### Roof Drains

#### DRAIN RECEIVER DIMENSIONS

<table>
<thead>
<tr>
<th>SERIES NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>21500</td>
<td>24</td>
<td>15-1/2</td>
<td>14-9/16</td>
<td>21/64</td>
</tr>
<tr>
<td>22010</td>
<td>20</td>
<td>12-1/4</td>
<td>11-1/2</td>
<td>21/64</td>
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<tr>
<td>22080</td>
<td>16</td>
<td>9-1/2</td>
<td>7-1/2</td>
<td>47/64</td>
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</table>

#### APPLICABLE DRAIN RECEIVER OUTLET SIZE

<table>
<thead>
<tr>
<th>DRAIN SERIES</th>
<th>2” - 4”</th>
<th>5”</th>
<th>6”</th>
<th>8”</th>
<th>10”</th>
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<tbody>
<tr>
<td>21500</td>
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<td>21500</td>
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<tr>
<td>22010</td>
<td>22010</td>
<td>22010-CR</td>
<td>22010</td>
<td>22010-CR</td>
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<td>22080</td>
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<tr>
<td>25500</td>
<td>25500</td>
<td>25500-CR</td>
<td>25500</td>
<td>25500-CR</td>
<td>25500-CR</td>
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<td>28600-CR</td>
<td>28600</td>
<td>28600-CR</td>
<td>28600-CR</td>
</tr>
</tbody>
</table>

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

**(-2) OPTION, DRAIN RECEIVER**
The drain receiver is recommended for use in all roof drain installations regardless of deck construction and is of particular importance when used in conjunction with drains installed in decks where support is on insulation. The drain receiver is produced in heavy gauge steel, coated for protection, and embodies a recessed flange to carry the drain, and a wide flange to support the assembly on the roof. The drain receiver distributes the weight of the roof drain evenly over the deck and compensates for irregular and misaligned deck openings.

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

(-10) OPTION, FIXED EXTENSION COLLAR USED WITH LEVELEZE® DRAINS

For roof or deck construction where base slab to surface height is greater than can be accommodated with the standard LEVELEZE® collar, the (-10) Fixed Extension Collar “A” is used along with the (-AE) LEVELEZE® assembly. These collars can be used in multiples where extension requirements dictate. The Fixed Extension Collar can be cast in increments of 1, 2, 3 and 4 inches. Shorter or longer dimensions are available by cutting or stacking extensions.

(-3C) OPTION, DRAIN RECEIVER & DRAIN RECEIVER CLIPS

Includes (-2) Optional Drain Receiver and clips, to secure the roof drain body directly to the receiver. Simply position the drain outlet face up, position drain receiver over the drain body and attach the four receiver clips with the hardware provided. Invert body and install the assembly into the deck opening. If necessary, secure assembly to the metal deck with self-tapping screws (by others).
Roof Drains

(-VP) OPTION, VANDAL-PROOF SECURED DOME
Where vandalism or mischievous activity is anticipated, it is advisable to specify vandal-proof domes on roof drains. All JOSAM precision-molded plastic large domes incorporate bayonet locking devices as standard equipment; however, when specified vandal-proof, they are further secured with screws to insure permanence of assembly. Other types of domes can also be vandal-proofed when specified.

(-66) NO-HUB SIDE OUTLET
This option converts JOSAM bottom outlet inside caulk drains to no-hub side outlet drains using a 90° no-hub quarter bend and a JIFFEE-JOINT Gasket.

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2-1/2</td>
<td>4-1/2</td>
<td>3-5/8</td>
</tr>
<tr>
<td>3</td>
<td>2-13/16</td>
<td>5</td>
<td>4-1/2</td>
</tr>
<tr>
<td>4</td>
<td>3-1/2</td>
<td>5-1/2</td>
<td>5-11/16</td>
</tr>
<tr>
<td>5</td>
<td>4-5/16</td>
<td>6-1/2</td>
<td>6-15/16</td>
</tr>
<tr>
<td>6</td>
<td>4-13/16</td>
<td>7</td>
<td>7-15/16</td>
</tr>
</tbody>
</table>

⚠️ WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov

STANDARD ADJUSTABLE LEVELEZE ASSEMBLY (-AE)

INSTALLATION INSTRUCTIONS
1. Place flat gasket with holes aligned on drain body.
2. Secure support ring on top of gasket with 3/8" washer head bolts.
3. Attach Wejloc clamp ring to adjustable collar with 3/8" studs, secure clamp ring down with 3/8" nuts and washers.

USING #21500 SEAL KIT 3 SEALING INSTRUCTIONS
1. Surfaces must be clean and dry.
2. Completely fill the sealant well between adjustable extension and the support ring to form waterproof seal.
3. Sealant soaks in 5 minutes, dries to touch in 1 hour, cures & bonds in 24 hours.

FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN LEAKAGE.

ADJUSTABLE LEVELEZE ASSEMBLY WITH OPTIONAL (-4) SECONDARY CLAMP RING

When (-4) secondary clamp ring is used with a (-10) fixed extension, the (-10) fixed extension must be located above the (-AE) adj. extension.

If desired with (-4) option only add weepholes.
GYPSUM ROOF DECK SYSTEM

21500-AE Series

TYPICAL INSULATED ROOF MEMBRANE SYSTEM

21500-IRMA Series

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

PRECAST CONCRETE DECK

CONCRETE GYPSUM OR PRECAST DECK

DRAIN RECEIVER (OPTIONAL-2)

WOOD JOIST ROOF SYSTEM

INSULATION

FLASHING

DECK

JOIST

WOOD JOIST

STRUCTURAL STEEL JOIST ROOF SYSTEM

DRAIN RECEIVER (OPTIONAL-2)

JIFFEE JOINT (OPTIONAL) SERIES 19800

CONCRETE

JOIST

CAULK OUTLET

22010 Series

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
STEEL-SUPPORTED BUILT-UP ROOF DECK SYSTEM

23500-AE Series Promenade Roof Drain

TYPICAL INSULATED ROOF MEMBRANE SYSTEM

23500-IRMA Series

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
CONCRETE DECK WITH ASPHALT PARKING SURFACE

23510 Series Promenade Roof Drain

STEEL DECK CONCRETE SYSTEM
WITH COMPOSITION MEMBRANE SURFACE

24020 Series SUPER-FLO® Composition Deck Drain
24700 Parapet Overflow Drain

26700 Series Vandal-Proof Vent Cap
Josam introduced the first non-puncturing clamping device for roof drains in the 1920's. By casting lugs into the body and flat tabs onto the clamp ring, the membrane could be clamped between the drain body and clamp ring using the 410 Clamp Posts. The original design can be identified in the field by the use of these clamp posts to secure the body to the clamp ring. The 410 and 4110 Series replacement parts below are for use with these original drains. Please use these drawings to check dimensions carefully as replacement parts are not returnable.

### 410 Clamp Post Pack

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>010245</td>
<td>Clamp Post Pack (Four to a Pack)</td>
</tr>
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</table>

### 4110 C.I. Dome

Use with 410 Clamp Ring

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td>4114 O.S.</td>
<td>029240</td>
<td>12-1/4</td>
<td>5-3/8</td>
</tr>
<tr>
<td>4116</td>
<td>029350</td>
<td>14-1/6</td>
<td>5-3/8</td>
</tr>
<tr>
<td>4118</td>
<td>029420T</td>
<td>16-3/8</td>
<td>6-13/32</td>
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</tbody>
</table>

### 21500 Dome

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>029273</td>
<td>Polypropylene Dome</td>
</tr>
<tr>
<td>029279F</td>
<td>Cast Iron Dome</td>
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<tr>
<td>029275T</td>
<td>Aluminum Dome</td>
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### 410 C.I. Dome

Use with 410 Clamp Ring

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>010320T</td>
<td>Aluminum Dome</td>
</tr>
</tbody>
</table>

### 21500 C.I. Clamp Ring

Use with 410/4110 Domes

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
<th>A</th>
<th>C</th>
<th>D</th>
<th>Use with Domes</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>414</td>
<td>010350</td>
<td>13-3/4</td>
<td>1-7/16</td>
<td>10-7/8</td>
<td>414 N.S., 4114 O.S.</td>
<td>029269F</td>
<td>21504 Cast Iron Clamp Ring</td>
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<tr>
<td>415</td>
<td>010520</td>
<td>15-1/4</td>
<td>1-9/16</td>
<td>11-11/16</td>
<td>4116 O.S.</td>
<td>029691T</td>
<td>21500 Clamp Ring Hardware Pack</td>
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<tr>
<td>416</td>
<td>010660</td>
<td>15-3/4</td>
<td>1-1/2</td>
<td>12-3/4</td>
<td>4116 O.S.</td>
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<td>010800T</td>
<td>17-3/16</td>
<td>1-3/8</td>
<td>14-11/16</td>
<td>4118</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Roof Drains

**SPECIFICATION:**

JOSAM 21500-AE SERIES COATED CAST IRON LEVELEZE® ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJLOC® NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, BOLTED SUPPORT RING, ADJUSTABLE TOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**

W/ LEVELEZE® ADJUSTABLE EXTENSION

SERIES 21500-AE

FORMERLY 21000 SERIES

**DECK CLAMP**

-1

**DIMENSIONS ARE SUBJECT TO MANUFACTURERS' TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSeded OR VOID DATA.**

DATE OF LAST CHANGE: 5/04/15

DATE OF LAST CHANGE: 5/04/15

**NOTES**

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

**Roof Drains**

### Specification: Josam 21500-IRMA Series Coated Cast Iron Roof Drain, Large Polypropylene Locking Dome, Dome Support Ring, Perforated Stainless Steel Extension Filter, Weiloc® Non-Puncturing Clamp Ring with Integral Gravel Stop, Large Sump with Wide Roof Flange and Bottom Outlet.

**Roof Drain**

**Series: 21500-IRMA**

**Large Sump, Stainless Gravel Guard**

- **Pipe Size**
  - 2" Pipe Size
  - 3" Pipe Size
  - 4" Pipe Size
  - 5" Pipe Size
  - 6" Pipe Size
  - 8" Pipe Size
  - 10" Pipe Size
  - 12" Pipe Size
  - 16" Pipe Size
  - 20" Pipe Size

- **Dome Free Area**
  - 124 SQ. IN.

- **Pipe Size**
  - 2" - 3" Deak Clamp Assy. and Drain Receiver
  - 3C - Drain Receiver and Drain Receiver Clips
  - 4" - Extra Wide Flange Drain Body (-X Outlet Only)
  - -1D - Fixed Ext. Collar, Cast Iron (Specify Height **)
  - -10-20 - Fixed Ext. Collar, Galvanized (Specify Height **)
  - -16 - Internal Waterguard (2" Thru 6" Outlets Only)
  - -17 - 2" High Solid Clamping Collar
  - -19 - Clamp Collar W/Perf. Stainless Gravel Guard
  - -X - Inside Caulk Outlet
  - -Y - Hub Outlet W/Gasket (2", 3" & 4" Sizes Only)
  - -Z - No-Hub Spigot Outlet
  - -T - Threaded Outlet
  - -AE - Threaded Levelize Adj. Ext.
  - -AER - Adjustable Ext. Using Threaded Rods
  - -IRMA - Perforated Stainless Steel Ext.
  - -CR - Clamping Drain Receiver (Min. Deck Opening 16")
  - -I - Deck Clamp Assy
  - -IC - Drain Receiver Clips (Min. Deck Opening 16")
  - -2 - Drain Receiver

- **Date of Last Change:** 5/04/15

---

**Notes:**

- Use of superseded or void data.
- This dimension is 5 3/4" on 8" threaded outlet.

---

**Dimensional Specifications:**

**Series: 21500-19**

**Large Sump, Stainless Gravel Guard**

- **Pipe Size**
  - 2" Pipe Size
  - 3" Pipe Size
  - 4" Pipe Size
  - 5" Pipe Size
  - 6" Pipe Size
  - 8" Pipe Size
  - 10" Pipe Size
  - 12" Pipe Size
  - 16" Pipe Size

- **Dome Free Area**
  - 124 SQ. IN.

- **Pipe Size**
  - 2" - 3" Deck Clamp Assy. and Drain Receiver
  - 3C - Drain Receiver and Drain Receiver Clips
  - 4" - Extra Wide Flange Drain Body (-X Outlet Only)
  - -10 - Fixed Ext. Collar, Cast Iron (Specify Height **)
  - -10-20 - Fixed Ext. Collar, Galvanized (Specify Height **)
  - -16 - Internal Waterguard (2" Thru 6" Outlets Only)
  - -17 - 2" High Solid Clamping Collar
  - -19 - Clamp Collar W/Perf. Stainless Gravel Guard
  - -X - Inside Caulk Outlet
  - -Y - Hub Outlet W/Gasket (2", 3" & 4" Sizes Only)
  - -Z - No-Hub Spigot Outlet
  - -T - Threaded Outlet
  - -AE - Threaded Levelize Adj. Ext.
  - -AER - Adjustable Ext. Using Threaded Rods
  - -IRMA - Perforated Stainless Steel Ext.
  - -CR - Clamping Drain Receiver (Min. Deck Opening 16")
  - -I - Deck Clamp Assy
  - -IC - Drain Receiver Clips (Min. Deck Opening 16")
  - -2 - Drain Receiver

- **Date of Last Change:** 5/04/15

---

**Notes:**

- Use of superseded or void data.
- This dimension is 5 3/4" on 8" threaded outlet.
**SPECIFICATION:**

JOSAM 21500-IRMA-6 SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE CROWN DOME. DOME SUPPORTED RING, PERFORATED STAINLESS STEEL EXTENSION FILTER. WEJLOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH EXTRA-WIDE ROOF FLANGE AND BOTTOM OUTLET INSIDE CAULK CONNECTION.

**ROOF DRAIN**

**WITH PERF. STAINLESS EXTENSION**

**SERIES** 21500-IRMA-6

**PIPE SIZE**

- 13 1/4” MIN. DECK OPENING
- Ø18"

**FREE AREA**

- 124 SQ. IN.

**DECK CLAMP**

- 1” MIN. 4 3/4” MAX.

**DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CAN BE CHANGED WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

---

**SPECIFICATION:**

JOSAM 2210 SERIES COATED CAST IRON ROOF DRAIN, MEDIUM BEEHIVE DOME, NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, MEDIUM SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**

**MEDIUM SUMP, BEEHIVE DOME**

**SERIES** 2210

**PIPE SIZE**

- Ø10 1/2” MIN. DECK OPENING
- Ø13 1/4”

**DOMES**

- MEDIUM BEEHIVE DOME

**FLASHING CLAMP DEVICE AND GRAVEL STOP**

**STAINLESS STEEL PERFORATED EXTENSION FREE AREA 50% OPEN**

**NOTES**

DATE OF LAST CHANGE: 5/15/15

DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CAN BE CHANGED WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

---

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

SPECIFICATION:
Josam 22010-17 Series Coated Cast Iron Roof Drain, Medium Beehive Dome, Non-Puncturing Clamp Ring with Integral Gravel Stop, Medium Sump with Roof Flange and Bottom Outlet.

SERIES 22010-17

Roof Drain
Medium Sump, Beehive Dome

NOTES

DATE OF LAST CHANGE: 5/04/15

Josam Company
Michigan City, Indiana

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
**SPECIFICATION:**
JOSAM 22080 SERIES COATED CAST IRON ROOF DRAIN, BEEHIVE DOME, WEJLOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, SMALL SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**
SMALL SUMP, HIGH DOME

**SERIES** 22080

**DOME FREE AREA:** 37.6 SQ. IN.

**PIPE SIZE**
- **2"**
- **3"**
- **4"**

**-10 EXTENSION 1" STANDARD**
- Fixed Ext. Collar, Galvanized (Specify Height **)
- 2" High Solid Clamping Collar
- 21 Galvanized Cast-Iron Parts
- 23 Rough Bronze Dome
- No-Hub Spigot Outlet
- TSO* Threaded Side Outlet
- Thru Pipe (VP) Vandal-Proof Dome
- Deck Clamp Assembly
- Drain Receiver Clips (Min. Deck Opening @ 16.5")
- Drain Receiver and Drain Receiver Clips
- Fixed Ext. Collar, Cast Iron (Specify Height **)

**NOTES**

**DATE OF LAST CHANGE:** 04/28/15

---

**SPECIFICATION:**
JOSAM 22080-17 SERIES COATED CAST IRON ROOF DRAIN, BEEHIVE DOME, WEJLOC 2" HIGH NON-PUNCTURING CLAMP COLLAR, SMALL SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**
SMALL SUMP, HIGH DOME, 2" CLAMP COLLAR

**SERIES** 22080-17

**DOME FREE AREA:** 37.6 SQ. IN.

**PIPE SIZE**
- **2"**
- **3"**
- **4"**

**-10 EXTENSION 1" STANDARD**
- Fixed Ext. Collar, Galvanized (Specify Height **)
- 2" High Solid Clamping Collar
- 21 Galvanized Cast-Iron Parts
- 23 Rough Bronze Dome
- No-Hub Spigot Outlet
- TSO* Threaded Side Outlet
- Thru Pipe (VP) Vandal-Proof Dome
- Deck Clamp Assembly
- Drain Receiver Clips (Min. Deck Opening @ 16.5")
- Drain Receiver and Drain Receiver Clips
- Fixed Ext. Collar, Cast Iron (Specify Height **)

**NOTES**

**DATE OF LAST CHANGE:** 08/27/14

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**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

**Roof Drains**

### Specification:
Josam Series 22080-Q5 Combination Roof Drain and Overflow. Consists of small sump roof drain with cast iron beehive dome, small sump overflow drain with cast iron beehive dome, solid water dam and one piece galvanized steel drain receiver.

**Series 22080-Q5**

- **Primary & Overflow Combination**
- **Dome Free Area:** 37.6 sq. in. (typ.)
- **Clamp Ring & Solid Water Dam:**
- **Pipe Size:**
  - 2" PVC Small Sump Body
  - 3" PVC Small Sump Body
  - 4" PVC Small Sump Body

---

### Specification:
Josam 22100 Series Coated Cast Iron Combination Roof Drain and Overflow Drain with Cast Iron Domes, Wejloc® Non-Puncturing Clamp Rings with Integral Gravel Stops, Integral Cast Iron Standpipe in Cast Iron Deck Flange and Dual No-Hub Bottom Outlets.

**Series 22100**

- **Combination Drain/Overflow**
- **Dome Free Area:** 31 sq. in. (typ.)
- **Wejloc Clamp Ring & Gravel Stop:**
- **Pipe Size:**
  - 2" - Galvanized Cast Iron Parts
  - 3" - Rough Bronze Dome
  - 4" - Stainless Mesh Screen Covered Dome
  - 5-7/32" - Perforated Stainless Steel Extension
  - 8 TYP. - Secured Dome
  - 9" TYP. - Secured Dome
  - 5-1/2" TYP.
  - 4-1/8" TYP.
  - 20-1/4" TYP.
  - 18-3/4" x 9-7/8 MINIMUM DECK OPENING

---

**Notes**

*Date of Last Change: 11/11/2014*

*Josam Company, Michigan City, Indiana*

*Dimensions are subject to manufacturers' tolerances and change without notice. We cannot assume responsibility for use of superseded or void data.*
Roof Drains

**SPECIFICATION:**

JOSAM 23500 SERIES COATED CAST IRON ROOF DRAIN, SQUARE PEDESTRIAN GRATE SET IN SQUARE FRAME, WEJLOC® NON-PUNCTURING FLASHING COLLAR WITH WEEPHOLES FOR 2” ROOF FILL, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN LARGE SUMP**

**SERIES 23500**

**DIMENSIONS ARE SUBJECT TO MANUFACTURER’S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

**NOTE:**

- Use of superseeded or void data.

**DATE OF LAST CHANGE:** 5/04/15

**JOSEAM COMPANY**

**MICHIGAN CITY, INDIANA**

**NOTES**

- Separate submittal for this option available

**-10 EXTENSION 4” STANDARD**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>2”</th>
<th>3”</th>
<th>4”</th>
<th>5”</th>
<th>6”</th>
<th>8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIPE SIZE</td>
<td>DRAIN RECEIVER CLIPS (MIN. DECK OPENING Ø 18”)</td>
<td>DRAIN RECEIVER</td>
<td>DECK CLAMP ADJ. AND DRAIN RECEIVER</td>
<td>DRAIN RECEIVER AND DRAIN RECEIVER CLIPS</td>
<td>SECONDARY FLASHING CLAMP (¬ -AE ONLY)</td>
<td>EXTRA-DEEP SUMP</td>
</tr>
<tr>
<td>INSIDE CAULK OUTLET</td>
<td>EXTRA-WIDE FLANGE DRAIN BODY (¬ -X OUTLET ONLY)</td>
<td>FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT)</td>
<td>FIXED EXT. COLLAR, GALVANIZED (SPECIFY HEIGHT)</td>
<td>GALVANIZED CAST IRON PARTS</td>
<td>HUB OUTLET W/GASKET (2”, 3”, &amp; 4” SIZES ONLY)</td>
<td>DUCTILE IRON GRATE</td>
</tr>
<tr>
<td>NO-HUB SPIGOT OUTLET</td>
<td>HYD-DUTY DUCTILE UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>HYD-DUTY DUCTILE UNDERGRATE LAMINATED TOP, BRONZE</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
</tr>
<tr>
<td>AE</td>
<td>THREADED LEVELEZE® ADJ. EXT.</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>PERFORATED STAINLESS STEEL EXTENSION</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, BRONZE</td>
<td>PARKING GRATE - 110 SQ. IN. F.A. (DUCTILE-IRON ONLY)</td>
<td>DECK CLAMP ASSEMBLY</td>
</tr>
<tr>
<td>CR</td>
<td>CLAMPING DRAIN RECEIVER (MIN. DECK OPENING Ø 18”)</td>
<td>NO-HUB SIDE OUTLET (2” THRU 6” OUTLETS ONLY)</td>
<td>-10 FIXED EXTENSION COLLAR, CAST IRON (SPECIFY HEIGHT)</td>
<td>-10-20 FIXED EXTENSION COLLAR, GALVANIZED (SPECIFY HEIGHT)</td>
<td>-10-20 FIXED EXTENSION COLLAR, GALVANIZED (SPECIFY HEIGHT)</td>
<td>-1 DECK CLAMP ASSEMBLY</td>
</tr>
</tbody>
</table>

**DATE OF LAST CHANGE:** 4/23/15

**JOSEAM COMPANY**

**MICHIGAN CITY, INDIANA**

**NOTES**

- Separate submittal for this option available

**-10 EXTENSION 4” STANDARD**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>2”</th>
<th>3”</th>
<th>4”</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIPE SIZE</td>
<td>INSIDE CAULK OUTLET</td>
<td>INSIDE CAULK OUTLET</td>
<td>INSIDE CAULK OUTLET</td>
</tr>
<tr>
<td>INSIDE CAULK OUTLET</td>
<td>FIXED EXTENSION COLLAR, CAST IRON (SPECIFY HEIGHT)</td>
<td>FIXED EXTENSION COLLAR, GALVANIZED (SPECIFY HEIGHT)</td>
<td>GALVANIZED CAST IRON PARTS</td>
</tr>
<tr>
<td>NO-HUB SPIGOT OUTLET</td>
<td>DUTCHLE DUTY DUCTILE UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>DUTCHLE DUTY DUCTILE UNDERGRATE LAMINATED TOP, BRONZE</td>
<td>DUTCHLE DUTY DUCTILE UNDERGRATE LAMINATED TOP, NIKALOY</td>
</tr>
<tr>
<td>AE</td>
<td>THREADED LEVELEZE® ADJ. EXT.</td>
<td>CAST IRON UNDERGRATE LAMINATED TOP, NIKALOY</td>
<td>PERFORATED STAINLESS STEEL EXTENSION</td>
</tr>
<tr>
<td>CR</td>
<td>CLAMPING DRAIN RECEIVER (MIN. DECK OPENING Ø 18”)</td>
<td>NO-HUB SIDE OUTLET (2” THRU 6” OUTLETS ONLY)</td>
<td>PARKING GRATE - 110 SQ. IN. F.A. (DUCTILE-IRON ONLY)</td>
</tr>
<tr>
<td>PG</td>
<td>PARKING GRATE - 110 SQ. IN. F.A. (DUCTILE-IRON ONLY)</td>
<td>-1 DECK CLAMP ASSEMBLY</td>
<td>-VP SECURED GRATE, VANDAL-PROOF SCREWS</td>
</tr>
<tr>
<td>IRMA</td>
<td>PERFORATED STAINLESS STEEL EXTENSION</td>
<td>-PG PARKING GRATE - 110 SQ. IN. F.A. (DUCTILE-IRON ONLY)</td>
<td>-6 EXTRA-WIDE FLANGE DRAIN BODY</td>
</tr>
</tbody>
</table>

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
Warning: Cancer and Reproductive Harm - www.p65warnings.ca.gov
![WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov](image-url)

**Roof Drains**

**SPECIFICATION:**
JOSAM 23500-IRMA SERIES COATED CAST IRON ROOF DRAIN, SQUARE PEDESTRIAN GRATE SET IN SQUARE SECURED FRAME, FRAME SUPPORT COLLAR, PERFORATED STAINLESS STEEL EXTENSION FILTER, WEJLOC NON-PUNCTURING FLASHING COLLAR, LARGE SUMP WITH EXTRA-WIDE ROOF FLANGE AND BOTTOM OUTLET.

**SERIES 23500-IRMA**

**Roof Drain**

**W/PERFORATED STAINLESS EXTENSION**

**FREE AREA**

- **63.4 SQ. IN.**
- **FLASHING RING**
- **SPECIFY DIM. ON ORDER**
- **WEJLOC**
- **FREE AREA 50% OPEN**
- **RIM**
- **STAINLESS STEEL PERFORATED EXTENSION**
- **PERFORATED STAINLESS STEEL EXTENSION**
- **CLAMPING DRAIN RECEIVER**
- **NO-HUB SIDE OUTLET**
- **DUCTILE IRON OR NIKALOY**
- **-37-50 HOY-DUTY DUCTILE UNDERGRATE LAMINATED TOP, NIKALOY**
- **-37-51 HOY-DUTY DUCTILE UNDERGRATE LAMINATED TOP, BRONZE**
- **-AE THREADED LEVELEZE ADJ. EXT.**
- **-T = 3 3/4**
- **-X = 5 1/8**
- **-Y = 4 7/8**
- **-Z = 4 7/8**
- **-CR CLAMPING DRAIN RECEIVER (MIN. DECK OPENING ø 16")**
- **-PG PARKING GRATE - 110 SQ. IN. F. A. (DUCTILE IRON ONLY)**
- **-10荫 DECK CLAMP ASM.**
- **-1C DRAIN RECEIVER CLIPS (MIN. DECK OPENING ø 16")**
- **-7-8 NO-HUB SPIGOT OUTLET**
- **-29 GALVANIZED CAST IRON PARTS**
- **-10-20 FIXED EXT. COLLAR, GALVANIZED (SPECIFY HEIGHT **)**
- **-12-20 FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-36 DUCTILE IRON GRATE**
- **-3-12 DRAIN RECEPTOR X DRAIN RECEPTOR CLIPS**
- **-10  FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-5-10 FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-10 EXTENSION 4" STANDARD**
- **-10-20 FIXED EXT. COLLAR, GALVANIZED (SPECIFY HEIGHT **)**
- **-16  EXTRA-DEEP SUMP**
- **-18  EXTRA-DEEP SUMP**
- **-20  GALVANIZED CAST IRON PARTS**
- **-6  EXTRA-WIDE FLANGE DRAIN BODY (Ø OUTLET ONLY)**
- **-10 FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-10  FIXED EXT. COLLAR, GALVANIZED (SPECIFY HEIGHT **)**
- **-20  GALVANIZED CAST IRON PARTS**
- **-10 FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-20  GALVANIZED CAST IRON PARTS**
- **-3  DRAIN RECEIVER**
- **-3  DRAIN RECEIVER CLIPS**
- **-10  FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-5  DRAIN RECEIVER CLIPS**
- **-12  DRAIN RECEPTOR X DRAIN RECEPTOR CLIPS**
- **-T = 3 3/4**
- **-X = 5 1/8**
- **-Y = 4 7/8**
- **-Z = 4 7/8**
- **-CR CLAMPING DRAIN RECEIVER (MIN. DECK OPENING ø 16")**
- **-PG PARKING GRATE - 110 SQ. IN. F. A. (DUCTILE IRON ONLY)**
- **-10  FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-10  FIXED EXT. COLLAR, GALVANIZED (SPECIFY HEIGHT **)**
- **-10  FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-20  GALVANIZED CAST IRON PARTS**
- **-6  EXTRA-WIDE FLANGE DRAIN BODY (Ø OUTLET ONLY)**
- **-5  DRAIN RECEIVER CLIPS**
- **-10  FIXED EXT. COLLAR, CAST IRON (SPECIFY HEIGHT **)**
- **-5  DRAIN RECEIVER CLIPS**
- **-12  DRAIN RECEPTOR X DRAIN RECEPTOR CLIPS**
- **-T = 3 3/4**
- **-X = 5 1/8**
- **-Y = 4 7/8**
- **-Z = 4 7/8**
- **-CR CLAMPING DRAIN RECEIVER (MIN. DECK OPENING ø 16")**
- **-PG PARKING GRATE - 110 SQ. IN. F. A. (DUCTILE IRON ONLY)**
- **-10 SECURED GRATE, VANDAL-PROOF SCREWS**

**DATE OF LAST CHANGE:** 5/04/15

**DATE OF LAST CHANGE:** 4/23/15

Dimensions are subject to manufacturers’ tolerances and change without notice. We can assume no responsibility for use of superseded or void data.

**Josam Company**
Michigan City, Indiana

**NOTES**

**Josam Company**
Michigan City, Indiana

**NOTES**

**Dimensions are subject to manufacturers’ tolerances and change without notice. We can assume no responsibility for use of superseded or void data.**
**SPECIFICATION:**

JOSAM 23510 SERIES COATED CAST IRON ROOF DRAIN, ROUND EXTRA-HEAVY DUTY GRADE SET IN ROUND SECURED FRAME, WEJLOC NON-PUNCTURING FLASHING COLLAR WITH WEEPHOLES FOR ROOF FILL, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**SERIES 23510**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>DECK CLAMP ASY.</th>
<th>GASKET ON -Y CONNECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>-1</td>
<td>-X</td>
</tr>
<tr>
<td>3&quot;</td>
<td>-C</td>
<td>-Y</td>
</tr>
<tr>
<td>4&quot;</td>
<td>-2</td>
<td>-Z</td>
</tr>
<tr>
<td>5&quot;</td>
<td>-3</td>
<td>-T</td>
</tr>
</tbody>
</table>

**DECK CLAMP (1)**

**FREE AREA**

- SLOTTED 2.78" MIN. DECK OPENING
- DECK CLAMP (1)

**ROOF DRAIN**

JOSAM 23510 SERIES COATED CAST IRON ROOF DRAIN, ROUND PEDESTRIAN GRADE SET IN SQUARE SECURED FRAME, NON-PUNCTURING FLASHING COLLAR WITH WEEPHOLES FOR ROOF FILL, MEDIUM SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**SERIES 23710**

**.minimum DECK OPENING**

- 13" for 2" pipe size
- 16" for 3" pipe size
- 19" for 4" pipe size
- 22" for 5" pipe size
- 25" for 6" pipe size
- 28" for 8" pipe size
- 31" for 10" pipe size
- 34" for 12" pipe size

**NOTES**

- USE OF SUPERSEDED OR VOID DATA
- DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA
- WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
**WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

---

**SPECIFICATION:**
JOSAM 23730 SERIES COATED CAST IRON ROOF DRAIN, ROUND PEDESTRIAN GRATE SET IN SQUARE SECURED FRAME, NON-PUNCTURING FLASHING COLLAR WITH WEEPHOLES FOR 2" ROOF FILL, SMALL SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

---

**SPECIFICATION:**
JOSAM 23710-IRMA SERIES COATED CAST IRON ROOF DRAIN, ROUND PEDESTRIAN GRATE SET IN SQUARE SECURED FRAME, NON-PUNCTURING FLASHING COLLAR WITH WEEPHOLES FOR ROOF FILL, MEDIUM SUMP WITH WIDE ROOF FLANGE, BOTTOM OUTLET, AND PERFORATED IRMA EXTENSION.

---

**WARNING:**
Cancer and Reproductive Harm - www.p65warnings.ca.gov
SPECIFICATION:
JOSSAM SERIES 23730-IRMA COATED CAST IRON ROOF DRAIN, ROUND PEDESTRIAN GRATE SET IN SQUARE FRAME, PERFORATED STAINLESS STEEL EXTENSION FILTER, WEJLOC K NON-PUNCTURING FLASHING COLLAR WITH WEEP HOLES, SMALL SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

CONFORMS WITH ASTM - C564
SLOT WIDTH 1/4” MEETS ADA AND HEEL-PROOF REQUIREMENTS

9" SQUARE
\( \phi 6\frac{3}{8}" \)
FLASHING CLAMP COLLAR
STAINLESS STEEL PERFORATED EXT FREE AREA 55% OPEN
DRAIN RECEIVER
\(-2\)
\(-X = 4\)
\(-Y = 3-3/4\)
\(-Z = 3-5/8\)
\(-T = 3\)

1/16" DECK CLAMP ASSEMBLY AND DRAIN RECEIVER
\(-TSO\)
** BODY CANNOT BE USED WITH DRAIN RECEIVER \(-2, -3 & -3C\)

SPECIFICATION:
JOSSAM 23740 SERIES COATED CAST IRON ROOF DRAIN, SQUARE HEAVY-DUTY DUCTILE IRON UNDERGRATE WITH NIKALLOY TOP SET IN SQUARE SECURED FRAME, NON-PUNCTURING FLASHING COLLAR WITH WEEP HOLES FOR 2" ROOF FILL, SMALL SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

CONFORMS WITH ASTM-C564
SLOT WIDTH 7/16" SQ. HOLES

GRATE FREE AREA 19 SQ. IN.
\( \phi 9\frac{1}{4} \)
8 SQ.
7 3/8 SQ.

\( \phi 11\) PIPE SIZE

\( \phi 9\frac{1}{4} \)
8 SQ.
7 3/8 SQ.

DATE OF LAST CHANGE: 12/11/13
NOTES

DATE OF LAST CHANGE: 5/6/15
NOTES

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
### Roof Drains

**Specification:**

JOSAM SERIES 24020 COATED CAST IRON SUPER-FLO ROOF DRAIN, ROUND MEDIUM-DUTY ANTI-TILTING GRATE WITH PERIMETER DRAINAGE SLOTS, SET IN ROUND NON-PUNCTURING MEMBRANE CLAMP RING, MEDIUM SUMP WITH WIDE DECK FLANGE AND BOTTOM INSIDE CAULK OUTLET CONNECTION.

- **Pipe Size:**
  - 2" PIPE SIZE
  - 3" PIPE SIZE
  - 4" PIPE SIZE

- **Grate Free Area:**
  - 27 SQ. IN.

- **Standard Cast Iron Slot Width:**
  - 3/8" (-50 & -51 SLOT WIDTH: 3/16")

**Series:**

- **COMPOSITION DECK**

**Roof Drain:**

- **JOSAM SERIES 24030 COATED CAST IRON SUPER-FLO ROOF DRAIN, ROUND MEDIUM-DUTY ANTI-TILTING GRATE WITH PERIMETER SLOTS, SET IN ROUND NON-PUNCTURING MEMBRANE CLAMP RING, LARGE SUMP WITH WIDE DECK FLANGE AND BOTTOM INSIDE CAULK OUTLET CONNECTION.**

- **Slot Width:**
  - 9/16 (-50 & -51 SLOT WIDTH: 7/16)

**Series:**

- **24030**

---

### Diagrams

**Diagram 1:**

- **Dimensions:**
  - PIPE SIZE
  - DECK CLAMP (1-1)
  - DECK OPENING
  - 1-1/2 MIN., 4-1/4 MAX.

**Diagram 2:**

- **Dimensions:**
  - PIPE SIZE
  - DECK CLAMP (1-1)
  - 3-1/2 MIN., 7-1/2 MAX.

---

**Notes:**

- **Date of Last Change:**
  - 12/23/14

**Josam Company:**

- **Michigan City, Indiana**

---

**Spec Sheet:**

- **WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)
**Roof Drains**

**SPECIFICATION:**
JOSAM SERIES 24060 COATED CAST IRON ROOF DRAIN, ROUND SPECIAL-DUTY GRATE, LARGE SUMP WITH WIDE DECK FLANGE AND BOTTOM INSIDE CAULK OUTLET CONNECTION.

**ROOF DRAIN**
COMPOSITION DECK

**SERIES**
24060

**MINIMUM DECK OPENING**

**NOTES**
- USE OF SUPERSEDED OR VOID DATA.
- DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE.
- WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

---

**SPECIFICATION:**
JOSAM SERIES 24200 COATED CAST IRON ADJUSTABLE "ALL-LEVEL" DRAIN, ROUND PEDESTRIAN GRATE SET IN ROUND ANCHORED FRAME LEVELLED ON ADJUSTABLE THREADED RODS, REMOVABLE PERFORATED STAINLESS STEEL FILTER, CONCRETE FORMING AND RETAINING RING, CAST IRON NON-PUNCTURING CLAMP RING, LARGE SUMP WITH WIDE FLANGE AND BOTTOM OUTLET INSIDE-CAULK (-X TYPE) CONNECTION.

**DRAIN**
PROMENADE TOP
WIDE FLANGE

**SERIES**
24200

**GRATE FREE AREA: 30.2 SQ. IN.**

**OPTIONS:**
-1 DECK CLAMP ASSY
-20 GALVANIZED CAST IRON PARTS
-50 SATIN FINISH NIKALOY TOP
-51 SATIN FINISH BRONZE TOP
-60 SQUARE TOP

**NOTES**
- USE OF SUPERSEDED OR VOID DATA.
- DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE.
- WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

---

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
**SPECIFICATION:**
JOSAM SERIES 24500 COATED CAST IRON SILL DRAIN, SECURED LOW BRONZE DOME, BRONZE CLAMP RING, & SHALLOW SUMP WITH FLASHING FLANGE AND BOTTOM THREADED OUTLET CONNECTION.

**ROOF DRAIN**
SILL TYPE WITH BRONZE DOME

**SERIES 24500**

- **2" PIPE SIZE**: 33 STAINLESS STEEL MESH COVERED DOME
- **3" PIPE SIZE**: 35 FLAT GRATE (SLOT WIDTH 3/16")
- **4" PIPE SIZE**: 45 BODY WITH 45° THREADED OUTLET
- **-20 GALVANIZED CAST IRON PARTS**: 10 SATIN FINISH BRONZE TOP
- **-24 ROUGH NIKALOY DOME**: 40 BODY WITH 90° THREADED OUTLET

**NOTES**
JOSAM COMPANY
MICHIGAN CITY, INDIANA

**DATE OF LAST CHANGE**: 5/04/15

**DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

---

**SPECIFICATION:**
JOSAM SERIES 24500-27 COATED CAST IRON SILL DRAIN, SECURED TALL BRONZE DOME, BRONZE CLAMP RING AND SHALLOW SUMP WITH FLASHING FLANGE AND BOTTOM THREADED OUTLET CONNECTION.

**ROOF DRAIN**
SILL TYPE WITH TALL DOME

**SERIES 24500-27**

- **2" PIPE SIZE**: 20 GALVANIZED CAST IRON PARTS
- **3" PIPE SIZE**: 24 ROUGH NIKALOY DOME
- **4" PIPE SIZE**: 33 STAINLESS STEEL MESH COVERED DOME
- **-45 BODY WITH 45° THREADED OUTLET**: 90 BODY WITH 90° THREADED OUTLET
- **-24 ROUGH NIKALOY DOME**: 40 BODY WITH 90° THREADED OUTLET

**NOTES**
JOSAM COMPANY
MICHIGAN CITY, INDIANA

**DATE OF LAST CHANGE**: 5/04/15

**DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

---

**WARNING**: Cancer and Reproductive Harm - www.p65warnings.ca.gov
ROOF DRAIN
SILL TYPE WITH BRONZE GRATE

SERIES 24500-35

FOR FURTHER DETAILS OF THE 24500 DRAIN ASSEMBLY, PLEASE REFERENCE THE 24500 SUBMITTAL SHEET

SPECIFICATION:
JOSAM SERIES 24500-35 COATED CAST IRON SILL DRAIN, SECURED GRATE, BRONZE CLAMP RING & SHALLOW SUMP WITH FLASHING FLANGE AND BOTTOM THREADED OUTLET CONNECTION.

NOTES
DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

DATE OF LAST CHANGE: 4/23/15

JOSAM COMPANY
MICHIGAN CITY, INDIANA

---

005315 : 4A OLD STYLE GRATE

3/16 TYP.

1/8

3/16 TYP.

GRATE FREE AREA
3.18 SQ. IN.

---

ROOF DRAIN
SILL TYPE WITH BRONZE DOME

SERIES 24500-45

FORMERLY 24540 SERIES

SPECIFICATION:
JOSAM SERIES 24500-45 SERIES COATED CAST IRON SILL DRAIN, SECURED BRONZE DOME, BRONZE CLAMP RING AND SHALLOW SUMP WITH FLASHING FLANGE AND 45° SIDE THREADED OUTLET CONNECTION.

NOTES
DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

DATE OF LAST CHANGE: 5/04/15

JOSAM COMPANY
MICHIGAN CITY, INDIANA

---

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

**SPECIFICATION:**

**JOSAM 24700-45 SERIES COATED CAST IRON PARAPET TYPE ROOF DRAIN, REMOVABLE SLOPING BRONZE GRATE, FLASHING CLAMP, SHALLOW SUMP WITH FLASHING AND 45° SIDE OUTLET THREADED CONNECTION.**

**SERIES 24700-45**

**FORMERLY 24710 SERIES**

**NOTES**

**DATE OF LAST CHANGE:** 04/27/15

** USE OF SUPERSEDED OR VOID DATA.**

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

---

**PIPE SIZE** | **B x B1** | **C x C1** | **D** | **E** | **GRATE FREE AREA**
---|---|---|---|---|---
2" | 4-1/2 x 11 | 6-1/2 x 11 | 2-1/4 | 3-7/8 | 19.5 SQ. IN.
3" | 4-1/2 x 11 | 6-1/2 x 11 | 2-5/8 | 4-1/4 | 19.5 SQ. IN.
4" | 4-1/2 x 11 | 6-1/2 x 11 | 3 | 4-5/8 | 19.5 SQ. IN.
5" | 5-1/2 x 13 | 7-1/2 x 13 | 3-1/2 | 5 | 34.3 SQ. IN.
6" | 5-1/2 x 13 | 7-1/2 x 13 | 3-5/8 | 5-1/2 | 34.3 SQ. IN.

---

**ROOF DRAIN PARAPET TYPE, SLOPING GRATE**

---

**SPECIFICATION:**

**JOSAM 24720 SERIES COATED CAST IRON PARAPET TYPE ROOF DRAIN, SECURED ANGLE GRATE WITH FLASHING CLAMP, SHALLOW SUMP WITH FLASHING FLANGE AND SIDE OUTLET THREADED CONNECTION.**

**SERIES 24720**

**NOTES**

**DATE OF LAST CHANGE:** 04/23/15

**USE OF SUPERSEDED OR VOID DATA.**

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

---

**PIPE SIZE** | **A** | **B** | **C** | **D** | **E** | **GRATE FREE AREA**
---|---|---|---|---|---|---
2" | 4-1/2 | 11 | 5-1/2 | 1-1/2 | 5-7/8 | 3 5-1/8 | 5-1/4 | 7-3/8 | 1-1/4 | 3-1/4 | 5-1/4 | 25.9
3" | 4-1/2 | 11 | 6-1/2 | 2-1/8 | 6-3/8 | 5-5/8 | 5-1/8 | 4-1/8 | 7-1/8 | 3-1/4 | 5-1/4 | 25.9
4" | 4-1/2 | 11 | 6-1/2 | 2-5/8 | 6-3/8 | 5-5/8 | 5-1/8 | 4-1/8 | 7-1/8 | 3-1/4 | 5-1/4 | 25.9
5" | 5-1/2 | 13 | 7-1/2 | 3-1/2 | 8-1/8 | 6-5/8 | 4 | 6-1/8 | 5 | 7-1/2 | 10-3/4 | 3-1/4 | 4-1/4 | 7-1/2 | 41.3
6" | 5-1/2 | 13 | 7-1/2 | 3-1/2 | 8-1/8 | 6-5/8 | 6-1/8 | 5-1/2 | 7-1/2 | 10-3/4 | 3-1/4 | 4-1/4 | 7-1/2 | 41.3

---

**2" PIPE SIZE** -22 CAST IRON GRATE

**3" PIPE SIZE** -24 ROUGH NIKALOY GRATE

**4" PIPE SIZE** -X-45 BODY WITH 45° THREADED OUTLET

**5" PIPE SIZE** -50 SATIN FINISH NIKALOY GRATE

**6" PIPE SIZE** -61 DOWNSPOUT ELBOW (CAST IRON)

**-20 GALVANIZED CAST IRON PARTS**

**DATE OF LAST CHANGE:** 04/27/15

---

**ROOF DRAIN PARAPET TYPE, ANGLE GRATE**

---

**NOTES**

**DATE OF LAST CHANGE:** 04/23/15

---

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
### Specification:

**Josam 24720-45 Series Coated Cast Iron Parapet Type Roof Drain, Secured Angle Grate with Flashing Clamp, Shallow Sump with Flashing Flange and 45° Side Outlet Threaded Connection.**

**Josam 24900 Series Coated Cast Iron Parapet Type Roof Drain, Secured Bronze Dome with Integral Flashing Clamp, Flashing Flange and Side Outlet Threaded Connection.**

**Notes:**
- Dimensions are subject to manufacturers' tolerances and change without notice. We can assume no responsibility for use of superseded or void data.
- Use of superseded or void data.
- We can assume no responsibility for use of superseded or void data.

---

**Pipe Size | Dimension A | Dimension B | Dimension C | Dimension D | Dimension E | Grate Free Area (sq. in.)**
---

2” | 4 1/2 | 11 | 6 1/2 | 2 1/4 | 3 7/8 | 25.9
3” | 4 1/2 | 11 | 6 1/2 | 2 5/8 | 4 1/4 | 25.9
4” | 4 1/2 | 11 | 6 1/2 | 3 | 4 5/8 | 25.9
5” | 5 1/2 | 13 | 7 1/2 | 3 1/2 | 5 | 41.3
6” | 5 1/2 | 13 | 7 1/2 | 3 5/8 | 5 1/2 | 41.3

---

**Pipe Size | Dimension A | Dimension B | Dimension C | Dimension D | Dimension E | Grate Free Area (sq. in.)**
---

2” | 1 1/4 | 12 | 12 | 8 5/16 | 135° | 25.9
3” | 1 1/4 | 12 | 12 | 8 5/16 | 135° | 25.9
4” | 1 1/4 | 12 | 12 | 8 5/16 | 135° | 25.9
5” | 1 1/4 | 12 | 12 | 8 5/16 | 135° | 25.9
6” | 1 1/4 | 12 | 12 | 8 5/16 | 135° | 25.9

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**Josam Company**
- Michigan City, Indiana

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**Josam Company**
- Michigan City, Indiana

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**Warning:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)
**Roof Drains**

**Roof Drain**

**Parapet Scupper Sleeve**

**Series:** 25000

**Specification:**
- Josam 25000 series coated cast iron roof drain, parapet scupper sleeve type. Flashing clamp, tubular body with flashing flange and adjustable collar.

**Dimensions:**
- **Wall Thickness:** 1 7/8
- **Date of Last Change:** 4/23/15

**Use of Superseded or Void Data:**
- Notes: Dimensions are subject to manufacturers tolerances and change without notice. We can assume no responsibility for use of superseded or void data.

**Roof Drain**

**Downspout Nozzle**

**Series:** 25010-T

**Specification:**
- Josam 25010-T series coated cast bronze downspout nozzle, loose wall flange and inlet threaded connection.

**Dimensions:**
- **Type:** Pipe Size
- **Wall Thickness:**
  - 25012-T: 2" 4 3/8 6
  - 25013-T: 3" 4 3/8 6
  - 25014-T: 4" 5 3/8 7
  - 25015-T: 5" 7 1/2 9
  - 25016-T: 6" 7 1/2 9
  - 25018-T: 8" 9 5/8 11
  - 25019-T: 10" 11 1/4 12 3/4

**Notes:**
- Use of superseded or void data.
- Dimensions are subject to manufacturers tolerances and change without notice. We can assume no responsibility for use of superseded or void data.

---

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
**SPECIFICATION:**
JOSAM 25010-Z SERIES COATED CAST BRONZE DOWNSPOUT NOZZLE, LOOSE WALL FLANGE AND NO-HUB INLET CONNECTION.

**TYPE PIPE SIZE A B C D E**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PIPE SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<td>25012-Z</td>
<td>2&quot;</td>
<td>2 3/8</td>
<td>2 5/8</td>
<td>3</td>
<td>5 1/2</td>
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<td>25013-Z</td>
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<td>3 3/8</td>
<td>2 5/8</td>
<td>3 1/2</td>
<td>6 1/2</td>
<td>5 3/8</td>
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<tr>
<td>25014-Z</td>
<td>4&quot;</td>
<td>3 3/4</td>
<td>2 5/8</td>
<td>4</td>
<td>7 1/2</td>
<td>5 1/2</td>
</tr>
<tr>
<td>25015-Z</td>
<td>5&quot;</td>
<td>4 1/4</td>
<td>2 5/8</td>
<td>4 1/2</td>
<td>8 1/2</td>
<td>5 3/4</td>
</tr>
<tr>
<td>25016-Z</td>
<td>6&quot;</td>
<td>4 3/4</td>
<td>2 5/8</td>
<td>5</td>
<td>9 1/2</td>
<td>5 3/4</td>
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<tr>
<td>25018-Z</td>
<td>8&quot;</td>
<td>6 7/8</td>
<td>5 7/8</td>
<td>6</td>
<td>11 1/2</td>
<td>6 1/2</td>
</tr>
<tr>
<td>25019-Z</td>
<td>10&quot;</td>
<td>6 7/8</td>
<td>3 6/8</td>
<td>3 6/8</td>
<td>13</td>
<td>6 1/2</td>
</tr>
<tr>
<td>25010-12-Z</td>
<td>12&quot;</td>
<td>7 7/8</td>
<td>3 7/8</td>
<td>3 7/8</td>
<td>15</td>
<td>6 1/2</td>
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</tbody>
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**NOTES**
WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov
WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov

**Roof Drains**

**SPECIFICATIONS:**
JOSAM SERIES 25010-Q100 SPECIAL PURPOSE DOWNSPOUT COVER WITH STAINLESS STEEL FLANGE AND STAINLESS STEEL PERFORATED HINGED COVER.

**SPECIAL PURPOSE DOWNSPOUT COVER**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>ø A</th>
<th>ø B</th>
<th>ø C</th>
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<tbody>
<tr>
<td>2&quot;</td>
<td>8-34</td>
<td>6-38</td>
<td>5</td>
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<tr>
<td>3&quot;</td>
<td>8-34</td>
<td>6-38</td>
<td>5</td>
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<td>4&quot;</td>
<td>8-34</td>
<td>6-38</td>
<td>5</td>
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<tr>
<td>6&quot;</td>
<td>11-34</td>
<td>8-38</td>
<td>7</td>
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<td>8&quot;</td>
<td>13-34</td>
<td>10-38</td>
<td>9</td>
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<td>10&quot;</td>
<td>15-34</td>
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<td>12&quot;</td>
<td>17-34</td>
<td>14-38</td>
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<tr>
<td>15&quot;</td>
<td>20-34</td>
<td>16-16-16</td>
<td>16</td>
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</table>

**NOTES:**
WE ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**DATE OF LAST CHANGE:** 5/6/2011

**DIMENSIONS ARE SUBJECT TO MANUFACTURER TOLERANCES AND MAY CHANGE WITHOUT NOTICE. WE ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

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**SPECIFICATION:**
JOSAM 25500 SERIES COATED CAST IRON FLO-SEPTOR® DOWNSPOUT COVER, CAST IRON INTERNAL DOME STRAINER, COMBINED WEJLOC® NON-PUNCTURING CLAMP RING AND SOLID WATER DAM, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**
FLO-SEPTOR® LARGE SUMP

**SERIES** 25500

**NOTES:**
DATE OF LAST CHANGE: 4/23/15

**DIMENSIONS ARE SUBJECT TO MANUFACTURER TOLERANCES AND MAY CHANGE WITHOUT NOTICE. WE ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.**

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**JOSAM COMPANY**
MICHIGAN CITY, INDIANA

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**JOSAM COMPANY**
MICHIGAN CITY, INDIANA

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**CR CLAMPING DRAIN RECEIVER (MIN. DECK OPENING ø 16")**
-1 DECK CLAMP ASSEMBLY
-2 DRAIN RECEIVER
-3 DECK CLAMP ASSEMBLY & DRAIN RECEIVER
-20 GALVANIZED CAST IRON PARTS

**NO-HUB SIDE OUTLET**
-T THREADED OUTLET
-X INSIDE CAULK OUTLET
-Y HUB OUTLET WITH GASKET
-Z NO-HUB SPIGOT OUTLET

**PIPE SIZE**
2"
3"
4"
5"
6"
### Roof Drains

**Specification:**
JOSAM 25520 SERIES COATED CAST IRON FLO-SEPTOR® ROOF DRAIN, CAST IRON INTERNAL DOME STRAINER, COMBINED WEJLOC® NON-PUNCTURING CLAMP RING AND SOLID WATER DAM, MEDIUM SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**Series:** 25520

- **Pipe Size:** 2" - 6"
- **Diameter:** 2" - 5-3/4" (E)
- **Dimension:** 2" - 5-3/4" (E)
- **Depth:** 4-3/4" - 6-1/4" (D)

**Notes:**
- DECK CLAMP ASSEMBLY
- DRAIN RECEIVER
- DECK CLAMP ASSY & DRAIN RECEIVER
- GALVANIZED CAST IRON PARTS

---

**Specification:**
JOSAM 25540 SERIES COATED CAST IRON FLO-SEPTOR® ROOF DRAIN, CAST ALUMINUM INTERNAL DOME STRAINER, COMBINED WEJLOC® NON-PUNCTURING CLAMP RING AND SOLID WATER DAM, SMALL SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**Series:** 25540

- **Pipe Size:** 2" - 4"
- **Diameter:** 2" - 4" (E)
- **Dimension:** 2" - 4" (E)
- **Depth:** 4" - 5-3/4" (D)

**Notes:**
- DECK CLAMP ASSEMBLY
- DRAIN RECEIVER
- DECK CLAMP ASSY & DRAIN RECEIVER
- GALVANIZED IRON PARTS

---

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
**SPECIFICATION:**  
JOSAM 26450 SERIES COATED CAST IRON STACK SLEEVE WITH COUNTER FLASHING AND CAULKING RECEESSES.

**ROOF DRAIN**  
VENT STACK FLASHING FITTING

**SERIES** 26450

**VENT STACK FLASHING FITTING**  
JOSAM 26450 SERIES COATED CAST IRON STACK SLEEVE WITH COUNTER FLASHING COLLAR, DEEP PROTECTIVE HOOD AND RECESSED SECURING SCREWS.

**SPECIFICATION:**  
JOSAM 26700 SERIES COATED CAST IRON VANDAL-PROOF HOODED VENT CAP WITH LARGE FROST-PROOF OPENINGS, COUNTERFLASHING COLLAR, DEEP PROTECTIVE HOOD AND RECESSED SECURING SCREWS.

**NOTE:**  
DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSED OR VOID DATA.

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov
Roof Drains

**WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

**SPECIFICATION:**
JOSAM 28600 SERIES COATED CAST IRON FLO-SET® ROOF DRAIN, LARGE SECURED DOME. ADJUSTABLE CALIBRATED VANDAL-PROOF VANE COLLAR, WEJLOC® NON-PUNCTURING CLAMP RING WITH STATIONARY VANES AND INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**
FLO-SET®

**SERIES**
28600

**DOME FREE AREA:** 153.6 SQ. IN.

**DECK CLAMP**
(-1 OPTION)

**Z OUTLET SHOWN**

**1" DECK CLAMP**

**13 1/4" MIN. DECK OPENING**

**18" Z OUTLET SHOWN**

**15 1/4"**

**1 MIN. DECK OPENING**

**13 1/4"**

**15 1/4"**

**18"**

**WEJLOC Clamp Ring with Stationary Vanes**

**Pipe Size**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>5&quot;</th>
<th>6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>X -AE THREADED LEVELIZE ADJ. EXT.</td>
<td><strong>-C</strong> CLAMMING DRAIN RECEIVER (MIN. DECK OPENING 16&quot;)</td>
<td>-1 DECK CLAMP ASSEMBLY</td>
<td>-2 DRAIN RECEIVER</td>
<td>-3 DECK CLAMP ASSEMBLY AND DRAIN RECEIVER</td>
<td>-4 SECONDARY FLASHING CLAMP (AE ONLY)</td>
</tr>
<tr>
<td>10 FIXED EXTENSION COLLAR CAST IRON (SPECIFY HEIGHT)</td>
<td>-20 GALVANIZED CAST IRON PARTS</td>
<td>-23 ROUGH BRONZE DOME</td>
<td>-33 STAINLESS STEEL MESH-COVERED DOME</td>
<td>-69 NO-HUB SIDE OUTLET (2&quot; THRU 6&quot; OUTLETS ONLY)</td>
<td>-1 THREADED OUTLET</td>
</tr>
<tr>
<td>-X INSIDE CAULK OUTLET</td>
<td>-Y HUB OUTLET W/ GASKET (2&quot; 3&quot; &amp; 4&quot; SIZES ONLY)</td>
<td>-T THREADED OUTLET</td>
<td>-Z NO-HUB SPIGOT OUTLET</td>
<td><strong>-10 EXTENSION 4&quot; STANDARD</strong></td>
<td></td>
</tr>
</tbody>
</table>

**SPECIFICATION:**
JOSAM 28600-AE SERIES COATED CAST IRON FLO-SET ROOF DRAIN, LARGE SECURED DOME. ADJUSTABLE CALIBRATED VANDAL-PROOF VANE COLLAR. WEJLOC® NON-PUNCTURING CLAMP RING WITH STATIONARY VANES AND INTEGRAL GRAVEL STOP, BOLTED SUPPORT RING. ADJUSTABLE TOP, LARGE SUMP WITH ROOF FLANGE AND BOTTOM OUTLET.

**ROOF DRAIN**
FLO-SET® WITH ADJUSTABLE EXTENSION

**SERIES**
28600-AE

**FORMERLY 28500 SERIES**

**DOME FREE AREA:** 153.6 SQ. IN.

**APPLY SEALANT HERE AFTER FINAL ADJUSTMENT**

**18"**

**15 1/4" MIN. DECK OPENING**

**2" PIPE SIZE**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>-10 EXTENSION 4&quot; STANDARD</strong></td>
<td><strong>-T</strong> THREADED OUTLET</td>
<td><strong>-X</strong> INSIDE CAULK OUTLET</td>
<td><strong>-Z</strong> NO-HUB SPIGOT OUTLET</td>
</tr>
</tbody>
</table>

**NOTE:** DATE OF LAST CHANGE: 10/24/14

**NOTES:**
DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

**DATE OF LAST CHANGE:** 10/24/14

**NOTES:**
JOSAM COMPANY
MICHIGAN CITY, INDIANA

**DATE OF LAST CHANGE:** 4/24/15

**NOTES:**
JOSAM COMPANY
MICHIGAN CITY, INDIANA

**DATE OF LAST CHANGE:** 4/24/15
Roof Drains

SPECIFICATION:
JOSAM 29000 SERIES COATED CAST IRON ISOLATION DECK DRAIN, NON-PUNCTURING CLAMP RING FOR STANDPIPE AND BOTTOM OUTLET.

SERIES 29000

*THIS DIMENSION IS 5-3/4" ON 8" THREADED OUTLET
** GASKET CONFORMS WITH ASTM-C564

PIPE SIZE

1 - DECK CLAMP ASSEMBLY
1C - DRAIN RECEIVER CLIPS (MIN. DECK OPENING ø 16)
1CR - CLAMPING DRAIN RECEIVER (MIN. DECK OPENING ø 16)
1 - DRAIN RECEIVER
3 - DECK CLAMP ASSEMBLY AND DRAIN RECEIVER
3C - DRAIN RECEIVER AND DRAIN RECEIVER CLIPS
17 - 2" HIGH SOLID CLAMPING COLLAR

-20 - GALVANIZED CAST IRON PARTS
-6 - NO-HUB SIDE OUTLET (2" THRU 6" OUTLETS ONLY)
-7 - THREADED OUTLET
-3 - NO-HUB SPIGOT OUTLET
-3C - NO-HUB SPIGOT OUTLET
-WH - WEEP HOLES

JOSSAM COMPANY
MICHIGAN CITY, INDIANA

NOTES

DATE OF LAST CHANGE: 04/27/15

DINENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov