

# Natural & Painted (1590 Series)

Diecast

*Countersunk lid with machine screws into drilled and tapped holes...*

*Vibra finished for a smooth surface with no sharp edges...*

*Nickel plated machine screws for superior corrosion protection...*

*Lap joint construction...*

*Low draft angle for easy P.C. board mounting...*

## OTHER KEY FEATURES

- Rugged, diecast aluminum alloy (tough yet easy to machine), electronic instrument enclosure.
- Lap joint construction provides protection against access of dust and splashing water. Also provides for improved EMI/RFI shielding.
- Painted version (shown below) is painted with tough polyester powder paint for a lasting finish, even after machining.
- Four (or 6 in 1590D, 1590DD & 1590E, 8 in 1590F) 6-32 x 1/2" machine screws secure lid - into tapped holes.
- Designed to meet IP54.
- Replacement screws for natural finish series, machine screw, nickel plated, 6-32 x 1/2" - **1590MS100** - Package of 100
- Replacement screws for black painted series, 6-32 x 1/2" - **1590MS50BK** - Package of 50
- Replacement screws for grey painted series, 6-32 x 1/2" - **1590MS50GY** - Package of 50

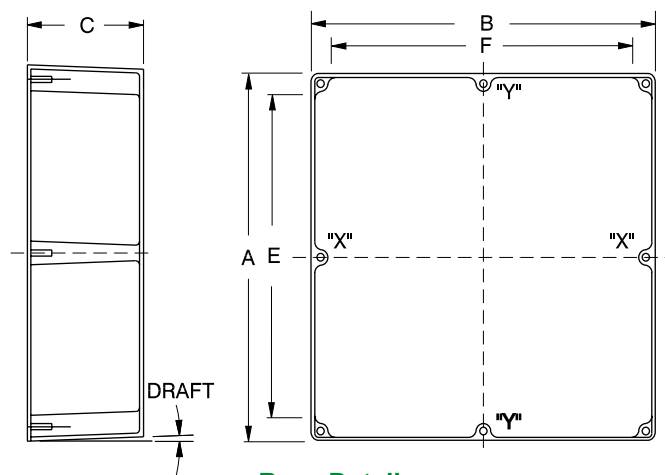
*Countersunk lid with machine screws into drilled and tapped holes...*

*Vibra finished for a smooth surface with no sharp edges, then painted with tough polyester powder paint...*

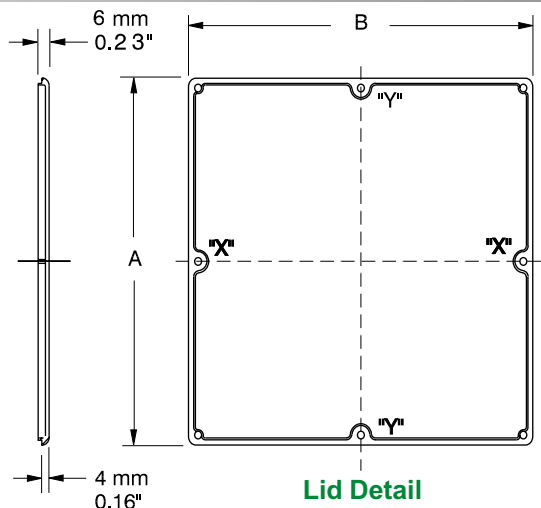
*Enclosure uses machine screws into drilled & tapped holes matched to enclosure color...*

*Lap joint construction - lip masked to ensure good EMI/RFI connection to base...*

# Natural & Painted (1590 Series)



Base Detail



Lid Detail

| Part Number |          |          | Units      | Dimensions    |               |               |               |               | Apx. Draft |
|-------------|----------|----------|------------|---------------|---------------|---------------|---------------|---------------|------------|
| Unpainted   | Black    | Grey     |            | A             | B             | C<br>(No Lid) | E             | F             |            |
| 1590LB      | 1590LBBK | 1590LBGY | inch<br>mm | 1.99<br>50.5  | 1.99<br>50.5  | 1.06<br>27    | 1.36<br>34.5  | 1.36<br>34.5  | 1°15'      |
| 1590H       | 1590HBK  | 1590HGY  | inch<br>mm | 2.07<br>52.5  | 1.50<br>38    | 1.06<br>27    | 1.41<br>35.9  | .86<br>21.8   | 1°15'      |
| 1590A       | 1590ABK  | 1590AGY  | inch<br>mm | 3.64<br>92.5  | 1.52<br>38.5  | 1.06<br>27    | 3.01<br>76.5  | .89<br>22.5   | 1°15'      |
| 1590G       | 1590GBK  | 1590GGY  | inch<br>mm | 3.94<br>100   | 1.97<br>50    | 0.83<br>21    | 3.31<br>84    | 1.34<br>34    | 1°15'      |
| 1590S       | 1590SBK  | 1590SGY  | inch<br>mm | 4.35<br>110.5 | 3.21<br>81.5  | 1.57<br>40    | 3.72<br>94.5  | 2.58<br>65.5  | 1°15'      |
| 1590B       | 1590BBK  | 1590BGY  | inch<br>mm | 4.39<br>111.5 | 2.34<br>59.5  | 1.06<br>27    | 3.76<br>95.5  | 1.71<br>43.5  | 1°15'      |
| 1590BB      | 1590BBBK | 1590BBGY | inch<br>mm | 4.67<br>118.5 | 3.68<br>93.5  | 1.18<br>30    | 4.04<br>102.5 | 3.05<br>77.5  | 1°15'      |
| 1590U       | 1590UBK  | 1590UGY  | inch<br>mm | 4.70<br>119.5 | 4.70<br>119.5 | 2.17<br>55    | 4.07<br>103.5 | 4.07<br>103.5 | 1°15'      |
| 1590V       | 1590VBK  | 1590VGY  | inch<br>mm | 4.70<br>119.5 | 4.70<br>119.5 | 3.54<br>90    | 4.07<br>103.5 | 4.07<br>103.5 | 1°15'      |
| 1590C       | 1590CBK  | 1590CGY  | inch<br>mm | 4.72<br>120   | 3.70<br>94    | 2.07<br>52.5  | 4.09<br>104   | 3.07<br>78    | 2°         |
| 1590T       | 1590TBK  | 1590TGY  | inch<br>mm | 4.74<br>120.5 | 3.13<br>79.5  | 2.17<br>55    | 4.11<br>104.5 | 2.50<br>63.5  | 1°15'      |
| 1590N1      | 1590N1BK | 1590N1GY | inch<br>mm | 4.77<br>121.1 | 2.60<br>66    | 1.39<br>35.3  | 4.09<br>103.8 | 1.92<br>48.7  | 1°15'      |
| 1590K       | 1590KBK  | 1590KGY  | inch<br>mm | 4.92<br>125   | 4.92<br>125   | 2.95<br>75    | 4.27<br>108.5 | 4.27<br>108.5 | 1°15'      |
| 1590J       | 1590JBK  | 1590JGY  | inch<br>mm | 5.71<br>145   | 3.74<br>95    | 1.77<br>45    | 5.06<br>128.5 | 3.09<br>78.5  | 2°         |
| 1590P1      | 1590P1BK | 1590P1GY | inch<br>mm | 6.01<br>153   | 3.24<br>82    | 1.81<br>46    | 5.38<br>137   | 2.48<br>63    | 2°         |
| 1590D       | 1590DBK  | 1590DGY  | inch<br>mm | 7.38<br>187.5 | 4.70<br>119.5 | 2.05<br>52    | 6.75<br>171.5 | 4.07<br>103.5 | 2°         |
| 1590E       | 1590EBK  | 1590EGY  | inch<br>mm | 7.38<br>187.5 | 4.70<br>119.5 | 3.07<br>78    | 6.75<br>171.5 | 4.07<br>103.5 | 2°         |
| 1590F       | 1590FBK  | 1590FGY  | inch<br>mm | 7.38<br>187.5 | 7.38<br>187.5 | 2.48<br>63    | 6.75<br>171.5 | 6.75<br>171.5 | 2°         |
| 1590DD      | 1590DDBK | 1590DDGY | inch<br>mm | 7.40<br>188   | 4.70<br>119.5 | 1.30<br>33    | 6.77<br>172   | 4.07<br>103.5 | 1°15'      |
| 1590R1      | 1590R1BK | 1590R1GY | inch<br>mm | 7.55<br>192   | 4.38<br>111   | 2.24<br>57    | 6.92<br>176   | 3.76<br>95.4  | 2°         |

**Notes:** Assembled height = dimension "C" + .16" (4.0 mm). Wall & lid thickness is roughly .08" (2 mm) and varies with draft due to part being cast. Posts "X" exist on parts 1590D, 1590DD & 1590E. Posts "X" & "Y" exist on part 1590F. For detailed drawings, CAD files or color photos visit our website at: [www.hammondmg.com](http://www.hammondmg.com)



Hammond Manufacturing Co. Ltd.  
394 Edinburgh Rd. North  
Guelph, Ontario N1H 1E5 CANADA  
Phone: 519-822-2960 Fax: 519-822-0715



Hammond Manufacturing Co. Inc.  
256 Sonwil Dr.  
Cheektowaga, NY 14225 USA  
Phone: 716-651-0086 Fax: 716-651-0726