3" (3.5" OD)	3" (3.58" OD)
*10	4.125"	3-1/2" (4" OD)	3-1/2" (4.08" OD)
*11	4.625"	4" (4.5" OD)	4" (4.58" OD)
*12	Other-Specify Size		



Footnotes:

- Snap in style conduit supports are used for 1/2" and 3/4" GRC/PVC/ENT
- Conduit Clips are used for 1" GRC/PVC/ENT and larger
- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.

Fig. 430

Application Examples



Fig. 430

 ELECTRICAL/LOW VOLTAGE APPLICATIONS

 MECHANICAL/PLUMBING APPLICATIONS



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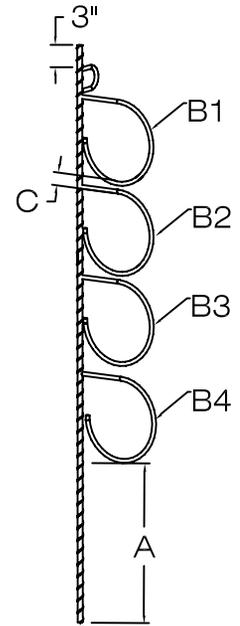


Fig. 450

Stiffy Slab-on-Grade Single Column Trench Rack



- Secures pipes in place while maintaining spacing requirements
- Pipes can be installed into the support before it is installed in the trench
- Once the racks are filled the pipes can be lowered into the trench
- The CEAS Trench Driver can be used to move the loaded racks into the trench and drive it in place.



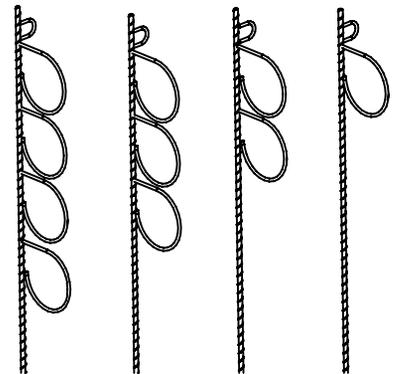
Contractor:				Ship to Address:			
PO#				Order Date:			
**All Orders are Custom and Therefore Non-cancellable and Non-returnable							

	A	B1	B2	B3	B4	C	Qty
Fig 450							
Fig 450							
Fig 450							

A Height (Inches)	Stiffy I.D.		B For reference only		C Spacing (1/2" min to fit couplings)
			GRC/PVC/ENT	PVC Coated Rigid	
*01	1.875"	.875"	1/2"(1.84 OD)		
*02	1.125"	1.125"	3/4"(1.05" OD)		
*03	1.375"	1.375"		3/4" (1.13" OD)	
*04	1.50"	1.50"	1"(1.32" OD)	1" (1.4" OD)	
*05	1.75"	1.75"	1-1/4"(1.66" OD)	1-1/4" (1.74" OD)	
*06	2.125"	2.125"	1-1/2"(1.9" OD)	1-1/2" (1.98" OD)	
*07	2.50"	2.50"	2"(2.38" OD)	2" (2.46" OD)	
*08	3.00"	3.00"	2-1/2"(2.88" OD)	2-1/2" (2.96" OD)	
*09	3.625"	3.625"	3"(3.5" OD)	3" (3.58" OD)	
*10	4.125"	4.125"	3-1/2"(4" OD)	3-1/2" (4.08" OD)	
*11	4.625"	4.625"	4"(4.5" OD)	4" (4.58" OD)	
*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



LOOP QUANTITY MAY VARY

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

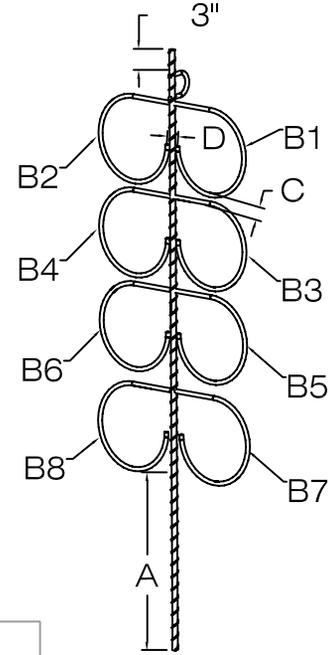
Fig. 450

Fig. 451

Stiffy Slab-on-Grade Double Column Trench Rack



- Secures pipes in place while maintaining spacing requirements
- Pipes can be installed into the support before it is installed in the trench
- Once the racks are filled the pipes can be lowered into the trench
- The CEAS Trench Driver can be used to move the loaded racks into the trench and drive it in place.



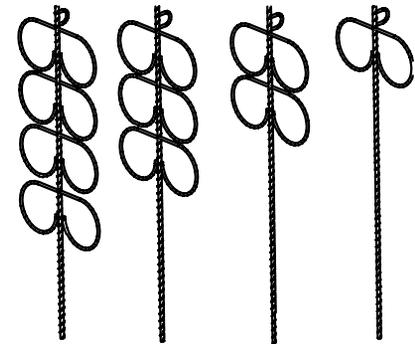
Contractor:		Ship to Address:	
PO#		Order Date:	
**All Orders are Custom and Therefore Non-cancellable and Non-returnable			

	A	B1	B2	B3	B4	B5	B6	B7	B8	C	D	Qty
Fig 451												
Fig 451												
Fig 451												

A Height (Inches)	Stiffy I.D.		For reference only		C Spacing (1/2" min to fit couplings)
	Stiffy I.D.		GRC/PVC/ENT	PVC Coated Rigid	
*01	.875"		1/2"(.84 OD)		
*02	1.125"		3/4"(1.05" OD)		
*03	1.375"		1"(1.32" OD)	3/4" (1.13" OD)	
*04	1.50"			1" (1.4" OD)	
*05	1.75"		1-1/4"(1.66" OD)	1-1/4" (1.74" OD)	
*06	2.125"		1-1/2"(1.9" OD)	1-1/2" (1.98" OD)	
*07	2.50"		2"(2.38" OD)	2" (2.46" OD)	
*08	3.00"		2-1/2"(2.88" OD)	2-1/2" (2.96" OD)	
*09	3.625"		3"(3.5" OD)	3" (3.58" OD)	
*10	4.125"		3-1/2"(4" OD)	3-1/2" (4.08" OD)	
*11	4.625"		4"(4.5" OD)	4" (4.58" OD)	
*12	Other-Specify Size				

Footnotes:

- Dimensions shown are for conduit OD only. Be sure to oversize the openings to account for couplings.
- 1/2" nom. Pre-sleeved PEX piping = 1.05" O.D.
- 3/4" nom. Pre-sleeved PEX piping = 1.36" O.D.



LOOP QUANTITY MAY VARY

Fig. 451

ELECTRICAL/LOW VOLTAGE APPLICATIONS

MECHANICAL/PLUMBING APPLICATIONS

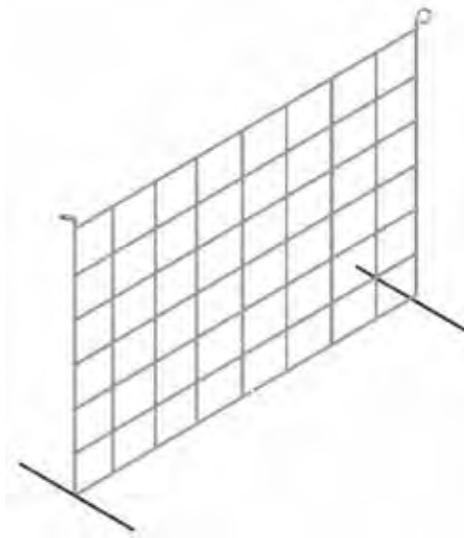


Fig. 452

Stiffy Slab-on-Grade Trench Rack



- Provides a solid support for conduit installed in a trench.
- Enables the installer to do the majority of the work outside of the trench and then lower all of the conduit down at once.
- Zinc plated rod for corrosion resistance
- Custom Made for specific project applications.
- Easily maintain spacing requirements.
- “Mouse Ears” allow stakes to be driven into the side of the trench and eliminates the concern of conduit floatng.



Contractor:	Ship to Address:
PO#	Order Date:
**All Orders are Custom and Therefore Non-cancellable and Non-returnable	

To order, provide a sketch of the rack on a separate sheet of paper and CEAS will provide a quote and ETA.



Application Examples

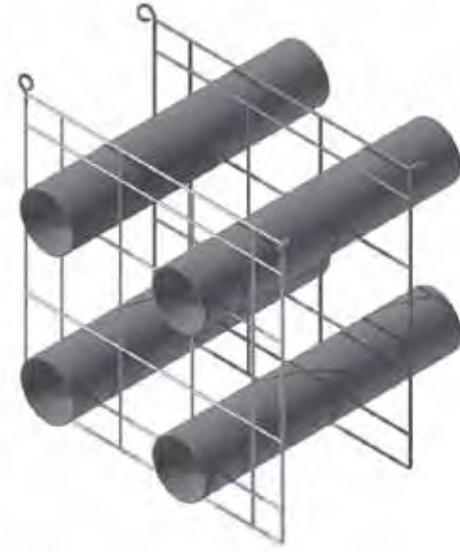


Fig. 452



ELECTRICAL/LOW VOLTAGE APPLICATIONS



MECHANICAL/PLUMBING APPLICATIONS



CONSTRUCTION ENGINEERED ATTACHMENT SOLUTIONS

It's What We Do!





INNOVATION SINCE 1977

ELECTRICAL/LOW VOLTAGE-Submittal Request Form

Company Name: _____

Company Address: _____

Contact Name: _____

Contact Telephone: _____

Contact Email: _____

Project Name: _____

Project Address: _____

- 2009 IBC
- 2012 IBC
- 2010 CBC
- 2013 CBC
- OSHPD
- BAA Compliant
- Other _____

Fastener Options: (Select all that apply)	
Concrete Attachments	
*001	Powers 1" x 0.145" Smooth Shank (0.300" Head Dia.)
*002	Powers 1" x 0.157" Spiral Shank (8mm Head Dia.)
*01	Powers 1-1/4" x 0.145" Smooth Shank (0.300" Head Dia.)
*011	Powers 1-1/4" x 0.157" Spiral Shank (8mm Head Dia.)
*02	Powers 1-1/2" x 0.145" Smooth Shank (0.300" Head Dia.)
*021	Powers 1-1/2" x 0.157" Spiral Shank (8mm Head Dia.)
*03	1/4" x 3-1/4" Powers SD1 Wedge Anchor
*031	3/8" x 3" Powers SD1 Wedge Anchor
*04	5/16" x 2" Tapcon Screw Anchor (1/4" Dia. Hole in Concrete Required)
*041	3/8" x 2" Tapcon Screw Anchor (3/8" Dia. Hole in Concrete Required)
*13.1	PowderPuff Standoff with Powers 1 x 0.157" Spiral Shank (8mm Head Dia.)
*13	PowderPuff Standoff with Powers 1-1/4 x 0.157" Spiral Shank (8mm Head Dia.)
*13.2	PowderPuff Standoff with Powers 1-1/2 x 0.157" Spiral Shank (8mm Head Dia.)
Steel/Metal Attachments	
*06	#10 x 1-1/4" HWH Self Drilling Screw
*061	#14 x 2" HWH Self Drilling Screw
*07	#10 x 1-1/4" HWH Sharp Point Screw
*09	Wide Mouth Beam Clamp
*12.1	360° Hammer-On Beam Clamp (1/8" -1/4" Flange)
*12.2	360° Hammer-On Beam Clamp (5/16" -1/2" Flange)
*12.3	360° Hammer-On Beam Clamp (9/16" -3/4" Flange)
*16	Stiffy Hammer-On Beam Clamp
*17	Stiffy Pull Down Beam Clamp
Wood Attachments	
*07	#10 x 1-1/4" HWH Sharp Point Screw "
*08	CEAS Timberpin -2-1/2" x 0.169 Ring Shank Nail with 0.300" Head Diameter
*14	Stiffy Wood Pull Down Footprint
*18	1/4" X 2-1/2" Hex Lag

Data Assemblies: (Select all that apply)			
Fig 100	Stiffy Straight Rod	Fig 221	Stiffy LV Radius Drop Trapeze
Fig 102	Threaded Stiffy	Fig 222	Stiffy LV Triangle Trapeze
Fig 200	Stiffy with Comfort Cradle	Fig 223	Stiffy LV Mount Trapeze
Fig 201	Stiffy Clip-on Comfort Cradle	Fig 224	Stiffy Wall Mount Trapeze
Fig 202	Stiffy Wall Rack Support	Fig 240	Bridle Ring Stiffy
Fig 203	Stiffy Fixed Wall Rack Support	Fig 241	Stiffy D-Ring
Fig 204	Stiffy Double Wall Rack Support	Fig 250	Stiffy Wall Sleeves
Fig 205	Stiffy "Shorty" Comfort Cradle	Fig 251	Stiffy DAS Antenna Support
Fig 206	Stiffy Data Tree	Fig 252	Stiffy Module Support
Fig 220	Stiffy Low Voltage Trapeze		

Additional Products			

Electrical Assemblies: (Select all that apply)	
Fig 100	Stiffy Straight Rod
Fig 101	Stiffy Stacker
Fig 102	Threaded Stiffy
Fig 104	Threaded Stiffy with Hanger
Fig 105	Threaded Stiffy w/Hard Concrete Foot
Fig 106	Stiffy Temp Power Support
Fig 111	Stiffy SER Stacker
Fig 120	Stiffy Crossbar Trapeze
Fig 121	Stiffy Trapeze
Fig 123	Stiffy Cradle Crossbar Trapeze
Fig 124	Stiffy Snap-in Trapeze
Fig 125	Stiffy Strut Trapeze
Fig 127	Stiffy Wall Mounted Snap-in Trapeze
Fig 128	Stiffy Snap-in Wall Rack
Fig 129	Stiffy HD Cross Bar Trapeze
Fig 130	Stiffy HD 2-Tier Cross Bar Trapeze
Fig 140	Stiffy Multi Stacker Support
Fig 144	2-tier Stiffy Multi Stacker Support
Fig 160	Stiffy Stud Spanner
Fig 161	Stiffy Gripper
Fig 162	Fixed Stiffy Stud Spanner
Fig 163	Stiffy Adjustable Stud Spanner
Fig 190	Pre-Fabricated Trapeze
Fig 191	2-Tiered Pre-Fabricated Trapeze
Fig 192	Single Clevis or J Hanger

Cast-in-Place Assemblies: (Select all that apply)	
Fig 333	Stiffy CIP Strut Block Out
Fig 380	Cast-in-Place Stiffy Jack Chain Loop
Fig 381	Cast-in-Place Stiffy Straight Rod
Fig 382	Cast-in-Place Stiffy Threaded Support
Fig 336	Cast-in-Place Stiffy Anchor Bolt
Fig 337	Cast-in-Place Stiffy Strut Anchor
Fig 338	Cast-in-Place Double Strut Anchor

Blue Banger Hangers & Push Rods: (Select all that apply)	
PIP143812	BBH 1/4", 3/8" and 1/2" Poured in Place
PIP381258	BBH 3/8", 1/2 and 5/8" Poured in Place
PIP5834	BBH 5/8" and 3/4" Poured in Place
SDI143812	BBH 1/4", 3/8" and 1/2" Steel Deck Inserts
SDI381258	BBH 3/8", 1/2 and 5/8" Steel Deck Inserts
SDI5834	BBH 5/8" and 3/4" Steel Deck Inserts
RDI143812	BBH 1/4", 3/8" and 1/2" Roof Deck Inserts
PRPIP3812	Push Rod SDI 3/8" & 1/2"
PRSIP3812	Push Rod SDI 3/8" and 1/2"



INNOVATION SINCE 1977

PLUMBING/MECHANICAL-Submittal Request Form

Company Name: _____

Company Address: _____

Contact Name: _____

Contact Telephone: _____

Contact Email: _____

Project Name: _____

Project Address: _____

- 2009 IBC
- 2012 IBC
- 2010 CBC
- 2013 CBC
- OSHPD
- BAA Compliant
- Other _____

Fastener Options: (Select all that apply)	
*00	No Fastener
*01	1-1/4" Power Actuated Pin
*02	1-1/2" Power Actuated Pin
*03	1/4" x 3-1/4" Wedge Anchor (2" Embed)
*03.1	3/8" x 3" Wedge Anchor (2" Embed)
*04	1/4" x 1-3/4" Concrete Screw Anchor
*04.1	3/8" x 1-3/4" Concrete Screw Anchor
*06	#10 Hex Washer Head Self Driller
*06.1	#14 Hex Washer Head Self Driller
*07	#10 Hex Washer Head Sharp Point
*08	Timberpin (Wood Applications)
*09	Wide Mouth Beam Clamp
*12	Hammer-on Beam Clamp—360°
*13	PowderPuff Pin-1" Embedment
*14	Stiffy Wood Pull Down Attachment
*16	Hammer-on Beam Clamp 1/8"-3/4" Flange
*17	Bar Joist Pull Down Clamp 1/16"-1/4" Flange
*25	Other - Please specify

Cast-in-Place Assemblies: (Select all that apply)	
Fig 300	Cast-in-Place Stiffy Tree
Fig 301	Single Loop Cast-in-Place Stiffy Tree
Fig 302	Double Loop Cast-in-Place Stiffy Tree
Fig 303	Triple Loop Cast-in-Place Stiffy Tree
Fig 312	Cast-in-Place Loop Trapeze
Fig 313	Cast-in-Place 2 Tiered Loop Trapeze
Fig 314	Stiffy Snap-in Cast-in-Place Trapeze
Fig 330	Stiffy Cast-in-Place Deck Sleeve
Fig 331	Stiffy Single Row CIP Deck Sleeve
Fig 332	Stiffy Double Row CIP Deck Sleeve
Fig 333	Stiffy Cast-in-Place Strut Block Out
Fig 336	Stiffy Anchor Bolt
Fig 337	Stiffy Cast-in-Place Strut Anchor
Fig 338	Stiffy Cast-in-Place Double Strut Anchor
Fig 370	Stiffy Metal Deck Sleeve
Fig 371	Stiffy Single Row Metal Deck Sleeve
Fig 372	Stiffy Double Row Metal Deck Sleeve
Fig 380	Cast-in-Place Stiffy Jack Chain Loop
Fig 381	CIP Straight Rod with Pig Tail Loop
Fig 382	CIP Threaded Straight Rod w/Pig Tail Loop

Mech/Plumbing Assemblies: (Select all that apply)	
Fig 100	Stiffy Straight Rod
Fig 102	Threaded Stiffy
Fig 104	Threaded Stiffy with Hanger
Fig 105	Threaded Stiffy w/Hard Concrete Foot
Fig 106	Stiffy Temp Power Support
Fig 107	Stiffy Snap Clip
Fig 108	Stiffy Insulated Pipe Stacker
Fig 109	Stiffy Clip-on Insulated Pipe Stacker
Fig 110	Stiffy Threaded Insulated Pipe Stacker
Fig 125	Stiffy Strut Trapeze
Fig 131	Stiffy Snap Trapeze
Fig 132	Stiffy Wall Mount Snap Trapeze
Fig 133	Stiffy Snap Wall Rack
Fig 134	Stiffy PEX Trapeze
Fig 180	Stiffy Round Duct Support
Fig 190	Pre-Fabricated Trapeze
Fig 191	2-Tiered Pre-Fabricated Trapeze
Fig 192	Single Clevis or J Hanger
Fig 195	Stiffy Gull Wing Line Set Support
Fig 196	Stiffy Line Set Support

Slab-on-Grade Assemblies: (Select all that apply)	
Fig 401	Single Loop Slab-on-grade Stiffy Stake
Fig 402	Double Loop Slab-on-grade Stiffy Stake
Fig 403	Triple Loop Slab-on-grade Stiffy Stake
Fig 404	Quad Loop Slab-on-grade Stiffy Stake
Fig 410	Stiffy Snap-in Slab-on-Grade Trapeze
Fig 414	Stiffy Single Loop Slab-on-Grade Trapeze
Fig 415	Stiffy Double Loop Slab-on-Grade Trapeze
Fig 420	Stiffy SOG Candy Cane Pipe Support
Fig 421	Stiffy SOG Double Candy Cane Pipe Sup.
Fig 430	Stiffy Slab-on-Grade Panel Cage

Blue Banger Hangers & Push Rods: (Select all that apply)	
PIP143812	BBH 1/4", 3/8" and 1/2" Poured in Place
PIP381258	BBH 3/8", 1/2 and 5/8" Poured in Place
PIP5834	BBH 5/8" and 3/4" Poured in Place
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SDI381258	BBH 3/8", 1/2 and 5/8" Steel Deck Inserts
SDI5834	BBH 5/8" and 3/4" Steel Deck Inserts
RDI143812	BBH 1/4", 3/8" and 1/2" Roof Deck Inserts
PRPIP3812	Push Rod SDI 3/8" & 1/2"
PRSIP3812	Push Rod SDI 3/8" and 1/2"

Additional Products	

Create Your Own Stiffy

Fig. XXX

Stiffy Supports work on jobsites because that is where they are designed. Many of the Stiffy designs that are contained in this product manual were designed from significant input from contractors. If you have an idea for a Stiffy that will take care of a project problem, simply follow the steps below:

Step 1 - Sketch an idea for a new support and request a sample by contact your sales representative.

Step 2 - The concept is reviewed by the CEAS engineering department. Once the concept is approved by engineering a prototype is returned to the jobsite.

Step 3 - The prototype is reviewed by the contractor and application suitability is determined.

Step 4 - Submittal documents including a stamp from a Structural Engineer are provided for the project when requested.

Step 5 - Order is placed and material is shipped to the jobsite ready for installation.

Helpful Tips

- Max capacity of a Stiffy Footprint is 70#
- For fastener options refer to page 6
- Refer to pages 9-10 for EMT and MC weight/linear foot (The weights listed on the EMT tables include the weight of the conductors)
- Total Load / Support = Utility Weight/LF x Support Spacing

Custom Stiffy Examples

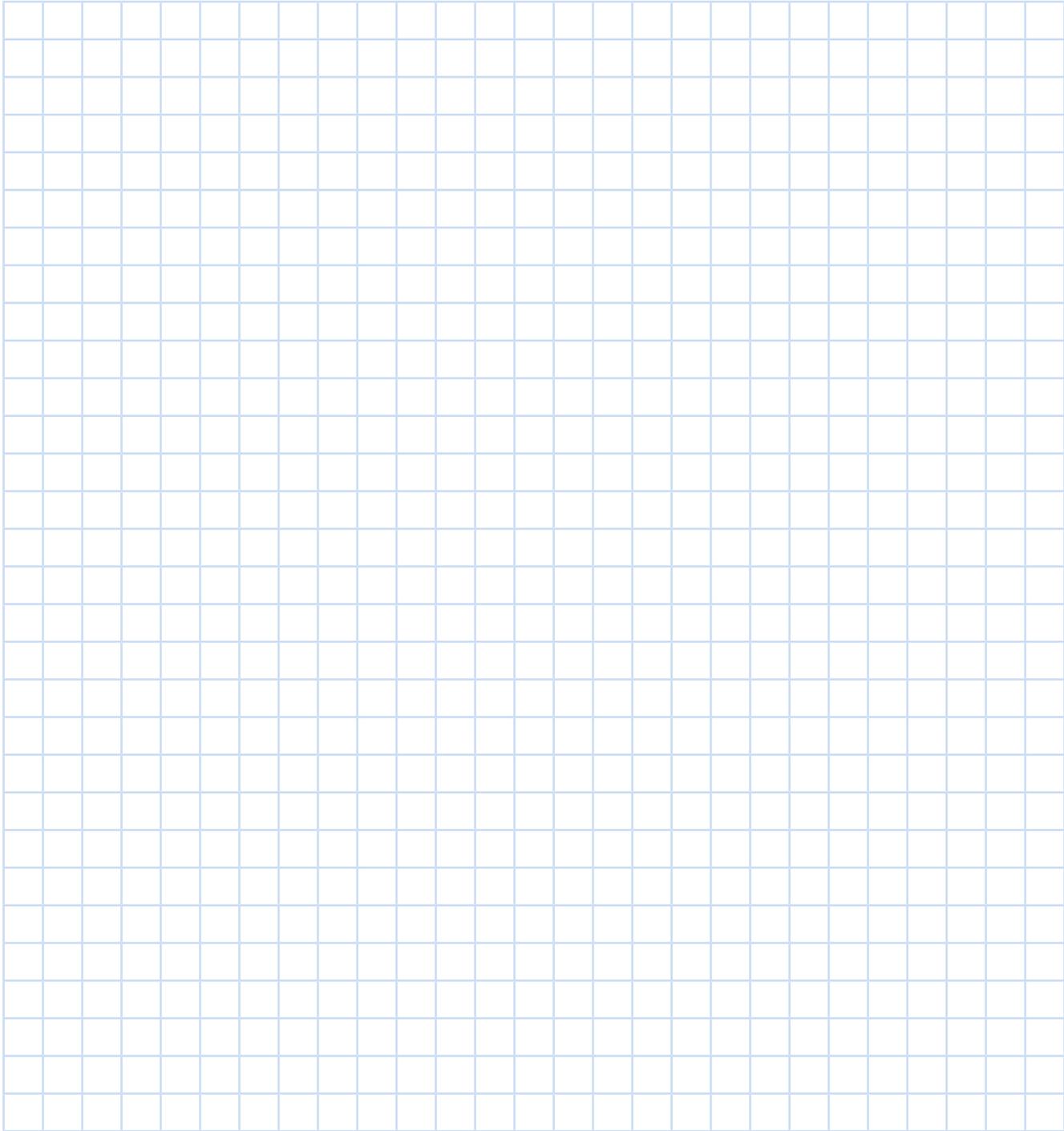


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Create Your Own Stiffy

Fig. XXX



Contractor:	
Contact Name:	
Contact Number:	
Project Name:	
Project Address	

stiffy

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ELECTRICAL
SUPPORTS

200 SERIES
LOW-VOLTAGE
SUPPORTS

300 SERIES
CAST-IN-PLACE
SUPPORTS

400 SERIES
SLAB-ON-GRADE
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