

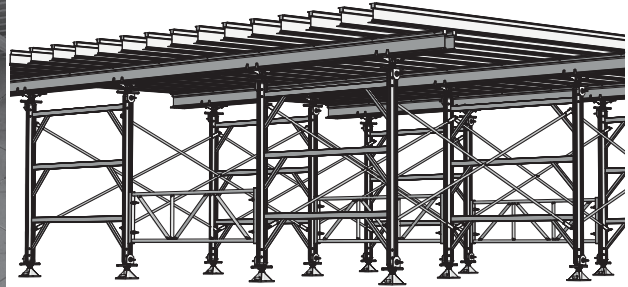
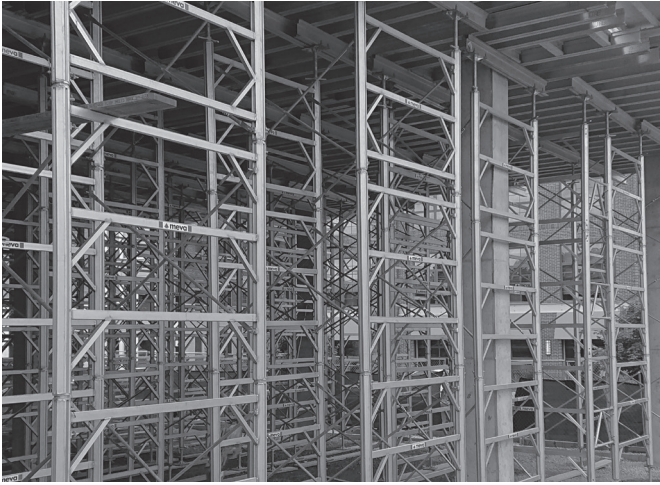


MEVA32

Technical Instruction Manual

June 2021

Shoring System



Introduction

The MEVA32 Shoring System is a versatile yet simple system capable of handling virtually any project.

The MEVA32 shoring frames are available in heights of 4' (1219.2 mm), 5' (1524.0 mm), 6' (1828.8 mm), and 8' (2438.4 mm). All frames are 6' (1828.8 mm) wide. Frames are connected together horizontally using cross braces, or MEP gates, allowing versatile applications for conventional shoring, table shoring, garage beam shoring, or for tall towers erected on their side and lifted into place.

The vertical connection point distance for the cross braces (stud spacing) is standardized as 4' (1219.2 mm) for all scenarios and the cross braces are available in 1' (304.8 mm) increments to create tower widths from 3' (914.4 mm) to 9' (2743.2 mm).

The MEP Shoring gates are available to create towers ranging from 1'-9 1/2" to 7'-2 1/2" (55 cm - 220 cm).

This range allows for an efficient and productive layout no matter what the slab thickness is.

The towers can be stacked in many configurations and can carry a safe working load of up to 77.4 kN per leg (309.6 kN per tower).

WARNING:

Screw jack extensions may limit capacity. Refer to pages 30 - 33 for load charts.

Available stripping bases can also be used at the base of towers to give load relief, making the screw jacks much easier to release once the stripping pin is activated.

Shoring tested per ANSI/SSFI SH-300 2007: Standards for Testing and Rating Shoring Equipment.

Testing witnessed by: Andrew Lloyd, PE.

Factor of safety = 2.5:1 as specified in ANSI A10.9 Safety Requirements for Masonry and Concrete Work, Section 6.5.2.

Please check here for the most up to date information:

<https://www.meva.net>

And please check here for the MEVA YouTube channel:

<https://www.youtube.com/user/mevalive/featured>

Safety Rules & Recommendations:

- This manual contains information and instructions on how to use MEVA equipment in a safe and efficient manner. All construction personnel involved with the use of this equipment ("User") must be familiar with the contents of this manual.
- The user is responsible for identifying and complying with all applicable government regulations, codes, and ordinances in the use of this equipment.
- MEVA equipment must be erected, used, and dismantled in accordance with this manual, safe practices, and all applicable industry standards developed and published by the American Concrete Institute (ACI), the American National Standards Institute (ANSI) and the Occupational Safety and Health Administration (OSHA). Additional workplace safety precautions should be taken where necessary.
- Most examples shown are standard applications that will occur in practice most often. For applications not covered in this manual, please contact your MEVA representative for advice.
- Many of the details in this manual show specific conditions and situations during different stages of assembly and are therefore not always complete. Any equipment or safety accessories not shown in the details must still be used in accordance with all applicable rules and regulations.
- In order to assure proper fit and load capacity, do not combine this equipment with components of other manufacturers unless directed by a MEVA representative.
- The user must inspect all equipment before each use. Never use equipment that is damaged, deformed, or weakened due to wear or corrosion.

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Shoring System

MEVA32 Frames

MEVA32 frames are all 6' (1828.8 mm) wide from center of leg to center of leg, and come in nominal heights of 4' (1219.2 mm), 5' (1524.0 mm), 6' (1828.8 mm), and 8' (2438.4 mm). (Actual frame height is 0.5" (12.7 mm) shorter than listed nominal height).

Jet-locks for attachment of cross braces on the 5' (1524.0 mm) and 6' (1828.8 mm) frames are spaced at 4' (1219.2 mm) vertically, and are spaced 2' (609.6 mm) vertically on 4' (1219.2 mm) and 8' (2438.4 mm) frames.

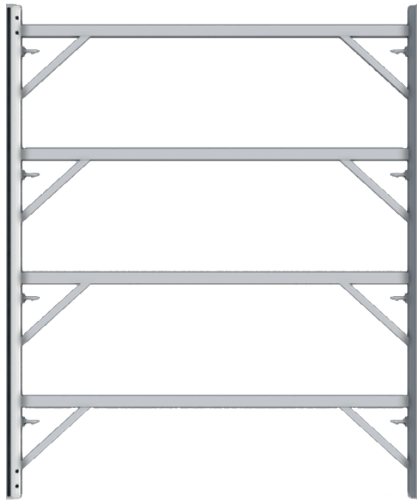


Fig. 4.1 MEVA32 - 8' frame



Fig. 4.2 MEVA32 - jet lock

Note:

Tie-off point allows safe working on the shoring towers during erection and dismantle, provided towers are only climbed on the interior and towers are adequately braced to prevent tipping. Tie-off points should only be used with suitable positioning device systems as described in OSHA 1926-502(e), supplied by others, or other safety devices limiting maximum anchor point forces to 3000 lbs (13.34 kN) or less. Tie-off points should not be used for lifting.

Refer to Fig. 4.5 for acceptable tie-off locations.

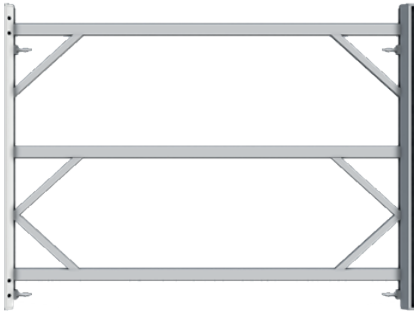


Fig. 4.3 MEVA32 - 5' frame

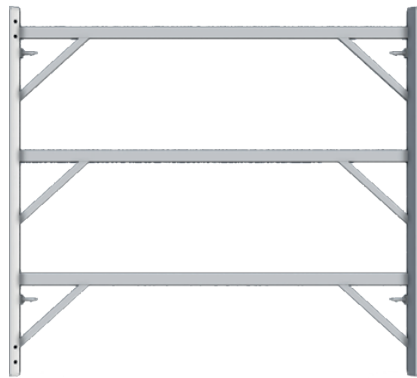


Fig. 4.4 MEVA32 - 6' frame

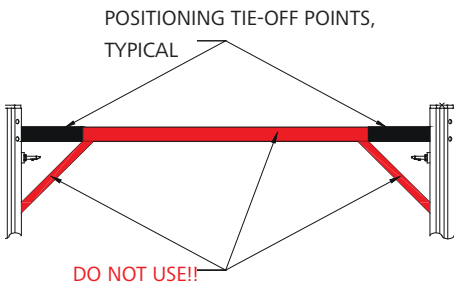


Fig. 4.5 MEVA32 - Tie-off positions

Description	Ref.-No.
MEVA32 Frames	
8'.....	2-500-2993200
6'.....	2-500-2993220
5'.....	2-500-2993240
4'.....	2-500-2993260

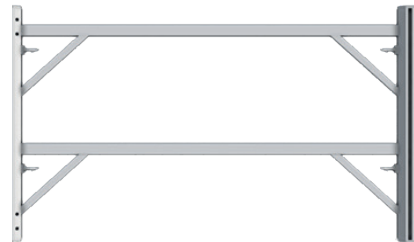


Fig. 4.6 MEVA32 - 4' frame

MEVA32 Cross Braces

MEVA32 cross braces all have a vertical height between jet-lock attachment points on frames of 4' (1219.2 mm), and create braced towers of MEVA32 frames starting at 3' (914.4 mm) length, in 1' (304.8 mm) increments, up to 9' (2743.2 mm).

Cross braces may sometimes be overlapped or attached at the same level as a lower cross brace. For example, when stacking 4' (1219.2 mm) frames on top of another frame the cross braces are attached to the top jet lock location of the 4' (1219.2 mm) frame and overlap down to the lower frame top jet-lock location.

All cross braces are color coded (Fig. 5.2).

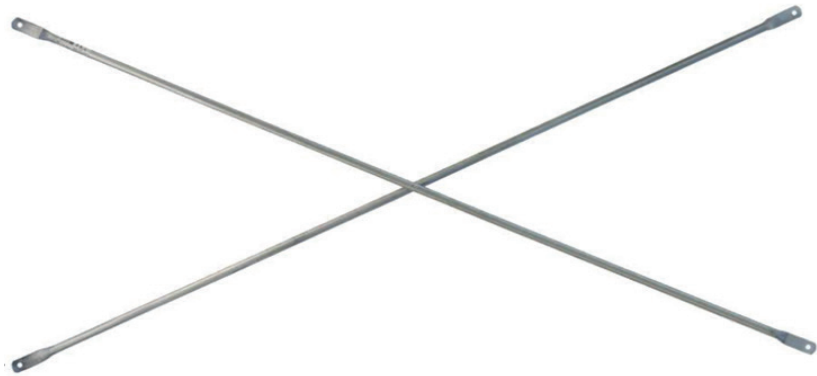


Fig. 5.1

COLOR DESIGNATION	MEVA32 CROSS BRACE BAY LENGTH	MEVA32 CROSS BRACE HOLE TO HOLE DIAGONAL LENGTH
PURPLE	9' (2743.2 mm)	9'-10 3/16" (3002.0 mm)
YELLOW	8' (2438.4 mm)	8'-9 5/16" (2674.9 mm)
ORANGE	7' (2133.6 mm)	8'-0 3/4" (2457.5 mm)
PINK	6' (1828.8 mm)	7'-2 9/16" (2198.7 mm)
BLUE	5' (1524.0 mm)	6'-4 13/16" (1951.0 mm)
GREEN	4' (1219.2 mm)	5'-7 7/8" (1724.0 mm)
WHITE	3' (914.4 mm)	5'-0" (1524.0 mm)

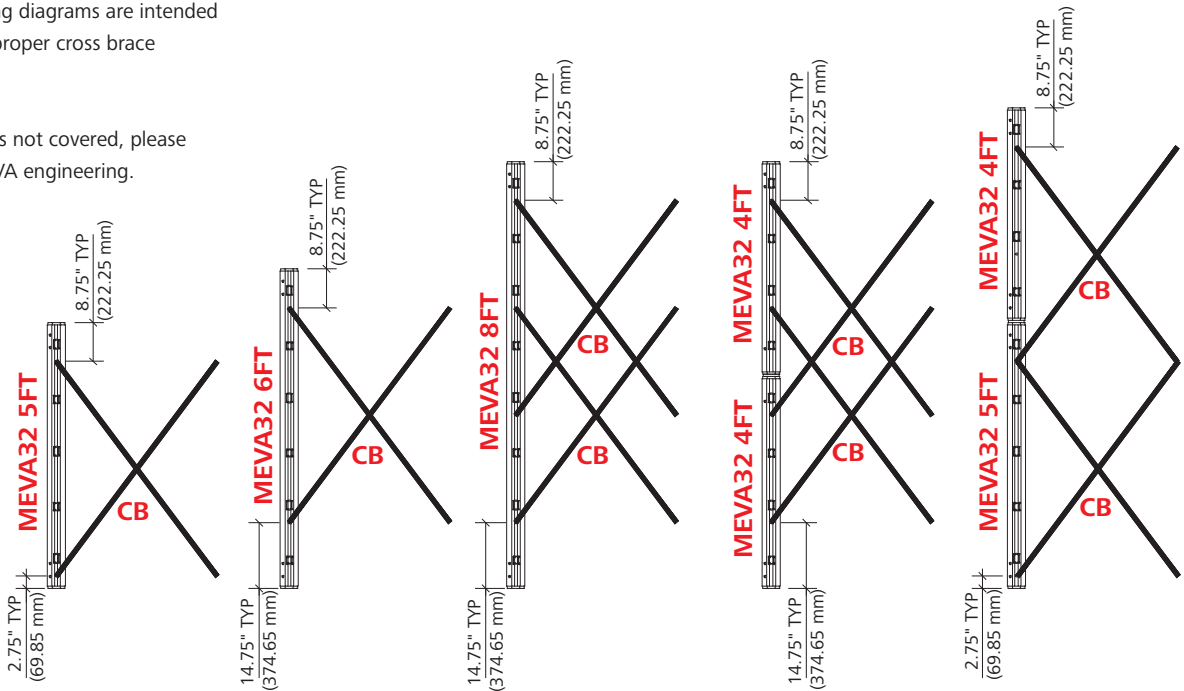
Fig. 5.2

Description	Ref.-No.
MEVA32 Cross Braces	
3' x 4' (white)	2-500-2993468
4' x 4' (green)	2-500-2993472
5' x 4' (blue)	2-500-2993476
6' x 4' (pink)	2-500-2993480
7' x 4' (orange)	2-500-2993484
8' x 4' (yellow)	2-500-2993488
9' x 4' (purple)	2-500-2993492

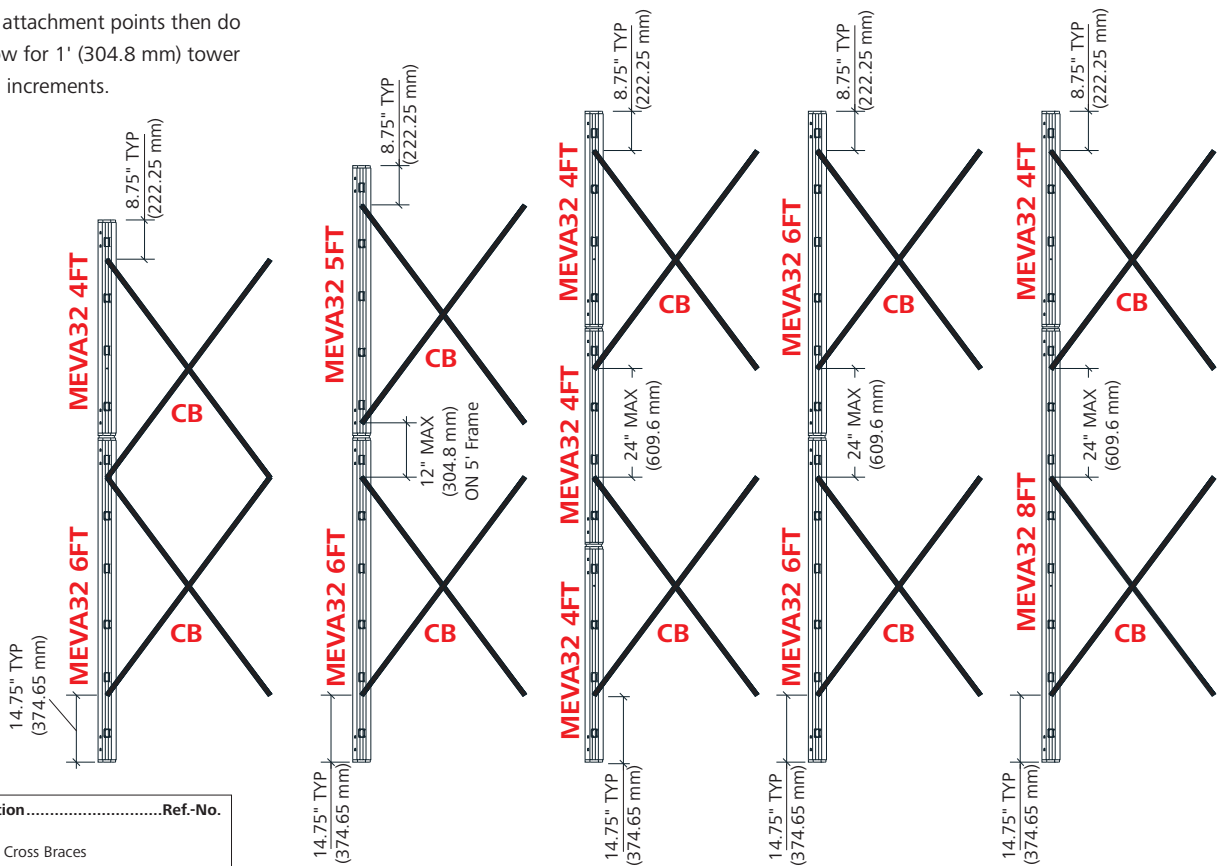
Cross Brace Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper cross brace placement.

For scenarios not covered, please contact MEVA engineering.

**NOTE:**

4' (1219.2 mm) frames may be used alone, however the cross brace vertical attachment points then do not allow for 1' (304.8 mm) tower spacing increments.

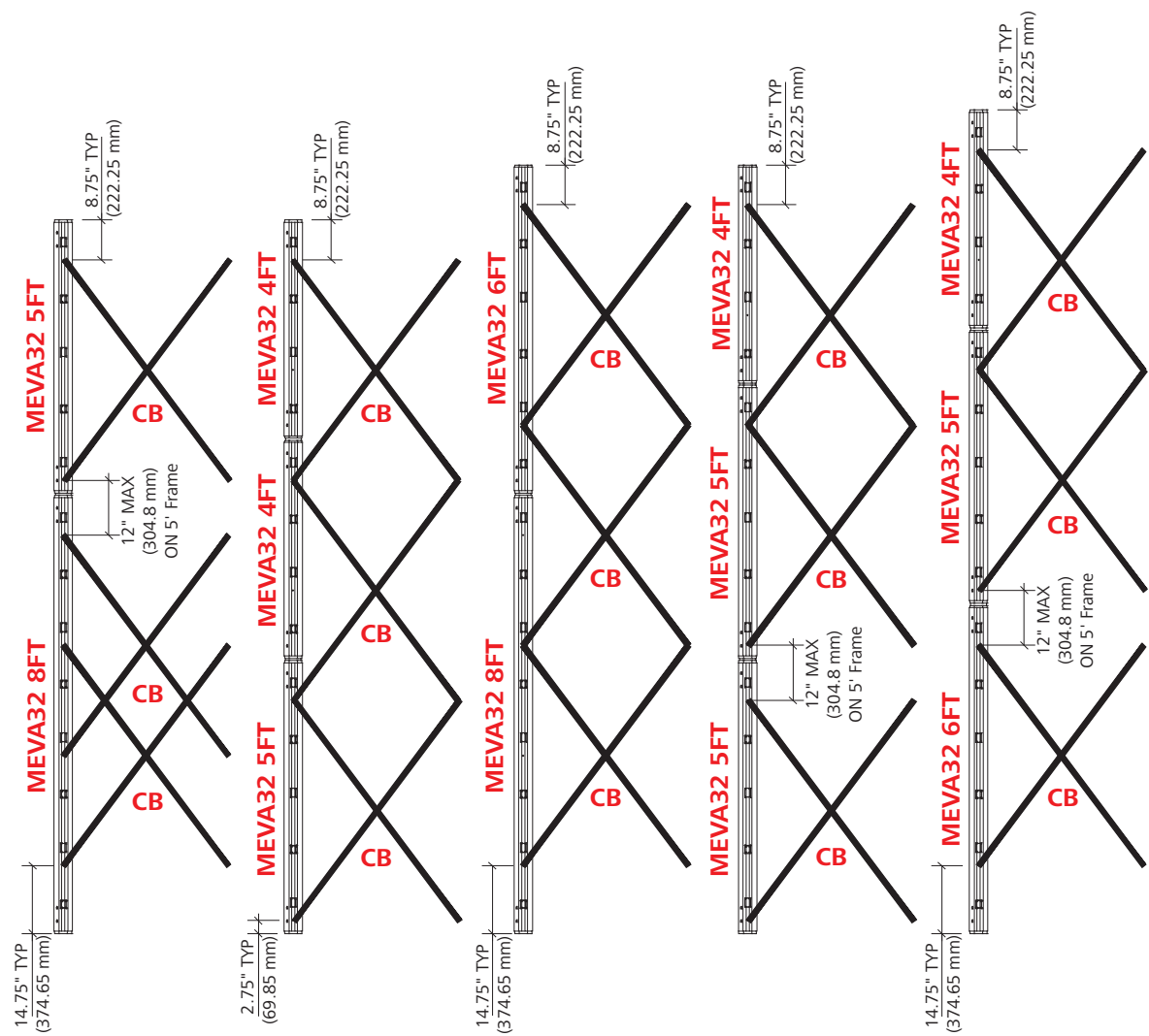


Description	Ref.-No.
MEVA32 Cross Braces	
3' x 4' (white)	2-500-2993468
4' x 4' (green)	2-500-2993472
5' x 4' (blue)	2-500-2993476
6' x 4' (pink)	2-500-2993480
7' x 4' (orange)	2-500-2993484
8' x 4' (yellow)	2-500-2993488
9' x 4' (purple)	2-500-2993492

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The following diagrams are intended to indicate proper cross brace placement.

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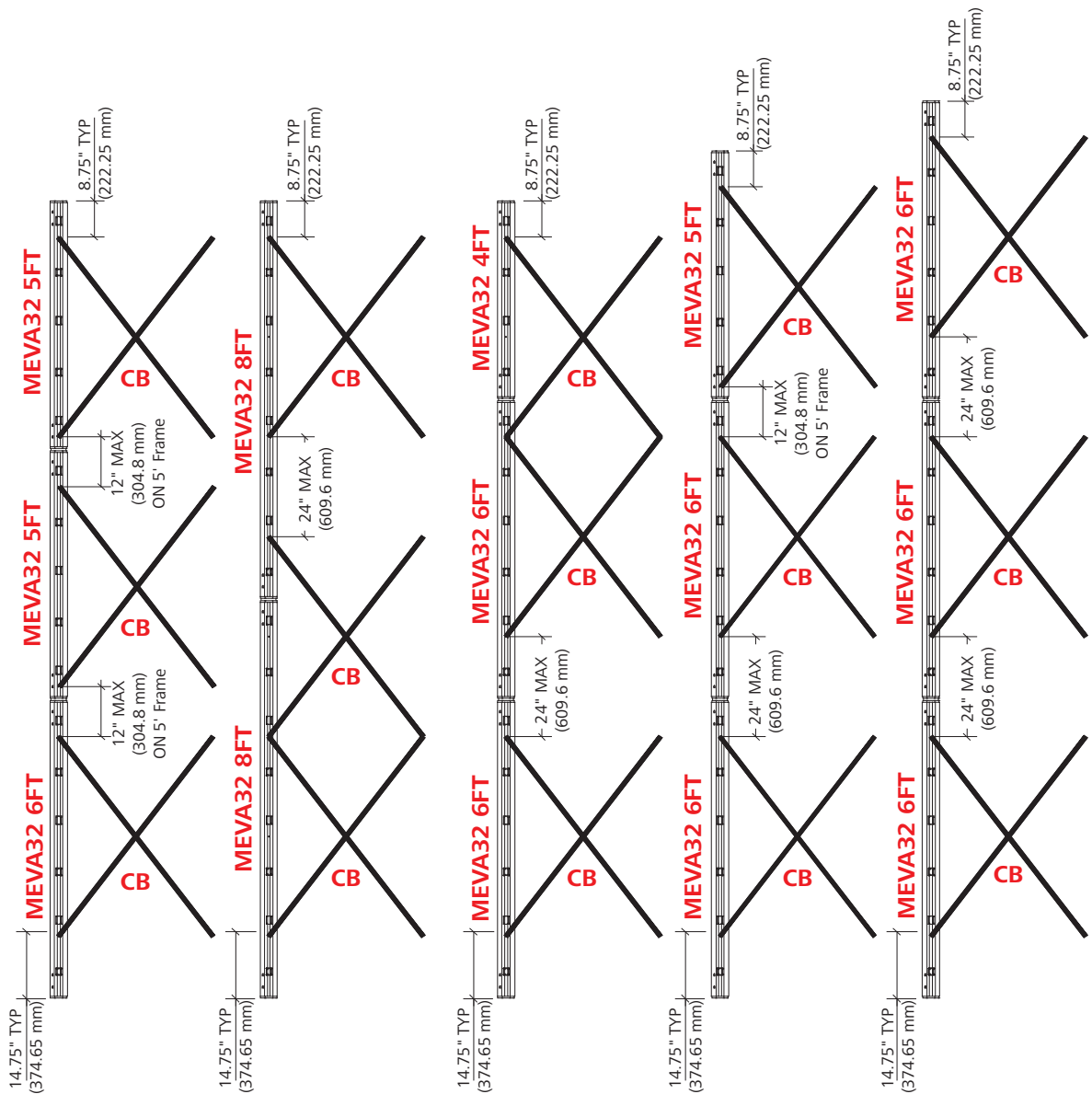


Description.....	Ref.-No.
MEVA32 Cross Braces	
3' x 4' (white)	2-500-2993468
4' x 4' (green)	2-500-2993472
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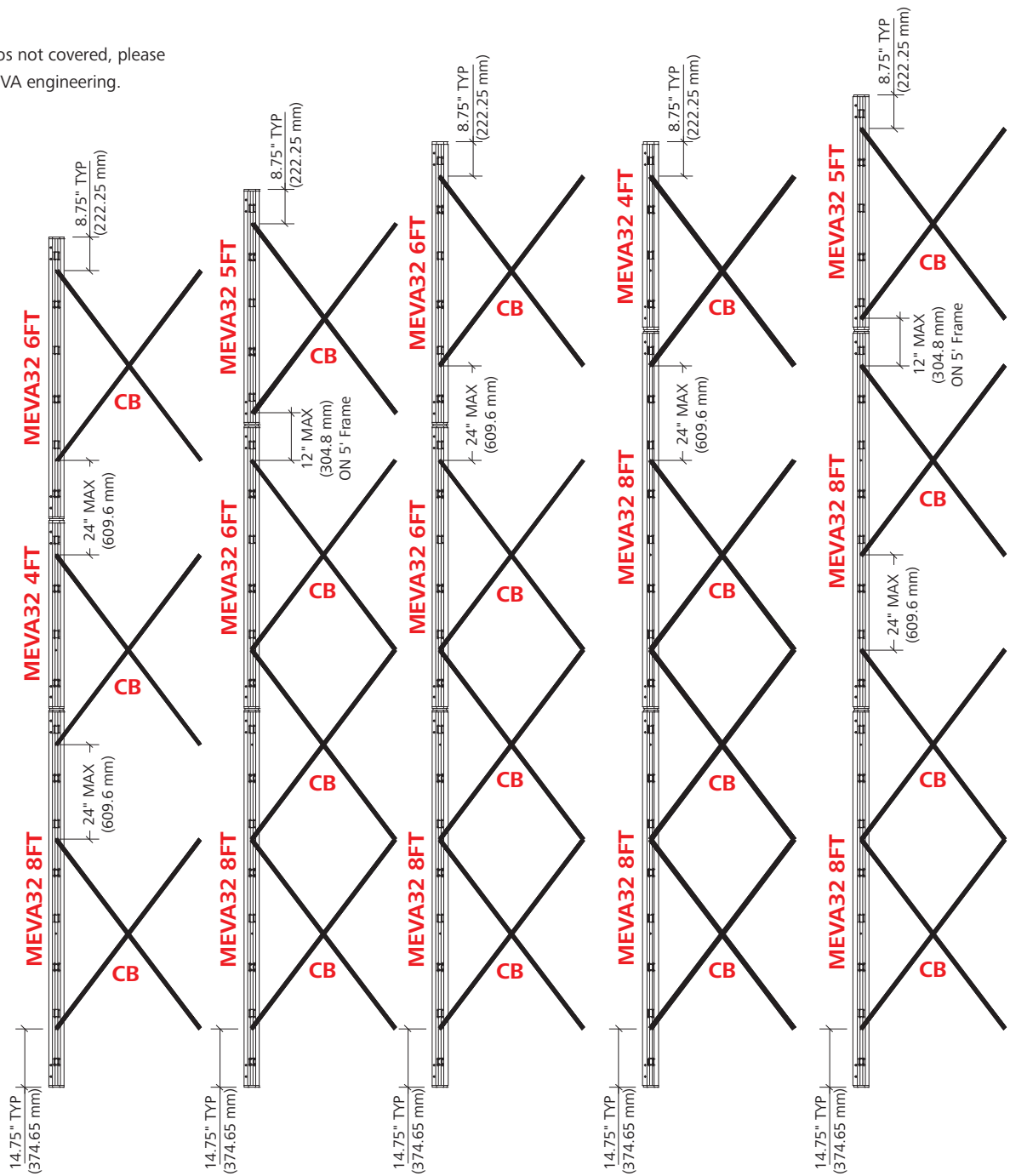


Description	Ref.-No.
MEVA32 Cross Braces	
3' x 4' (white)	2-500-2993468
4' x 4' (green)	2-500-2993472
5' x 4' (blue)	2-500-2993476
6' x 4' (pink)	2-500-2993480
7' x 4' (orange)	2-500-2993484
8' x 4' (yellow)	2-500-2993488
9' x 4' (purple)	2-500-2993492

Cross Brace Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper cross brace placement.

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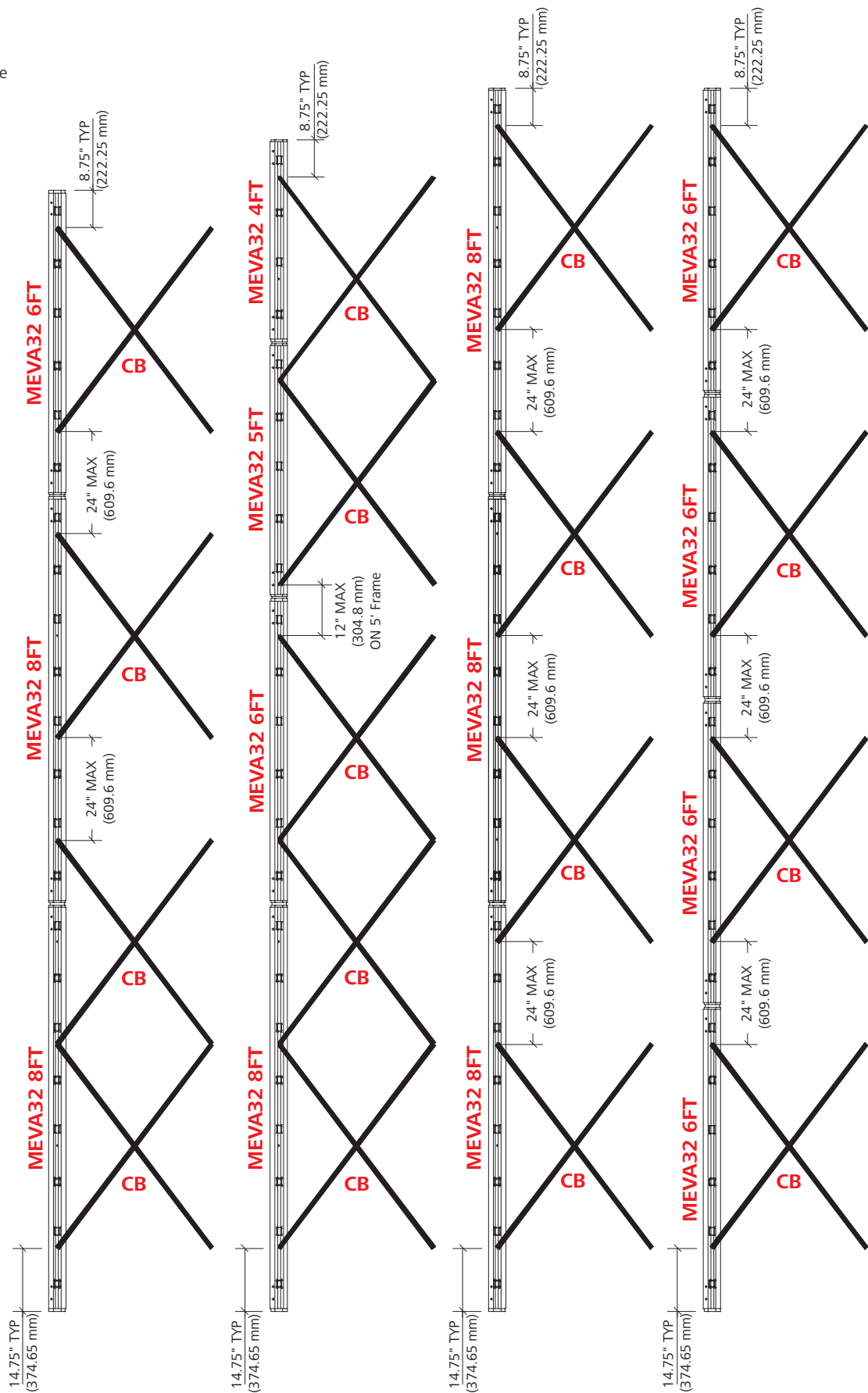


Description	Ref.-No.
MEVA32 Cross Braces	
3' x 4' (white)	2-500-2993468
4' x 4' (green)	2-500-2993472
5' x 4' (blue)	2-500-2993476
6' x 4' (pink)	2-500-2993480
7' x 4' (orange)	2-500-2993484
8' x 4' (yellow)	2-500-2993488
9' x 4' (purple)	2-500-2993492

Cross Brace Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper cross brace placement.

For scenarios not covered, please contact MEVA engineering.



MEVA32 Vertical Frame Connection

MEVA32 frames are stacked using the Frame Connector and the Frame Pin Assembly. The thickness of the spacer plate on the frame connector is 0.5" (12.7 mm).

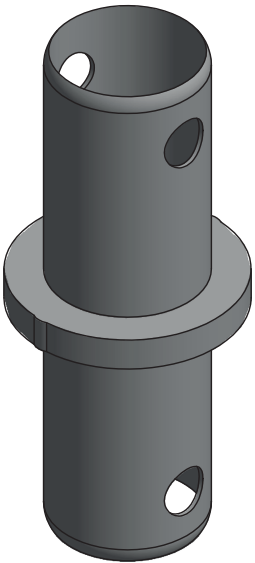


Fig. 11.1 Frame Connector



Fig. 11.2 Frame Pin Assembly

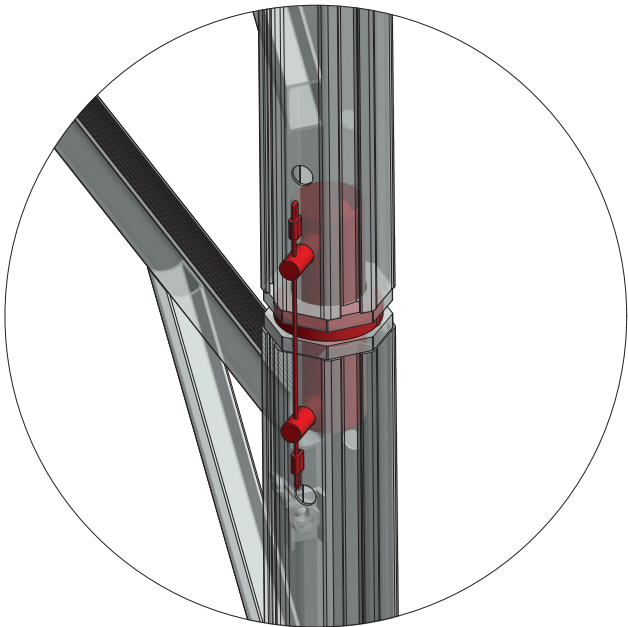


Fig. 11.3

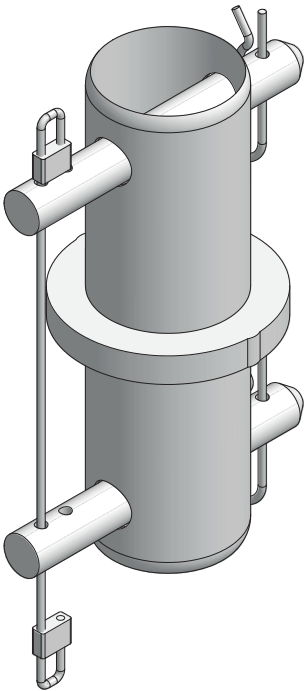


Fig. 11.1 Frame Connector & Pin Assembly

Description.....	Ref.-No.
M32 Frame connector ...	2-500-2993200
M32 Frame Pin assembly	2-500-2993220

Shoring System

MEP Gates

Towers and table forms can be constructed using MEP gates. The gates are attached to the frame at the T-groove of the aluminum profile. After mounting the gates to the MEVA32 frame, the hammerhead screw must be in horizontal position and the eye nut tightened (Fig. 12.6).

MEVA recommends a walk through to check that all hammerhead screws are in horizontal position before moving of tables begins.

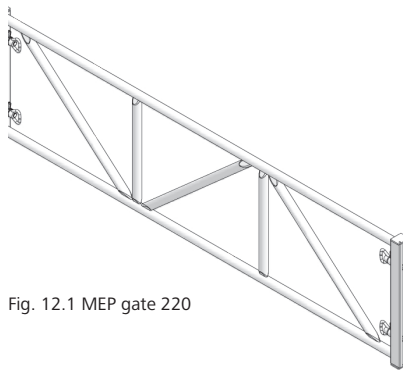


Fig. 12.1 MEP gate 220

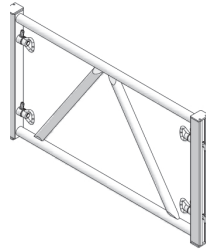


Fig. 12.2 MEP gate 110

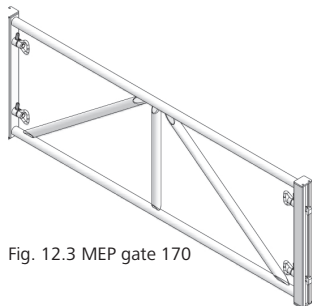


Fig. 12.3 MEP gate 170

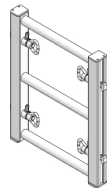
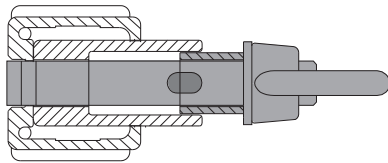
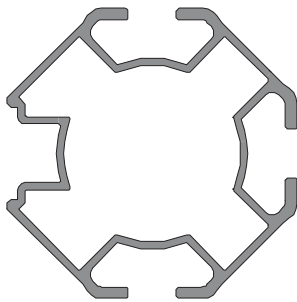
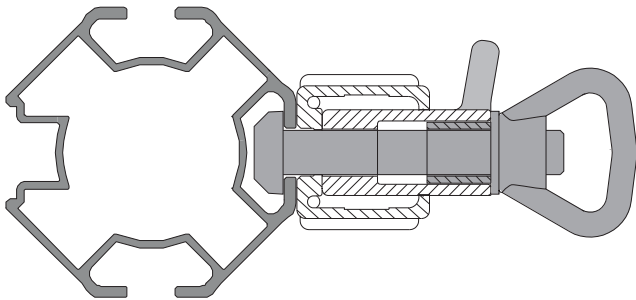


Fig. 12.4 MEP gate 55



Hammerhead screw
in vertical position
before attachment

Fig. 12.5: Before attachment



Hammerhead screw
in horizontal position
after attachment,
and eye nut tight-
ened

Fig. 12.6: After attachment

Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

Shoring System

MEP Gates with MEVA32 for Tables

MEP Gates can be used in conjunction with MEVA32 frames, to create high strength shoring tables or moveable towers, for high efficiency in repetitive structures. Single aluminum stringers are used on smaller tables and for larger tables, depending on table size and slab thickness, double stringers may be required. The maximum table size that can be achieved using standard MEVA Aluminum Beam and Aluminum Stringer material is 24' x 24' (7315.2 mm x 7315.2 mm) in plan. Actual table sizes may differ due to slab thickness and the geometry of the building, and larger tables are possible with supplemental material.

Contact MEVA engineering if tables larger than 24' x 24' (7315.2 mm x 7315.2 mm) in plan are required.

Aluminum joists are connected to aluminum stringers using A-clamps; and aluminum stringers are connected to forkheads using the twist bolt assembly.

MEP Lift Trucks can be used to lower and easily move the tables and towers around the job site (Fig. 13.3).

The MEVA32 Frame Caster Adapter can be connected to the horizontals on the MEVA32 frame using the Swivel joint coupler 48/60 (flip upside-down and relocate caster to other end when used on 5' (1524.0 mm) frames).

Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25
MEP lift truck.....	29-909-50
MEVA32 frame caster adapter	
.....	2-500-2993364
Swivel-joint coupler 48/60	
2-500-2941253	
A-clamp assembly.....	2-500-2990704
Twist-bolt assembly.....	2-500-2993391

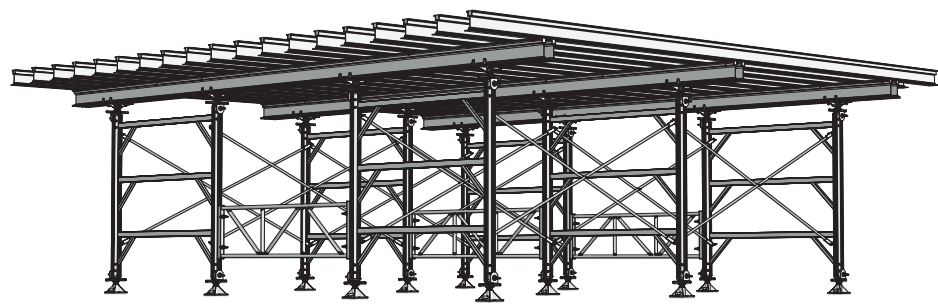


Fig. 13.1 MEVA32 24'x24' (7315.2 mm x 7315.2 mm) table with MEP gates

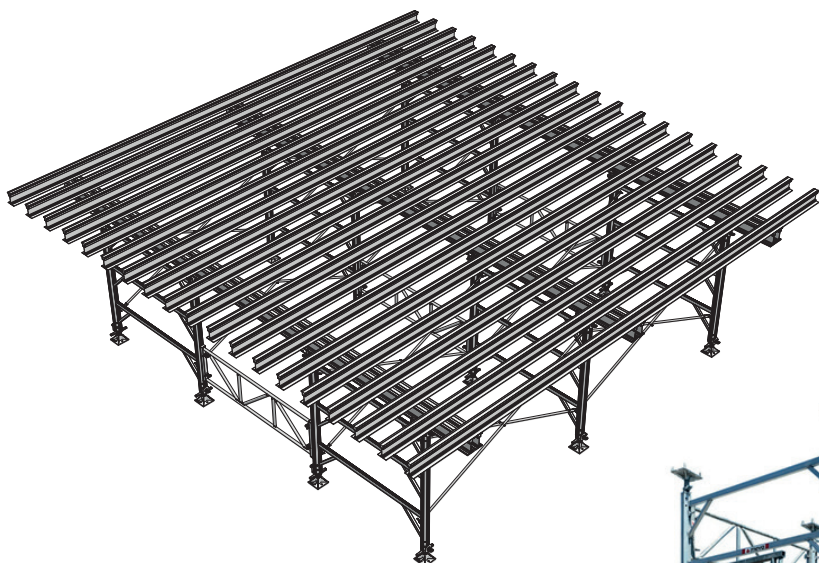


Fig. 13.2 MEVA32 24'x24' (7315.2 mm x 7315.2 mm) table with MEP gates



Fig. 13.3 MEVA32 table with MEP Lift trucks

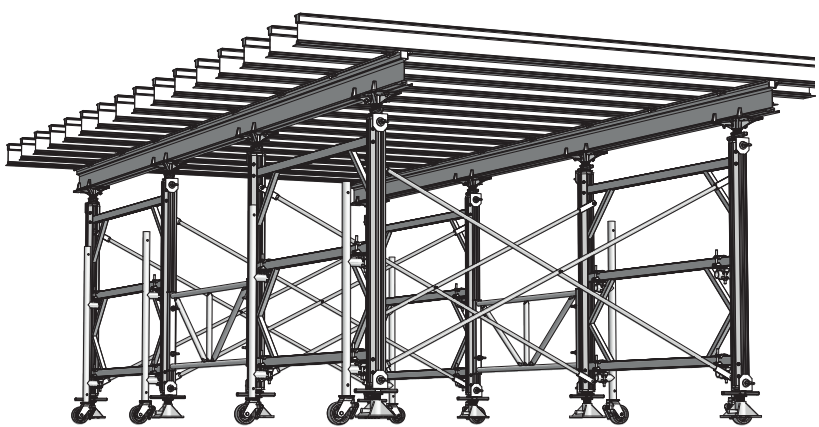


Fig. 13.4 MEVA32 table with MEP gates

MEP Lift Truck

MEP lift truck

If you move a table with the MEP lift trucks, you need at least two of them. The lift truck has a safety mechanism protecting against uplift and tilting. The mechanism is attached to the top of the MEP gate. The height adjustment is achieved by using the jack. The maximum capacity per lift truck is 500 kg. For dimensions see page 44.

How to use the lift truck:

- Move the lift truck to the required location.
- Adjust the height and place the safety mechanism across the gate or MEVA32 frame.
- Adjust the screw jacks to a convenient height.
- Lower the table or the shoring structure with the jacks.
- Move the unit to the next location.
- Set the table in place.
- Jack up the lift truck.
- Extend the screw jacks to the required height.
- Remove the lift truck.

Attention:

Before you lift the table, make sure the safety mechanism is unlocked.

There are two methods of attaching to the frame:

- Short suspension (front) for MEVA32 frames or MEP gate 110 (Fig. 14.3).
- Long suspension (back) for MEP gates 170 and 220 (Fig. 14.3).

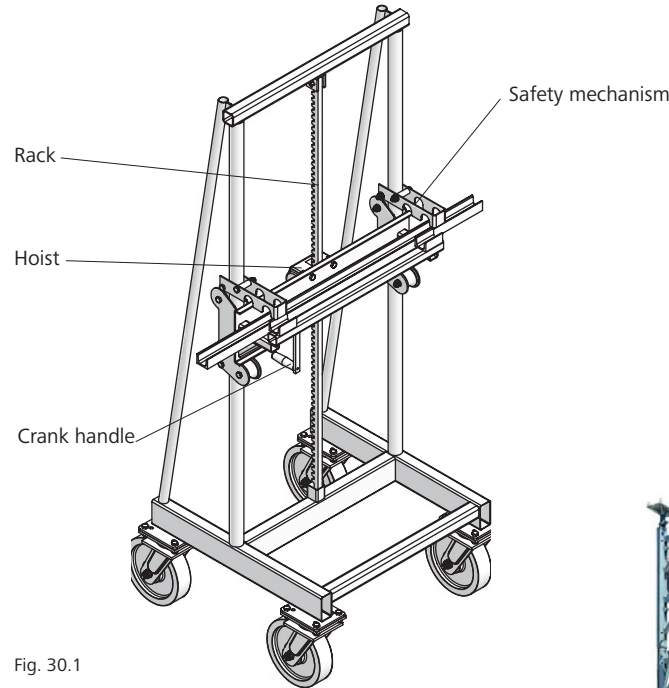


Fig. 30.1

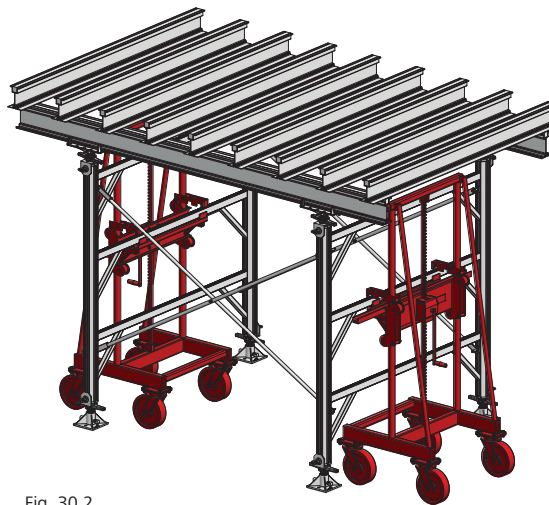
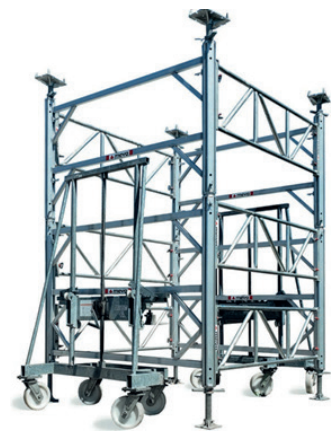


Fig. 30.2

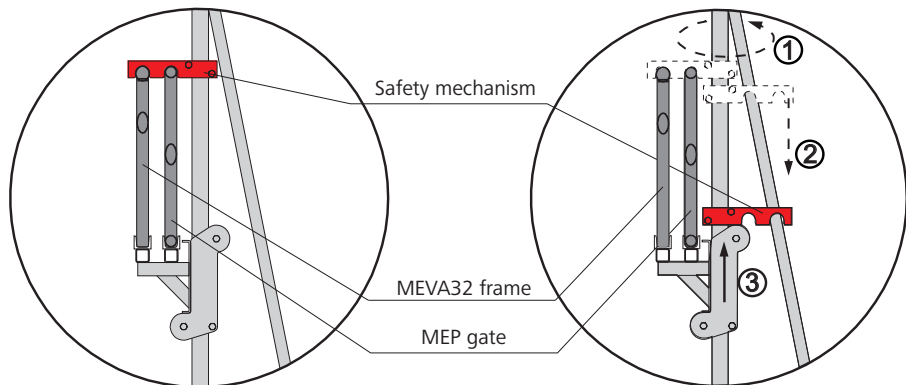


Fig. 30.3 In locked position

Fig. 30.4 In unlocked position

Description.....	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25
MEP lift truck.....	29-909-50

Shoring System

Assembly of Towers with MEP Gates

When individual towers are built with MEP gates instead of cross braces, this allows the towers to be built on their side and lifted into place. This is particularly advantageous for building and installing tall towers as it avoids the need for climbing the towers during assembly. Jack retention clips may also be used to ensure the jacks remain with the tower during lifting.

Alternatively, if towers are built vertically with cross braces, they may still be crane handled but some form of lifting frame (e.g. Fig. 15.5) must be used to ensure horizontal forces are not imparted into the tower assembly during lifting. Frame connectors, frame pins assemblies and jack retention clips must also be installed.

Contact your local lifting and rigging specialist to source a suitable lifting frame.

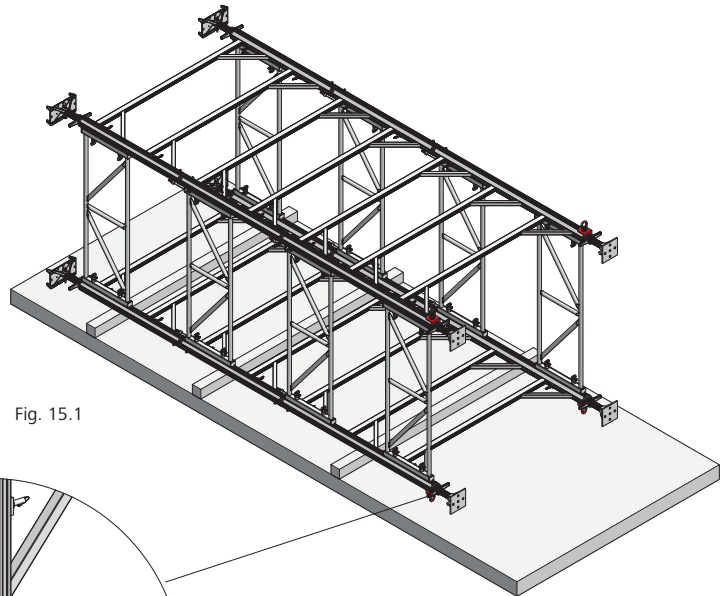


Fig. 15.1

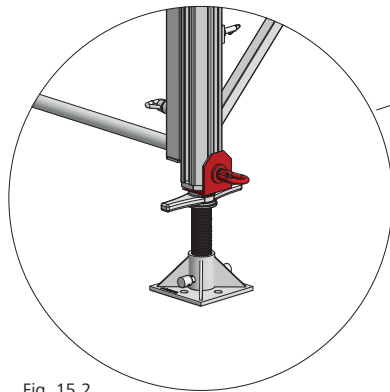
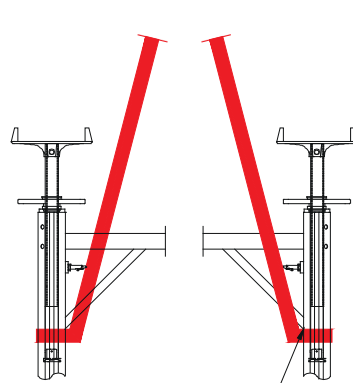


Fig. 15.2



Choke around vertical and wrap lifting straps under diagonal cross member!

Fig. 15.3

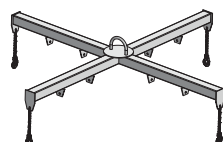


Fig. 15.5

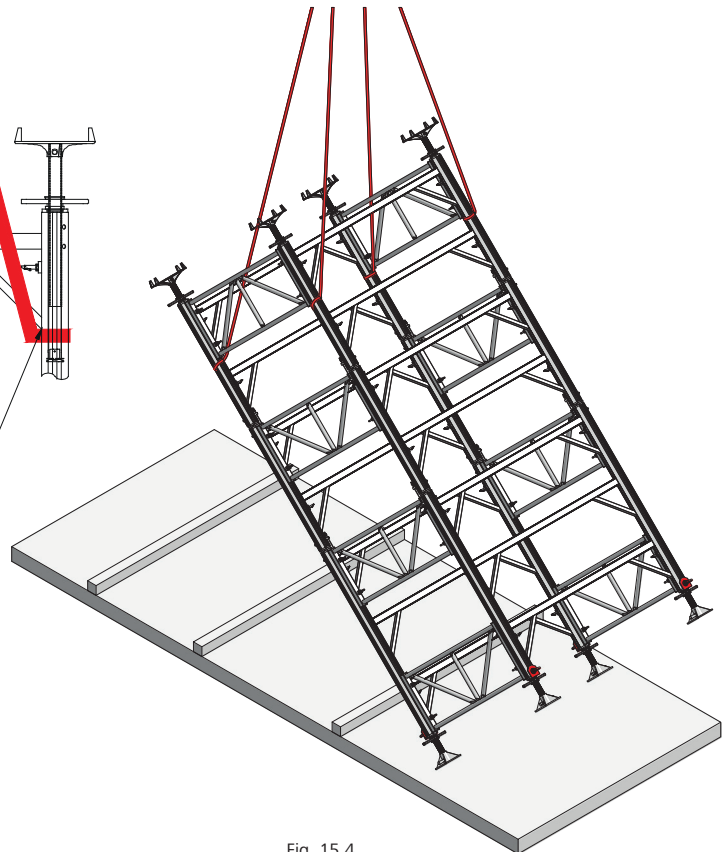
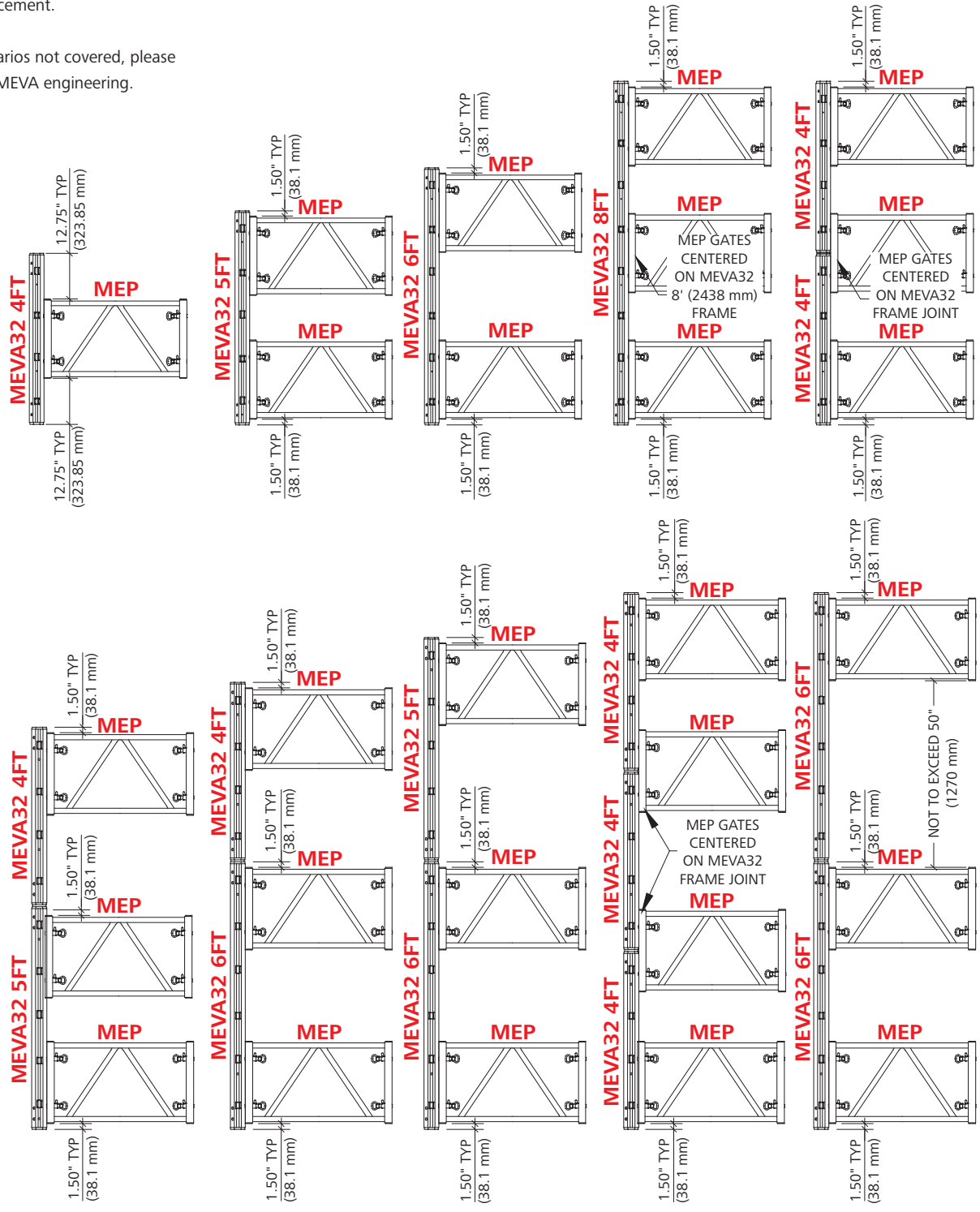


Fig. 15.4

MEP Gate Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper MEP Gate placement.

For scenarios not covered, please contact MEVA engineering.

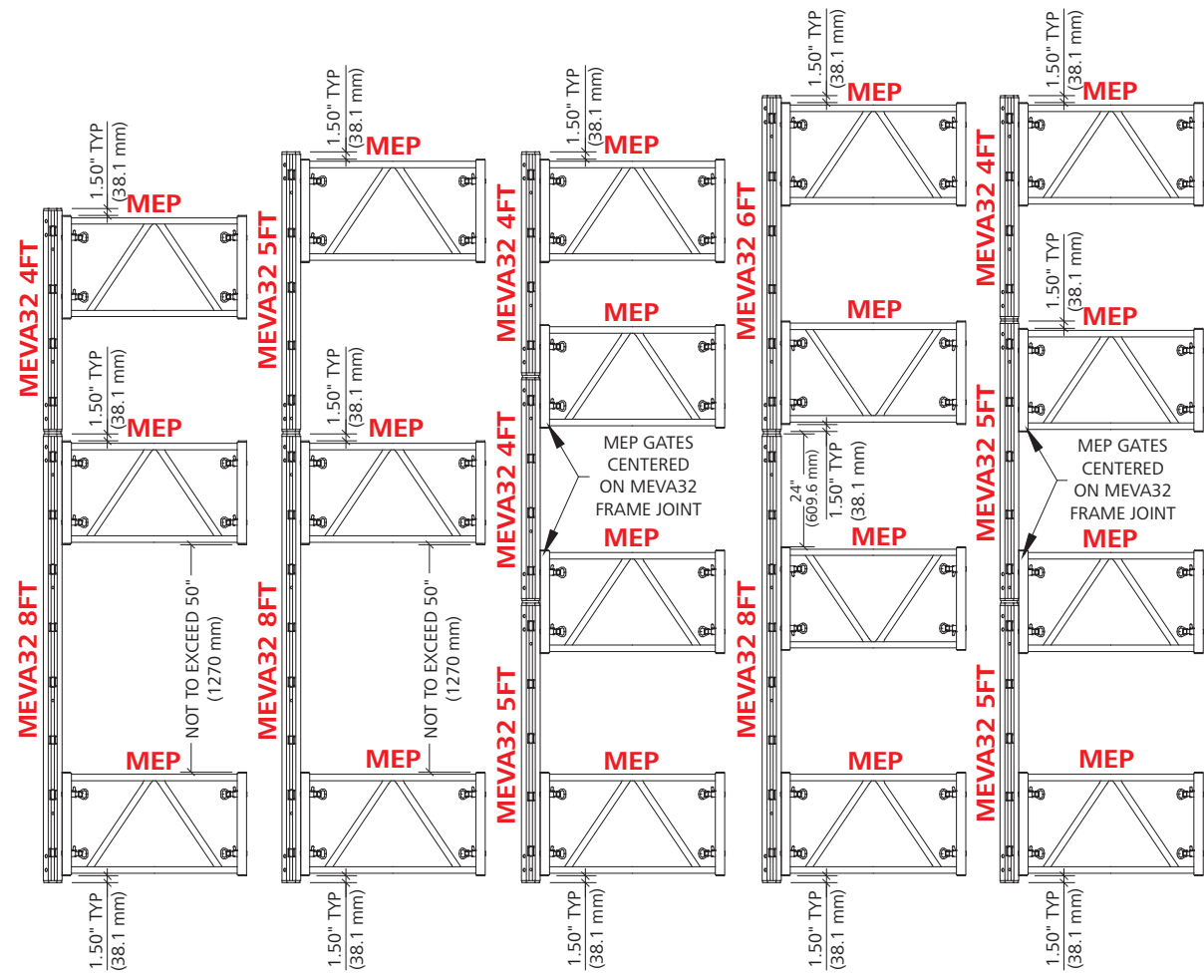


Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

MEP Gate Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper MEP Gate placement.

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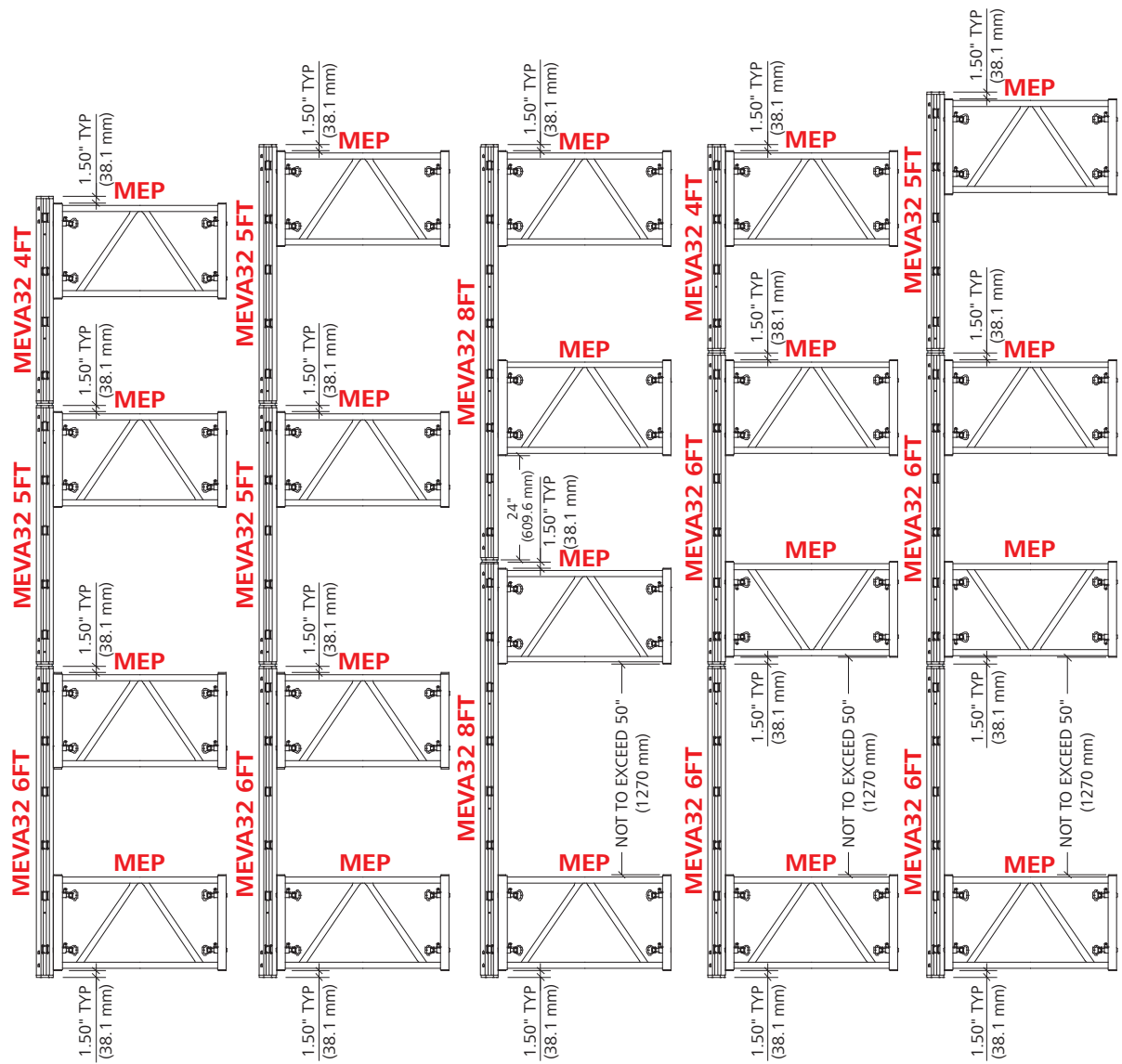


Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

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The following diagrams are intended to indicate proper MEP Gate placement.

For scenarios not covered, please contact MEVA engineering.

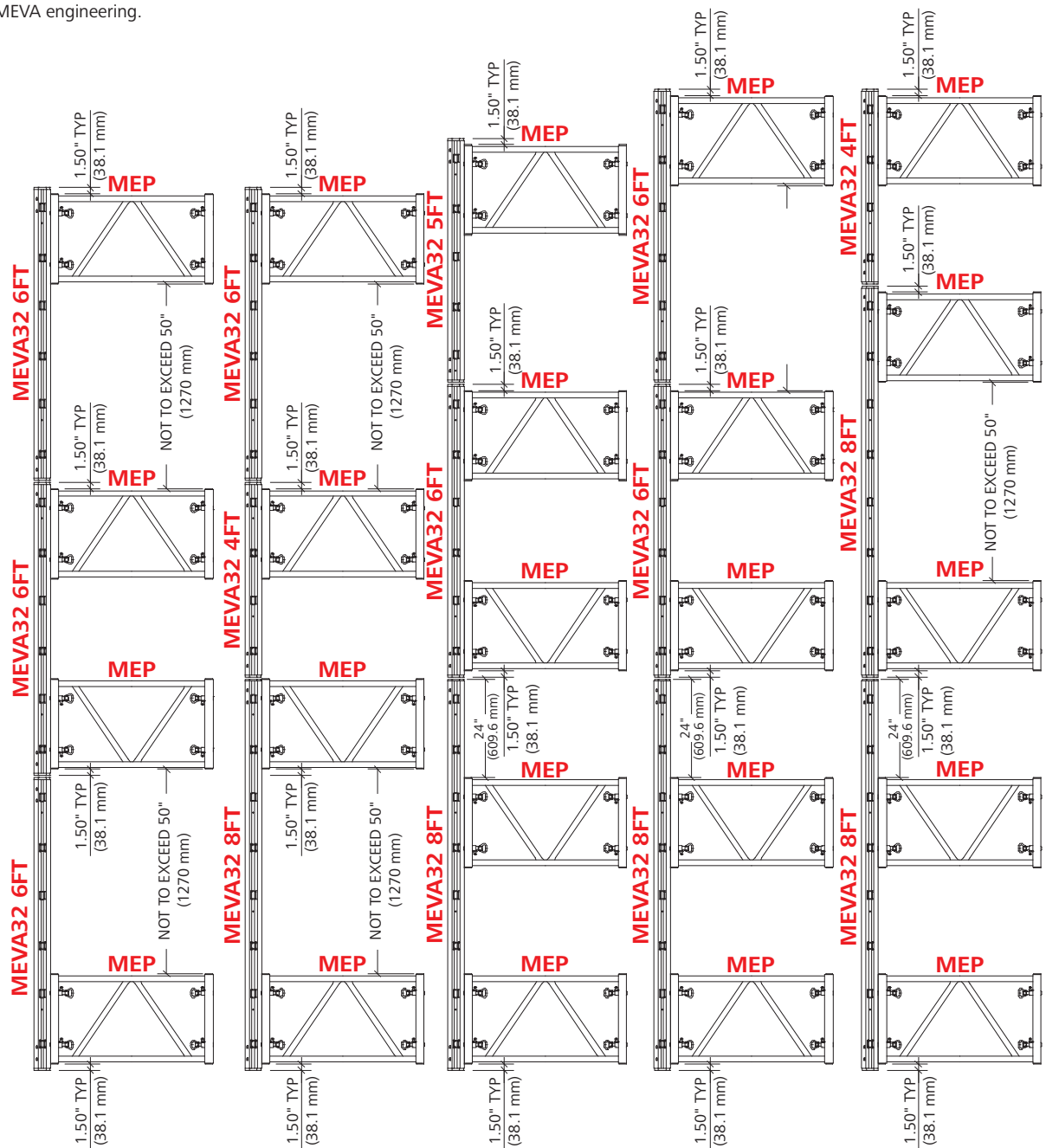


Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

MEP Gate Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper MEP Gate placement.

For scenarios not covered, please contact MEVA engineering.

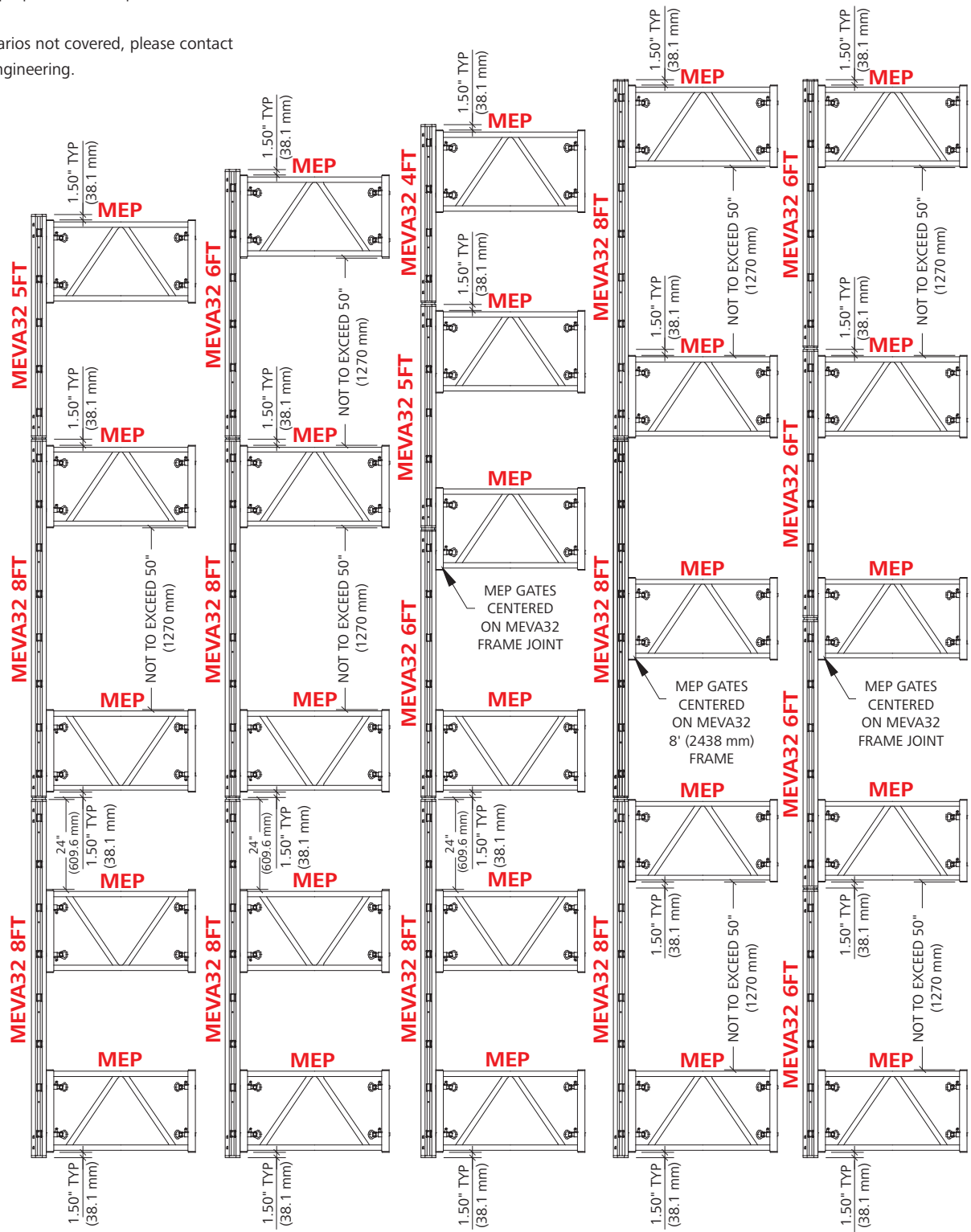


Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

MEP Gate Positioning with MEVA32 Tower Stacks

The following diagrams are intended to indicate proper MEP Gate placement.

For scenarios not covered, please contact MEVA engineering.



Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25

MEVA32 Base Jack and Stripping Base Jack

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm). Extension of jacks is measured from the bottom of the base to the underside of the frame leg.

Plastic caps on base screw jacks MUST be installed in ALL applications.

The Stripping Base Jack is generally used in applications where the leg load is expected to exceed 66.7 kN, but it may be used in applications with lower leg loads.

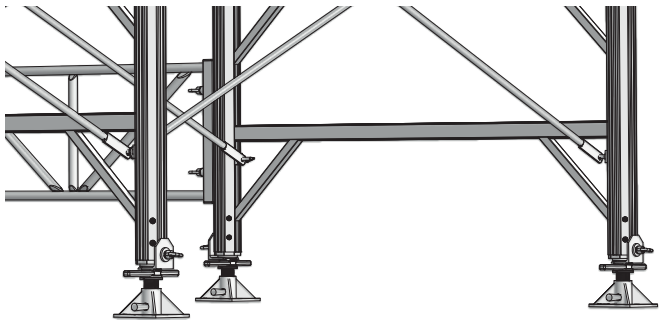


Fig. 21.1

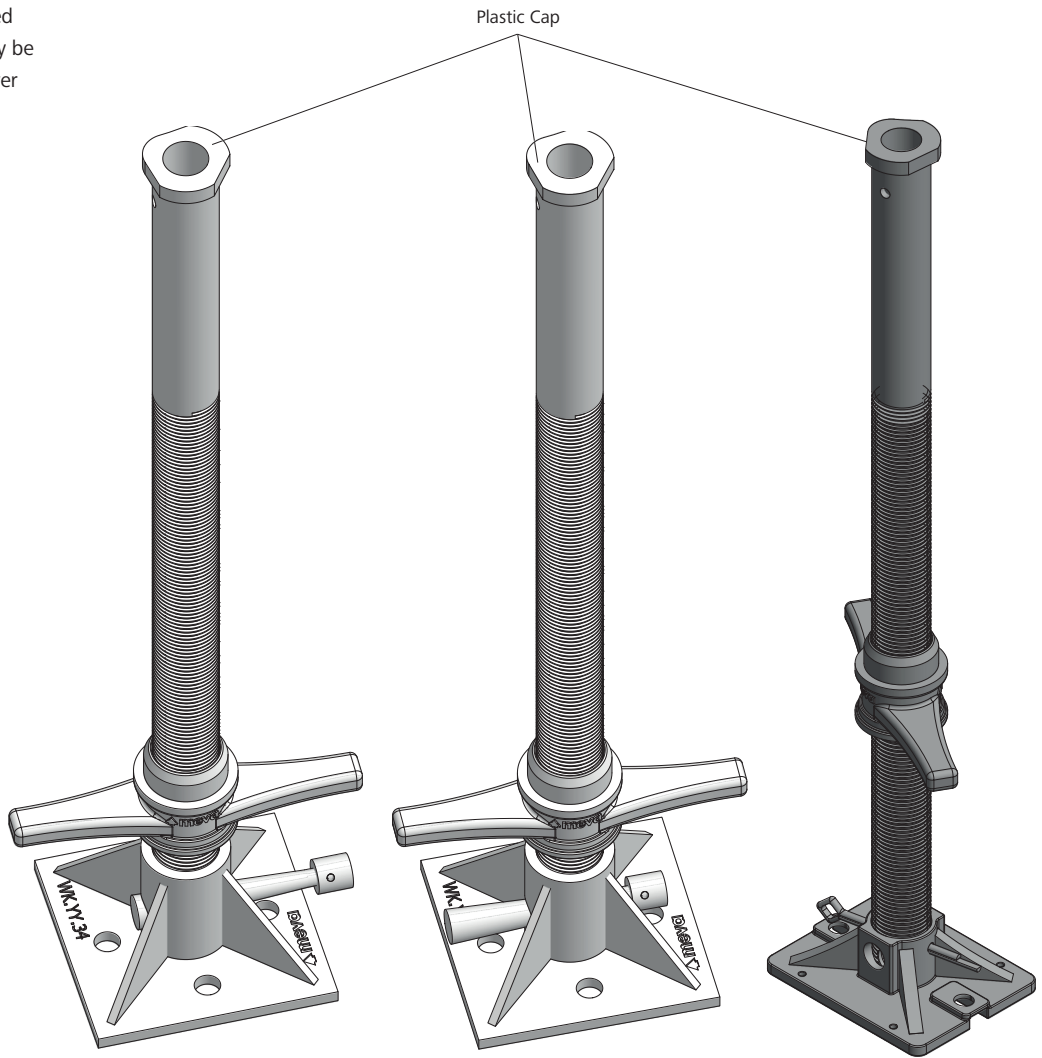


Fig. 21.2 Stripping Jack with tapered pin in set position

Fig. 21.2 Stripping Jack with tapered pin in stripped position

Fig. 21.3 Base Plate with Jack

Description	Ref.-No.
MEVA32 Base plate w/jack	2-500-2993310
MEVA32 Stripping base plate w/jack	2-500-2993315

Shoring System

MEVA32 Top Jack with Forkhead

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm). Extension of jacks is measured from the bottom of the stringer beam to the top of the frame leg.

Plastic caps on top screw jacks **MUST** be installed in ALL applications, apart from when used in Saddle Beams.

The width between the forks is 5" (127 mm) in one direction and 10" (254 mm) in the other direction, allowing for single stringer, double stringer, or lapped stringer placement.

The smaller slotted holes in the center of the short side of the forkhead and on each side of the longer sides allow the attachment of stringers to the forkhead using twist bolt, nut and washer where necessary, and the larger slotted hole in the center of the long side is to allow the attachment of the Saddle Beam to the Forkhead using a Flange Screw 28 and a 15 mm (5/8") diameter hex-nut or drive nut 60.

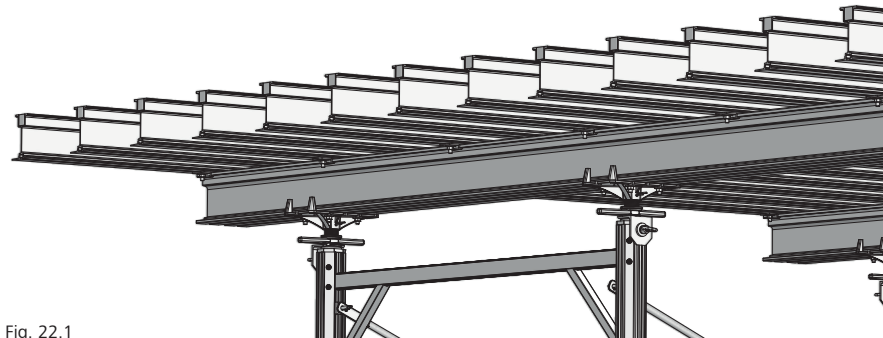


Fig. 22.1

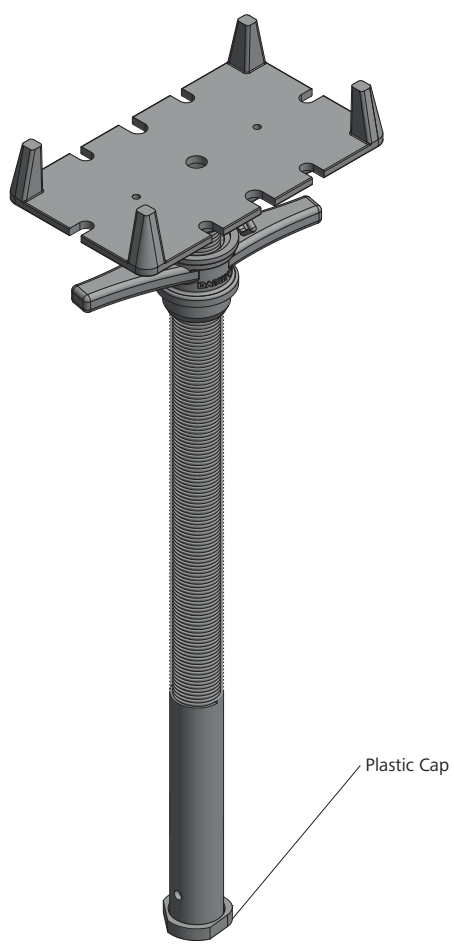


Fig. 22.2 Top Jack with Forkhead

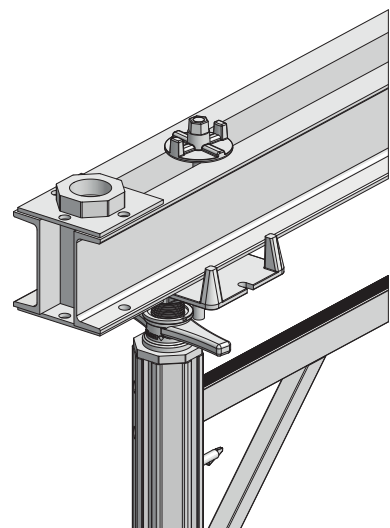


Fig. 22.3 Saddle beam attached to Top Jack

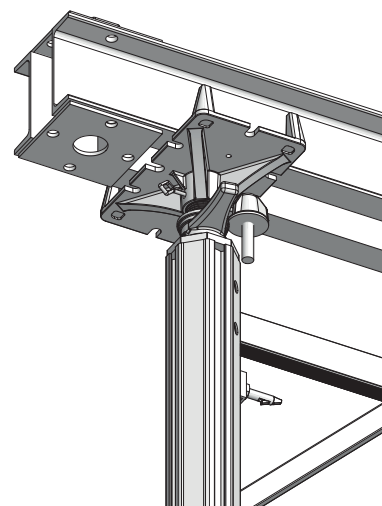


Fig. 22.4 Saddle beam attached to Top Jack

Description	Ref.-No.
MEVA32 Forkhead w/jack	2-500-2993300
Saddle beam 220	2-500-2990940
Flange nut 28	29-401-12
Drive nut 60	29-900-23
Twist-bolt assembly	2-500-2993391

MEVA32 Base Jack and Top Jack Measurement

Top jack measurement is from underside of stringer to top of frame, and base jack measurement is from bottom of frame to underside of base.

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm).

Plastic caps on screw jacks MUST be installed whenever a jack is used inside a MEAV32 Frame.

WARNING:
Jacks shall **NEVER** be used as substitute for frame connectors when stacking MEVA32 frames.

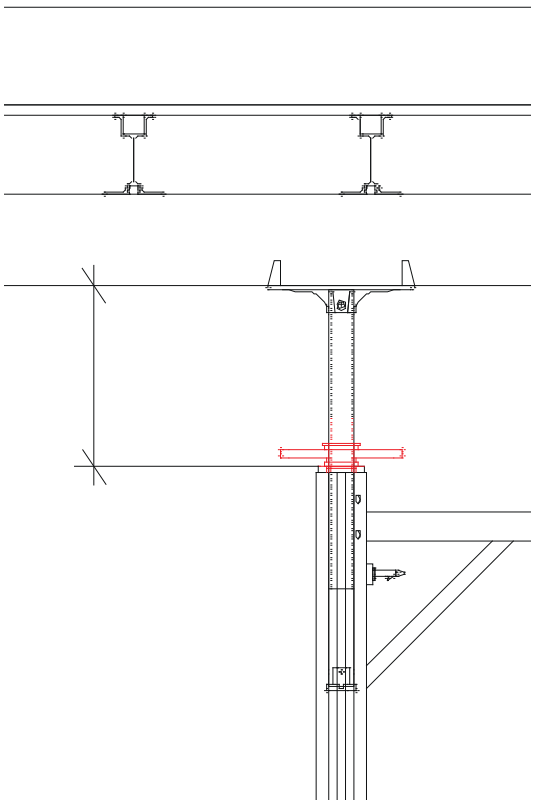


Fig. 23.1 Top Jack with Forkhead

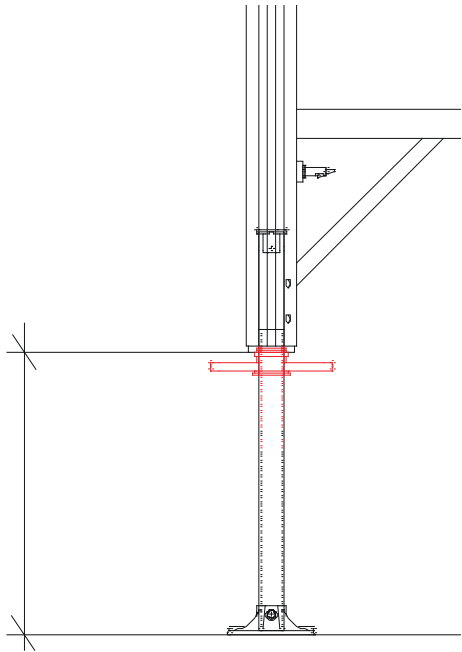


Fig. 23.2 Base Jack

Description.....	Ref.-No.
MEVA32 Forkhead w/jack	
.....	2-500-2993300
MEVA32 Base plate w/jack	
.....	2-500-2993310

MEVA32 Jack Retention Clip

The Jack Retention Clip is used on MEVA32 screw jacks when lifting shoring towers by crane or moving shoring as tables. The Jack Retention Clip can be used at the top or bottom of the MEVA32 frames.

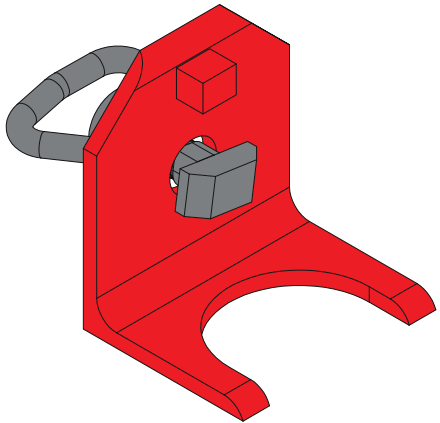


Fig. 24.1 Jack Retention Clip

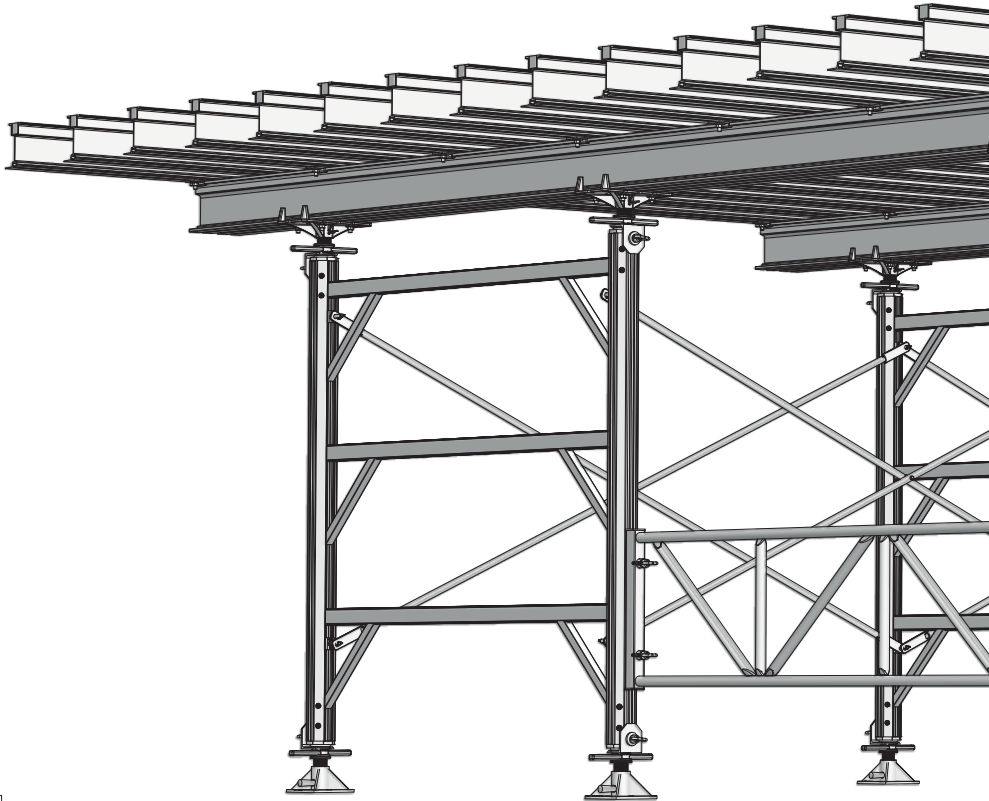


Fig. 24.2 Jack Retention Clip at base and top jack

Description	Ref.-No.
MEVA32 Forkhead w/jack	
.....	2-500-2993300
MEVA32 Base plate w/jack	
.....	2-500-2993310
MEVA32 Jack retention clip.....	
.....	2-500-2993380

Shoring System

MEVA32 Plain Base

The Plain Base can be used at the bottom or top of the frame when a screw jack is not necessary. The Plain Base is held in place using a Frame Pin Assembly. If used at the top, a Stringer may be used and held in place with A-Clamps.

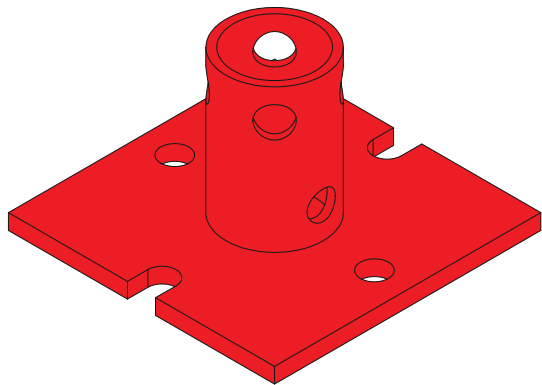


Fig. 25.1 Plain Base

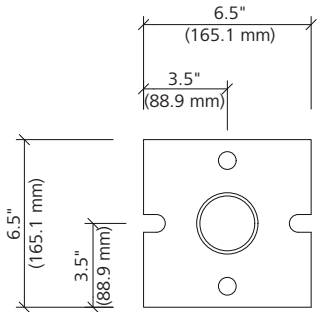


Fig. 25.2 Plain Base

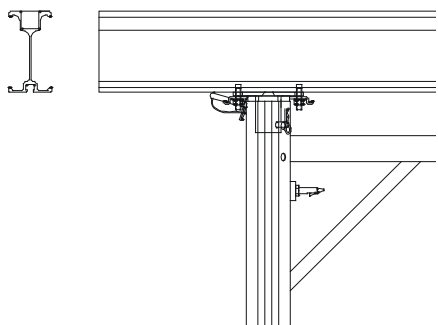
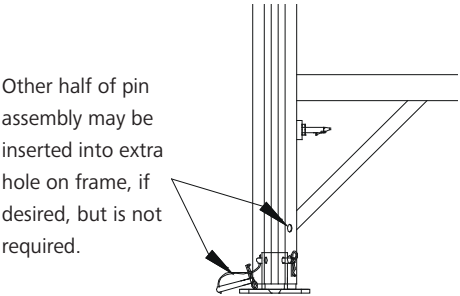


Fig. 25.3 Plain Base at top of the frame



Other half of pin assembly may be inserted into extra hole on frame, if desired, but is not required.

Fig. 25.4 Plain Base at bottom of frame

Description.....	Ref.-No.
MEVA32 Plain Base.....	2-500-2993382
MEVA32 Frame pin assembly.....	2-500-2993355
A clamp assembly.....	2-500-2990704

Tube Coupler DK48

The tube coupler DK 48 allows for attaching scaffold tubes (d = 1.9" / 48 mm) to the MEVA32 shoring system. Scaffold tubes are used to take lateral forces and/or as railing.

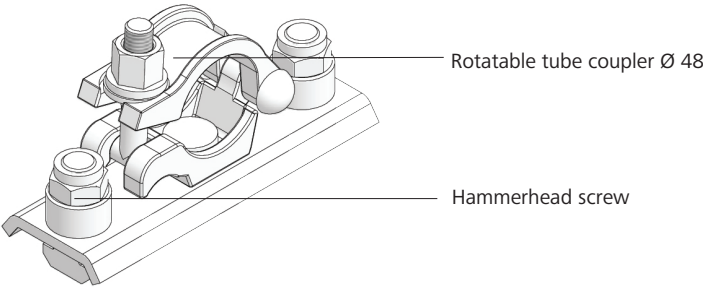


Fig. 26.1

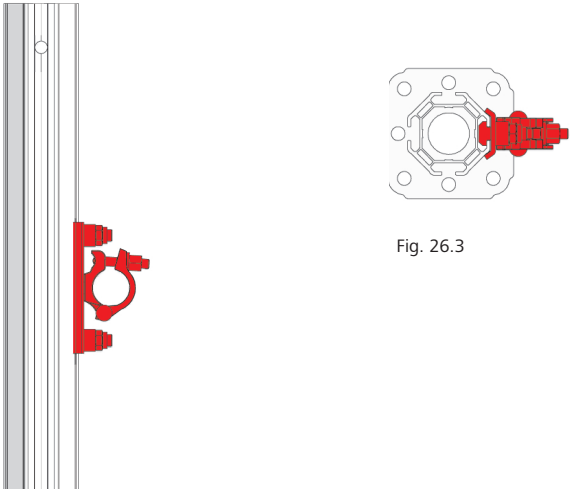


Fig. 26.3

Fig. 26.2

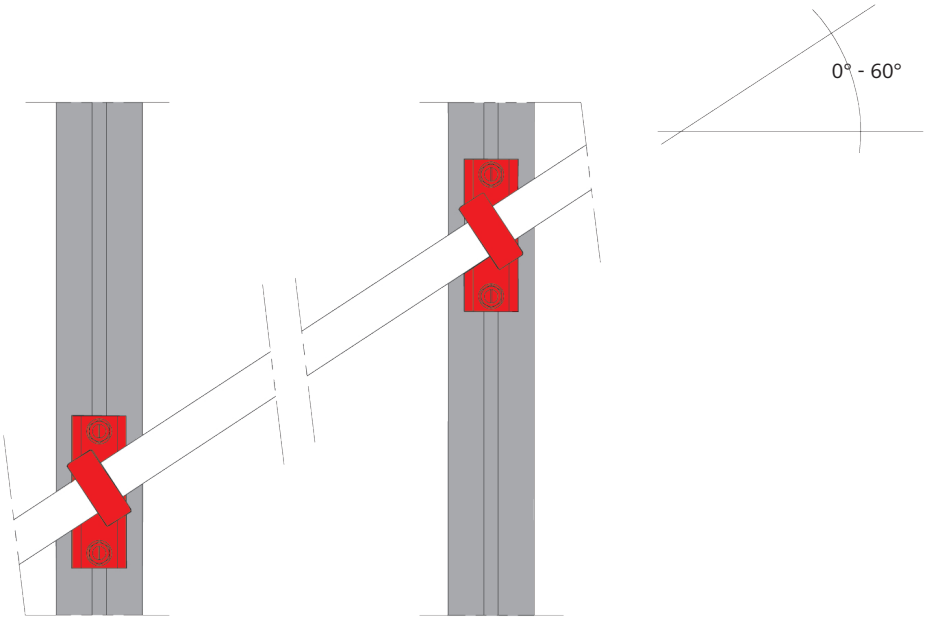


Fig. 26.4

Description.....	Ref.-No.
MEP tube coupler DK 48.....	29-909-65

MEP Connector For Push-Pull Props

The MEP connector for push-pull props allows for attaching braces to the MEVA32 system (Fig. 27.1 - 27.3).
Attach the push-pull prop connector in the same way you attach the MEP gates.

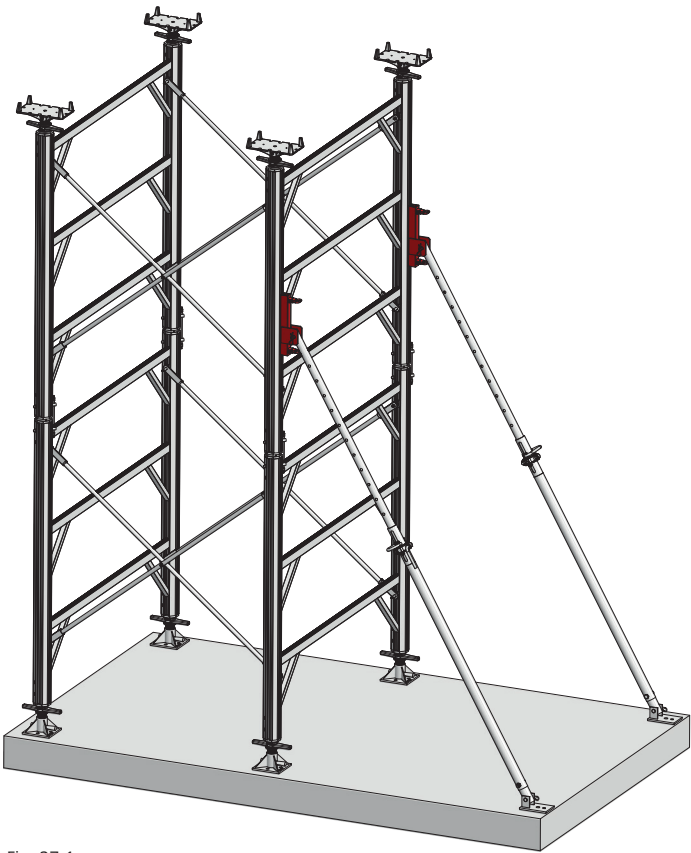


Fig. 27.1

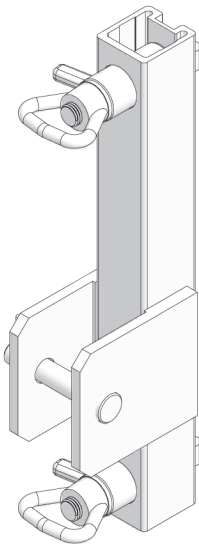


Fig. 27.2

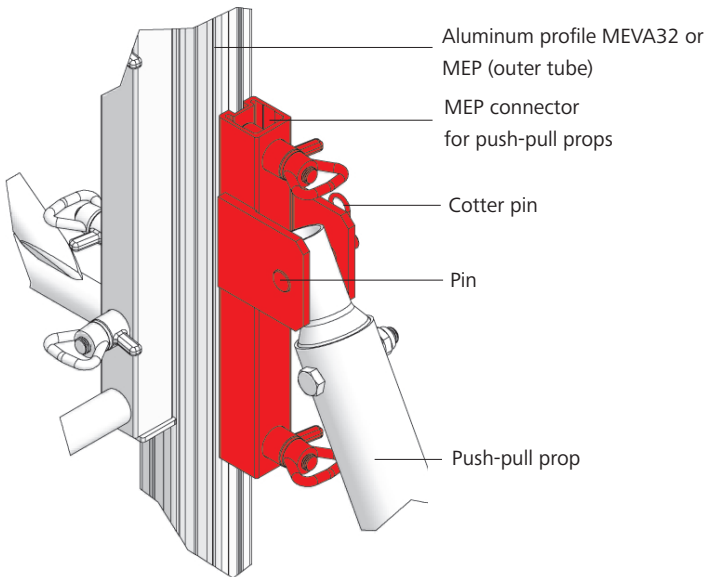


Fig. 27.3

Description	Ref.-No.
MEP gates	
55.....	29-909-10
110.....	29-909-15
170.....	29-909-20
220.....	29-909-25
MEP connector for push-pull props.....	29-910-60

Shoring System

Saddle Beam

The Saddle Beam can be used with or without MEVA32 folding heads, and with either MEP Spindles or MEVA32 Top Jacks, to provide efficient solutions for garage beam type structures, decreasing the number of shoring legs required to make both shoring and reshoring more efficient.

For saddle beam top post connection, please see Fig. 28.1 - 28.4.



Fig. 28.1

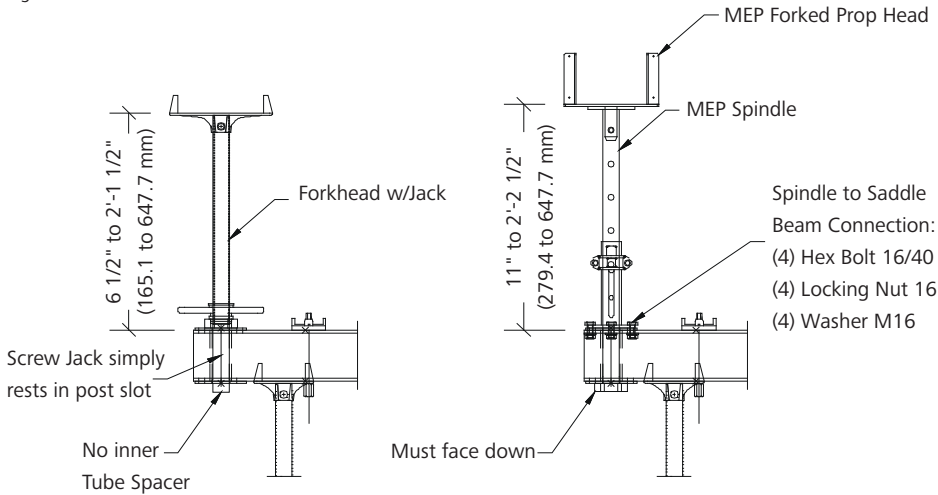


Fig. 28.2

Fig. 28.3

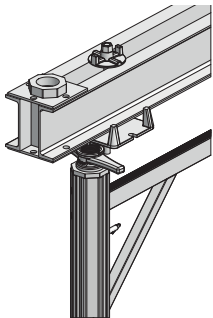


Fig. 28.4

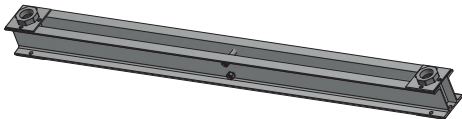


Fig. 28.5

Description.....	Ref.-No.
MEVA32 Forkhead w/jack.....	
.....	2-500-2993300
Saddle beam 220.....	2-500-2990940

Material = 6061-T6 Aluminum
E = 6.89 10¹⁰ N/m²
Properties:
I = 1090.5 cm⁴
Mallowable = 19.2 kNm
Vallowable = 135.6 kN
Rallowable = 138.8 kN

MEVA32 Folding Head

The MEVA32 Folding Head can be used on MEVA32 frames, with or without a screw jack.

When used without a screw jack, the folding head is attached to the top of the frame using a Frame Pin Assembly.

When used with a screw jack the folding head is attached to the screw jack with an MEP 14/90 pin.

In both cases the Saddle Beam is attached to the folding head with a Flange Screw 18.

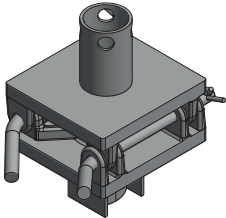


Fig. 29.1

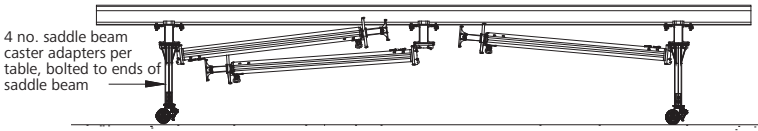
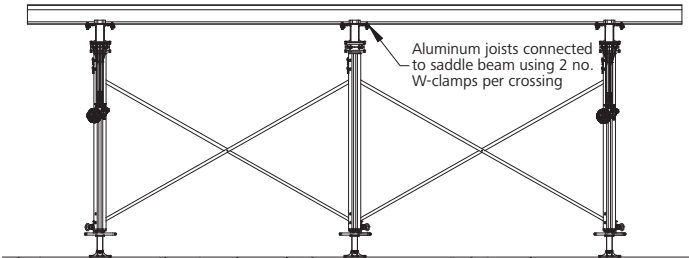


Fig. 29.2

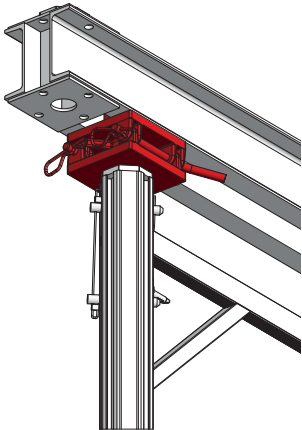


Fig. 29.3

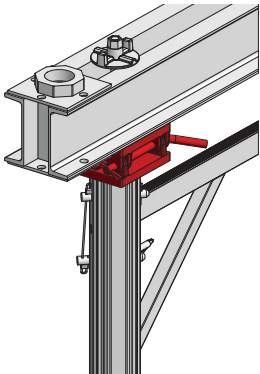


Fig. 29.5



Fig. 29.4

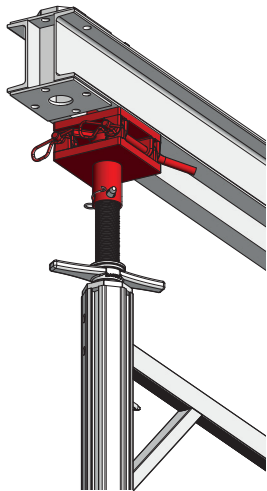


Fig. 29.6

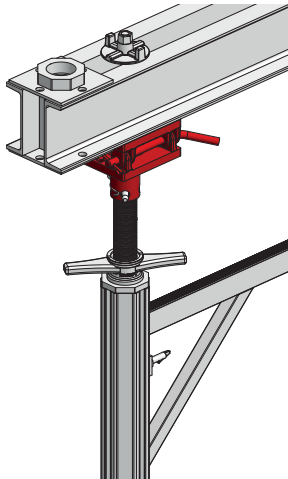
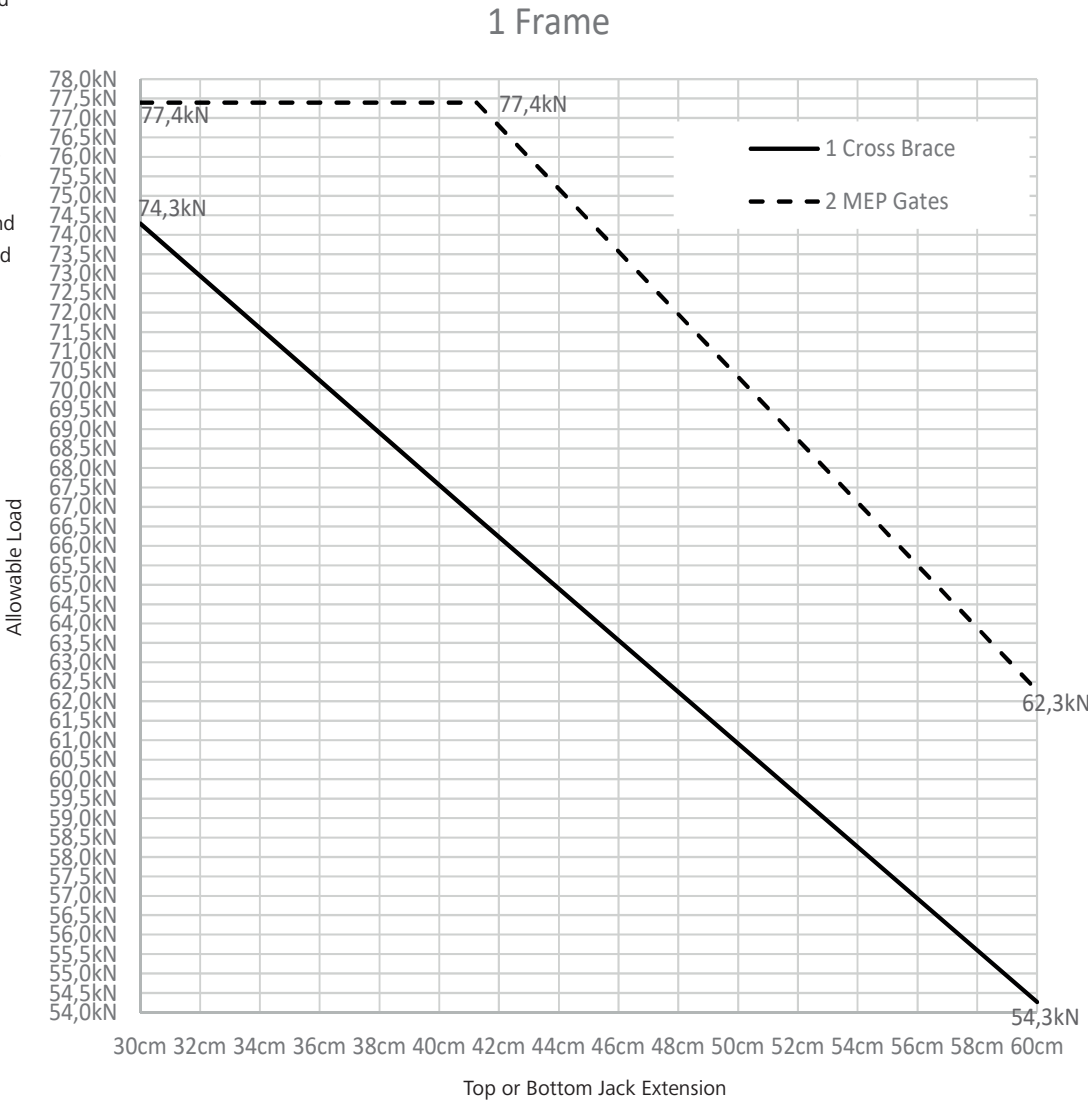


Fig. 29.7

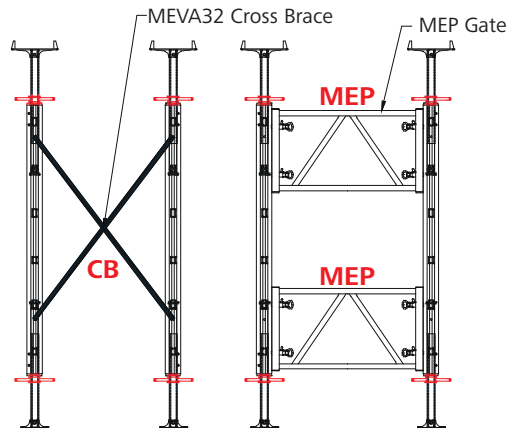
Description	Ref.-No.
MEVA32 Folding head	2-500-2993320
Saddle beam 220	2-500-2990940
Pin 14/90	29-909-94
Flange screw 18	29-401-10
MEVA32-jack w/cast nut	2-500-2993323

MEVA32 Load Charts

- Jack extension on load charts is the worst case top jack OR bottom jack extension
- It **IS NOT** the two extensions added together
- ie. if the top jack is extended 20" (508 mm) and the bottom jack is extended 16" (406.4 mm), read off the 20" (508 mm) line on the chart
- Maximum allowable jack extension = 24" (609.6 mm), minimum recommended = 6" (152.4 mm)



Shoring tested per ANSI/SSFI SH-300 2007: Standards for Testing and Rating Shoring Equipment.
 Testing witnessed by: Andrew Lloyd, PE.
 Factor of safety = 2.5:1 as specified in ANSI A10.9 Safety Requirements for Masonry and Concrete Work, Section 6.5.2.



MEVA32 Load Charts

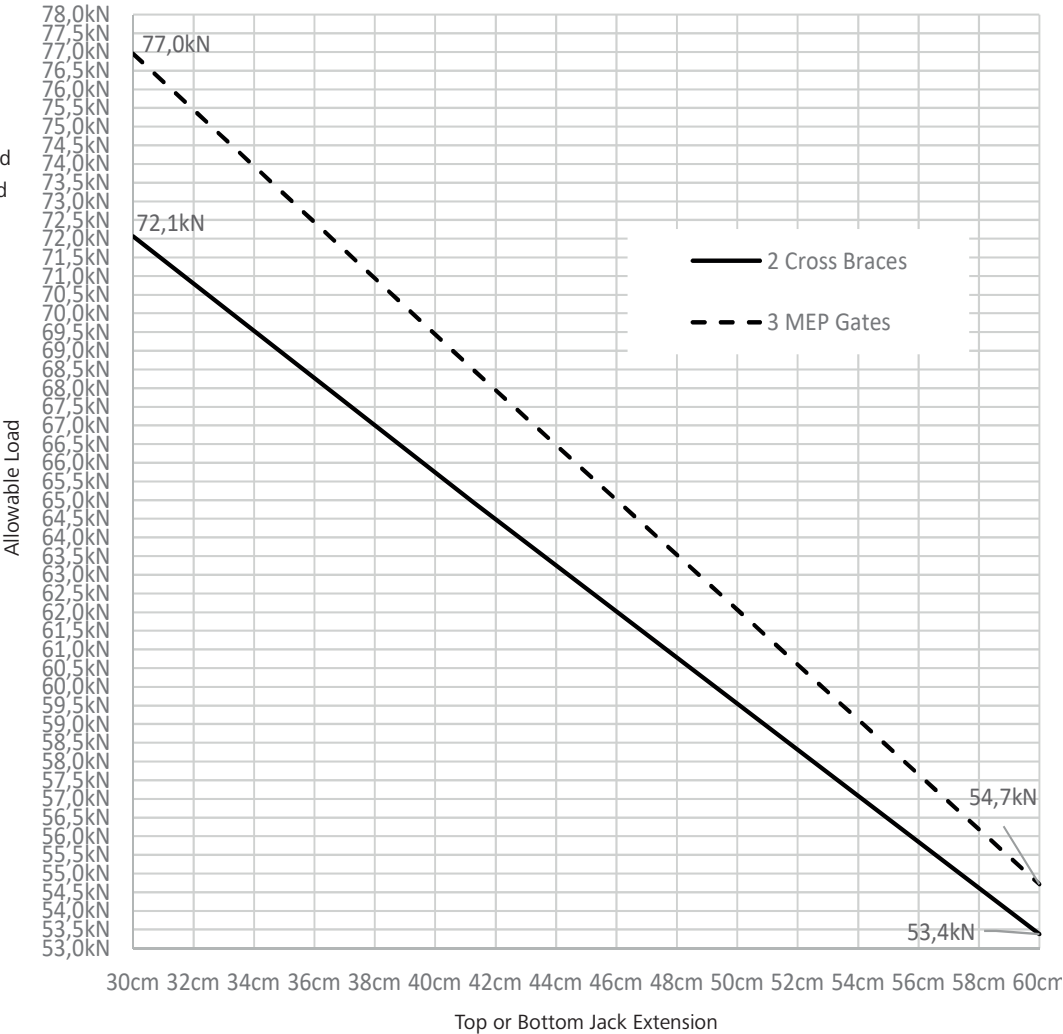
→ Jack extension on load charts is the worst case top jack OR bottom jack extension

→ It **IS NOT** the two extensions added together

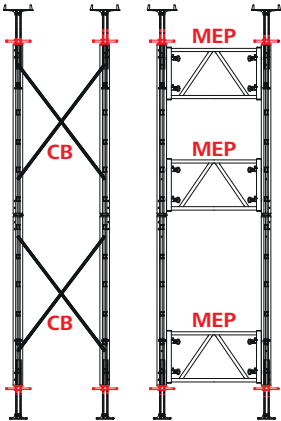
→ ie. if the top jack is extended 20" (508 mm) and the bottom jack is extended 16" (406.4 mm), read off the 20" (508 mm) line on the chart

→ Maximum allowable jack extension = 24" (609.6 mm), minimum recommended = 6" (152.4 mm)

2 Frame



Shoring tested per ANSI/SSFI SH-300 2007: Standards for Testing and Rating Shoring Equipment.
Testing witnessed by: Andrew Lloyd, PE.
Factor of safety = 2.5:1 as specified in ANSI A10.9 Safety Requirements for Masonry and Concrete Work, Section 6.5.2.



MEVA32 Load Charts

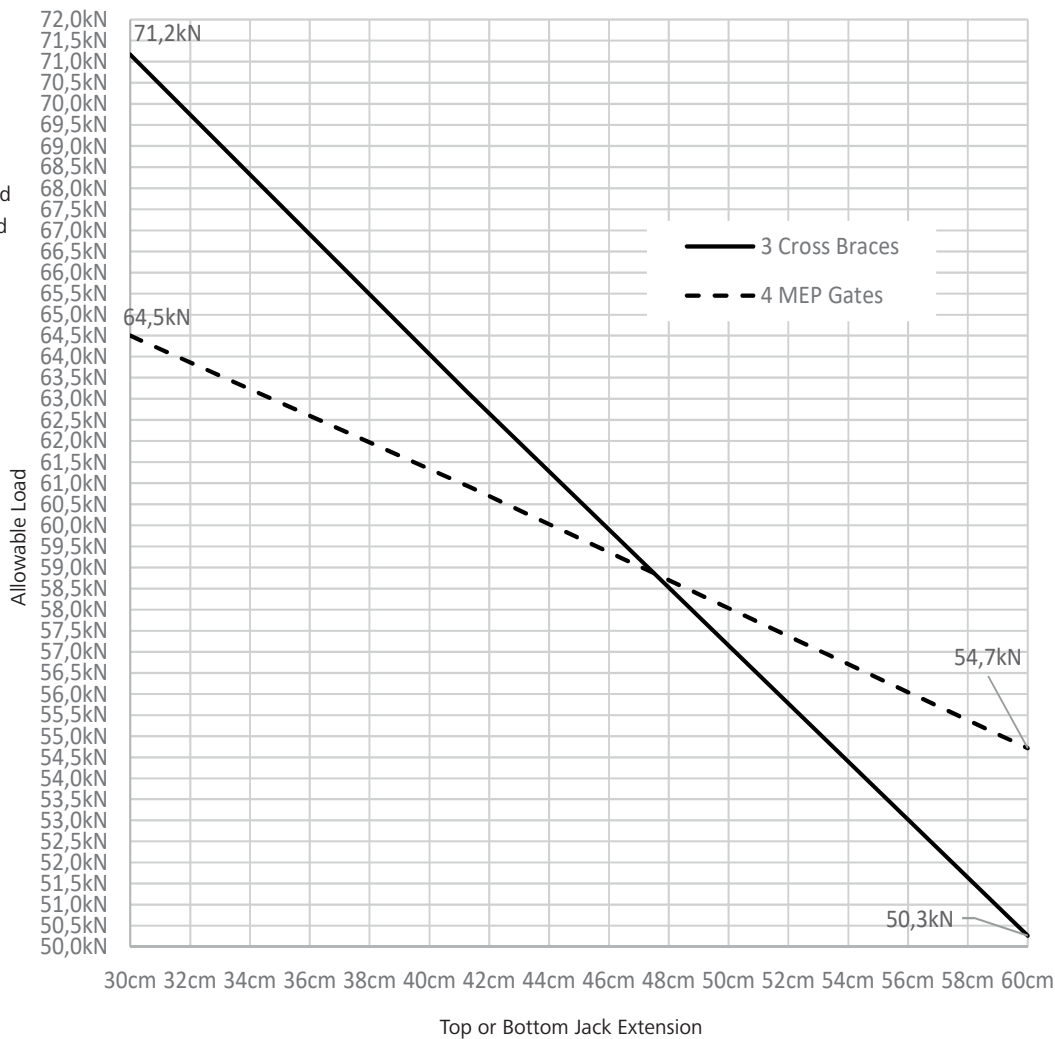
→ Jack extension on load charts is the worst case top jack OR bottom jack extension

→ It **IS NOT** the two extensions added together

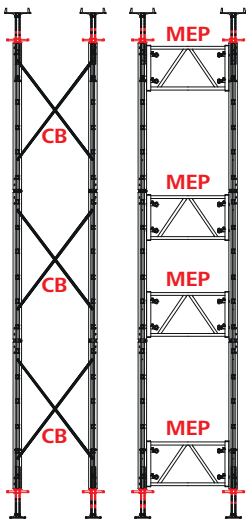
→ ie. if the top jack is extended 20" (508 mm) and the bottom jack is extended 16" (406.4 mm), read off the 20" (508 mm) line on the chart

→ Maximum allowable jack extension = 24" (609.6 mm), minimum recommended = 6" (152.4 mm)

3 Frame



Shoring tested per ANSI/SSFI SH-300 2007: Standards for Testing and Rating Shoring Equipment.
Testing witnessed by: Andrew Lloyd, PE.
Factor of safety = 2.5:1 as specified in ANSI A10.9 Safety Requirements for Masonry and Concrete Work, Section 6.5.2.



Shoring System

MEVA32 Load Charts

Shoring tested per ANSI/SSFI SH-300 2007: Standards for Testing and Rating Shoring Equipment.
 Testing witnessed by: Andrew Lloyd, PE.
 Factor of safety = 2.5:1 as specified in ANSI A10.9 Safety Requirements for Masonry and Concrete Work, Section 6.5.2.

For a 4 Cross Brace / 5 MEP Gates stack with screw jack extensions at top and at bottom of up to 12" (304.8 mm).

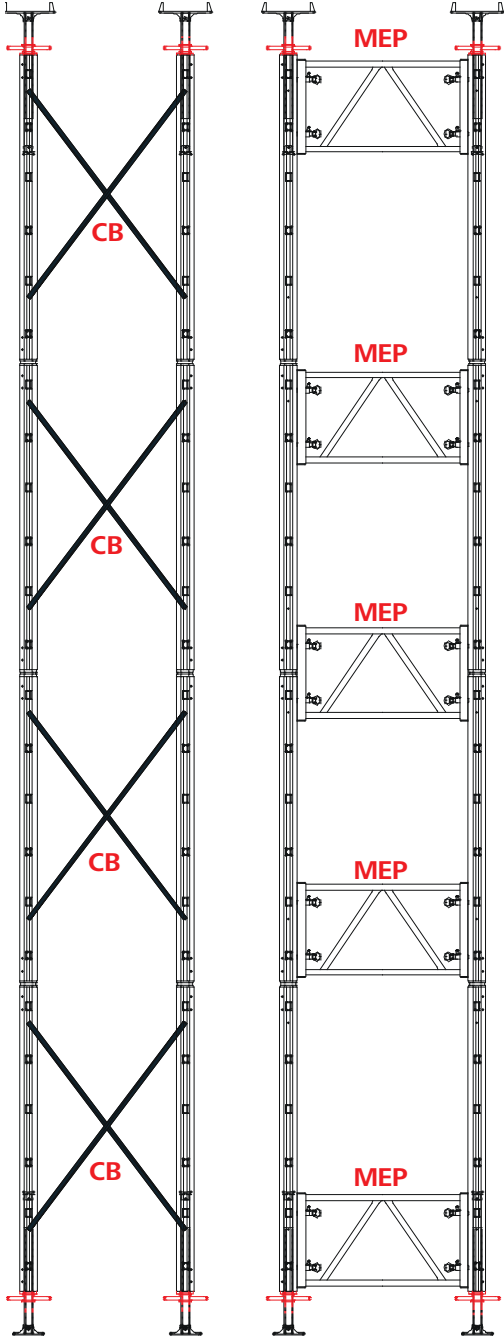
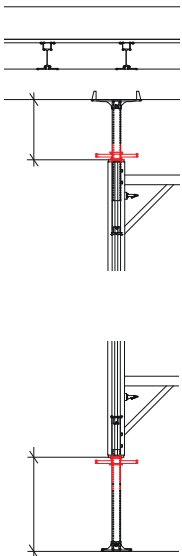
Allowable load per leg using Cross Braces = 68.95 kN

Allowable load per leg using MEP Gates = 64.49 kN

For towers with screw jack extensions greater than 12 inches, towers must be braced to an adjacent tower or to a structure to provide adequate lateral restraint. Then refer to 3 Cross Brace / 4 MEP Gates stack allowable loads, provided adequate additional restraint has been provided.

General notes for all load charts:

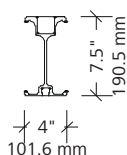
1. Jack extension on charts is the worse case top **OR** bottom jack extension.
2. Jack extension **IS NOT** the two extensions added together, ie. if the top jack is extended 20" (508 mm) and the bottom jack is extended 16" (406.4 mm); read off the 20" (508 mm) extension line on the chart.
3. **Maximum** allowable jack extension = **24" (609.6 mm)**,
Minimum recommended jack extension = **6" (152.4 mm)**.
4. Base jack extension is measured from bottom of frame leg to underside of base.
5. Top jack extension is measured from top of frame leg to underside of stringer.
6. Plastic caps must always be installed on screw jacks, UON.



Shoring System

Aluminum Stringers

MEVA recommends the use of our 7.5" (190.5 mm) deep aluminum stringers as the primary beams, used on top of the shoring towers. Structural properties of these stringers are as follows.



Weight

Second Moment of Area

Elastic Modulus

Modulus of Elasticity

Allowable Moment

Allowable Shear

Allowable Deflection

$W = 8.2 \text{ kg/m}$

$I = 1323.62 \text{ cm}^4$

$S = 138.68 \text{ cm}^3$

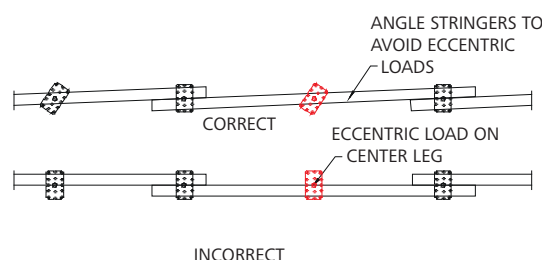
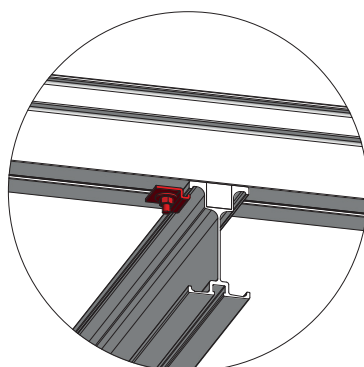
$E = 68.95 \text{ N/mm}^2$

$M = 16.95 \text{ kNm}$

$V = 37.6 \text{ kN}$

$D = \text{span} / 360 \leq 6.35 \text{ mm}$

Aluminum beams can be clipped to aluminum stringers using the MEVA A-Clamp.

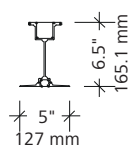


SPAN ft (mm)	SINGLE SPAN						TWO SPANS			THREE SPANS			L/360 in (mm)
	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	CALCULATED DEFLECTION in (mm)	LIMITED BY	ALLOWABLE CENTER SPAN POINT LOAD lbs (kN)	CALCULATED DEFLECTION in (mm)	LIMITED BY	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	CALCULATED DEFLECTION in (mm)	LIMITED BY	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	CALCULATED DEFLECTION in (mm)	LIMITED BY	
1.8 (549)	9393 (137.08)	0.007 (0.18)	V	16908 (75.21)	0.011 (0.28)	V	7515 (109.67)	0.002 (0.05)	V	7828 (114.24)	0.003 (0.08)	V	0.060 (1.52)
2 (610)	8454 (123.38)	0.010 (0.25)	V	16908 (75.21)	0.015 (0.38)	V	6763 (98.70)	0.003 (0.08)	V	7045 (102.81)	0.004 (0.10)	V	0.067 (1.70)
2.5 (762)	6763 (98.70)	0.019 (0.48)	V	16908 (75.21)	0.030 (0.76)	V	5411 (78.97)	0.006 (0.15)	V	5636 (82.25)	0.008 (0.20)	V	0.083 (2.11)
3.0 (914)	5636 (82.25)	0.032 (0.81)	V	16667 (74.14)	0.051 (1.29)	M	4509 (65.80)	0.011 (0.28)	V	4697 (68.55)	0.014 (0.36)	V	0.100 (2.54)
3.5 (1067)	4831 (70.50)	0.051 (1.29)	V	14286 (63.55)	0.069 (1.75)	M	3865 (56.40)	0.017 (0.43)	V	4026 (58.75)	0.023 (0.58)	V	0.117 (2.97)
3.61 (1100)	4684 (68.36)	0.056 (1.42)	V	13850 (61.61)	0.074 (1.88)	M	3747 (54.68)	0.019 (0.48)	V	3903 (56.96)	0.025 (0.64)	V	0.120 (3.05)
4 (1219)	4227 (61.69)	0.077 (1.96)	V	12500 (55.60)	0.091 (2.31)	M	3382 (49.36)	0.025 (0.64)	V	3523 (51.41)	0.034 (0.86)	V	0.133 (3.38)
4.5 (1372)	3757 (54.83)	0.109 (2.77)	V	11111 (49.42)	0.115 (2.92)	M	3006 (43.87)	0.036 (0.91)	V	3131 (45.69)	0.048 (1.22)	V	0.150 (3.81)
5 (1524)	3382 (49.36)	0.150 (3.81)	V	10000 (44.48)	0.142 (3.61)	M	2705 (39.48)	0.050 (1.27)	V	2818 (41.13)	0.066 (1.68)	V	0.167 (4.24)
5.5 (1676)	2832 (41.33)	0.183 (4.65)	D	9091 (40.44)	0.171 (4.34)	M	2459 (35.89)	0.066 (1.68)	V	2562 (37.39)	0.088 (2.24)	V	0.183 (4.65)
5.58 (1700)	2712 (39.58)	0.186 (4.72)	D	8961 (39.86)	0.176 (4.47)	M	2424 (35.38)	0.069 (1.75)	V	2525 (36.85)	0.092 (2.34)	V	0.186 (4.72)
6 (1829)	2181 (31.83)	0.200 (5.08)	D	8179 (36.38)	0.200 (5.08)	D	2254 (32.89)	0.086 (2.18)	V	2348 (34.27)	0.114 (2.90)	V	0.200 (5.08)
6.5 (1981)	1715 (25.03)	0.217 (5.51)	D	6969 (31.00)	0.217 (5.51)	D	2081 (30.37)	0.109 (2.77)	V	2168 (31.64)	0.145 (3.68)	V	0.217 (5.51)
7 (2134)	1374 (20.05)	0.233 (5.92)	D	6009 (26.73)	0.233 (5.92)	D	1932 (28.19)	0.136 (3.45)	V	2013 (29.38)	0.181 (4.60)	V	0.233 (5.92)
7.22 (2200)	1252 (18.27)	0.241 (6.12)	D	5648 (25.12)	0.241 (6.12)	D	1873 (27.33)	0.150 (3.81)	V	1952 (28.49)	0.199 (5.05)	V	0.241 (6.12)
7.5 (2286)	1117 (16.30)	0.250 (6.35)	D	5235 (23.29)	0.250 (6.35)	D	1778 (25.95)	0.165 (4.19)	M	1879 (27.42)	0.223 (5.66)	V	0.250 (6.35)
8 (2438)	863 (12.59)	0.250 (6.35)	D	4313 (19.19)	0.250 (6.35)	D	1563 (22.81)	0.188 (4.77)	M	1629 (23.77)	0.250 (6.35)	D	0.267 (6.78)
8.5 (2591)	677 (9.88)	0.250 (6.35)	D	3596 (16.00)	0.250 (6.35)	D	1384 (20.20)	0.212 (5.38)	M	1278 (18.65)	0.250 (6.35)	D	0.283 (7.19)
9 (2743)	539 (7.87)	0.250 (6.35)	D	3029 (13.47)	0.250 (6.35)	D	1235 (18.02)	0.238 (6.04)	M	1017 (14.84)	0.250 (6.35)	D	0.300 (7.62)
9.5 (2896)	434 (6.33)	0.250 (6.35)	D	2576 (11.46)	0.250 (6.35)	D	1045 (15.25)	0.250 (6.35)	D	819 (11.95)	0.250 (6.35)	D	0.317 (8.05)
10 (3048)	353 (5.15)	0.250 (6.35)	D	2208 (9.82)	0.250 (6.35)	D	851 (12.42)	0.250 (6.35)	D	667 (9.73)	0.250 (6.35)	D	0.333 (8.46)
10.5 (3200)	291 (4.25)	0.250 (6.35)	D	1908 (8.49)	0.250 (6.35)	D	700 (10.22)	0.250 (6.35)	D	549 (8.01)	0.250 (6.35)	D	0.350 (8.89)
10.83 (3300)	257 (3.75)	0.250 (6.35)	D	1739 (7.74)	0.250 (6.35)	D	619 (9.03)	0.250 (6.35)	D	485 (7.08)	0.250 (6.35)	D	0.361 (9.17)
11 (3353)	241 (3.52)	0.250 (6.35)	D	1659 (7.38)	0.250 (6.35)	D	581 (8.48)	0.250 (6.35)	D	456 (6.65)	0.250 (6.35)	D	0.367 (9.32)
11.5 (3505)	202 (2.95)	0.250 (6.35)	D	1452 (6.46)	0.250 (6.35)	D	487 (7.11)	0.250 (6.35)	D	381 (5.56)	0.250 (6.35)	D	0.383 (9.73)
12 (3658)	170 (2.48)	0.250 (6.35)	D	1278 (5.68)	0.250 (6.35)	D	410 (5.98)	0.250 (6.35)	D	322 (4.70)	0.250 (6.35)	D	0.400 (10.16)

Shoring System

Aluminum Joists

MEVA recommends the use of our 6.5" (165.1 mm) deep aluminum joists as the secondary beams, used directly under the plywood. Structural properties of these joists are as follows.



Weight

$$W = 6.7 \text{ kg/m}$$

Second Moment of Area

$$I = 707.59 \text{ cm}^4$$

Elastic Modulus

$$S = 74.56 \text{ cm}^3$$

Modulus of Elasticity

$$E = 68.95 \text{ N/mm}^2$$

Allowable Moment

$$M = 8.55 \text{ kNm}$$

Allowable Shear

$$V = 32.52 \text{ kN}$$

Allowable Interior Reaction

$$R = 54.93 \text{ kN} \quad (8" \text{ (203.2 mm) bearing width})$$

Allowable End Reaction

$$R_{\text{end}} = 27.44 \text{ kN} \quad (4" \text{ (101.6 mm) bearing width})$$

Allowable Deflection

$$D = \text{span} / 360 \leq 6.35 \text{ mm}$$

Both stringers and joists are color coded at their ends with colors matching those of the MEVA32 cross brace sizes.

COLOR DESIGNATION	AB - ALUMINUM JOISTS (6.5" DEEP) LENGTH	AB - ALUMINUM STRINGERS (7.5" DEEP) LENGTH	MEVA32 CROSS BRACE BAY LENGTH	MEVA32 CROSS BRACE HOLE TO HOLE DIAGONAL LENGTH
BLACK	12' / 22' 3658 mm / 6706 mm	12' / 22' 3658 mm / 6706 mm		
BROWN	11' / 21' 3353 mm / 6401 mm	11' / 21' 3353 mm / 6401 mm		
RED	10' / 20' 3048 mm / 6096 mm	10' / 20' 3048 mm / 6096 mm		
PURPLE	9' / 19' 2743 mm / 5791 mm	9' / 19' 2743 mm / 5791 mm	9' 2743 mm	9'-10 3/16" 3002 mm
YELLOW	8' / 18' 2438 mm / 5486 mm	8' / 18' 2438 mm / 5486 mm	8' 2438 mm	8'-9 5/16" 2675 mm
ORANGE	7' / 17' 2134 mm / 5182 mm	7' / 17' 2134 mm / 5182 mm	7' 2134 mm	8'-0 3/4" 2457 mm
PINK	6' / 16' 1829 mm / 4877 mm	6' / 16' 1829 mm / 4877 mm	6' 1829 mm	7'-2 9/16" 2199 mm
BLUE	5' / 15' 1524 mm / 4572 mm	5' / 15' 1524 mm / 4572 mm	5' 1524 mm	6'-4 13/16" 1951 mm
GREEN	4' / 14' / 24' 1219 mm / 4267 mm / 7315 mm	4' / 14' / 24' 1219 mm / 4267 mm / 7315 mm	4' 1219 mm	5'-7 7/8" 1724 mm
WHITE	13' / 23' 3962 mm / 7010 mm	13' / 23' 3962 mm / 7010 mm	3' 914 mm	5'-0" 1524 mm

SPAN ft (mm)	SINGLE SPAN						TWO SPANS			THREE SPANS			L/360 in (mm)
	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	LIMITED BY	CALCULATED DEFLECTION in (mm)	ALLOWABLE CENTER SPAN POINT LOAD lbs (kN)	LIMITED BY	CALCULATED DEFLECTION in (mm)	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	LIMITED BY	CALCULATED DEFLECTION in (mm)	ALLOWABLE UNIFORM LOAD lbs/ft (kN/m)	LIMITED BY	CALCULATED DEFLECTION in (mm)	
3.61 (1100)	3418 (49.88)	R _{end}	0.077 (1.96)	6993 (31.11)	M	0.070 (1.78)	2738 (39.96)	R	0.026 (0.66)	3111 (45.40)	R	0.037 (0.94)	0.120 (3.05)
4 (1219)	3085 (45.02)	R _{end}	0.105 (2.67)	6309 (28.06)	M	0.086 (2.18)	2470 (36.05)	R	0.035 (0.89)	2807 (40.96)	R	0.050 (1.27)	0.133 (3.38)
4.5 (1372)	2472 (36.08)	R _{end}	0.150 (3.81)	5608 (24.95)	M	0.108 (2.74)	2196 (32.05)	R	0.049 (1.24)	2495 (36.42)	R	0.072 (1.83)	0.150 (3.81)
5 (1524)	2015 (29.41)	D=L/360	0.167 (4.24)	5047 (22.45)	M	0.134 (3.40)	1976 (28.84)	R	0.068 (1.73)	2245 (32.76)	R	0.098 (2.49)	0.167 (4.24)
5.5 (1676)	1514 (22.09)	D=L/360	0.183 (4.65)	4588 (20.41)	M	0.162 (4.11)	1668 (24.34)	M	0.084 (2.13)	2041 (29.79)	R	0.131 (3.33)	0.183 (4.65)
5.58 (1700)	1452 (21.19)	D=L/360	0.186 (4.72)	4525 (20.13)	M	0.166 (4.22)	1623 (23.69)	M	0.086 (2.18)	2013 (29.38)	R	0.137 (3.48)	0.186 (4.72)
6 (1829)	1166 (17.02)	D=L/360	0.200 (5.08)	4206 (18.71)	M	0.192 (4.88)	1402 (20.46)	M	0.100 (2.54)	1753 (25.58)	M	0.159 (4.04)	0.200 (5.08)
6.5 (1981)	917 (13.38)	D=L/360	0.217 (5.51)	3726 (16.57)	D=L/360	0.217 (5.51)	1195 (17.44)	M	0.117 (2.97)	1493 (21.79)	M	0.187 (4.75)	0.217 (5.51)
7 (2134)	734 (10.71)	D=L/360	0.233 (5.92)	3212 (14.29)	D=L/360	0.233 (5.92)	1030 (15.03)	M	0.136 (3.45)	1386 (20.23)	D=L/360	0.233 (5.92)	0.233 (5.92)
7.22 (2200)	670 (9.78)	D=L/360	0.241 (6.12)	3021 (13.44)	D=L/360	0.241 (6.12)	969 (14.14)	M	0.144 (3.66)	1264 (18.45)	D=L/360	0.241 (6.12)	0.241 (6.12)
7.5 (2286)	597 (8.71)	D=L/360	0.250 (6.35)	2798 (12.45)	D=0.25	0.250 (6.35)	897 (13.09)	M	0.156 (3.96)	1127 (16.45)	D=L/360	0.250 (6.35)	0.250 (6.35)
8 (2438)	461 (6.73)	D=0.25	0.250 (6.35)	2306 (10.26)	D=0.25	0.250 (6.35)	789 (11.51)	M	0.177 (4.50)	871 (12.71)	D=0.25	0.250 (6.35)	0.267 (6.78)
8.5 (2591)	362 (5.28)	D=0.25	0.250 (6.35)	1922 (8.55)	D=0.25	0.250 (6.35)	699 (10.20)	M	0.200 (5.08)	683 (9.97)	D=0.25	0.250 (6.35)	0.283 (7.19)
9 (2743)	288 (4.20)	D=0.25	0.250 (6.35)	1619 (7.20)	D=0.25	0.250 (6.35)	623 (9.09)	M	0.225 (5.72)	544 (7.94)	D=0.25	0.250 (6.35)	0.300 (7.62)
9.5 (2896)	232 (3.39)	D=0.25	0.250 (6.35)	1377 (6.13)	D=0.25	0.250 (6.35)	559 (8.16)	M	0.250 (6.35)	438 (6.39)	D=0.25	0.250 (6.35)	0.317 (8.05)
10 (3048)	189 (2.76)	D=0.25	0.250 (6.35)	1181 (5.25)	D=0.25	0.250 (6.35)	455 (6.64)	D=0.25	0.250 (6.35)	357 (5.21)	D=0.25	0.250 (6.35)	0.333 (8.46)
11 (3353)	129 (1.88)	D=0.25	0.250 (6.35)	887 (3.95)	D=0.25	0.250 (6.35)	311 (4.54)	D=0.25	0.250 (6.35)	244 (3.56)	D=0.25	0.250 (6.35)	0.367 (9.32)
12 (3658)	91 (1.33)	D=0.25	0.250 (6.35)	683 (3.04)	D=0.25	0.250 (6.35)	219 (3.20)	D=0.25	0.250 (6.35)	172 (2.51)	D=0.25	0.250 (6.35)	0.400 (10.16)

Shoring System

Service

Rentals

We offer our customers the option of renting supplementary material during peak times. We also give prospective customers the chance to test MEVA formwork so they can see its benefits for themselves in actual use.

RentalPlus

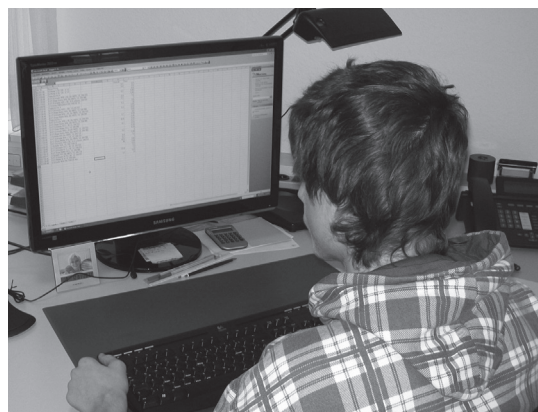
Since MEVA started the flat rate for cleaning and repair of rented formwork systems in early 2000 more and more contractors experience the outstanding advantages. Ask our representatives about the details!

Shoring drawings

Of course, all offices in our technical department have CAD/BIM facilities. You get expert, clearly represented plans and work cycle drawings.

Special solutions

We can help with special parts, custom designed for your project, as a supplement to our formwork systems.



Notes

Grid of dots for notes.

Notes

Product list

Please note:

This product list includes all parts necessary for most applications, along with the corresponding dimensions. For parts required for a special application of MEVA32, please refer to our MEVA pricelist.

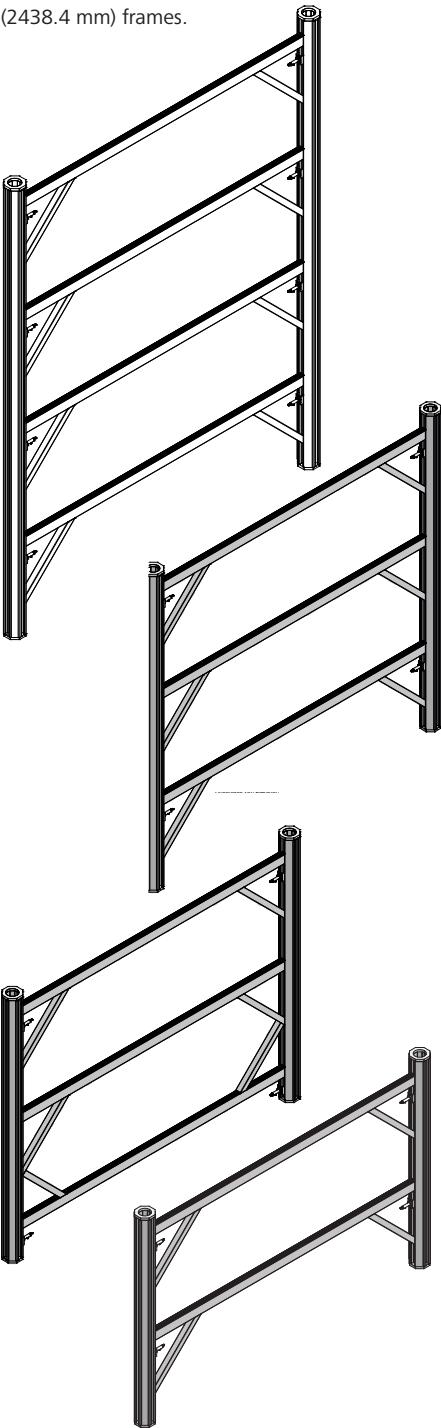
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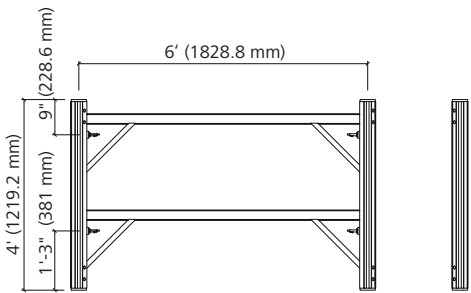
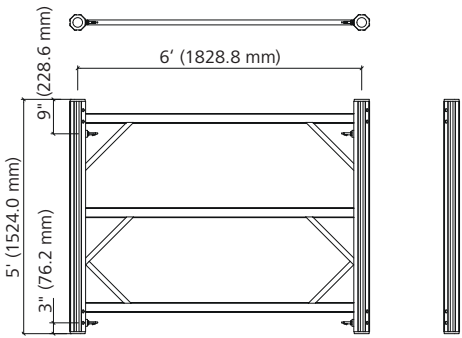
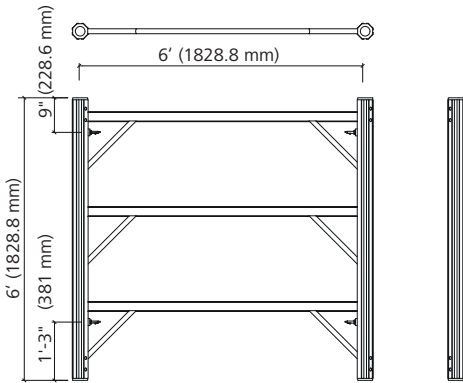
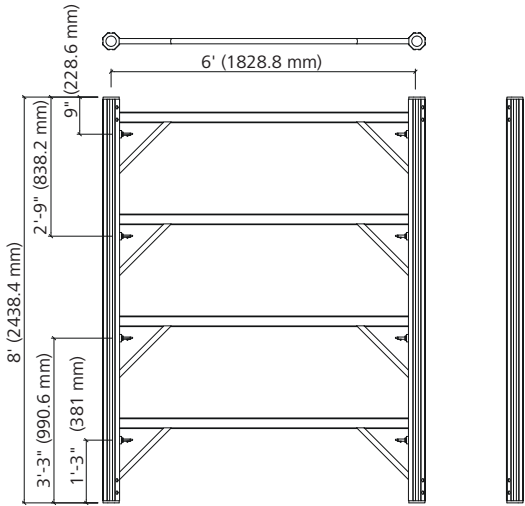
MEVA32 frames

MEVA32 frames are all 6' (1828.8 mm) wide from center of leg to center of leg, and come in nominal heights of 4' (1219.2 mm), 5' (1524.0 mm), 6' (1828.8 mm), and 8' (2438.4 mm). (Actual frame height is 0.5" (12.7 mm) shorter than listed nominal height).

Jet-locks for attachment of cross braces on the 5' (1524.0 mm) and 6' (1828.8 mm) frames are spaced at 4' (1219.2 mm) vertically, and are spaced 2' (609.6 mm) vertically on 4' (1219.2 mm) and 8' (2438.4 mm) frames.



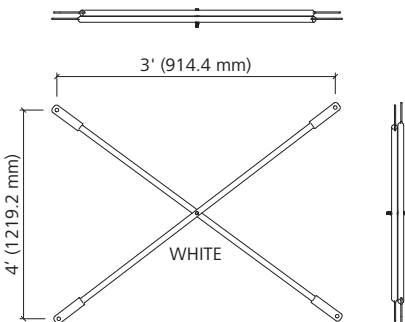
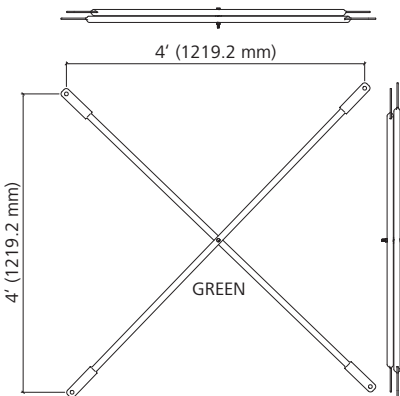
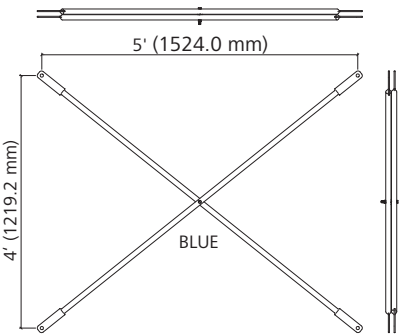
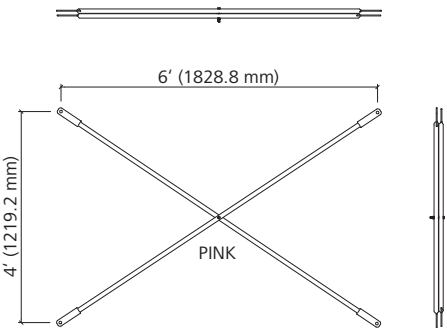
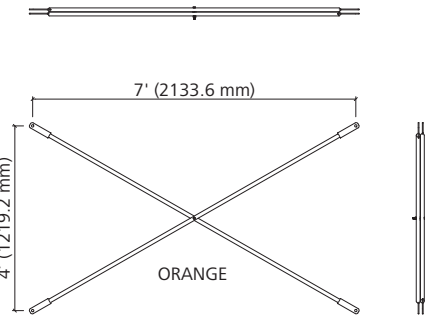
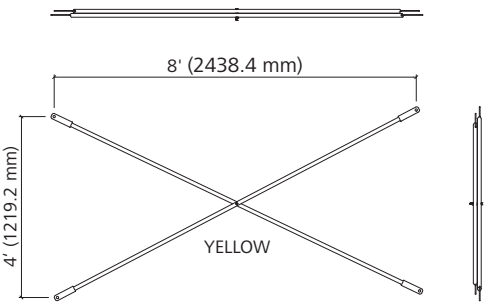
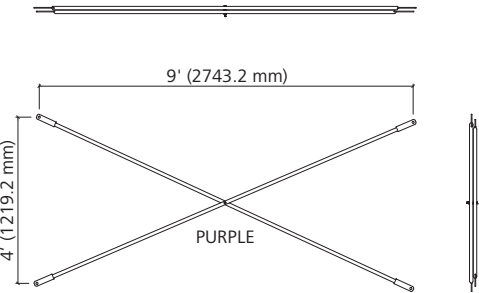
Ref.-No.	Description / Application	kg
2-500-2993200	MEVA32 - 8' Frame	29.5
2-500-2993220	MEVA32 - 6' Frame	22.7
2-500-2993240	MEVA32 - 5' Frame	19.5
2-500-2993260	MEVA32 - 4' Frame	15.0



MEVA32 cross braces

MEVA32 cross braces all have a vertical height between jet-lock attachment points on frames of 4', and create braced bays between MEVA32 frames starting at 3' length, in one foot increments, up to 9'.

Ref.-No.	Description / Application	kg
2-500-2993492	MEVA32 - 9'x4' Cross Brace (purple).....	5.8
2-500-2993488	MEVA32 - 8'x4' Cross Brace (yellow)	5.3
2-500-2993484	MEVA32 - 7'x4' Cross Brace (orange).....	4.8
2-500-2993480	MEVA32 - 6'x4' Cross Brace (pink).....	4.3
2-500-2993476	MEVA32 - 5x4' Cross Brace (blue).....	3.9
2-500-2993472	MEVA32 - 4'x4' Cross Brace (green).....	3.4
2-500-2993468	MEVA32 - 3'x4' Cross Brace (white).....	3.0

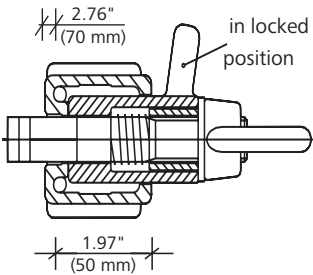
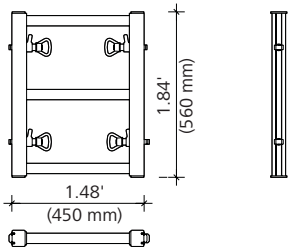
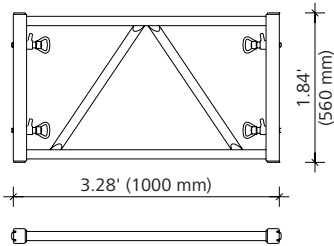
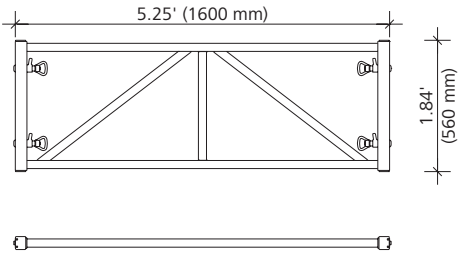
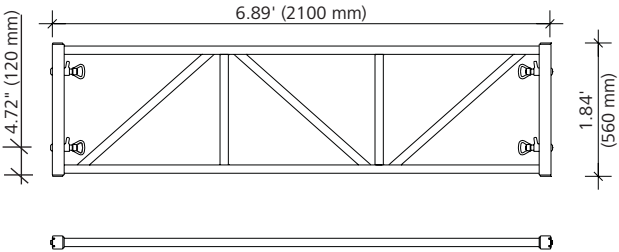
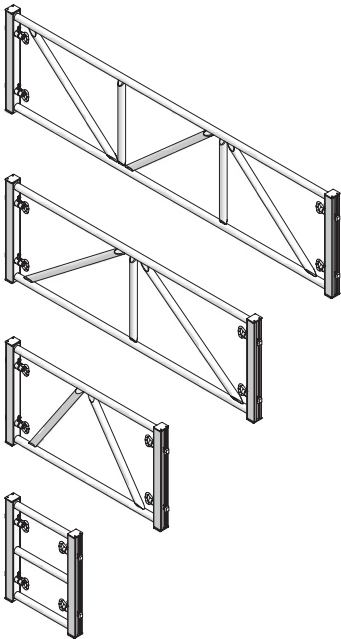


Shoring System

MEP gates

Required when building towers with MEVA32 frames, if not using cross braces. The MEP gates are attached to the MEVA32 frames using the integrated quick connector.

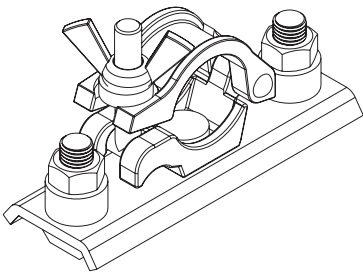
Ref.-No.	Description / Application	kg
29-909-25	MEP-gate 220	11.9
29-909-20	MEP-gate 170	9.9
29-909-15	MEP-gate 110	7.8
29-909-10	MEP-gate 55	6.4



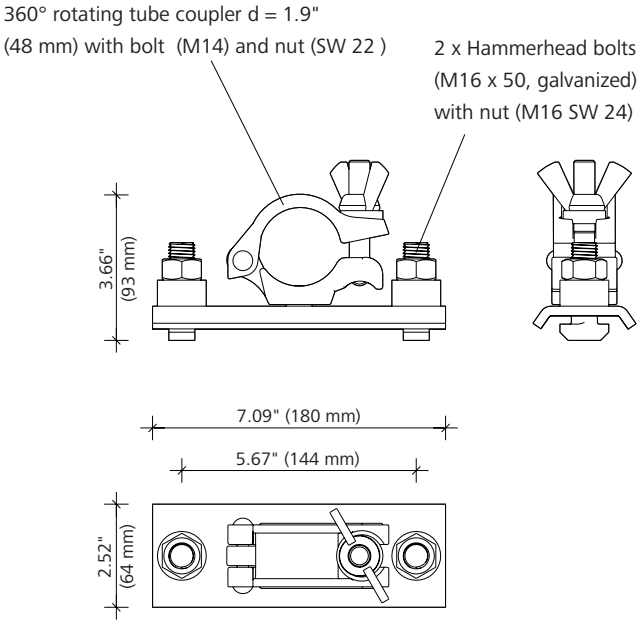
Shoring System

MEP tube coupler DK48

The tube coupler allows for attaching scaffold tubes d = 1.9" (48 mm) to the MEVA32 system.

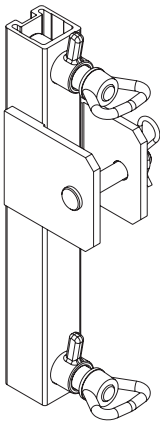


Ref.-No.	Description / Application	kg
29-909-65	MEP tube coupler DK48	1.7

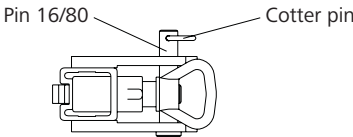
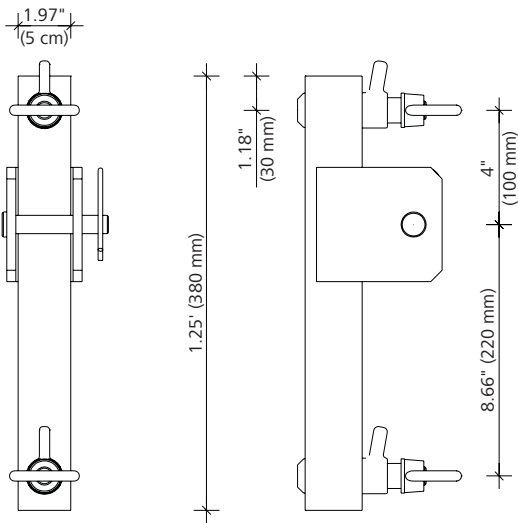


MEP connector for push-pull props

The MEP-connector for push-pull props allows for attaching braces to the MEVA32 frames.



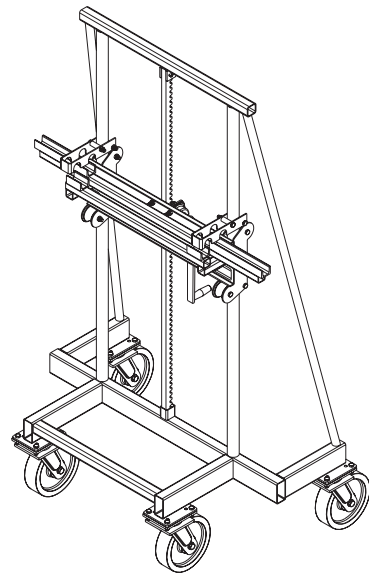
Ref.-No.	Description / Application	kg
29-910-60	MEP connector for push-pull props	2.6



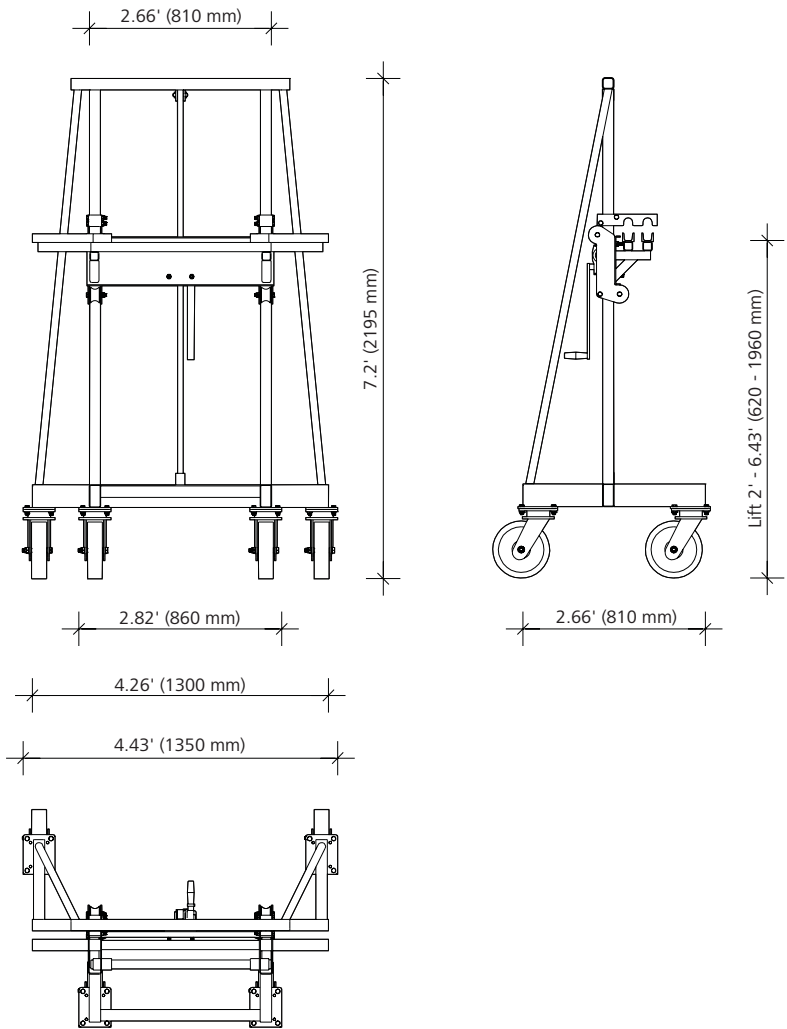
Shoring System

MEP lift truck

If tables are moved with the MEP-lift trucks, at least two of them are needed.
Max. capacity: 1,100 lb (500 kg).



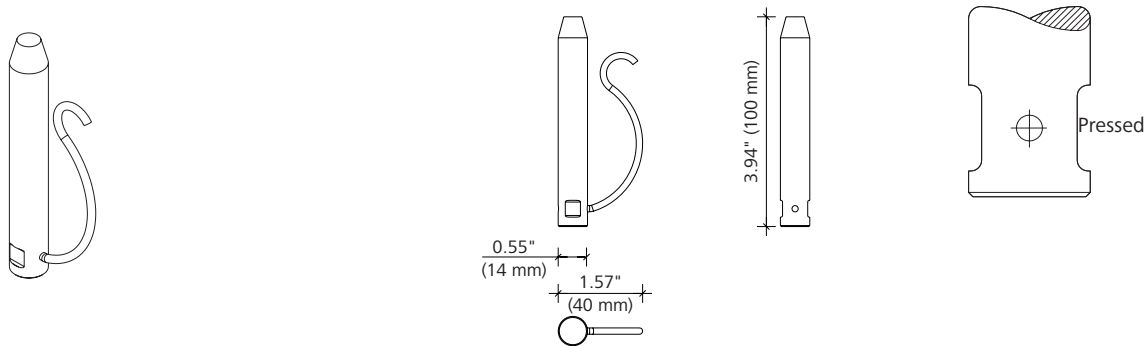
Ref.-No.	Description / Application	kg
29-909-50	MEP lift truck	130.0



PIN 14/90

The pins are used to attach the MEVA32 screw jack to MEVA32 folding head.

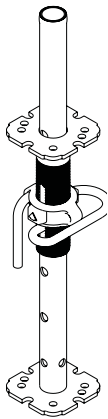
Ref.-No.	Description / Application	kg
29-909-94	Pin 14 / 90	0.1



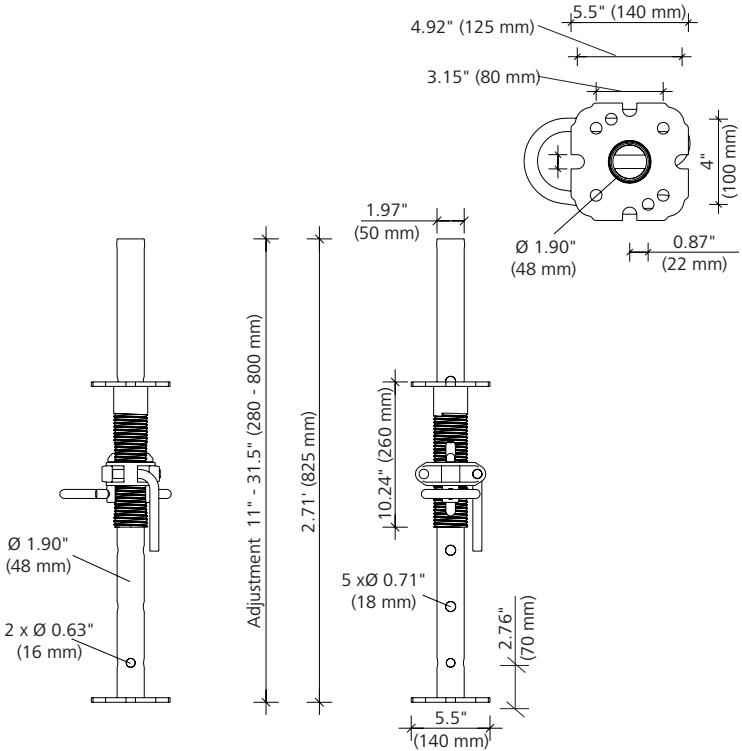
Shoring System

MEP spindle

MEP-spindles can be bolted (with 4 M16 x 40 bolts and nuts) to the saddle beams
(Nuts and bolts to be ordered separately).



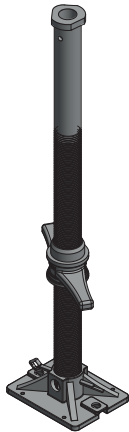
Ref.-No.	Description / Application	lb
29-909-70	MEP spindle	8.0



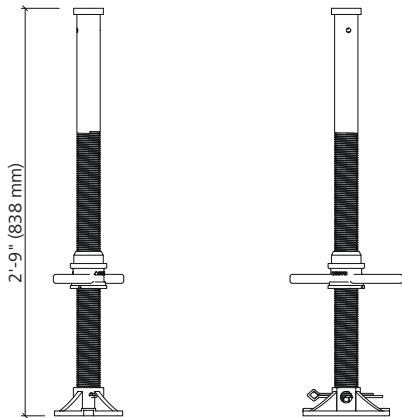
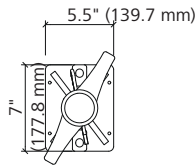
MEVA32 Base Plate w/ Jack

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm).
Extension of jacks is measured from the bottom of the base to the underside of the frame leg.

Plastic caps on base screw jacks **MUST** be installed in ALL applications.



Ref.-No.	Description / Application	kg
2-500-2993310	MEVA32 Base Plate w/ jack	7.9

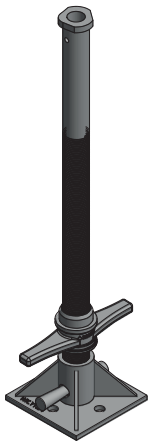


Shoring System

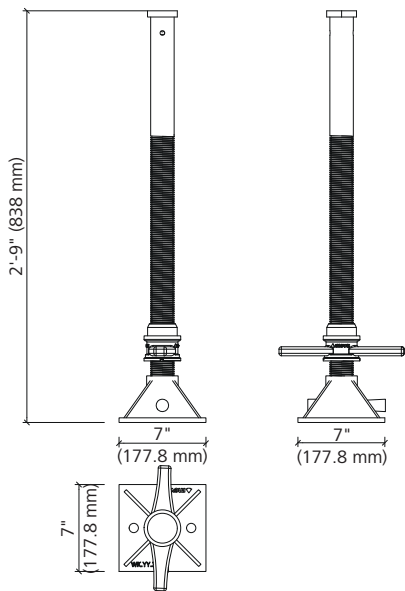
MEVA32 Stripping Base Plate w/ Jack

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm).
Extension of jacks is measured from the bottom of the base to the underside of the frame leg.
Plastic caps on base screw jacks **MUST** be installed in ALL applications.

The Stripping Base Jack is generally used in applications where the leg load is expected to exceed 66.7 kN, but it may be used in applications with lower leg loads.

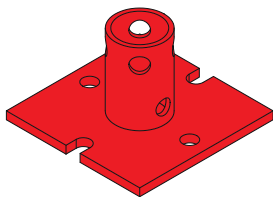


Ref.-No.	Description / Application	kg
2-500-2993315	MEVA32 Stripping Base Plate w/ jack	9.5

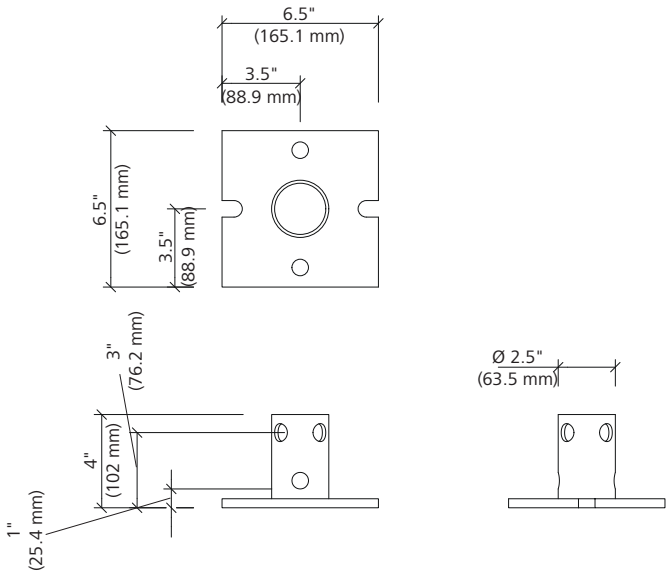


MEVA32 Plain Base

The Plain Base can be used at the bottom or top of the frame when a screw jack is not necessary. The Plain Base is held in place using a Frame Pin Assembly.
If used at top, a Stinger may be used and held in place with A-Clamps.



Ref.-No.	Description / Application	kg
2-500-2993310	MEVA32 Base Plate w/ jack	3.4



Shoring System

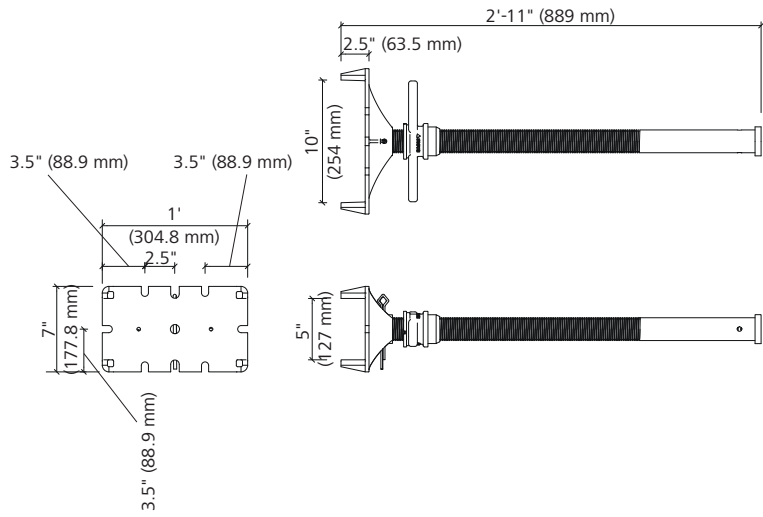
MEVA32 Forkhead w/ Jack

Minimum recommended extension for top or bottom jacks is 6" (152.4 mm) and maximum allowable extension is 24" (609.6 mm).
Extension of jacks is measured from the bottom of the stringer beam to the top of the frame leg.

Plastic caps on base screw jacks MUST be installed in ALL applications, apart from when used in Saddle Beams.

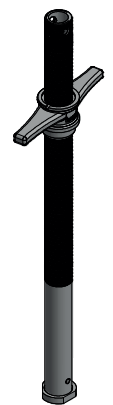


Ref.-No.	Description / Application	kg
2-500-2993300	MEVA32 Forkhead w/ jack	11.3

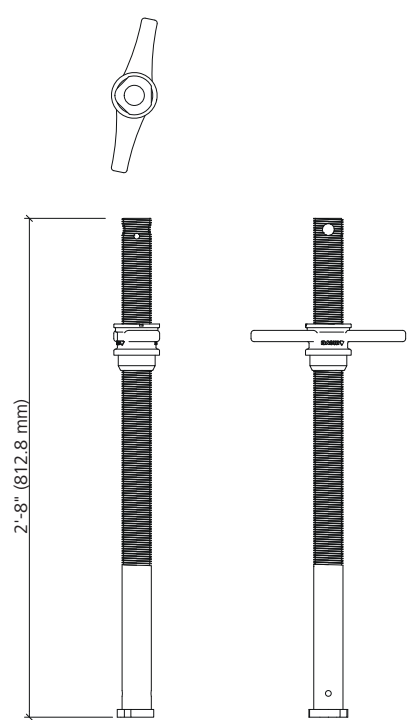


MEVA32 Jack w/ Cast Nut

The MEVA32 Jack w/ cast nut can be used in different configurations, e.g. with the stripping base plate or with forkhead.
Plastic caps on jacks MUST be installed in ALL applications.



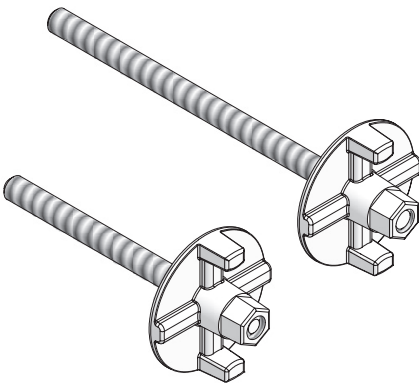
Ref.-No.	Description / Application	kg
2-500-2993323	MEVA32 Jack w/ cast nut	5.4



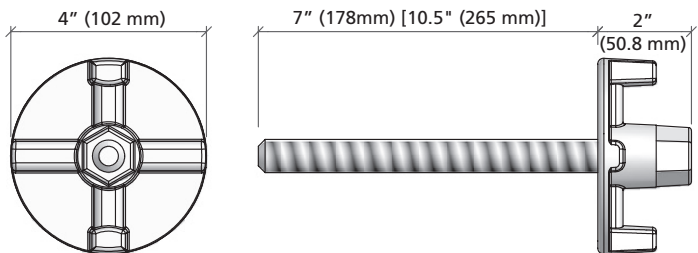
Shoring System

Flange screw 18/28

galvanized; to attach the saddle beam to the folding head.
Length of thread: 7" (178 mm) for flange screw 18 and 10.5" (265 mm) for flange screw 28.

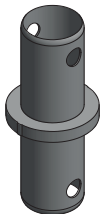


Ref.-No.	Description / Application	kg
29-401-10	Flange screw 18	1.1
29-401-12	Flange screw 28	1.2

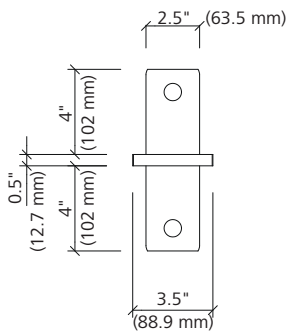


MEVA32 Frame Connector

MEVA32 frames are stacked using the Frame Connector and the Frame Pin Assembly. The thickness of the spacer plate on the frame connector is 0.5" (12.7 mm).



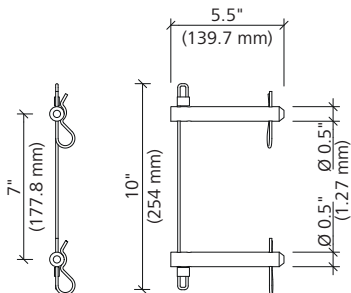
Ref.-No.	Description / Application	kg
2-500-2993350	MEVA32 Frame Connector	0.5



MEVA32 Frame Pin Assembly

MEVA32 frames are stacked using the Frame Connector and the Frame Pin Assembly.

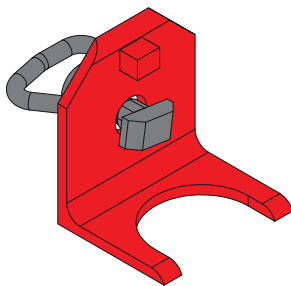
Ref.-No.	Description / Application	kg
2-500-2993355	MEVA32 Frame Pin Assembly	0.9



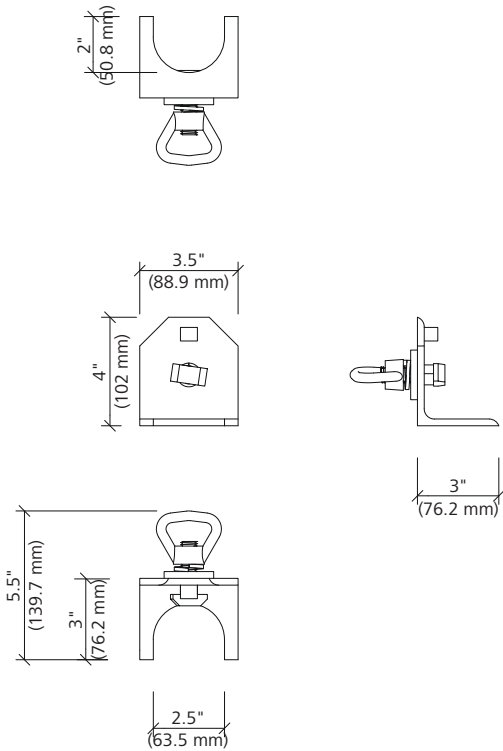
Shoring System

MEVA32 Jack Retention Clip

The Jack Retention Clip is used on MEVA32 screw jacks when lifting shoring towers by crane or moving shoring as tables. The Jack Retention Clip can be used at the top or bottom of the MEVA32 frames.

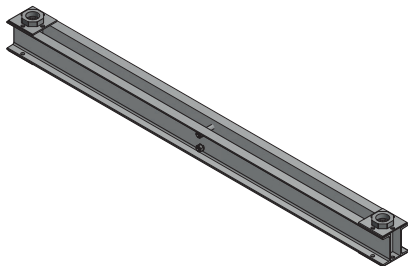


Ref.-No.	Description / Application	kg
2-500-2993380	MEVA32 Jack retention clip	0.7

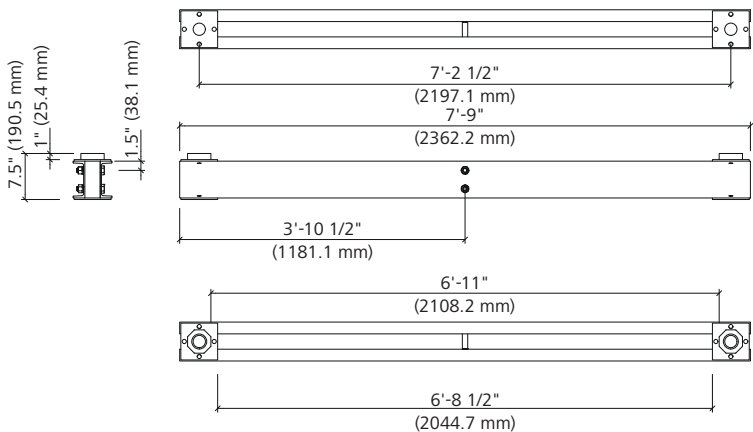


MEVA32 Saddle Beam 220

The Saddle Beam can be used in conjunction with MEVA32, MEVA32 folding heads, and MEP Spindles or MEVA32 Top Jacks, to provide efficient solutions for garage beam type structures, decreasing the number of shoring legs required to make both shoring and reshoring more efficient.



Ref.-No.	Description / Application	kg
2-500-2990940	MEVA32 Saddle beam 220	24.9



Shoring System

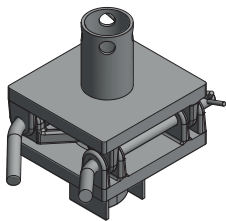
MEVA32 Folding Head

The MEVA32 Folding Head can be used on MEVA32 frames, with or without a screw jack.

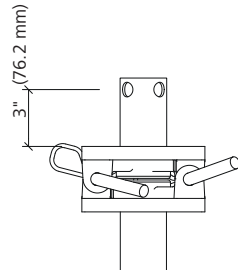
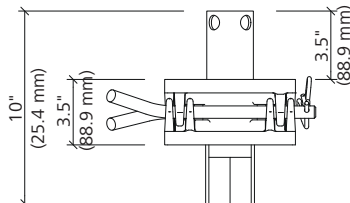
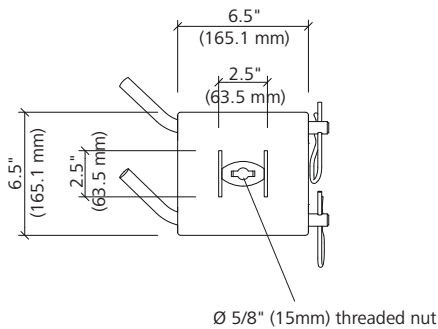
When used without a screw jack, the folding head is attached to the top of the frame using a Frame Pin Assembly.

When used with a screw jack the folding head is attached to the screw jack with an MEP 14/90 pin.

In both cases the Saddle Beam is attached to the folding head with a Flange Screw 18. used in Saddle Beams.

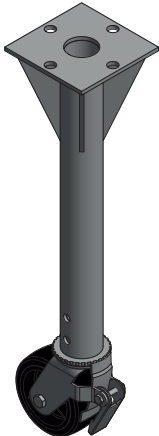


Ref.-No.	Description / Application	kg
2-500-2993320	MEVA32 Folding head	10.7

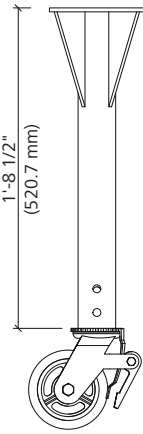
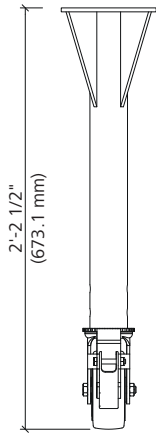
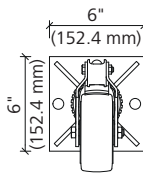


MEVA32 Saddle Beam caster adapter

The saddle beam caster adapter is connected to the underside of the saddle beams and is used to roll the MEVA32 tables, once the frames have been hinged up and out of the way, and the table lowered to the ground onto the casters at the bottom of the caster adapter.



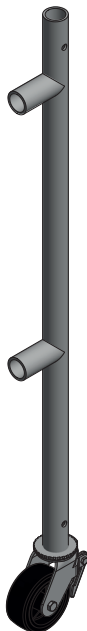
Ref.-No.	Description / Application	kg
2-500-2993361	MEVA32 Saddle beam caster adapter	15.0



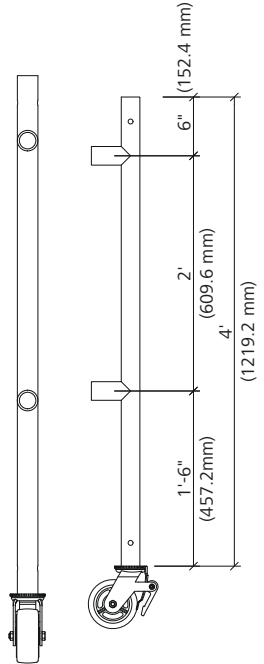
Shoring System

MEVA32 Frame caster adapter

The MEVA32 Frame Caster Adapter can be connected to the horizontals on the MEVA32 frame using the Swivel joint coupler 48/60 (flip upside-down and relocate caster to other end when used on 5' frames).

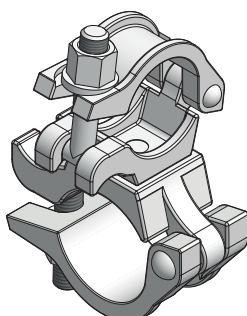


Ref.-No.	Description / Application	kg
2-500-2993364	MEVA32 Frame caster adapter	9.1

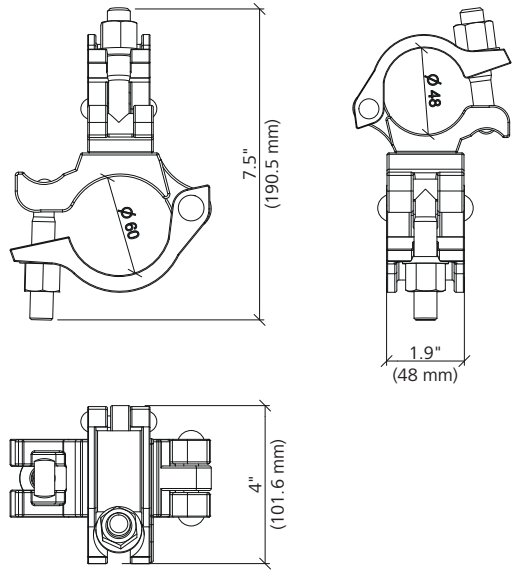


Swivel-joint coupler 48/60

galvanized; to attach the Frame caster adapter to the MEVA32 frame.



Ref.-No.	Description / Application	kg
2-500-2941253	Swivel-joint coupler 48/60	1.2



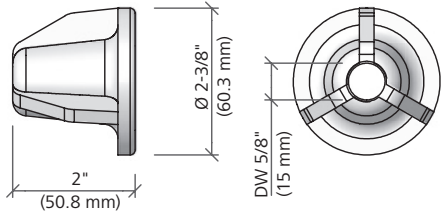
Shoring System

Drive nut 60

galvanized; DW thread $\varnothing 5/8"$ (15 mm),
plate $\varnothing 2-3/8"$ (60 mm)
safe working load = 98 kN @ 2:1 safety factor
Is used to tie the formwork to the ground or to a
wall connection.

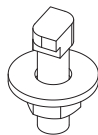


Ref.-No.	Description / Application	kg
29-900-23	Drive nut 60	0.5

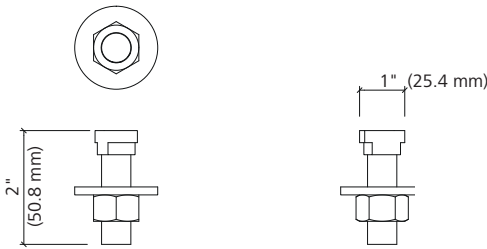


MEVA32 Twist Bolt Assembly

The assembly consists of a T-bolt, a nut and a
washer.
The assembly is used to connect Aluminum
Stringers to the Forkhead.

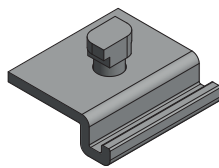


Ref.-No.	Description / Application	kg
2-500-2993391	MEVA32 twist bolt assembly	0.1

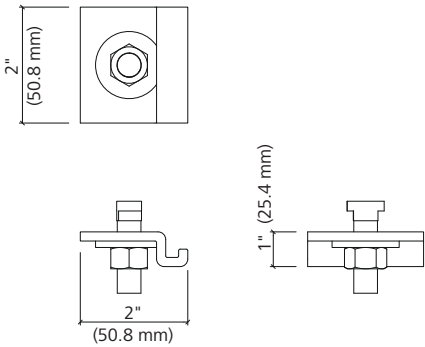


MEVA32 A-Clamp Assembly

The assembly consists of a T-bolt, a nut and a plate.
The assembly is used to connect Aluminum Joists to
Aluminum Stringers.

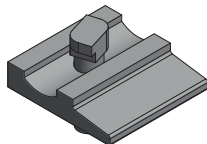


Ref.-No.	Description / Application	kg
2-500-2990704	MEVA32 A-clamp assembly	0.1

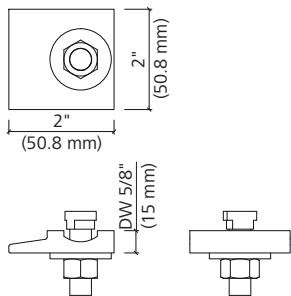


MEVA32 W-Clamp Assembly

The assembly consists of a T-bolt, a nut and a plate.
The assembly is used to connect Aluminum Joists to
the Saddle Beam.



Ref.-No.	Description / Application	kg
2-500-2990707	MEVA32 W-clamp assembly	0.1



Notes

Grid of dots for notes.



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