

## Tilt-Up Solutions

Industry-leading performance, reliability and safety



Leviat is the home of:

**MB** MeadowBurke®

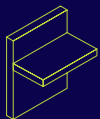
**H**  
HALFEN

**thermomass®**

**Imagine. Model. Make.**

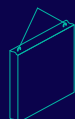
We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

## 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.



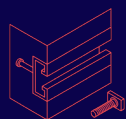
### Lifting & Bracing

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.



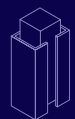
### Façade Support & Restraint

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.



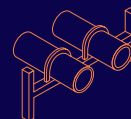
### Anchoring & Fixing

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.

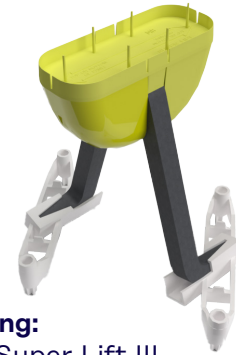
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## Leviat product ranges:

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

# Contents

<b>Reimagining Tilt</b>	<b>4</b>
<b>Engineering</b>	<b>5-6</b>
Tilt-Up Lift & Brace Engineering	5
Tilt-Up Shop Drawings	6
<b>Lifting</b>	<b>7-8</b>
MB Super Lift III	7
MB Super Lift III Ring Clutch	7
MB Super Lift Strongbacks	8
MB Lift-It Plate	8
<b>Bracing</b>	<b>9-10</b>
MB Super Braces	9
MB Burke Bar	10
MB B-75 Wall Insert	10
<b>Brace Anchoring</b>	<b>11-12</b>
MB Brace Bolt	11
MB Rapid Bolt	11
MB Slam Anchor	12
MB Brace Badger	12
<b>Insulating</b>	<b>13-16</b>
Thermomass System NC	14
Thermomass System SC	14
Fabricated Insulation Layout Services	15
Complete Tilt	16
<b>Connecting</b>	<b>17-18</b>
MB Super Lynk	17
MB Super Lynk SR	17
Halfen Adjustable Bolted Connections	18
MB Burke Slot	18
<b>Accessories</b>	<b>19-20</b>
<b>Highlighted Tilt-Up Projects</b>	<b>21</b>



**Lifting:**  
MB Super Lift III



**Insulating:**  
Thermomass MC/MS  
Series Connector



**Connecting:**  
MB Super Lynk

## Leviat is proud to be a sustaining member of the Tilt-Up Concrete Association

As a Sustaining Member of the Tilt-Up Concrete Association (TCA), Leviat is committed to the continual innovation and advancement of the global tilt-up community. We recognize that contributing to the good of the industry is a benefit to our company and our customers.



# End-to-End Tilt-Up Solutions



## Best-in-Class Products

### ■ Lift & Brace

Leviat manufactures a full line of industry-leading Meadow Burke lifting hardware and braces, as well as strongback supports and accessories.



### ■ Insulation Systems

Thermomass products provide best-in-class energy efficiency and thermal performance for composite and non-composite panel construction.



### ■ Concrete Connections

Leviat manufactures Meadow Burke and Halfen systems for a variety of weld-free connection applications, including panel-to-panel and panel-to-slab.



Leviat offers a range of products and services for all aspects of site-cast tilt-up construction, including industry-leading lifting systems, insulation products, concrete connections, and more.



**Panel-to-Panel  
Connections**

**Tension Rod Systems**



## Industry-Leading Services

### ■ Rental Services

Leviat offers a variety of trusted product rentals, including Meadow Burke Super Braces and Brace Badger anchoring systems.

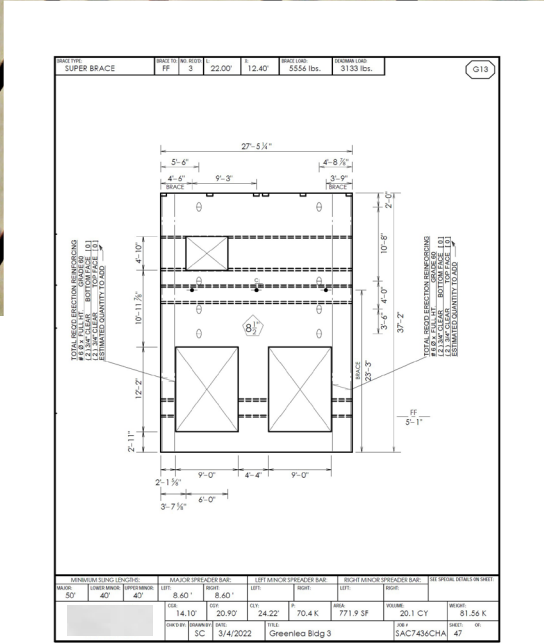
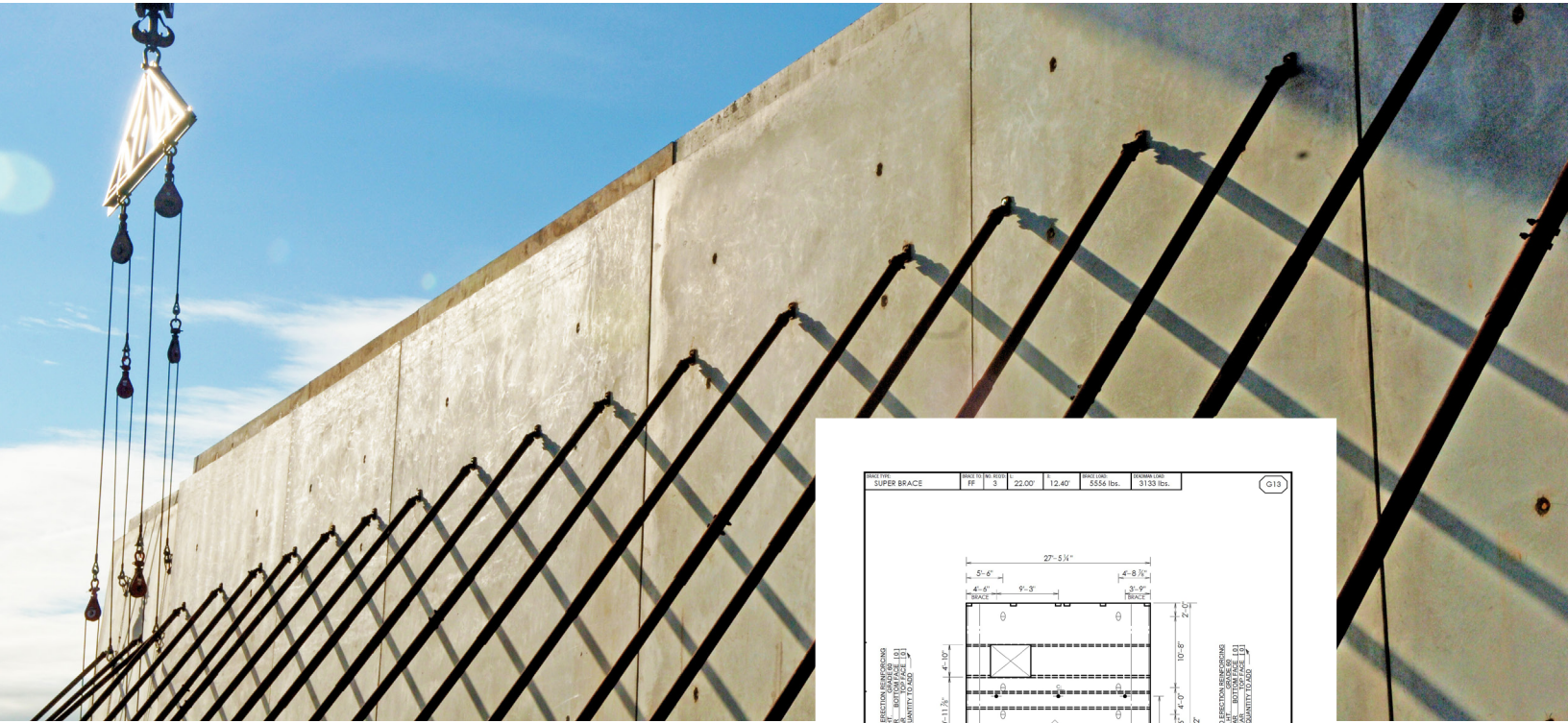
### ■ Engineering Services

Leviat's engineering teams can provide support and a variety of design services at every stage of the tilt-up construction process.



Leviat's tilt-up products are proudly made in America, reflecting our commitment to quality and support of local communities.

# Tilt-Up Lift & Brace Engineering



Leviat's engineering services offer a host of benefits to ensure your tilt-up project is constructed as efficiently, economically, and as safely as possible.

## Detailed Planning

Leviat's engineering team produces easy-to-read panel drawings with lift and brace locations correctly positioned and indicated to minimize the risk of concrete stress and cracking during erection and bracing.

## Custom Solutions

Leveraging state-of-the-art design tools and decades of experience, our engineering and manufacturing teams can customize many of Leviat's designs to meet your project's specific requirements.

## Unmatched Experience

Our team is the industry-leader in lift and brace design, with over 200 years of combined experience. We are also active participants in a variety of industry committees, including those for the Tilt-Up Concrete Association.

Contact [projectengineering@leviat.us](mailto:projectengineering@leviat.us) or visit <https://meadowburke.com/tilt-up-request/> to try the Leviat advantage on your next tilt-up project

## We also offer:

- Preliminary material take-offs
- Bills of Materials
- Strongback design and location
- Additional rebar required for lifting purposes only
- PE seals for USA and Canada



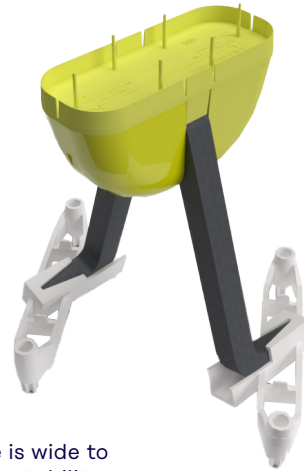
# Lifting

## MB Super Lift III

The MB Super-Lift III insert module is a dependable combination of a two-part sturdy base, a high-strength steel anchor, and a two-part, snap-together recess former.

- Made in the USA in material and production
- Insert steel is fully tested and steel heat code is found on every insert
- Utilize a 2.5 to 1 Safety Factor
- 22,400 SWL in Tension and Shear in concrete over 10" thick
- New Recess Member makes the anchor easier to find and remove from the panel

The two piece Recess Former comes attached and fully assembled



The Base is wide to give extra stability and support

## MB Super Lift III Ring Clutch

The MB Super-Lift III Ring Clutch assembly consists of a main clutch body, a curved bolt/handle and bail. Installation is safe, quick and easy; simply rotate the curved bolt/handle to the open position, drop the main body into the anchor recess and rotate the bolt/handle to the closed position.



- Strong, reliable lifting device
- Clutch can be engaged in SLIII insert in seconds
- Easy installation
- Quick Ground Release using chain and rope
- 112,000 LB ultimate load
- Works on SLIII face and edge lift inserts

## MB Super Lift III Edge Lift Anchor

The Super Lift III Edge Lift Anchor is designed for safe edge lifting and rotation of thin wall precast elements.

- Its two 'ear' design restricts the rotation of the ring clutch
- Its design also transmits lateral forces directly to the anchor to mitigate spalling



## MB Super Lift Strongbacks

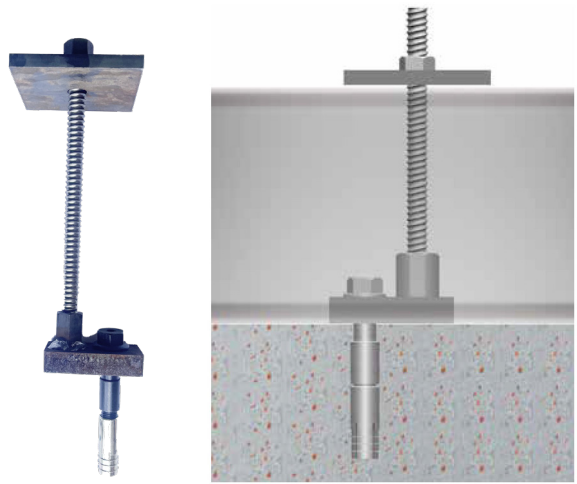
MB Super Lift Strongbacks provide superior strength for slender elements during lifting.

- With no welded parts, these units can be disassembled for maintenance or part replacement
- Available in 10', 15' and 20' lengths and have full moment splice plate sets to join them.
- Available in mill finish or painted steel to reduce rusting.

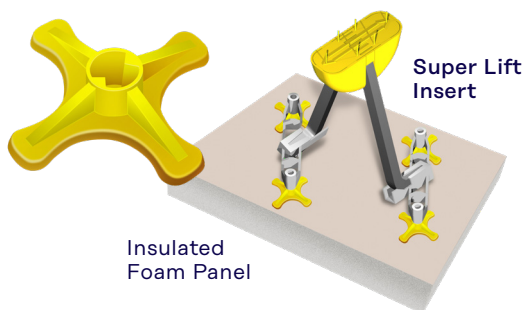


## MB Strongback Quickconnect

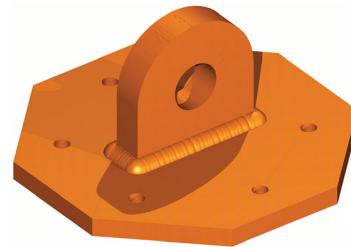
This assembly procedure allows the contractor a fast, safe and effective means of post-concrete pour attachment of a Strongback with the use of a MB Slam Anchor and the new MB Strongback Quickconnect.



## MB Super Lift Shoe



MB Super Lift Shoes improve the stability and positioning of Super Lift III anchors, especially in insulated panels.



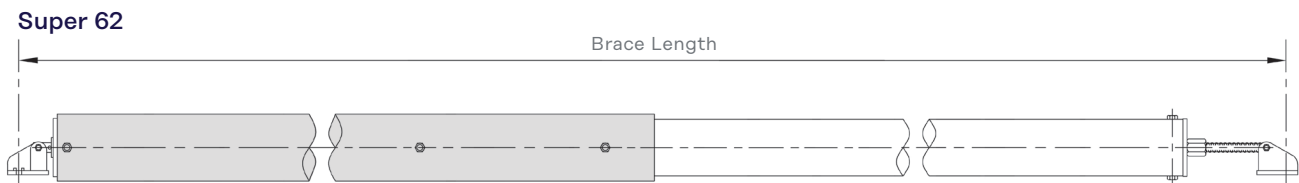
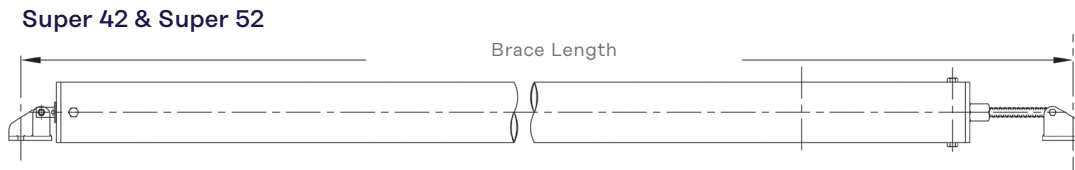
## MB Lift-It Plate

The Lift-It Plate provides high pullout strength with a low profile, making it ideal for face and back lifts of thin-wall units and stripping, handling, and erection applications.

- Designed for 2-, 4-, 8-, and 10-ton capacities
- Available in plain and hot dip galvanized finishes.

# Bracing

## MB Super Braces



### Available for purchase or rent

Contact [rental@leviat.us](mailto:rental@leviat.us)  
for more information

MB SuperBraces are used to temporarily support concrete panels to resist wind load until a permanent connection is made. The brace is anchored to a concrete floor slab, Deadman or an MB Brace Badger. The top foot attaches via an embedded brace insert.

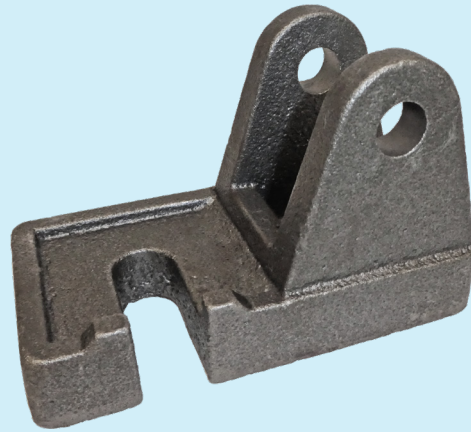


- Variety of sizes to brace panels from 10 ft to 94 ft in height
- Braces can be used on the inside or outside of the structure
- All braces have additional length adjustment to simplify final plumbing
- Complies to ASCE 37-02 and ASCE 7-10 regarding basic wind speeds
- Engineered to be used with Meadow Burke's Badger, Slam Anchor, MB Brace Bolt, MB Rapid Bolt, and Brace Insert.

## Brace Shoe

New, taller, heavy-duty brace shoes can be used on both ends of the brace which simplifies assembly and inspection, as well as inventory management.

All new orders for Super 32 and Super 37 Braces will incorporate this updated design.



## MB Burke Bar

Available in two different sizes to allow for the best Burke Bar for the job. These are the perfect companion to any construction site or precast plant. Burke bars come in handy when you need to:

- Strip forms
- Adjust a door jam
- Hundreds of uses
- Remove a stud wall
- Unstick panels
- Pull nails or spikes
- Move panels

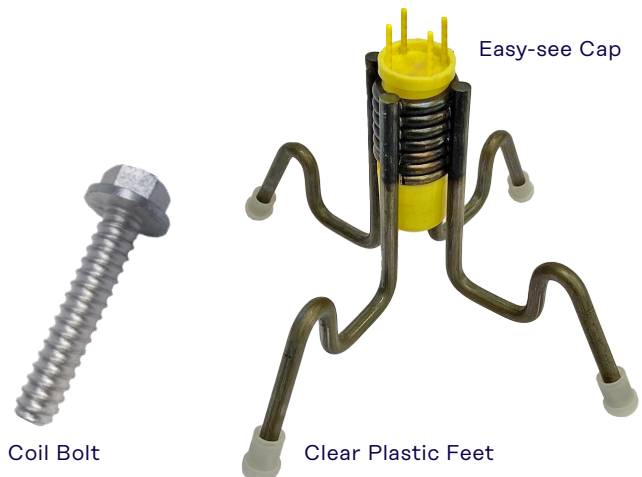
Built for long-lasting heavy-duty use. The handle is made of rigid structural tube. The whole bar is made with 10% more steel than competitors and they're all coated with a thermal polyester finish.



## MB B-75 Wall Insert

These solid bolted connections have proven the strength and security of this system on thousands of job sites around the country.

- Strongest brace attachment to panel
- 3/4" x 4" Coil bolt to attach brace
- Easy-see cap makes it easy to locate inserts
- Plastic feet obscure insert on back of panel



# Brace Anchoring



## MB Brace Bolt (Multi-use)

MB Brace Bolt safely and economically secures tilt-up braces to the slab.

- Multi-use
- High pull out capacity
- Uses 20mm drill bit



Dual threads don't rely on expansion or displacement to generate strength.

### NEW PRODUCT

## MB Rapid Bolt (Single-use)

MB Rapid Bolt safely and economically secures tilt-up and precast braces to the slab.

- Single-use
- $\frac{3}{4}$  x 6.25" in length
- 8,100 lbs SWL brace load in 6" slab and 3,000 psi concrete



## MB Slam Anchor

The MB Slam Anchor was designed to address the shortcomings of existing brace-to-floor connectors.

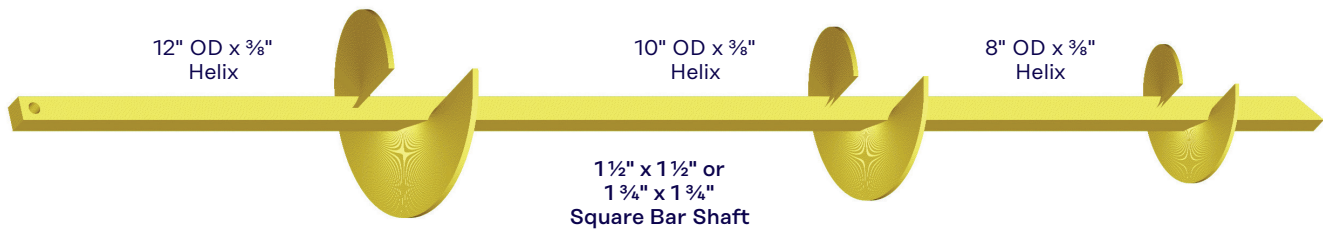
- The MB Slam Anchor carries a 9,000 lbs. load with a 2:1 safety factor.
- Quick, virtually foolproof installation.
- Unique expansion mechanism is not a threaded connection, and does not have a torque requirement and does not need to be retightened.
- Reusable. Only a small drop-in is expended at each use.



## MB Brace Badger Helical Anchor System

MB Brace Badgers offer contractors an economical and efficient alternative when conventional bracing to floor slabs is not possible or desired.

- Eliminates concrete deadmen
- Environmentally friendly
- Offers quick installation and removal
- The strongest brace anchor available
- Verifiable load capacity in all soil conditions
- Works with **ALL** Meadow Burke braces
- Reusable



# Insulating

Thermomass is the original, high-performance insulation system for tilt-up concrete panels.

Thermomass insulation systems pair high-performance fiber-composite connectors and energy-saving rigid insulation to create building envelopes that exceed stringent energy codes while minimizing energy loss and mitigating condensation and mold growth concerns. The result: improved energy-efficiency, reduced maintenance, and enhanced durability.

- **Edge-to-Edge Performance:** Non-conductive connectors tie together the entire wall assembly, allowing for a thermally-broken, edge-to-edge insulated building envelope.
- **Extensively Tested:** Thermomass connectors are fully tested for load bearing, fire, thermal cyclic and long-term durability by independent labs, including ICC.
- **Easy Installation:** Pre-drilled insulation and threaded connector options allow for simple, easy installation of Thermomass components.
- **Structural Options:** Connector options are available to cast both structurally non-composite and structurally composite panels.

## Thermomass Custom Insulation Offering

Leviat offers a variety of solutions, including engineered systems and fabricated insulation components:

- **FAB:** Insulation is pre-drilled and fabricated to match available project specifications; window, door and wall openings; and other details.
- **Punched:** Full 4'x8' insulation sheets are punched with regular hole spacing for easy connector installation.
- **Express:** full sheets of insulation are provided with threaded MS-T Series connectors to be drilled into insulation.



	FAB	Punched <sup>SM</sup>	Express <sup>SM</sup>
<b>Design Services</b>			
Panel design assistance	✓	✓	✓
Preliminary thermal/moisture/R-value analyses	✓	✓	✓
Pre-design education/CEUs	✓	✓	✓
<b>Production Services</b>			
Insulation pre-drilled to accept connectors	✓	✓	✗
Panel insulation layouts	✓	✗	✗
Detailed system manual included	✓	✗	✗
Itemized insulation with optimized connector patterns	✓	✗	✗

## Thermomass System NC

Thermomass System NC is designed to create a non-composite insulated concrete sandwich wall panel where MC/MS Series or threaded MS-T Series connectors sandwich the structural and cladding wythes of concrete around high-performance rigid insulation board such as XPS, ISO or EPS.

- Independent interior structural and exterior cladding wythes allow for free expansion and contraction of both layers, minimizing the risk of thermally induced bowing and cracking.
- Ideal for high-performance buildings with significant temperature differentials between interior conditioned space and outdoor environment.
- ICC evaluated: ESR 1746



MS-T Series



MC/MS Series



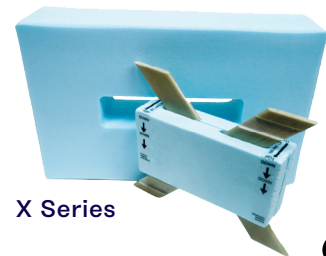
## Thermomass System SC

Thermomass System SC optimizes insulation coverage and composite action, providing designers the highest level of insulation value in a composite panel. High-capacity CC Series and X Series connectors to tie the two wythes of concrete and a selection of high-performance rigid insulation board such as XPS, ISO or EPS.

- Specially engineered connectors allow for shear transfer between the concrete layers, allowing them to create a structurally composite assembly and a thinner panel.
- Reduced thermal bowing when compared to traditional composite walls with metal ties or solid concrete sections.
- ICC evaluated: ESR 2873



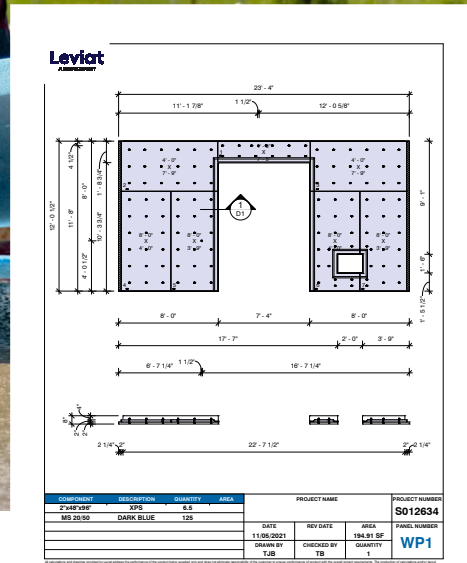
CC Series



X Series



# Fabricated Insulation Layout Services



Insulation Layout Drawing

Leviat offers a number of insulation layout services to ensure your tilt-up project meets all of your thermal, moisture, and energy-efficiency goals.

## Expert Advice

We support your design by providing recommendations on the best insulation systems to meet your project's thermal requirements and composite structural behavior.

## Custom Solutions

We offer a number of custom insulation fabrication levels specifically aligned to meet your project requirements and construction schedule.

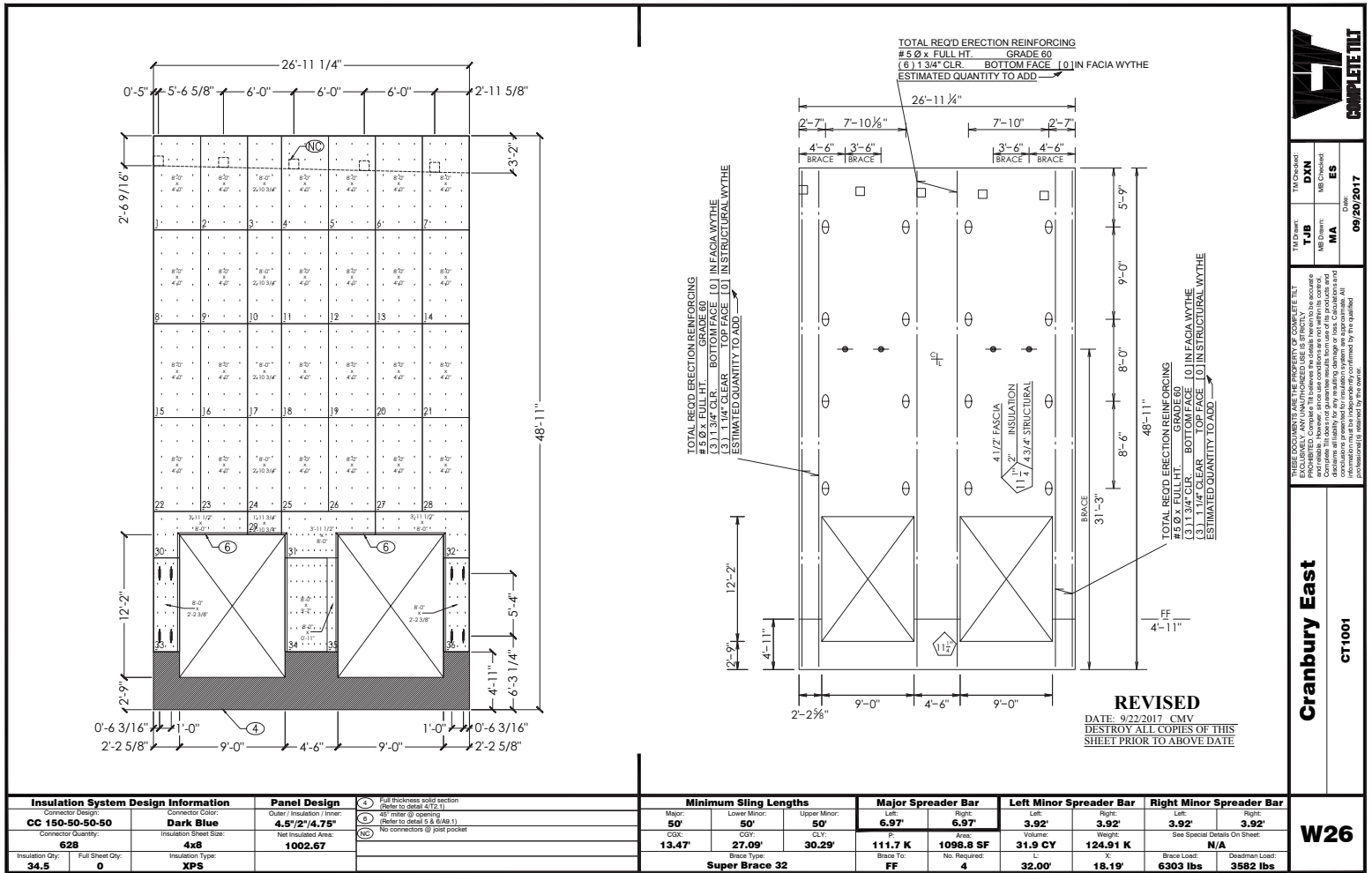
## Easy Installation

Leviat's Thermomass system manual is your guide for a smooth installation on the job site. The detailed layouts provide easy to follow instructions for the placement of prefabricated insulation sheets and connector products.

## We also offer:

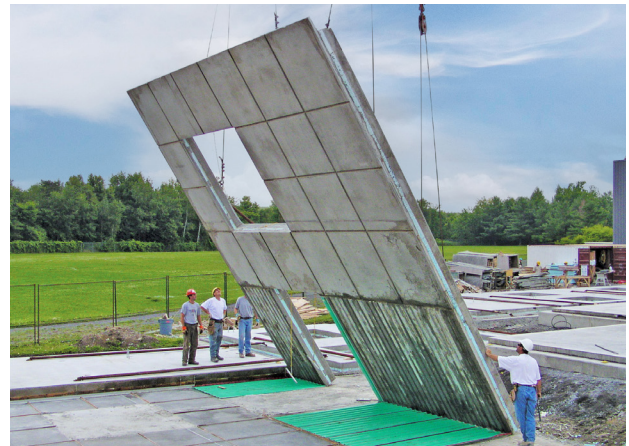
- Detail review
- Thermal analysis
- Composite panel design assistance
- PE seals for USA and Canada

# Complete Tilt



Complete Tilt bundles the services and expertise of Leviat's industry-leading lifting, bracing, and insulation products to create one, single-source resource for concrete sandwich panels.

- Dedicated Project Manager:** Overseeing all aspects of panel design and construction provides single source responsibility for detailing, analysis, and engineering assistance, resulting in enhanced efficiencies.
- Consolidated Engineering Manuals:** Provides easy-to-read lift and brace guide and insulation system layouts with references for thermal, moisture and structural design resources.
- Optimal Coordination of Trades:** Results in enhanced construction efficiency.



# Connecting

## MB Super Lynk

Super Lynk is a fast, strong and discrete way to permanently connect concrete panels to footings. It requires only a single bolted connection and is easily concealed within the normal grout line process.

- **Saves time and money:** The single  $\frac{3}{4}$ " x 10" MKT bolt (provided) connection is simple to install and eliminates the need for epoxy, grout and in-field welding. Bolting and panel grouting can be done same day as lift.
- **Improved performance:** The engineered, patented connection system has been developed by Leviat's team of Tilt-Up experts to meet ACI 318-14
- **Improved aesthetics:** With a profile less than 2 $\frac{1}{2}$ ", the Super Lynk is discrete relative to alternative connection systems and can easily be concealed by normal backfill and landscaping.



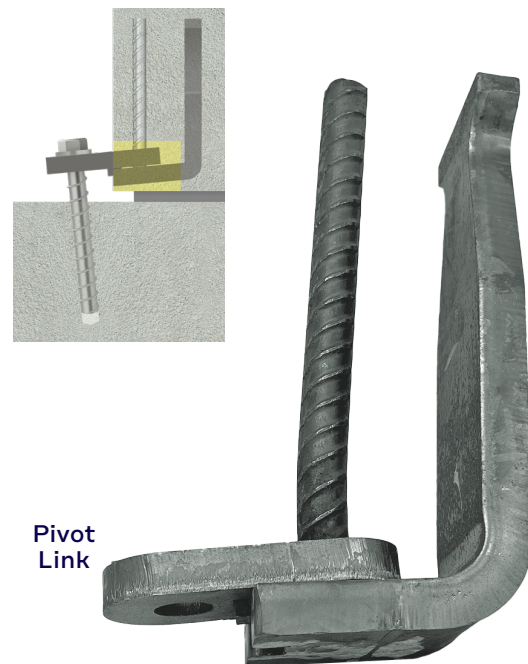
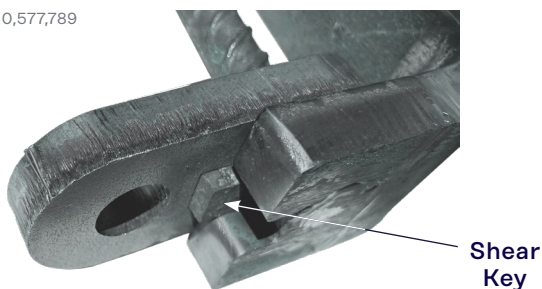
### NEW PRODUCT

## MB Super Lynk SR

Super Lynk SR includes all of the benefits and features of the original Super Lynk and resists shear forces through the inclusion of a patented shear key that resists movement of the pivot link.

- **Shear Resistance:** The advanced Shear Key available with Super Lynk SR is engineered to resist shear loads.

US PATENT 10,577,789



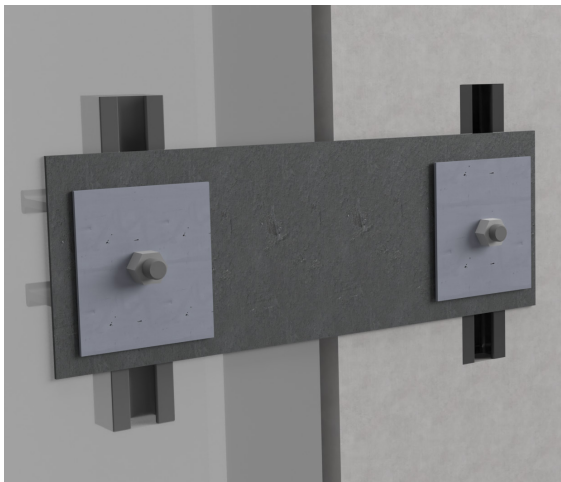
## Halfen Adjustable Bolted Connection



Halfen Adjustable Corner Connection Kits reduce labor cost and provide a simple, non-weldable connection and are available in two standard profiles for minimum wall panel thicknesses of 6" and 8".



- **Reduced labor costs:** As bolted connections can be installed by the same crew members that erected the panels.
- **Non-weldable connection:** only a torque wrench is required for installation.
- **Adjustable connection:** Counteracts construction problems caused by foundation elevation issues or panel placement inconsistencies.
- **Simplified connection:** Channel connections are easily adjustable and can be made in any weather condition.
- **Reduced overall construction times:** By eliminating traditional weld plates and field welding.



US PATENT 10,577,789

Occasionally, loading on the building envelope requires adjacent wall panels to be connected. Traditionally, this is accomplished through expensive and time-consuming welding operations.

The Halfen Inline Panel-to-Panel Connection Kit delivers an adjustable, non-weldable connection and is available in a standard profile for minimum wall panel thicknesses of 6".



## MB Burke Slot

The MX-55 Burke Slot insert is a high-strength slotted insert used with threaded straps to connect tiltup panels.

- Available in 6 1/2" lengths in plain or hot dip galvanize finish.
- Can be supplied with 3/4" NC threaded or 3/4" coil nut
- Sealed to prevent concrete from leaking into the insert. Removal of the perforated seal exposes the slot for quick connection of the strap.



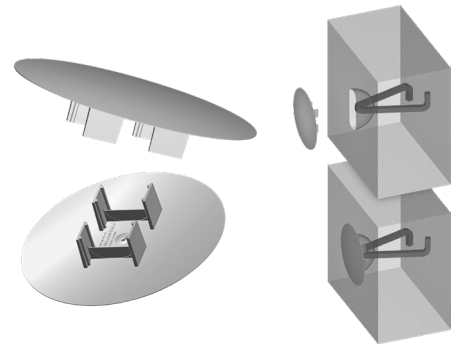
# Accessories

## MB Super Lift III Patches

The patented MB Super Lift III Patches provide a quick, cost-effective cover for lifting anchor recesses.

- Precision molded of durable, high-impact plastic the color and texture of concrete.
- Resists assault from manufacturing and environmental chemicals.

PATENT US7441375B2



## MB B-75 Patches

The MB Super Patch is the modern method to permanently and aesthetically cover brace insert holes on tilt-up panels.



## MB Stud Extenders

The MB Stud Extender is designed as an adjustable height support chair for embed/weld plates, eliminating the tedious, labor-intensive wood forming or risky "wet setting" of embed plates in the top-face of a concrete panel.



## MB RL 76/77 Ridged Super Shims

Designed to quickly and safely adjust for an uneven footing or panels, these shims provide excellent stability and will not rust or stain the concrete.

- Manufactured by Leviat in the USA with extremely tough, high-impact polystyrene
- Ultimate compressive strength of 8,000 psi per ASTM-D695



### MB Tuff Chair

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

- Non-corrosive plastic produced in concrete gray coloring to camouflage its appearance

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 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".



### MB X Tuff Slab Bolster

Manufactured using advanced PC/ABS plastic for best-in-class strength and durability, providing exceptional performance even in extreme temperatures and corrosive environments.

- Engineered, high performance solution
- Developed to meet ACI 318-14 16.2.4.3 (b) performance requirements





**Leviat®**

Innovative engineered products  
and construction solutions that  
allow the industry to build safer,  
stronger and faster.





# North American Locations

## California

3611 E La Palma Ave  
Anaheim CA 92806

## Iowa

1000 Technology Drive  
Boone IA 50036

## Texas

7000 Will Rogers Blvd  
Fort Worth TX 76140

**Florida** Corporate  
6467 S Falkenburg Road  
Riverview FL 33578

**Oregon**  
155 SE Hazel Dell Way  
Canby OR 97013

**Texas**  
6500 N Interstate 35  
San Antonio TX 78218

**Georgia**  
3080 N Lanier Parkway  
Decatur GA 30034

**Pennsylvania**  
565 Oak Ridge Road  
Hazle Township PA 18202

# Contact Information

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## Engineering Support

(813) 212-5866

## Email

info@leviat.us

## Web

www.leviat.com



Leviat tilt-up solutions

Contact [projectengineering@leviat.us](mailto:projectengineering@leviat.us)  
try the Leviat advantage on your next  
tilt-up project

<https://meadowburke.com/tilt-up-request/>

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