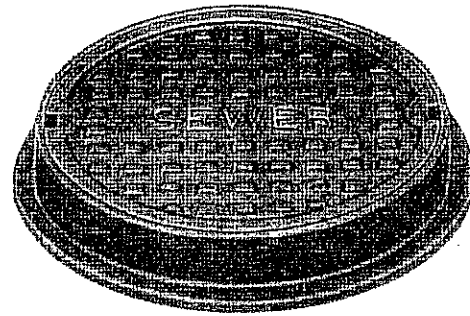
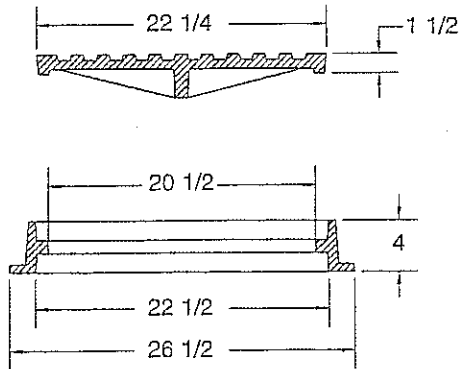


M105 CAST IRON RING AND COVER



COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
M	HEAVY DUTY	105	195
N	HEAVY DUTY	125	215
P	LIGHT DUTY	90	180
EN	HEAVY DUTY	105	195
MB	HEAVY DUTY	105	195

THIS RING ALSO AVAILABLE WITH:					
	GRATE	WATER TIGHT	"O" RING	DOUBLE COVER	SLAB DESIGN
USF NO.	3105	M COVER	M,N COVERS	-	1110
PG. NO.	93	79	83	-	60

GENERAL INFORMATION

SPECIFICATIONS CAST IRON CONSTRUCTION CASTINGS

- MATERIAL:** Casting materials conform to specification ASTM-A48 Class 30B, Gray Cast Iron, unless otherwise specified.
- APPEARANCE:** Castings are free from blowholes, shrinkage or other imperfections not true to pattern.
- MANUFACTURING:** Castings are manufactured with critical dimensions conforming to those specified on respective data sheets and drawings. Critical dimensions are defined as those that affect the load bearing capacity, interchangeability and drainage opening where applicable. Noncritical dimensions may change slightly to facilitate proper molding and casting technique. We reserve the right to make modifications to these products as required without notification.
- TOLERANCES:** Casting Tolerances, unless otherwise specified, are plus or minus 1/16 inch, and an additional plus or minus 1/16 inch per foot of dimension. Notwithstanding these tolerances, all frames, covers, grates and curb hoods of the same nominal size are interchangeable.
- MACHINING:** Bearing surfaces of circular heavy and medium duty manhole rings, covers and grates are machined to insure proper fit and prevent rattling.
- WEIGHTS:** Casting weights are approximate and shall be within plus or minus 5% of catalog published weight.
- PAINT:** Castings are supplied unpainted as a standard (See U.S. Foundry's No Paint Policy on page 13).
For special paint applications, contact our customer service department.

LOAD DESIGNATIONS

CLASSIFICATION	LOAD APPLICATIONS	PROOF LOAD TEST
→ HEAVY DUTY	Highway traffic loads or 16,000 lb. Wheel loads	25,000 lbs. * (Ref: Commercial Item Description A-A 60005)
MEDIUM DUTY	Driveways, parking lots, ramps and other similar applications where wheel loads do not exceed 12,000 lbs.	18,000 lbs *
LIGHT DUTY	Areas such as sidewalks, terraces and other areas which do not receive vehicular traffic.	1,000lbs *

* Proof load is applied over 9" x 9" area in center of the casting and held for one minute without failure or permanent deflection.


For special load requirements consult our sales or customer service representatives.

GENERAL INFORMATION CONT.

SPECIFICATIONS FOR STEEL PRODUCTS

- MATERIAL:** U.S. Foundry steel frame, cover and grate products are manufactured with ASTM A36 / A-572 structural steel and/or ASTM A569 (for riveted grates only) commercial quality sheet and strip unless otherwise specified.
- MANUFACTURING:** Our steel products are manufactured by highly skilled craftsmen using state of the art equipment and AWS welding procedures.
- TOLERANCES:** The tolerance for steel riveted grates is plus or minus 3/16 inch. When the width of a riveted grate is over 5'-0", the width tolerance is plus or minus 1/4 inch. All other steel fabricated products are to industry standards or plus or minus 1/16 inch, whichever is more stringent.
- WEIGHT:** Steel product weights are approximate and shall be within plus or minus 5% of the catalog published weight.
- FINISH:** Steel frames, covers and grates can be finished to meet your special requirements. Our standards include:
 1. Two (2) coats of water based black paint.
 2. Hot dipped galvanized. (Note: standard for Airport Products, unless otherwise specified).

LOAD DESIGNATIONS

CLASSIFICATION	DEFINITION
 H-20	AASHTO H-20 * wheel loads (16,000) Lbs. Over an 8" x 20" area with 30% impact factor)
NON-TRAFFIC	These products do not meet H-20 loads. All our standard products exceed 300PSF. Contact our office for the loading on specific products.
280 PSI	Pounds per square inch uniformly distributed over entire surface. (For severe loads such as airports and seaports.)

* Standard Specifications for Highway Bridges, Sixteenth Edition.
 For special load requirements consult our sales or customer service representatives.

SCULPTURED COVERS

U.S. Foundry's Sculptured Covers are a unique way for cities, counties, state, public and private utilities to define themselves and the popularity of these custom designs continues to grow. The Sculptured Covers usually have the municipality's logo, seal or unique feature that represents the community. U.S. Foundry has the skills and equipment to make any design a reality. You can see a number of unique designs throughout our "Cover Types" section, pages 18-23. Contact your sales or customer service representative for more information.

SPECIAL APPLICATIONS

WATER RESISTANT / WATERTIGHT APPLICATIONS:

Rainwater infiltration through sanitary sewer manholes continues to be of significant concern. We address these concerns by offering three ways to reduce this inflow. One, the O-Ring Seal application found on pages 82-84. Two, the Bolted Watertight applications found on pages 79-81. The O-Ring seal and Bolted Watertight applications are available on most ring and covers. Three, the "SSG" side seal gasket application offered on the following castings; #480, #574, #577, #579, #651, #652, #705, #710, #725 and #1330.