

INCH - POUND

A-A-52028
21 June 1991

COMMERCIAL ITEM DESCRIPTION

DRAIN, FLOOR CAST-IRON

The General Services Administration has authorized the use of this commercial item description as a replacement for Military Specification MIL-D-3156C.

This description **covers two** sizes of flush-type cast-iron floor drains with slotted style open grate.

Salient characteristics:

Design The drain shall consist of two matching cast-iron parts, the **open** slotted grate, **and** the body, secured together with machine screws, designed to receive and convey run-off water or other liquid from building floors to the drainage system. The body shall be suitable for securing to structure such as wood.

Classification: The floor drains shall be of the following types.

Type I - 6 inches square with a 2 inch outlet connection size

Type II - 9 inches square with a 4 inch outlet connection

Part number: The commercial item description part number for the cast-iron floor drain shall be as follows:

AA52028 -

Type I or II

CID identification number

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and other data which may improve this document should be sent by letter to: Commander, U.S. Army Belvoir Research, Development and Engineering Center, ATTN: STRBE-TSE, Fort Belvoir, VA 22060-5606.

AMSC N/A

FSC 4510

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-52028

Outlet connections: All outlet connections shall be threaded and shall conform to American Standard Taper Pipe Threads for general use (NPT).

Openings in top grate: Openings may be any geometric shape. Openings shall be sized to exclude debris and accommodate the anticipated traffic.

Material: Gray iron castings shall conform to ASTM A 48, class 25.

Holes: Four holes for securing the grate to the body shall be provided and shall be countersunk in the grate. Four holes for securing the body to a wood structure shall be provided and shall be countersunk in the body. Countersinking shall be to a depth so that the tops of the screw heads are flush with the top of the grate and the top of the body. Threads in the body shall be in accordance with FED-STD-H28/7.

Screws: Four wood screws (No. 10, 1.5 inches long) and four machine screws (Flathead, No. 8, .625 inches long) shall be provided with each drain. All screws shall be brass. Threads shall be in accordance with FED-STD-H28/7.

Performance characteristics: The drain shall withstand an external, concentrated load of 2,000 pounds without breaking, cracking, or deforming.

Castings: All castings shall be free of extraneous material such as sand, dirt, pits, sprues, scale, and flux. Fins resulting from line-of-parting of sand molds shall be ground or machined flush with adjacent material. Imperfections in castings may be corrected by welding provided no degradation in strength or performance will result.

Certification: The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Regulatory requirements: The offeror/contractor is encouraged to use recovered materials in accordance with Publication 94-480 to the maximum extent practicable.

Packaging and marking: Military packaging shall be specified when shipments are to overseas Department of Defense (DOD) consignees. Commercial packaging may be specified for shipments to DOD consignees within the Continental United States and to non DOI) consignees worldwide. When a supplier's normal packaging will satisfy the requirements for military packaging, it may be used.

A-A-52028

Military packaging: The floor drains shall be preserved and packed to protect against physical damage and deterioration in a logistic environment characterized by the following:

1. Multiple handling during transportation and intransit storage.
2. Shock, vibration, and static loading forces during worldwide shipment by all transport modes.
3. Uncontrolled warehouse storage for extended periods,
4. Weather exposure during shipment and intransit transfers.
5. Stacking loads during shipment and storage.

Quantities of floor drains destined to a single addressee may be unitized into one or more unit loads, except only floor drains of like description shall be contained within the same container.

Commercial Packaging: Each floor drain shall be prepared and packaged in accordance with the supplier's normal method for retail distribution. Floor drains shipped to a single destination may be unitized to permit handling as a single unit. Shipping containers shall comply with Uniform Freight Classification or National Motor Freight Classification rules.

Marking for Shipping and Storage: Unit, intermediate (when provided), and exterior packs shall be marked with the item nomenclature, stock or part number, quantity per pack, and contract number as a minimum; additional marking shall be as specified in the contract or order. Exterior packs shall have in addition the complete consignee's address. Marking shall be applied in a legible manner, in contrasting color, of an appropriate size, and of waterproof materials.

Quality assurance : The cast iron floor drain shall be examined for the following defects. Presence of one or more defects shall be cause for rejection.

1. Design not as specified.
2. Types not as specified.
- 3, Outlet connections not as specified.
4. Openings in top grate not as specified.
5. Material not as specified.
6. Holes not as specified.
7. Screws not as specified.
8. Castings not as specified.
9. Packaging and marking not as specified.

Notes :

1. When the commercial item description is used for procurement, the commercial item certification and the small business clauses must - appear in the solicitation.
2. The ordering activity shall specify type required.

A-A-52028

3. FED-STD-H28/7 is available from the Standardization Document Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 1911--5094.
4. ASTM A 48 is available from ASTM, 1916 Race Street, Philadelphia, PA 19103.
5. The following is a list of potential suppliers:

Jay R. Smith Manufacturing Company
Post Office Box 3237
2781 Gunter Park Drive - East
Montgomery, Alabama 36109-1405

Zurn Industries, Inc.
One Zurn Place
Erie, Pennsylvania 16505

MILITARY INTERESTS:

Custodians:

Army - ME
Air Force - 99

Review activity:

Air Force - 84
DLA - CS

PREPARING ACTIVITY:

Army - ME
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