PROFESSIONAL TRENCH DRAIN SOLUTIONS

MEA-JOSAM Pro-Plus
With and Without Slope
Pro-Plus Channel w/ Slope
U.S. Patent No. 7,736,092

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
In 1995 Josam partnered with MEA to promote and sell their extensive line of polymer concrete and non-polymer concrete trench drain systems in the United States under the name MEA-JOSAM. This product line added to Josam's cast iron and stainless steel trench drain offerings.

MEA-JOSAM trench drains are available in various widths and depths and offer a wide range of grates which enables MEA-JOSAM to provide a solution to your application needs. Dedicated and knowledgeable customer service personnel are available to assist you in selecting the right engineered trench drain system for your project.

MEA-JOSAM is pleased to introduce you to the next generation of trench drains—manufactured from sheet molding compound (SMC) glass fiber reinforced polyester (GRP), a material that is superior in all respects to existing materials that are offered in the trench drain market today.

Josam on the web—www.josam.com

- Library of technical drawings
- Locate local representative
- Get a quote
- Request a brochure
- Compare Products
- View additional product lines
- List Price Items
- Product Listings
- Layout Drawings

Mea-Josam offers a free-of-charge technical design service providing hydraulic calculations, CAD drawings, quantity schedules and product specifications.
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Refer to MEA-JOSAM Pro-Plus Price Sheet or www.Josam.com for Terms and Conditions

⚠️ **WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
WHAT MAKES A NEW GENERATION TRENCH DRAIN?

MATERIAL MATERIAL MATERIAL

Strong, shock and impact resistant, dimensionally stable

MEA-JOSAM’s Pro-Plus range of new generation trench drains utilizes the benefits of space-age material. Pro-Plus is manufactured using glass-fiber reinforced polyester (GRP) pressed from sheet molding compound (SMC), which is a composite of polyester resin, mineral fillers and glass-fiber mats.

SMC is a tried and tested GRP material and is a compelling choice because of its extremely high strength and dimensional stability. For example, SMC/GRP is more than 1.5 times stronger than polymer concrete. In addition, SMC/GRP’s thermal expansion on average is 40% less than that of polymer concrete. These SMC/GRP material characteristics result in extreme rigidity and only minimal longitudinal expansion, even for wide temperature fluctuations. In contrast to thermoplastic polymers, SMC/GRP cannot be reshaped and remains dimensionally stable once heated compression hardens the material into the final product.

Extraordinarily robust and yet surprisingly light these diverse properties highlight the advantages of SMC/GRP over other trench drain materials. The material has revolutionized many industrial products and has become indispensable in today's world. Its applications are wide and varied: rotor blades for helicopters, bodywork for automobiles, yachts and aircraft. In fact, glass-fiber reinforced polyester made from SMC is used wherever extreme conditions prevail and special degrees of durability and rigidity are called for, precisely as in MEA-JOSAM’s Pro-Plus drainage solutions.

This product is lighter, stronger and expands and contracts in extreme temperature ranges less than polymer concrete. In addition, SMC/GRP has greater compressive, flexural and tensile strength and less thermal expansion properties than either polypropylene or high density polyethylene. SMC/GRP is an innovative material and is clearly superior to all other trench channel materials.

Key advantages of the innovative material SMC/GRP:

• Shatterproof and extremely resistant to abrasion
• Frost, heat and rust-resistant
• Lightweight
• Non-porous structure with a smooth surface
• Resistant to chemicals
• Resistant to oil, gasoline, hot asphalt and tartaric acid
• Non-flammable
• Free of halogens, asbestos and toxic heavy metals
• Capable of being formed into complex shapes
• An excellent cost / performance material
• Recyclable
IN-HOUSE CONTROL OF THE PROCESS ENSURES THE QUALITY

Understanding the advantages of this great material is one thing. Being able to produce it is something else.

1. MANUFACTURE OF SMC PASTE

- Mineral Fillers
- Unsaturated Polyester Resin
- Additives
- Mixer

2. IMPREGNATION OF THE FIBERGLASS

- First layer of paste
- The cut fibers fall on the first layer of paste.
- Second layer of paste helps to impregnate the fiberglass.

3. POLYMERIZATION PROCESS

Three to five days are required for SMC to mature before the final stage of manufacturing can take place. Sections of the matured SMC are then placed in the press and high temperature and pressure cause the SMC to flow to the shape of the mold, completing the polymerization process and producing the final GRP product.

Quality maintained in our SMC Laboratory

From testing of the raw materials to inspection of the finished product, quality is an integral part of the manufacturing process.
Solid End Cap

**Inline Silt Box** with 1/2 meter channel and plastic sediment bucket factory installed. (100 and 200 series only)

Channel Joint Rebate Insert

The optimized **Channel** shape ensures improved discharge rates even for low water levels and an enhanced self-cleaning effect.

Side Inlet/Outlet Assembly

For ease of installation, the **Bracket** connects the channels together and provides locating holes and securing screws for the re-bar supports.

**Dome Strainer** for bottom outlet

Refer to page 13 for part numbers when ordering.
MEA-JOSAM FEATURES, BENEFITS AND OPTIONS

The innovative STARFIX Grate Securing System simplifies installation and maintenance.

MEA-JOSAM Pro-Plus: Channel manufactured entirely in a specially developed SMC/GRP for a broad range of drainage solutions

Large fins molded into the entire exterior of the channel ensure permanent anchorage in concrete.

Grate Brace is supplied standard with grate

Catch Basin Braces support grate system and are supplied standard with frame

Ductile Iron Top Frame

Bottom Outlet Connector

End Outlet/Inlet

Bracket Support for Catch Basin

20 x 24” Catch Basin

Corner & T Channel Connector

Load Classes

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<th>Load Capacity</th>
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<td>B 125</td>
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<td>C 250</td>
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<td>E 600</td>
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<td>F 900</td>
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• Pedestrians
• Bicycles
• Parks
• Footpaths
• Driveways
• Parking Garages
• Roadside
• Warehouses
• Pneumatic tire forklifts
• Tractor trailers
• Public roads
• Highways
• Parking lots
• Industrial areas
• Hard wheel forklifts
• Heavy commercial vehicles
• Airports
• Freight/Cargo Terminals
• Heavy Industrial Vehicles

*Not across the road

Refer to page 13 for part numbers when ordering.
THE MEA-JOSAM PRO-PLUS CHANNEL SYSTEM

MEA-JOSAM Pro-Plus

• Channel body and edge entirely in SMC/GRP
• Available in nominal interior widths of 4", 8" and 12"
• Available in meter (39.4") and half meter (19.7") length
• Steel, ductile iron and non-metallic grate options
• Applications: sidewalks, swimming pools, shopping areas, parking lots, loading docks, commercial kitchens, airport hangars
The patent-pending STARFIX system constitutes another innovation for securing grates. The whole process has never been as fast or as simple. All of the different grate types can be secured and removed quickly and easily with a single hand movement, without the use of bolts or special tools. Press-in! Click! Complete!

The sturdy 4-point locking system prevents loose or rattling grates and offers rugged protection against longitudinal displacement. What’s more, the channel cross-section remains completely unobstructed so that discharge rates remain unaffected.

STARFIX is also aesthetically pleasing to satisfy architectural designs. The STARFIX closure device fitting flush with the channel upper surface results in an attractive drainage solution.

**STARFIX** – The innovative grate securing system without bolts

- Innovative 4-point locking inside the channel body for a solid and secure fit, without any loose or rattling parts
- Protection against longitudinal displacement of grate covers
- Long service life—has no moving parts or parts subject to wear
- No reduction of the discharge cross section, as the complete channel cross section remains unobstructed
- Simple and fast insertion and removal of grates with a single hand movement—without the need for special tools
- Particularly smooth and quiet, thanks to the sound-absorbing securing system
The grate is the point of contact between the channel and the road. It goes without saying then that precision and adaptability are essential here.

The various design and material alternatives—slotted and mesh grates in galvanized steel and stainless steel, non-slip swimming pool grates in HDPE as well as slotted grates in ductile iron make the MEA-JOSAM Pro-Plus channel system superbly suited for every possible need and application. Available in nominal interior channel widths of 4", 8" or 12", you will always get the best possible combination.

**Grate Options**

1. **Mesh Grates**: The traditional channel grate comprising a hot-dip galvanized or stainless steel pressed grate. (ADA Compliant) For Load Classes A-D.

2. **Ductile Iron Slotted Grates**: Especially suitable for extremely high loads and high traffic surfaces. For Load Classes A-E.

3. **Slotted Grates in Galvanized Steel**: The traditional bar and slot design is a visual alternative to mesh grates. It is particularly strong and durable. For Load Classes A-C.

4. **Perforated Grates in HDPE**: Non-metallic for light-duty applications such as swimming pools and pedestrian areas. Available in beige and gray. For Load Class A.

5. **Reinforced nylon slotted grate with 1/4” wide slots**: Non-metallic for heavy-duty applications such as food processing and public areas exposed to salt water. For Load Class A-C.

See Page 12 for Channel Part Numbers
### 100 SERIES

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<tr>
<th>LOAD RATING</th>
<th>PRODUCT DESCRIPTION</th>
<th>PART NO.</th>
<th>DIM. (IN.)</th>
<th>SLOT WIDTH (IN.)*</th>
<th>LBS/UNIT</th>
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*For ADA, slot width must be max 0.50" (must consider slot orientation). For heel proof slot width must be max 0.31.
### MEA-JOSAM PRO-PLUS 100 LOCKING BAR GRATES

#### 100 SERIES

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<td>0.40</td>
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<td>Reinforced Galvanized Steel Slotted Grate</td>
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<td>Reinforced Galvanized Steel Perforated Grate</td>
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<td>Solid Cast Iron Cover</td>
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<td>Slotted Ductile Iron Grate</td>
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<td>Class F</td>
<td>Slotted Ductile Iron Bolted Grate**</td>
<td>153094A</td>
<td>4.8 x 19.7</td>
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<td>153096</td>
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*For ADA, slot width must be max. 0.50" (must consider slot orientation). For heel proof, slot width must be max. 0.31

**Use With DI100 Rail
### 200 SERIES

<table>
<thead>
<tr>
<th>LOAD RATING</th>
<th>PRODUCT DESCRIPTION</th>
<th>PART NO.</th>
<th>DIM. (IN.)</th>
<th>LBS/UNIT</th>
<th>SLOT WIDTH (IN.)*</th>
<th>LOCKING DEVICE PART NO.</th>
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<tbody>
<tr>
<td>Class A</td>
<td>Vinylester Fiberglass Bar Grate</td>
<td>152040</td>
<td>8.8 x 39.4</td>
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<td>3,500 lbs. - 70 PSI</td>
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<td>8.8 x 19.7</td>
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<td>Class C</td>
<td>Ductile Iron Slotted Pro-Fix Grate**</td>
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<td>56,000 lbs. - 1,162 PSI</td>
<td>Ductile Iron Solid Pro-Fix Cover**</td>
<td>153567A</td>
<td>8.8 x 19.7</td>
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<td>Stainless Steel Heel Proof Grate</td>
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<td>Class E</td>
<td>Ductile Iron Pro-Fix Wave Grate**</td>
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<td>8.8 x 19.7</td>
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<td>135,000 lbs. - 2,788 PSI</td>
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<td>200,000 lbs. - 4,182 PSI</td>
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**Use With DI200 Rail

### 300 SERIES

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<th>LBS/UNIT</th>
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<th>LOCKING DEVICE PART NO.</th>
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***Use with DI300 Rail

*For ADA, slot width must be max 0.50" (must consider slot orientation). For heel proof slot width must be max 0.31.

### MEA-JOSAM PRO-PLUS DUCTILE IRON RAILS

MEA-JOSAM Pro-Fix, 4-point bolt and center bar locking grates

STARFIX Locking System

Note: STARFIX grates are not compatible with DI rails

![渠道高度图](image_url)
**MEA-JOSAM PRO-PLUS CHANNELS**

### MEA-JOSAM Pro-Plus 100 Channel

<table>
<thead>
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<td>Neutral Channel</td>
<td>6.2</td>
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<td>100C01</td>
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<td>100C02</td>
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<td>100C03</td>
<td>Sloped Channel</td>
<td>7.9</td>
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<td>100C04</td>
<td>Sloped Channel</td>
<td>8.1</td>
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<td>100C05</td>
<td>Sloped Channel</td>
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<tr>
<td>100C05N</td>
<td>Neutral Channel</td>
<td>8.5</td>
</tr>
<tr>
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### MEA-JOSAM Pro-Plus 200 Channel

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### MEA-JOSAM Pro-Plus 300 Channel

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1/2 meter sections available upon request for series 100, 200 and 300
### SUFFIX DESCRIPTIONS

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<td>-BOS</td>
<td>Bottom Outlet Strainer</td>
</tr>
<tr>
<td>-BS</td>
<td>Bracket Support</td>
</tr>
<tr>
<td>-BSC</td>
<td>Bracket Support For Center Outlet*</td>
</tr>
<tr>
<td>-BSCB</td>
<td>Bracket Support For Catch Basin Connection</td>
</tr>
<tr>
<td>-BSW</td>
<td>Bracket Support With Wedge For End Outlet, Cut Channel*</td>
</tr>
<tr>
<td>-CB</td>
<td>Catch Basin</td>
</tr>
<tr>
<td>-CB-OE</td>
<td>Outlet Connector For Catch Basin</td>
</tr>
<tr>
<td>-C-SB</td>
<td>Inline Silt Box With 1/2 Meter Channel*</td>
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<tr>
<td>-CT</td>
<td>Bracket For Side Connection (Corner, Tee or Outlet)</td>
</tr>
<tr>
<td>-DBS</td>
<td>Dome Bottom Strainer</td>
</tr>
<tr>
<td>-DI</td>
<td>Ductile Iron Top Frame</td>
</tr>
<tr>
<td>-EC</td>
<td>Solid End Cap</td>
</tr>
<tr>
<td>-EE-SS</td>
<td>Solid End Cap With Stainless Steel Protected Edge</td>
</tr>
<tr>
<td>-OB</td>
<td>Bottom Outlet Connector***</td>
</tr>
<tr>
<td>-OE</td>
<td>End Outlet Connector***</td>
</tr>
<tr>
<td>-OE-SS</td>
<td>End Outlet Connector With Stainless Steel Protected Edge</td>
</tr>
<tr>
<td>-RI</td>
<td>Channel Joint Rebate Insert</td>
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<tr>
<td>-SIO</td>
<td>Side Inlet/Outlet Assembly</td>
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*Check with Mea-Josam for availability on 300 series

See pages 4 and 5 for further option descriptions and illustrations