

**Leviat®**  
A CRH COMPANY

## Fabricator Solutions

Industry-leading performance, reliability and safety



Featured product brands

**MB** MeadowBurke®

**Imagine. Model. Make.**



We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

#### Our areas of expertise:



##### Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



##### Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



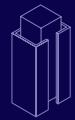
##### Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



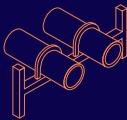
##### Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



##### Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including molds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.



##### Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

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#### Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke |  
Modersohn | Moment | Plaka | Scaldex | Thermomass

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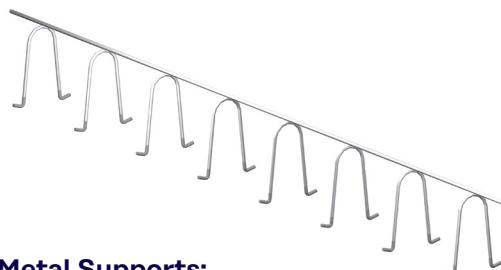
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**Splicing Products:**  
MBT Coupler



**Splicing Products:**  
Keyway Splice Box



**Metal Supports:**  
MB Continuous High Chair (CHC)



**Plastic Supports:**  
MB Tuff Chair



## Reinforcing Excellence

Modern construction provides ample opportunity for innovation, even for a building material as tried and trusted as reinforced concrete.

The Leviat team is ready to support those efforts. Combining over 140 years of global experience; best-in-class products from trusted brands like Meadow Burke, Halfen, and Ancon; and custom solutions

to meet the challenges of the modern job site; we are bringing unique solutions to the concrete construction industry.

Our full portfolio of reinforcing steel splicing systems, modular rebar connection products, and reinforcing supports are rigorously tested to ensure they meet or exceed industry standards.

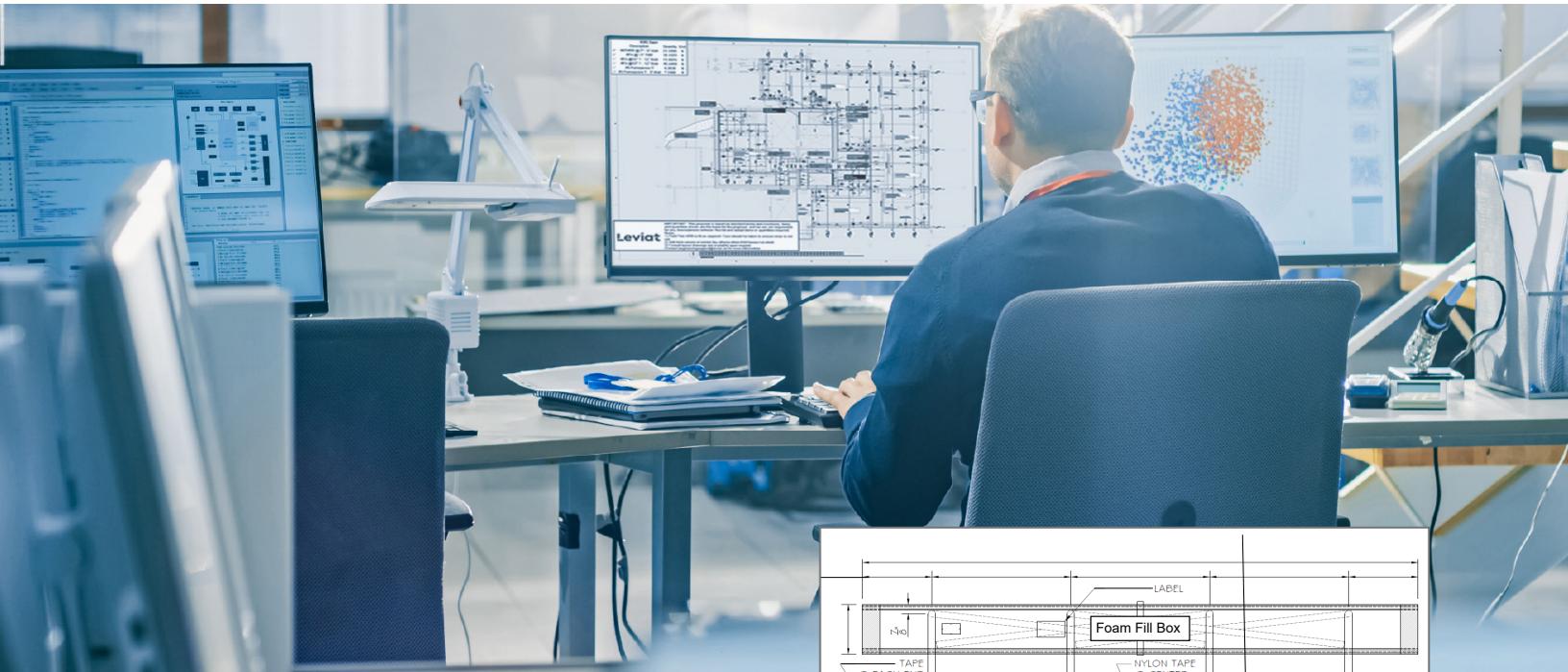
Additionally, Leviat's world-class engineering team and constant research, development, and innovation allow us to offer high-performance solutions that are safe, reliable, and cost-effective; making Leviat an ideal partner for your next cast-in-place project.

**Trusted products**  
featuring decades of unmatched quality, reliability, and real-world performance.

**Industry experts** in rebar splicing and reinforcing through design and engineering excellence.

**A culture of constant innovation** that fosters engineered solutions for projects of any size or complexity.

# Engineering



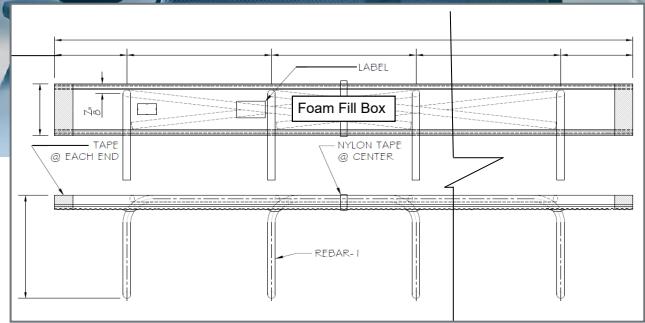
Leviat has a dedicated team of engineers to provide technical and engineering support for all of our products. Whether you have general questions or need assistance with a specific application, our team can be your best partner in finding solutions.

## Design Assistance

Our team of engineers are standing by to provide technical assistance for all of our products. From answering general questions to providing CAD details, and ensuring compliance with codes and standards, we ensure your project is supported at every step.

## Estimates / Takeoffs

Leviat's team of engineers offer comprehensive support for your next project with estimates, takeoffs, cut sheets and layout drawings. Rely on our team for meticulous planning and execution, guaranteeing smooth integration of our products into your project.



Contact us at [engineeringsupport@leviat.us](mailto:engineeringsupport@leviat.us) to partner with us for your next project.

## Technical Training

Our team can provide training on any of our products. We partner with you to make sure you understand how our products are designed and installed. We also provide support for any issues that may arise. We are your solutions partner from planning until the concrete cures.

## We also offer:

- BIM / CAD Models
- PE seals for USA and Canada
- Site Support
- Continuing Education

# Splicing Products

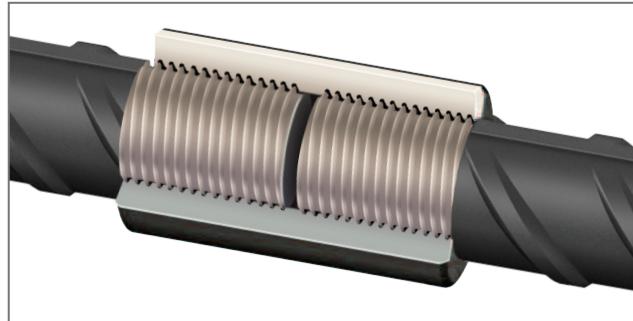


## MB BT Couplers

### Type 1 & Type 2HS Rebar Splicing System

MB BT Couplers are versatile and robust Type 1 & Type 2HS Splicing Systems used to mechanically connect rebar sections in segmental pours as an alternative to traditional dowel bars. The three-part system consists of a Splice Bar, Coupler and Setting Bar that meets the mechanical splice strength requirements of ACI-318-19 when used to splice grade 60 rebar.

- **Improved performance:** Exceeds ACI-318-19 Type 1 & Type 2HS splice requirements and maintains reinforcing steel continuity independent of concrete cover
- **Saves time and money:** Reduces costly form repairs by eliminating drilling of forms and simplifies form striping
- Available in standardized lengths (sizes #4 – #11) and configured to order





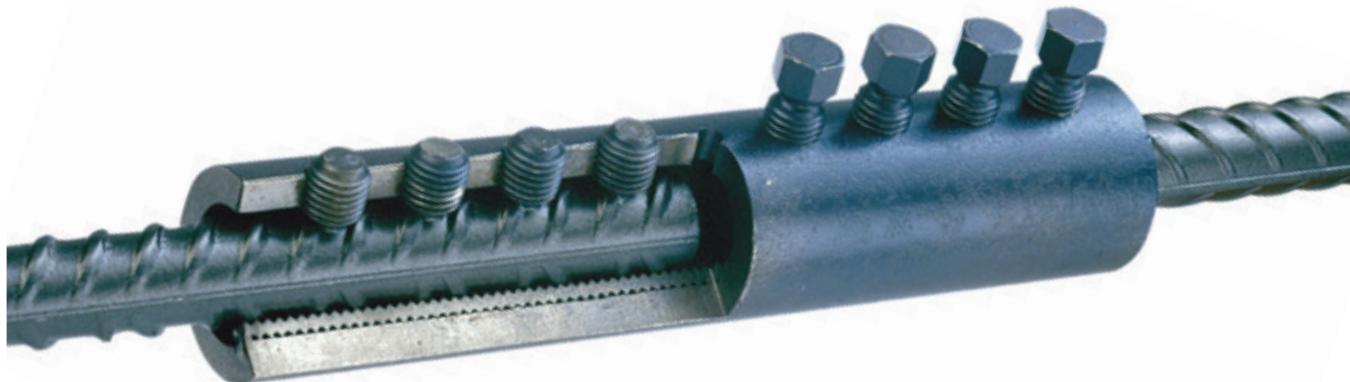
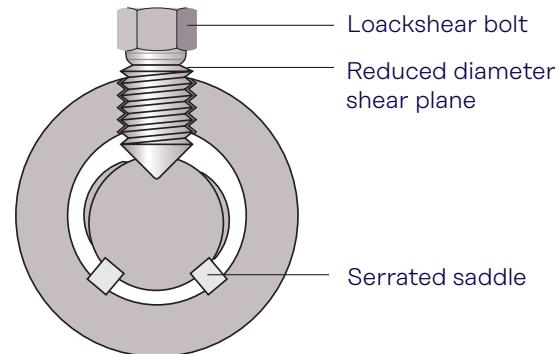
## MB MBT Couplers

### Type 1 & Type 2 Rebar Splicing System

MB MBT couplers provide an easy to install, cost-effective method of joining reinforcing bars, particularly when the fixed bar is already in place and space is limited.

Tightening of the shear bolts embeds the conical ends into the rebar, securing it against the serrated saddles. When the predetermined tightening torque is reached, the bolt heads shear off, providing an instant visual check of correct installation.

- Coupler performance meets ACI 318-19 Type 1 & 2 splice requirements
- Maintains steel reinforcing continuity, independent of concrete cover
- No bar end preparation required
- No bar rotation required
- Suitable for static and fatigue loading



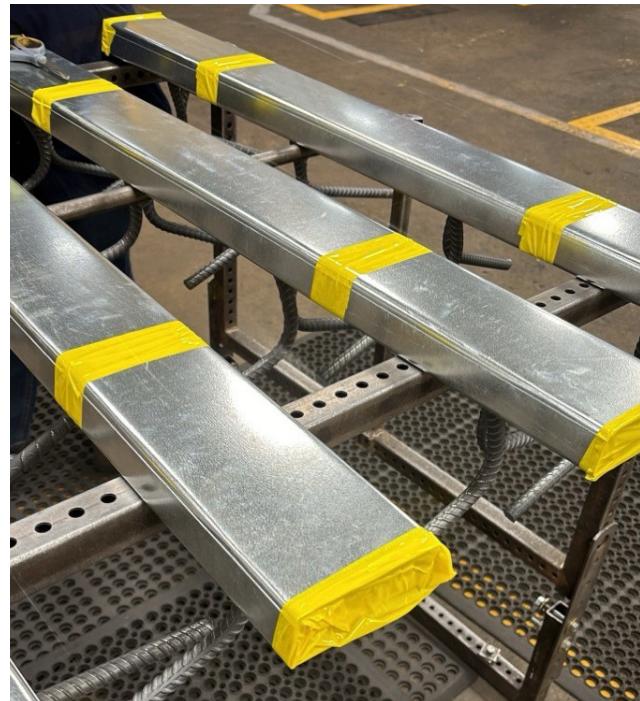
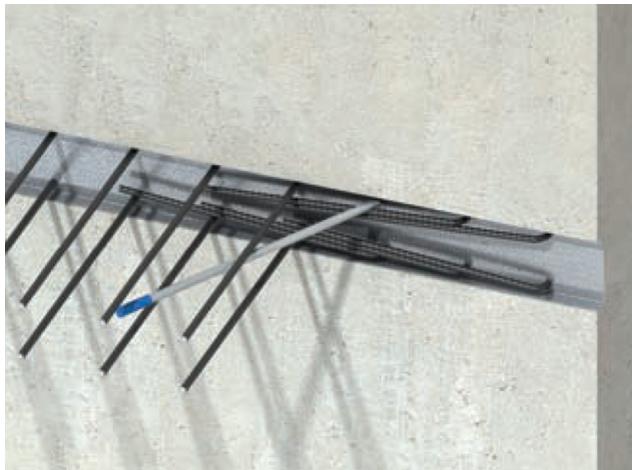
# Splicing Products

## MB Keyway Splice Box

The Keyway Splice Box system is a safe and cost effective reinforcement method that also provides time and labor savings in many applications.

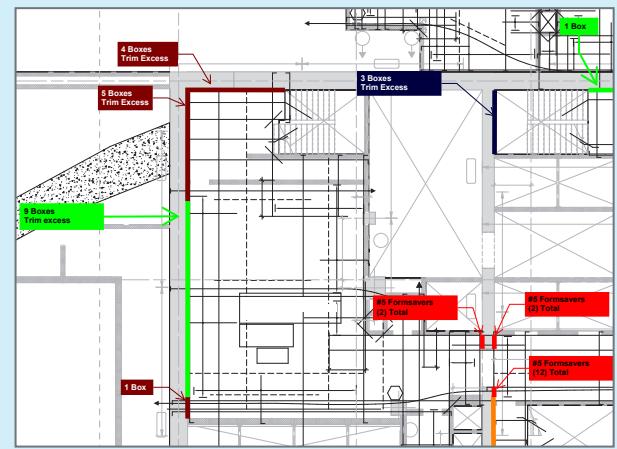
The system is custom made to meet each engineer's reinforcement detail, eliminating unnecessary labor on site. After concrete is placed and the formwork is removed, the KSB lid is removed to expose ready-to-use reinforcing bars which are bent out of the case to provide an easy lap splice to the main reinforcing steel and subsequent concrete pours.

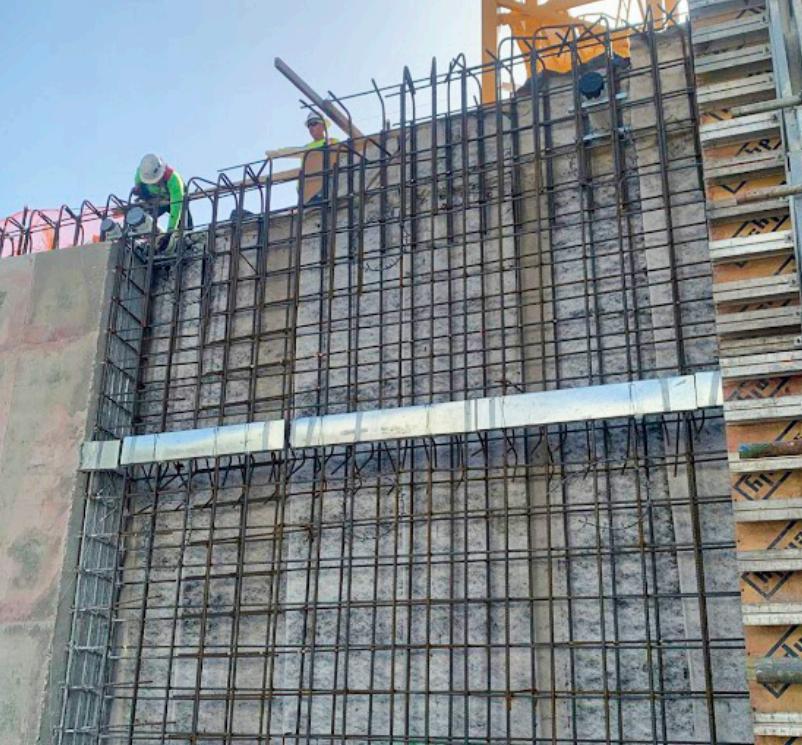
- The use of dual spec A615/A706 Q&T rebar provides the required ductility to allow re-bending of the bars
- Highly customizable - only limitation is what can fit in the box
- Faster installation than formsavers or drill/epoxy of rebar
- The "dove tail" keyway assures greater load transfer
- Produces a locked joint with superior pullout strength
- Available for #4, #5 & #6 rebar



## Engineering Support

Leviat simplifies the use and installation of the Keyway Splice Box system by providing estimated material take-off, submittal drawings and color-coded layout drawings.





**Left:** MB Keyway Splice Box units are tied to the rebar prior to casting. **Right:** The KSB lid has been removed to reveal continuous reinforcing bars that will be bent outward and tied into the floor slab.

## Applications

Keyway Splice Box systems may be used in most concrete construction joints. The systems are being utilized in high rise residential, hotels, office towers, hospitals, prisons, solar energy, wind towers, water treatment, concrete pavement, bridge construction, and many other types of projects. Typical joint applications include:

- Floor or Roof Slab to Wall
- Stair Riser & Landing to Wall
- Wall to Foundation
- Stair Landings to Wall
- Precast Elements
- Bridge Elements
- Slab to Slab
- Corbel to Wall
- Tilt-up Panels



## Benefits

- **Speed:** Keyway Splice Box units are easy-to-use and can be quickly nailed to formwork or tied to the main reinforcement, simplifying complicated construction joints. KSB systems require little on-site training to carry out installation.
- **Safety:** The Reinforcing Bars are housed in a steel case until ready for use, minimizing potential injury and improving available work space
- **Cost:** KSBs simplify forming designs and allow for larger concrete pours, easing rebar and formwork placement, and improving overall productivity. Formwork does not need to be drilled, damaged or repaired; extending its life.
- **Quality:** Pre-positioned bars ensure precise alignment. This assures full load transfer, increases joint strength and limits the concrete shrinkage between concrete placements.

# Metal Supports



MeadowBurke brand metal rebar supports used to support reinforcing steel at the proper elevation in commercial concrete projects. Examples include footings, bridge decks, slab on metal deck and many other applications and is the most popular style of support in use due its versatility and economical value.

Meadow Burke metal reinforcing bar supports can be manufactured in compliance with American Concrete Institute (ACI) ACI-SP-66, ACI-315, ACI-315R, CRSI Leg spacing and wire diameter specifications.

## Meet CRSI Corrosion Resistance Classification:

- Class 1 – Plastic dipped feet
- Class 1A – Epoxy coated
- Class 3 – Plain wire, no protection

## Meet CRSI Finishes Classifications:

- Available in plain wire, Epoxy coated, e-galvanized
- Epoxy coated meeting AASHTO specifications.
- Epoxy coated with plastic dipped feet.
- Complete plastic coating (100% encapsulate) up to 3" heights.
- Plastic dipped or Tipped feet
- Made in USA
- Available with metal sand plate

**NOTES:** Heights available in  $\frac{1}{4}$ " increments.

## Metal Continuous Offering

- MB Slab Bolster (SB)
- MB Slab Bolster Upper (SBR)
- MB Beam Bolster (BBU)
- MB Beam Bolster - Upper (BB)
- MB Continuous High Chair (CHC)
- MB Continuous High Chair - Upper (CHCU)

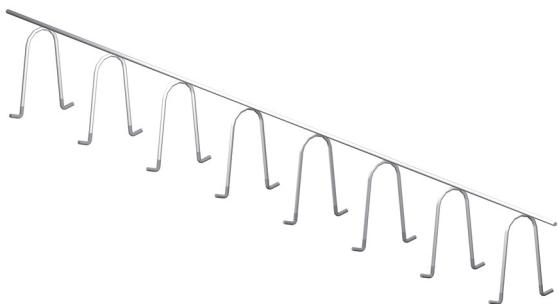
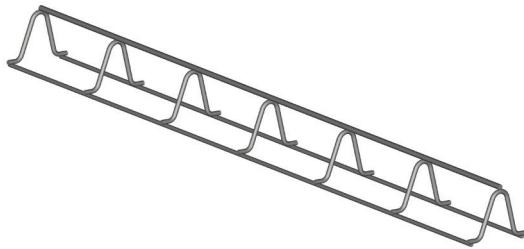
## Metal Individual Offering

- MB High Chair (IHC)
- MB Bar Chair (BC)

### **MB Slab Bolster - Upper (SBR)**

Provides accurate and efficient placement of upper mats of steel reinforcement in concrete elements under standard load conditions.

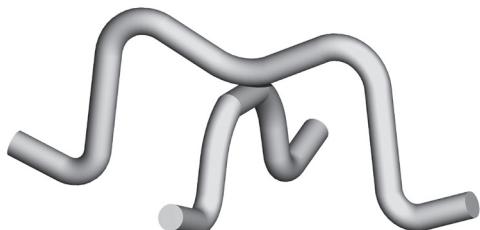
- Meets Buy America requirements
- CRSI Compliant
- Available in heights from  $\frac{3}{4}$ " to 5" in  $\frac{1}{4}$ " increments



### **MB High Chair (IHC)**

Supports upper reinforcing steel mats in footings, slab on metal deck, elevated concrete decks, bridge decks and other applications.

- Meets Buy America requirements
- CRSI Compliant
- Available in cover heights from 2" to 40"



### **MB Continuous High Chair (CHC)**

Supports reinforcing steel in footings, slab on metal deck, elevated concrete decks, bridge decks and other applications.

- Meets Buy America requirements
- CRSI Compliant
- Available in sizes from 2" to 19"  
\*Taller sizes available on request.



### **MB Bar Chair (BC)**

MB bar chairs are made to hold a reinforcing steel bar in slab on metal deck, footings, elevated concrete decks and other in situ applications.

- Meets Buy America requirements
- CRSI Compliant
- Available in cover heights from  $\frac{3}{4}$ " to 2"

# Plastic Supports – Continuous

## MB Tuff Plus SB - Slab Bolster

The MB Tuff Plus Slab Bolster is used to provide accurate cover for lower mats of steel reinforcement in concrete elements. Suitable for a wide range of uses, the Tuff Slab Bolster can be used in Precast concrete construction, post tensioned concrete and other cast-in-place applications. The Tuff Plus Slab Bolster may also be used as side form spacers in vertical formwork.

- Available in cover heights from  $\frac{3}{4}$ " to 3" in  $\frac{1}{4}$ " increments
- Molded in "concrete grey" to blend with concrete surface.
- 1" corrugations along top bar to visually aid rebar placement
- Manufactured in standard 5' lengths.
- Robust Snap Locks on each end of the support allow sections to be connected to make greater lengths of bolster as needed.

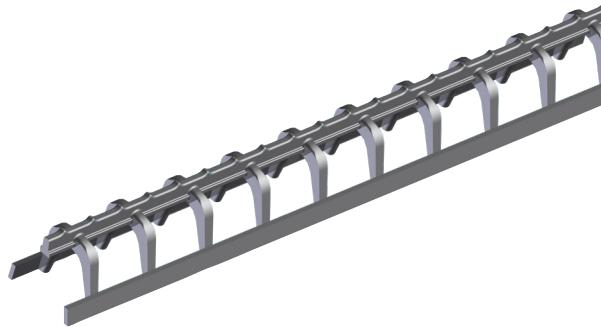


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## MB Tuff Plus SBR - Slab Bolster with Runner

Provides accurate cover for upper mats of steel reinforcement in concrete elements and can be used in Tilt-up concrete construction, Precast concrete construction, post tensioned concrete and other cast-in-place applications. This all-plastic slab bolster may also be used as side form spacers in vertical formwork.

- Available in cover heights from  $\frac{3}{4}$ " to 4" in  $\frac{1}{4}$ " increments
- Molded in "concrete grey" to blend with concrete surface.
- 1" corrugations along top bar to visually aid rebar placement
- Manufactured in standard 5' lengths.
- Robust Snap Locks on each end of the support allow sections to be connected to make greater lengths of bolster as needed.



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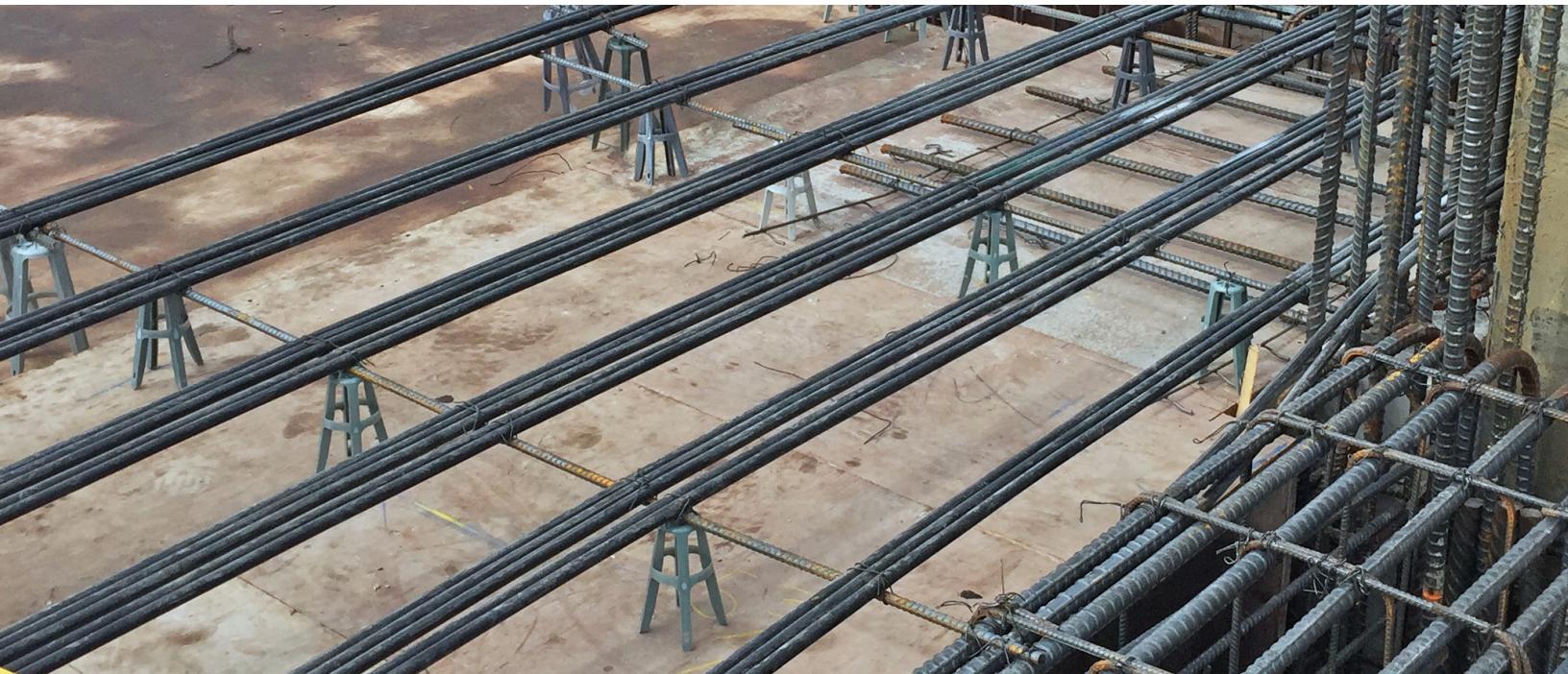
## MB X-Tuff Beam Bolster

X Tuff Beam Bolsters are made with an advanced composite plastic formula for best-in-class strength and durability. They provide exceptional performance even in extreme temperatures and corrosive environments, helping contractors deliver fast and reliable rebar placement without the rust concerns of common metal supports.

- Available in cover heights from  $\frac{3}{4}$ " to 4" in  $\frac{1}{4}$ " increments
- Advanced support design provides industry leading strength and optimized load distribution
- Meets AC-318 Building Code Requirements
- Designed and tested to resist penetration of forming materials, extending the usable life of deck form boards.
- 1" spaced saddles aid in rebar placement and keep rebar in position virtually eliminating movement of reinforcement once placed.



# Plastic Supports – Individual



## MB Tuff Chair

The patented MB Tuff Chair is designed and manufactured to provide enhanced strength and durability to deliver fast and reliable rebar placement without the rust concerns of common metal chairs.

- Available in cover heights from  $\frac{3}{4}$ " to 10" in  $\frac{1}{4}$ " increments
- Non-corrosive plastic produced in "concrete grey" coloring to blend with concrete surface
- Minimalized foot contact point with form designed to remain invisible when concrete is exposed.



PATENT US8028490B2



## MB Mesh Bar Chair with Base

These light duty composite chairs are used to support the upper layer of reinforcing in an insulated panel sandwich panel. The flanged base distributes the weight of the rebar while maintaining proper reinforcement layer depth.

- Prevents damage to insulation.
- The Mesh Chair with Base is molded in black and available in cover heights from 1" to 6".

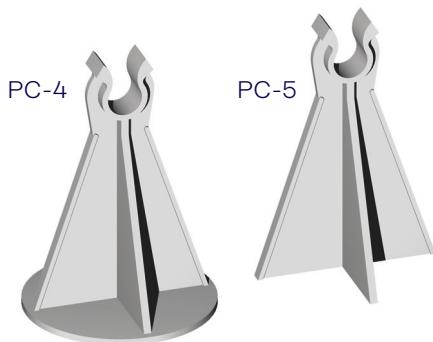
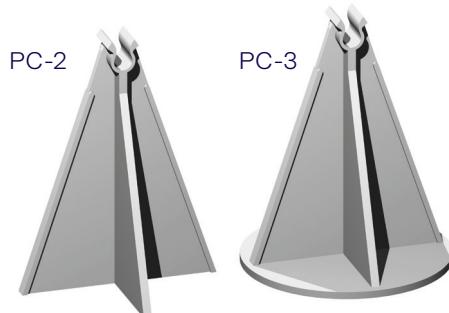
# Plastic Supports – Individual

## MB PC-2 Snap-On Mesh Chair

### MB PC-3 Snap-On Mesh Chair with Base

The PC-2 Snap-On Mesh Chair is an economical heavy-duty, four-sided chair that quickly snap onto 4 ga. to 10 ga. mesh to correctly position it in the slab. The PC-3 Mesh Chair is molded with a base plate to accommodate use on a loose substrate.

- PC-2 Mesh chair is available in most cover heights from  $\frac{3}{4}$ " to 3"
- PC-3 Mesh chair with base is available in cover heights from  $1\frac{1}{2}$ " to 3".
- Snap lock feature ensures rebar is firmly attached to bar support
- Molded in "concrete grey" to blend with concrete surface.



## MB PC-4 Snap-On Paving Chair with Base

### MB PC-5 Snap-On Bar Chair

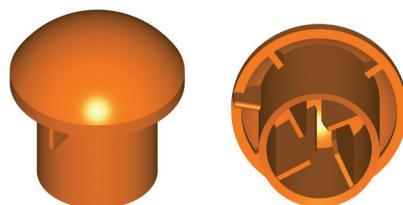
The PC-4 Snap-On Paving Chair is a substantial plastic bar support available to support reinforcing steel in various applications with an integral base for use on loose substrate. The PC-5 Snap-on Bar Chair is the equivalent of the PC-4 with a base for use on formwork and hard surfaces.

- Available in cover heights from  $\frac{3}{4}$ " to 7"
- For use with rebar sizes #3 to #6
- Snap lock feature ensures rebar is firmly attached to bar support
- Molded in "concrete grey" to blend with surface.

## MB BC-2 Bar Cap

The BC-2 Bar Cap provides protection from scrapes, cuts and torn clothing caused by protruding rebar. It is not intended for use as an impalement protector.

- Accepts rebar sizes #3 through #8
- Molded in High Visibility safety orange
- Offset "fins" ensure positive attachment to rebar



# North American Locations

## California

3611 E La Palma Ave  
Anaheim CA 92806  
(800) 804-6565

**Florida** Corporate  
6467 S Falkenburg Road  
Riverview FL 33578  
(800) 282-7213

## Georgia

3080 N Lanier Parkway  
Decatur GA 30034  
(800) 241-5662

## Iowa

1000 Technology Drive  
Boone IA 50036  
(800) 232-1748

## New Jersey

526 US Route 46  
Teterboro NJ 07608  
(800) 207-7778

## Oregon

155 SE Hazel Dell Way  
Canby OR 97013  
(888) 232-9991

## Pennsylvania

565 Oak Ridge Road  
Hazle Township PA 18202  
(800) 550-0060

## Texas

7000 Will Rogers Blvd  
Fort Worth TX 76140  
(800) 993-9641

## Texas

8521 FM 1976  
Converse TX 78109  
(800) 323-6896

# Contact Information

## Customer Service

(877) 518-7665

## Email

info@leviat.us

## Engineering Support

(813) 212-5866

## Web

www.leviat.com

**Leviat.com**

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