

PRODUCT COMPLIANCE

Zurn Floor Drains are constructed of high quality materials and, in general, are designed to meet the requirements of ASME Specification A112.6.3 (revision and redesignation of ANSI A112.21.1M). For an explanation of materials used, see Page 31.

TOP LOADING – CLASSIFICATION*

Selection of a Zurn Floor drain should be based on the load factor and the anticipated traffic. Many of Zurn's cast iron grates may be furnished in duresist iron when increased working load requirements are necessary. Specify duresist grate (-DG) when required or contact your Zurn representative when special applications are necessary. For a description of duresist iron, see Page 31.

Zurn drains are rated as follows: (Reference ASME Standard A112.6.3M)

6.1 Loading Classifications

Grates and top rims shall be designed to meet the following loading classifications.

6.1.1 – Light Duty All grates having safe live load (as calculated in para. 6.2.5) under 2000 lb. [900 kg].

6.1.2 – Medium Duty All grates having safe live load (as calculated in para. 6.2.5) between 2000 lb. [900 kg] and 4999 lb. [2250 kg].

6.1.3 – Heavy Duty All grates having safe live load (as calculated in para. 6.2.5) between 5000 lb. [2250 kg] and 7499 lb. [3375 kg].

6.1.4 – Extra Heavy Duty All grates having safe live load (as calculated in para. 6.2.5) between 7500 lb. [3375 kg] and 10,000 lb. [4500 kg].

6.1.5 – Special Duty Grates having safe live load (as calculated in para. 6.2.5) over 10,000 lb. [4500 kg] shall be considered special and treated accordingly.

6.2 Test Procedure for Grate Loading

Live Load – Requirements listed in 6.1 through 6.1.5 shall be determined as follows:

6.2.1 – Load Classifications Load classifications as stated in 6.1 shall be determined by laboratory tests.

6.2.2 – Platen Size A 3.5 in. [89 mm] diameter platen shall be applied to the center of the grate specimen.

6.2.3 – Loading Loading shall be applied slowly so that point of failure can be observed.

6.2.4 Point of Failure

(a) Brittle Materials (Cast Iron). The load (in pounds or kilograms) at which the first fracture on any part of the specimen appears.

(b) Ductile Material. The load which the permanent set (at the point of loading) is greater than 2% of the longest transverse dimension of the specimen.

6.2.5 – Grate Classification The maximum safe live load is computed by dividing the load at failure by two.

*Safe live load rating of grates is for general classification purposes only. For the actual load of any given grate, contact your Zurn representative. ZB and ZN 400 Series drain head assemblies are rated for light-duty applications only.

GENERAL INFORMATION

Zurn floor drains are generally made up of a body, combination frame/clamp collar and top grate. The assemblies shown at right illustrate the more common components utilized in floor drains.

Zurn floor drains are available in 2" through 10" outlet sizes with Inside Caulk, Threaded, No-Hub, and Neo-Loc connections. For an explanation of these outlets, see Page 5.

