MIFAB, Inc. February 2018

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Guide Specification

Specifier Notes: This guide specification is written in Construction Specifications Institute (CSI) 3-Part Format in accordance with *The CSI Construction Specifications Practice Guide,* *MasterFormat, SectionFormat,* and *PageFormat.*

This Section must be carefully reviewed and edited by the Architect to meet the requirements of the Project and local building code. Coordinate this Section with Conditions of the Contract, Division 01, other specification sections, and the Drawings. Delete all Specifier Notes after editing this Section.

Section numbers and titles are based on *MasterFormat 2016 Edition.*

1. 22 14 26.13

ROOF DRAINS

Specifier Notes: This Section covers MIFAB, Inc. roof drains with cast iron “RoofGuard” dome strainers. Consult MIFAB, Inc. for assistance in editing this Section as required for the Project.

* 1. GENERAL
		1. SECTION INCLUDES
			1. Roof drains.
		2. RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as required for the Project. Limit the list to sections with specific information that the reader might expect to find in this Section, but is specified elsewhere.

* + - 1. Section 22 14 13 – Facility Storm Drainage Piping.
		1. REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this Section, complete with designations and titles. Delete reference standards from the following list not used in the edited Section.

* + - 1. International Organization for Standardization (ISO) ([www.iso.org](http://www.iso.org)):
				1. ISO 9001 – Quality management systems – Requirements.
			2. The American Society of Mechanical Engineers (ASME) ([www.asme.org](http://www.asme.org)):
				1. ASME A112.6.4 – Roof, Deck, and Balcony Drains.
		1. PREINSTALLATION MEETINGS

Specifier Notes: Edit the Preinstallation Meetings article as required for the Project. Delete this article if not required.

* + - 1. Convene preinstallation meeting [1 week] [2 weeks] before start of installation of roof drains.
			2. Require attendance of parties directly affecting Work of this Section, including Contractor, Architect, installer, and manufacturer’s representative.
			3. Review the Following:
				1. Materials.
				2. Installation.
				3. Protection.
				4. Coordination with other Work.
		1. SUBMITTALS

Specifier Notes: Edit the Submittals article as required for the Project. Delete submittals not required.

* + - 1. Submittals: Comply with Division 01.
			2. Product Data: Submit manufacturer’s product data, including installation instructions.
			3. Manufacturer’s Certification: Submit manufacturer’s certification that materials comply with specified requirements and are suitable for intended application.
			4. Manufacturer’s Project References: Submit manufacturer’s list of 10 successfully completed roof drain projects of similar size and scope to this Project, including project name and location, name of architect, and type and quantity of roof drains furnished.
			5. Installer’s Project References: Submit installer’s list of 5 successfully completed roof drain projects of similar size and scope to this Project, including project name and location, name of architect, and type and quantity of roof drains installed.
			6. Warranty Documentation: Submit manufacturer’s standard warranty.
		1. QUALITY ASSURANCE
			1. Manufacturer’s Qualifications:
				1. Manufacturer regularly engaged in the manufacturing of roof drains of similar type to that specified for a minimum of 10 years.
				2. ISO 9001 certified company.
			2. Installer's Qualifications:
				1. Installer regularly engaged in installation of roof drains of similar type to that specified for a minimum of 5 years.
				2. Use persons trained for installation of roof drains.
		2. DELIVERY, STORAGE, AND HANDLING
			1. Delivery Requirements: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
			2. Storage and Handling Requirements:
				1. Store and handle materials in accordance with manufacturer’s instructions.
				2. Keep materials in manufacturer’s original, unopened containers and packaging until installation.
				3. Store materials in clean, dry area indoors.
				4. Do not store materials directly on floor.
				5. Protect materials and finish during storage, handling, and installation to prevent damage.
	1. PRODUCTS
		1. MANUFACTURERS
			1. Manufacturer: MIFAB, Inc., 1321 West 119th Street, Chicago, Illinois 60643. Toll Free 800-465-2736. Fax 773-341-3049. [www.mifab.com](http://www.mifab.com). sales@mifab.com.

Specifier Notes: Specify if substitutions will be permitted.

* + - 1. Substitutions: [Not permitted] [Comply with Division 01].
			2. Single Source: Provide materials from single manufacturer.
		1. ROOF DRAINS

Specifier Notes: Specify roof drains as required for the Project. Delete roof drains not required. Consult MIFAB, Inc. for more information.

* + - 1. Roof Drains: “Series R1200-RG” lacquered, cast iron, deep sump roof drains.
				1. 15-inch-diameter anchor flange.
				2. Large cast iron waterproofing membrane clamp ring with integral gravel stop.
				3. 19-inch-diameter cast iron “RoofGuard” dome strainer with horizontal and perimeter drainage slots to prevent clogging of roof dome.
				4. Compliance: ASME A112.6.4.

Specifier Notes: Specify pipe size.

* + - * 1. Pipe Size: [2 inches (51 mm)] [3 inches (76 mm)] [4 inches (102 mm)] [5 inches (127 mm)] [6 inches (152 mm)] [8 inches (203 mm)] [Indicated on the Drawings].

Specifier Notes: Specify roof drain options as required for the Project. Delete options not required. Consult MIFAB, Inc. for more information.

* + - * 1. Roof Drain Options:

Vandal-proof dome (metal dome only) (T-20 Torx and pin).

Acid-resistant epoxy coating.

Galvanized metal dome.

Galvanized body and membrane clamp.

Galvanized metal dome and membrane clamp.

Galvanized body, membrane clamp, and dome.

Stainless steel body (Type 304) (2 inches, 3 inches, 4 inches).

PVC socket connection body.

ABS socket connection body.

Stainless steel mesh screen over dome.

Threaded side outlet (2 inches, 3 inches, 4 inches).

No-hub side outlet (cast iron only) (2 inches, 3 inches, 4 inches).

No-hub outlet (standard).

Sump receiver.

Buy America Act compliant product.

Secondary clamp.

Adjustable extension.

Galvanized adjustable extension.

Push-on outlet.

Pennsylvania Steel Act compliant product.

Threaded outlet (2 inches, 3 inches, 4 inches).

Underdeck clamp.

Underdeck clamp with cutaway side.

Fixed static extension (2 inches, 3 inches, 4 inches).

Galvanized fixed extension (2 inches, 3 inches, 4 inches).

Waterproofing flange.

Waterproofing flange (A8-W-1).

Inside caulk outlet (2 inches, 3 inches, 4 inches).

Vertical expansion joint.

Extended wide elastomeric flange.

* + - 1. Roof Drains: “Series R1200-R-RG” lacquered, cast iron, deep sump roof drains.
				1. 15-inch-diameter anchor flange.
				2. 2-inch-high, cast iron, external, combined water dam and waterproofing membrane clamp ring.
				3. 19-inch-diameter cast iron “RoofGuard” dome strainer with horizontal and perimeter drainage slots to prevent clogging of roof dome.
				4. Compliance: ASME A112.6.4.

Specifier Notes: Specify pipe size.

* + - * 1. Pipe Size: [2 inches (51 mm)] [3 inches (76 mm)] [4 inches (102 mm)] [5 inches (127 mm)] [6 inches (152 mm)] [8 inches (203 mm)] [Indicated on the Drawings].

Specifier Notes: Specify roof drain options as required for the Project. Delete options not required. Consult MIFAB, Inc. for more information.

* + - * 1. Roof Drain Options:

Vandal-proof dome (metal dome only) (T-20 Torx and pin).

Acid-resistant epoxy coating.

Galvanized metal dome.

Galvanized body and membrane clamp.

Galvanized metal dome and membrane clamp.

Galvanized body, membrane clamp, and dome.

Stainless steel body (Type 304) (2 inches, 3 inches, 4 inches).

PVC socket connection body.

ABS socket connection body.

Stainless steel mesh screen over dome.

Threaded side outlet (2 inches, 3 inches, 4 inches).

No-hub side outlet (cast iron only) (2 inches, 3 inches, 4 inches).

No-hub outlet (standard).

Sump receiver.

Buy America Act compliant product.

Secondary clamp.

Adjustable extension.

Galvanized adjustable extension.

Push-on outlet.

Pennsylvania Steel Act compliant product.

Threaded outlet (2 inches, 3 inches, 4 inches).

Underdeck clamp.

Underdeck clamp with cutaway side.

Fixed static extension (2 inches, 3 inches, 4 inches).

Galvanized fixed extension (2 inches, 3 inches, 4 inches).

Waterproofing flange.

Waterproofing flange (A8-W-1).

Inside caulk outlet (2 inches, 3 inches, 4 inches).

Vertical expansion joint.

Extended wide elastomeric flange.

* + - 1. Roof Drains: “Series R1270-RG” combined large sump roof drain and secondary overflow system.
				1. 24-inch by 46-inch galvanized steel sump receiver.
				2. Two lacquered cast iron bodies with 15-inch-diameter anchor flange.
				3. One cast iron waterproofing membrane clamp ring with integral gravel stop.
				4. Second 2-inch-high, cast iron, external, combined water dam and waterproofing membrane clamp ring.
				5. Two 19-inch-diameter cast iron “RoofGuard” dome strainers with horizontal and perimeter drainage slots to prevent clogging of roof domes.
				6. Compliance: ASME A112.6.4.

Specifier Notes: Specify pipe size.

* + - * 1. Pipe Size: [2 inches (51 mm)] [3 inches (76 mm)] [4 inches (102 mm)] [5 inches (127 mm)] [6 inches (152 mm)] [8 inches (203 mm)] [Indicated on the Drawings].

Specifier Notes: Specify roof drain options as required for the Project. Delete options not required. Consult MIFAB, Inc. for more information.

* + - * 1. Roof Drain Options:

Vandal-proof domes (metal domes only) (T-20 Torx and pin).

Acid-resistant epoxy coating.

Galvanized metal domes.

Galvanized bodies and membrane clamps.

Galvanized metal domes and membrane clamps.

Galvanized bodies, membrane clamps, and domes.

Stainless steel bodies (Type 304) (2 inches, 3 inches, 4 inches).

PVC socket connection bodies.

ABS socket connection bodies.

Stainless steel mesh screen over domes.

Threaded side outlets (2 inches, 3 inches, 4 inches).

No-hub side outlets (cast iron only) (2 inches, 3 inches, 4 inches).

No-hub outlets (standard).

Buy America Act compliant product.

Secondary clamps.

Adjustable extension.

Galvanized adjustable extension.

Push-on outlets.

Pennsylvania Steel Act compliant product.

Threaded outlets (2 inches, 3 inches, 4 inches).

Underdeck clamps.

Underdeck clamps with cutaway side.

Waterproofing flange.

Inside caulk outlets (2 inches, 3 inches, 4 inches).

Vertical expansion joints.

* 1. EXECUTION
		1. EXAMINATION
			1. Examine areas to receive roof drains.
			2. Notify Architect of conditions that would adversely affect installation or subsequent use.
			3. Do not begin installation until unacceptable conditions are corrected.
		2. INSTALLATION
			1. Install roof drains in accordance with manufacturer’s instructions at locations indicated on the Drawings.
			2. Install roof drains plumb, level, and to correct elevation.
			3. Install roof drains using manufacturer’s supplied hardware.
			4. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.
		3. PROTECTION
			1. Protect installed roof drains from damage during construction.

END OF SECTION