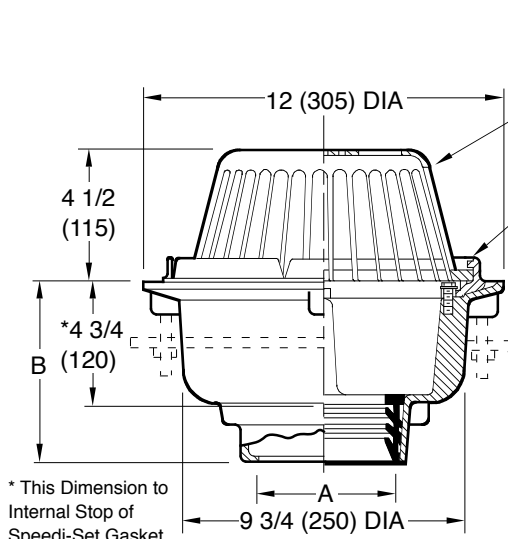
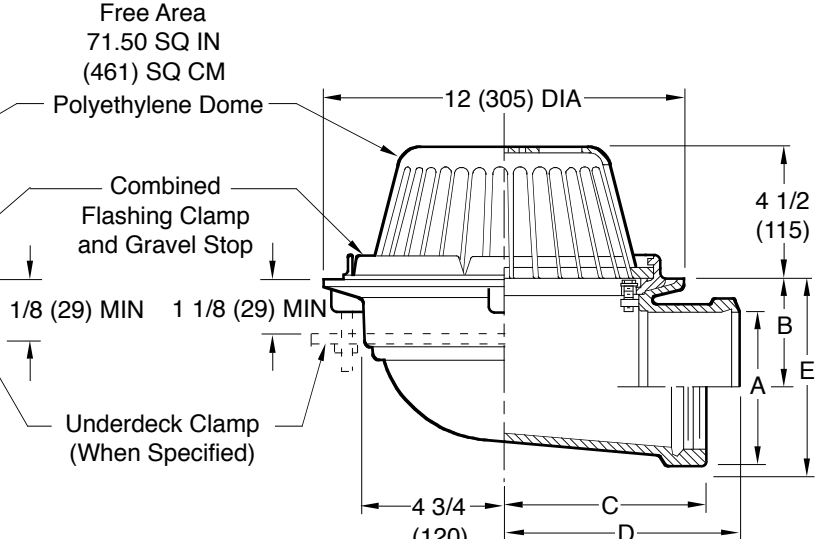


|        |                                                                      |                      |                |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
|--------|----------------------------------------------------------------------|----------------------|----------------|-----------------|--------------------|----------------------|------------------------------------|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|----------|----------|--|--|--|--|--------|---------|---------|----------|----------|----------|---|----------------------------------------------------------------------|--|--|--|--|--------|---------|---------|----------|---|-------------|---------|------------|---|---------|---------|---------|---|-------------|-------------|-------------|---|-------------|-------------|-------------|---|----------|----------------------|-----|----|------------------|----------------------|------------------------------------|---|---------|------------------|-----|----|---|---------|----------------|-----|----|---|---------|-------------------|-----|----|------|------|-------------|----|---------|--|--|--|
| J      | DRAWING NUMBER<br>S1310                                              | SIZE<br>A            | SCALE:<br>NONE | DATE:<br>5-6-85 | APPROVED BY:<br>TD | CHECKED BY:<br>TD    | DRAWN BY:<br>PJ                    | 1310, 1320 | FIGURE NUMBER | <div>SMITH® JAY R. SMITH MFG. CO.®<br/>MEMBER OF MORRIS GROUP INTERNATIONAL<br/>POST OFFICE BOX 3237<br/>MONTGOMERY, ALABAMA 36109-0237 (USA)<br/>TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com</div> <div></div> <div>CUSTOMER DRIVEN SINCE 1926</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LOCATION |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
|        |                                                                      |                      |                |                 |                    |                      |                                    |            |               | GENERAL PURPOSE ROOF DRAINS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
|        |                                                                      |                      |                |                 |                    |                      |                                    |            |               | 12" (305) DIAMETER - LOW PROFILE DOME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
|        |                                                                      |                      |                |                 |                    |                      |                                    |            |               | <p><b>FUNCTION:</b> Used in flat roofs of any construction where a medium sized drain is required. Flashing clamp holds flashing and roofing material without puncturing. Low profile dome protects sump and intercepts debris.</p> <div><div><div><div><input type="checkbox"/> Fig. 1310C . . . CAULK OUTLET</div><div><input type="checkbox"/> Fig. 1310Y . . . NO-HUB OUTLET</div></div></div><div><div><div><div><input type="checkbox"/> Fig. 1320C . . . CAULK OUTLET</div><div><input type="checkbox"/> Fig. 1320Y . . . NO-HUB OUTLET</div></div></div></div><div><div><table><tr><td>A SIZE</td><td>02 (50)</td><td>03 (75)</td><td>04 (100)</td><td>05 (125)</td><td>06 (150)</td></tr><tr><td>B</td><td colspan="5">6 (150) for Caulk, NO-HUB and Speedi-Set<br/>4 3/4 (120) for Threaded</td></tr></table><div>recommended deck opening<br/>with suffix -R 13 (330) DIA<br/>less Suffix -R 11 (280) DIA</div></div><div><table><tr><td>A SIZE</td><td>02 (50)</td><td>03 (75)</td><td>04 (100)</td></tr><tr><td>B</td><td>4 1/2 (115)</td><td>4 (100)</td><td>3 1/2 (89)</td></tr><tr><td>C</td><td>6 (150)</td><td>6 (150)</td><td>6 (150)</td></tr><tr><td>D</td><td>7 1/4 (185)</td><td>7 1/2 (190)</td><td>7 3/4 (195)</td></tr><tr><td>E</td><td>6 1/2 (165)</td><td>6 5/8 (168)</td><td>6 5/8 (168)</td></tr></table></div></div><div><div><p><b>REGULARLY FURNISHED:</b></p><p>Duco Cast Iron Body with Combined Flashing Clamp and Gravel Stop with Polyethylene Dome.</p></div><div><p><b>VARIATIONS:</b></p><div><input type="checkbox"/> Expansion Joint (Specify Fig. 1710 Fig. 1310 only)</div><div><input type="checkbox"/> Extension -E (Specify Height)</div><div><input type="checkbox"/> "L" Shaped Underdeck Clamp -CL</div><div><input type="checkbox"/> L Speedi-Set Service Weight<br/>02(50), 03(75) &amp; 04"(100) sizes only (Fig. 1310 only)</div><div><input type="checkbox"/> LXH Speedi-Set Extra Heavy<br/>02(50), 03(75) &amp; 04"(100) sizes only (Fig. 1310 only)</div><div><input type="checkbox"/> NO-HUB Adaptor (Specify Fig. 2646Y Fig. 1320 only)</div><div><input type="checkbox"/> Secondary Flashing Clamp -C2</div><div><input type="checkbox"/> 2" (51) Solid Water Dam -WD</div><div><input type="checkbox"/> Sump Receiver -R</div><div><input type="checkbox"/> Underdeck Clamp -C</div><div><input type="checkbox"/> Vandal Proof Dome -U</div><div><input type="checkbox"/> T Threaded Outlet</div></div><div><p><b>OPTIONAL MATERIALS:</b></p><div><input type="checkbox"/> Aluminum Dome -AD</div><div><input type="checkbox"/> Cast Iron Dome -CID</div><div><input type="checkbox"/> Galvanized Cast Iron Body &amp; Collar -G</div><div><input type="checkbox"/> Galvanized Cast Iron Dome -CIDG</div><div><input type="checkbox"/> Rough Bronze Dome -RBD</div></div></div><div><div><p><b>NOTE:</b> Stated flow rates for roof drains are based on particular test piping configurations and dimensions. Installed roof drain flow rates cannot be stated unless the attached piping configuration is known and the effects of the drainage calculated.</p></div><div><p><b>NOTE:</b> Dimensions shown in parentheses are in millimeters.</p></div></div><div><table><tr><td>J</td><td>11-12-15</td><td>Added Flow Rate Note</td><td>TBW</td><td>BW</td><td rowspan="4">WEIGHT<br/>POUNDS</td><td rowspan="4">VOLUME<br/>CUBIC FEET</td><td rowspan="4">FIGURE NUMBER<br/><b>1310, 1320</b></td></tr><tr><td>H</td><td>8-10-06</td><td>Added Fig. 1320Y</td><td>TBW</td><td>CL</td></tr><tr><td>G</td><td>5-26-99</td><td>Rev. Opt. Mat.</td><td>CMD</td><td>BS</td></tr><tr><td>F</td><td>6-13-95</td><td>Added Millimeters</td><td>EMB</td><td>BS</td></tr><tr><td>REV.</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td><td>CKD. BY</td><td></td><td></td><td></td></tr></table></div></div> |          |         |          |          |          |  |  |  |  | A SIZE | 02 (50) | 03 (75) | 04 (100) | 05 (125) | 06 (150) | B | 6 (150) for Caulk, NO-HUB and Speedi-Set<br>4 3/4 (120) for Threaded |  |  |  |  | A SIZE | 02 (50) | 03 (75) | 04 (100) | B | 4 1/2 (115) | 4 (100) | 3 1/2 (89) | C | 6 (150) | 6 (150) | 6 (150) | D | 7 1/4 (185) | 7 1/2 (190) | 7 3/4 (195) | E | 6 1/2 (165) | 6 5/8 (168) | 6 5/8 (168) | J | 11-12-15 | Added Flow Rate Note | TBW | BW | WEIGHT<br>POUNDS | VOLUME<br>CUBIC FEET | FIGURE NUMBER<br><b>1310, 1320</b> | H | 8-10-06 | Added Fig. 1320Y | TBW | CL | G | 5-26-99 | Rev. Opt. Mat. | CMD | BS | F | 6-13-95 | Added Millimeters | EMB | BS | REV. | DATE | DESCRIPTION | BY | CKD. BY |  |  |  |
|        |                                                                      |                      |                |                 |                    |                      |                                    |            |               | A SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 02 (50)  | 03 (75) | 04 (100) | 05 (125) | 06 (150) |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| B      | 6 (150) for Caulk, NO-HUB and Speedi-Set<br>4 3/4 (120) for Threaded |                      |                |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| A SIZE | 02 (50)                                                              | 03 (75)              | 04 (100)       |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| B      | 4 1/2 (115)                                                          | 4 (100)              | 3 1/2 (89)     |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| C      | 6 (150)                                                              | 6 (150)              | 6 (150)        |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| D      | 7 1/4 (185)                                                          | 7 1/2 (190)          | 7 3/4 (195)    |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| E      | 6 1/2 (165)                                                          | 6 5/8 (168)          | 6 5/8 (168)    |                 |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| J      | 11-12-15                                                             | Added Flow Rate Note | TBW            | BW              | WEIGHT<br>POUNDS   | VOLUME<br>CUBIC FEET | FIGURE NUMBER<br><b>1310, 1320</b> |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| H      | 8-10-06                                                              | Added Fig. 1320Y     | TBW            | CL              |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| G      | 5-26-99                                                              | Rev. Opt. Mat.       | CMD            | BS              |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| F      | 6-13-95                                                              | Added Millimeters    | EMB            | BS              |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |
| REV.   | DATE                                                                 | DESCRIPTION          | BY             | CKD. BY         |                    |                      |                                    |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |          |          |  |  |  |  |        |         |         |          |          |          |   |                                                                      |  |  |  |  |        |         |         |          |   |             |         |            |   |         |         |         |   |             |             |             |   |             |             |             |   |          |                      |     |    |                  |                      |                                    |   |         |                  |     |    |   |         |                |     |    |   |         |                   |     |    |      |      |             |    |         |  |  |  |

