## Application Engineering Data Product Specifications Part Number Index

Section H

### STANDARD WEIGHT STEEL PIPE

| Nomir<br>pipe si |          | Outsic<br>Diame |              | Insid<br>Diamo | 1            | Plair        | nal Wgt.<br>n End<br>t. (30.5m) | Weight of<br>Filled Wit<br>Per 100 ft | h Water      | Eliminate P            | m Pitch to<br>ockets Caused<br>eflection <1> |
|------------------|----------|-----------------|--------------|----------------|--------------|--------------|---------------------------------|---------------------------------------|--------------|------------------------|--|
| In               | mm       | In.             | mm           | ln.            | mm           | Lbs.         | Kg.                             | Lbs.                                  | Kg.          | In./Ft.                | mm / M                                       |
| 3/8"<br>1/2"     | 10<br>13 | 0.675<br>0.840  | 17.1<br>21.3 | 0.493<br>0.622 | 12.5<br>15.8 | 57.0<br>86.0 | 25.9<br>39.0                    | 99.2                                  | 29.6<br>45.0 | 1" in 10'<br>1" in 20' | 25.4 in 3.05<br>25.4 in 6.10                 |
| 3/4"             | 19       | 1.050           | 26.7         | 0.824          | 20.9         | I .          | 51.8                            | 137.2                                 | 62.3         | 1" in 30'              | 25.4 in 9.15                                 |
| 1"               | 25       | 1.315           | 33.4         | 1.049          | 26.6         | 168.0        | 76.3                            | 205.5                                 | 93.3         |                        | 25.4 in 12.2                                 |
| 1-1/4"           | 32       | 1.660           | 42.2         | 1.380          | 35.1         | l .          | 103.5                           | 292.9                                 | 133.0        |                        | 25.4 in 12.2                                 |
| 1-1/2"           | 38       | 1.900           | 48.3         | 1.610          | 40.9         | 272.0        | 123.5                           | 1                                     | 163.5        | 3                      | 25.4 in 12.2                                 |
| 2"               | 51       | 2.375           | 60.3         | 2.067          | 52.5         | 366.0        | 166.2                           | 511.4                                 | 232.2        | li .                   | 25.4 in 12.2                                 |
| 2-1/2"           | 64       | 2.875           | 73.0         | 2.469          | 62.7         |              |                                 |                                       | 357.4        | l .                    | 25.4 in 12.2                                 |
| 3"               | 76       | 3.500           | 88.9         | 3.068          | 77.9         | 758.0        | 344.1                           | 1078.1                                | 489.5        | 1" in 40'              | 25.4 in 12.2                                 |
| 3-1/2"           | 89       | 4.000           | 101.6        | 3.548          | 90.1         | 911.0        | 413.6                           | 1339.7                                | 608.2        | ll .                   | 25.4 in 12.2                                 |
| 4"               | 102      | 4.500           | 114.3        | 4.026          | 102.3        | 1080.0       | 490.3                           | 1631.6                                | 740.7        | 1" in 40'              | 25.4 in 12.2                                 |
| 5"               | 127      | 5.563           | 141.3        | 5.047          | 128.2        | 1470.0       | 667.4                           | 2337.4                                | 1061.2       | 1" in 40'              | 25.4 in 12.2                                 |
| 6"               | 152      | 6.625           | 168.3        | 6.065          | 154.1        | 1900.0       | 862.6                           | 3152.0                                | 1431.0       | 1" in 40'              | 25.4 in 12.2                                 |
| 8"               | 203      | 8.625           | 219.1        | 7.981          | 202.7        | 2860.0       | 1298.4                          | 5028.0                                | 2282.7       | ll.                    | 25.4 in 12.2                                 |
| 10"              | 254      | 10.750          | 273.1        | 10.020         | 254.5        | 4050.0       | 1838.7                          | 7466.0                                | 3389.6       | 1" in 40'              | 25.4 in 12.2                                 |
| 12"              | 305      | 12.750          | 323.9        | 12.000         | 304.8        | 4956.0       | 2250.0                          | 9856.0                                | 4474.6       |                        |  |
| 14"              | 356      | 14.000          | 355.6        | 13.250         | 336.6        | 5457.0       | 2477.5                          | 11429.0                               | 5188.8       |                        |  |
| 16"              | 406      | 16.000          | 406.4        | 15.250         | 387.4        | 6258.0       | 2841.1                          | 14170.0                               | 6433.2       |                        |  |
| 18"              | 457      | 18.000          | 457.2        | 17.250         | 438.2        | 7060.0       | 3205.2                          | 17182.0                               | 7800.6       |                        |  |
| 20"              | 508      | 20.000          | 508.0        | 19.250         | 489.0        | 7860.0       | 3568.4                          | 20460.0                               | 9288.8       |                        |  |
| 24"              | 610      | 24.000          | 609.6        | 23.250         | 590.6        | 9463.0       | 4296.2                          | 27842.0                               | 12640.3      |                        |  |

A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS.

### **SCHEDULE 40 PIPE**

| Nomir<br>pipe si | - 11     | Outsic<br>Diamet | 1            | Insid<br>Diamo | £            |              | al Wgt.<br>n End<br>t. (30.5m) | Weight of<br>Filled Wit<br>Per 100 ft | h Water      | Eliminate P | m Pitch to<br>ockets Caused<br>eflection <1> |
|------------------|----------|------------------|--------------|----------------|--------------|--------------|--------------------------------|---------------------------------------|--------------|-------------|--|
| In               | mm       | In.              | mm           | ln.            | mm           | Lbs.         | Kg.                            | Lbs.                                  | Kg.          | In./Ft.     | mm / M                                       |
| 3/8"<br>1/2"     | 10<br>13 | 0.675<br>0.840   | 17.1<br>21.3 | 0.493<br>0.622 | 12.5<br>15.8 | 57.0<br>86.0 | 25.9<br>39.0                   | 65.3<br>99.2                          | 29.6<br>45.0 |             | 25.4 in 3.05<br>25.4 in 6.10                 |
| 3/4"             | 19       | 1.050            | 26.7         | 0.824          | 20.9         | 114.0        | 51.8                           | 137.2                                 | 62.3         | 1" in 30'   | 25.4 in 9.15                                 |
| 1"               | 25       | 1.315            | 33.4         | 1.049          | 26.6         | 168.0        | 76.3                           | 205.5                                 | 93.3         | 1" in 40'   | 25.4 in 12.2                                 |
| 1-1/4"           | 32       | 1.660            | 42.2         | 1.380          | 35.1         | 228.0        | 103.5                          | 292.9                                 | 133.0        | 1" in 40'   | 25.4 in 12.2                                 |
| 1-1/2"           | 38       | 1.900            | 48.3         | 1.610          | 40.9         | 272.0        | 123.5                          | 360.2                                 | 163.5        | 1" in 40'   | 25.4 in 12.2                                 |
| 2"               | 51       | 2.375            | 60.3         | 2.067          | 52.5         | 366.0        | 166.2                          | 511.4                                 | 232.2        | 1" in 40'   | 25.4 in 12.2                                 |
| 2-1/2"           | 64       | 2.875            | 73.0         | 2.469          | 62.7         | 580.0        | 263.3                          | 787.3                                 | 357.4        | 1" in 40'   | 25.4 in 12.2                                 |
| 3"               | 76       | 3.500            | 88.9         | 3.068          | 77.9         | 758.0        | 344.1                          | 1078.1                                | 489.5        | 1" in 40'   | 25.4 in 12.2                                 |
| 3-1/2"           | 89       | 4.000            | 101.6        | 3.548          | 90.1         | 911.0        | 413.6                          | 1339.7                                | 608.2        | 1" in 40'   | 25.4 in 12.2                                 |
| 4"               | 102      | 4.500            | 114.3        | 4.026          | 102.3        | 1080.0       | 490.3                          | 1631.6                                | 740.7        | 1" in 40'   | 25.4 in 12.2                                 |
| 5"               | 127      | 5.563            | 141.3        | 5.047          | 128.2        | 1470.0       | 667.4                          | 2337.4                                | 1061.2       | 1" in 40'   | 25.4 in 12.2                                 |
| 6"               | 152      | 6.625            | 168.3        | 6.065          | 154.1        | 1900.0       | 862.6                          | 3152.0                                | 1431.0       | 1" in 40'   | 25.4 in 12.2                                 |
| 8"               | 203      | 8.625            | 219.1        | 7.981          | 202.7        | 2860.0       | 1298.4                         | 5028.0                                | 2282.7       | 1" in 40'   | 25.4 in 12.2                                 |
| 10"              | 254      | 10.750           | 273.1        | 10.020         | 254.5        | 4050.0       | 1838.7                         | 7466.0                                | 3389.6       | 1" in 40'   | 25.4 in 12.2                                 |
| 12"              | 305      | 12.750           | 323.9        | 11.938         | 303.2        | 5360.0       | 2433.4                         | 10210.0                               | 4635.3       |             |  |
| 14"              | 356      | 14.000           | 355.6        | 13.126         | 333.4        | 6330.0       | 2873.8                         | 12199.0                               | 5538.3       |             |  |
| 16"              | 406      | 16.000           | 406.4        | 15.000         | 381.0        | 8280.0       | 3759.1                         | 15932.0                               | 7233.1       |             |  |
| 18"              | 457      | 18.000           | 457.2        | 16.876         | 428.7        | 10500.0      | 4767.0                         | 20200.0                               | 9170.8       |             |  |
| 20"              | 508      | 20.000           | 508.0        | 18.814         | 477.9        | 12300.0      | 5584.2                         | 24344.0                               | 11052.2      |             |  |
| 24"              | 610      | 24.000           | 609.6        | 22.626         | 574.7        | 17100.0      | 7763.4                         | 34530.0                               | 15676.6      |             |  |

A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS.

<sup>&</sup>lt;1> Figures are related to sag of filled pipe when supports are located on 10' (3.05M) centers.

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# VERSABAR CORPORATION ENGINEERING DATA - PIPE

## **EXTRA STRONG PIPE**

| Nomin<br>pipe si |          | Outsid<br>Diamet | ı            | Insid<br>Diamo | 1            |               | al Wgt.<br>n End<br>t. (30.5m) | Weight of<br>Filled Wit<br>Per 100 ft | h Water       | Eliminate P            | m Pitch to<br>ockets Caused<br>eflection <1> |
|------------------|----------|------------------|--------------|----------------|--------------|---------------|--------------------------------|---------------------------------------|---------------|------------------------|--|
| In               | mm       | In.              | mm           | In.            | mm           | Lbs.          | Kg.                            | Lbs.                                  | Kg.           | In./Ft.                | mm / M                                       |
| 3/8"<br>1/2"     | 10<br>13 | 0.675<br>0.840   | 17.1<br>21.3 | 0.423<br>0.546 | 10.7<br>13.9 | 74.1<br>109.2 | 33.6<br>49.6                   | 80.2<br>119.3                         | 36.4<br>54.2  | 1" in 10'<br>1" in 20' | 25.4 in 3.05<br>25.4 in 6.10                 |
| 3/4"             | 19       | 1.050            | 26.7         | 0.742          | 18.8         | 148.0         | 67.2                           | 166.8                                 | 75.7          | 1" in 30'              | 25.4 in 9.15                                 |
| 1"               | 25       | 1.315            | 33.4         |                | 24.3         | 217.0         | 98.5                           | 248.1                                 | 112.6         | 1" in 40'              | 25.4 in 12.2                                 |
| 1-1/4"           | 32       | 1.660            | 42.2         | 1.278          | 32.5         |               | 136.2                          | 355.5                                 | 161.4         |                        | 25.4 in 12.2                                 |
| 1-1/2"           | 38       | 1.900            | 48.3         | 1.500          | 38.1         | l .           | 165.0                          | 440.0                                 | 199.8         | 1" in 40'              | 25.4 in 12.2                                 |
| 2"               | 51       | 2.375            | 60.3         | 1.939          | 49.3         |               | 228.4                          | 630.9                                 | 286.4         | 1" in 40'              | 25.4 in 12.2                                 |
| 2-1/2"           | 64       | 2.875            | 73.0         | 2.323          | 59.0         | 766.0         | 347.8                          | 949.4                                 | 431.0         | 1" in 40'              | 25.4 in 12.2                                 |
| 3"               | 76       | 3.500            | 88.9         | 2.900          | 73.7         | 1030.0        | 467.6                          | 1315.9                                | 597. <i>4</i> | 1" in 40'              | 25.4 in 12.2                                 |
| 3-1/2"           | 89       | 4.000            | 101.6        | 3.364          | 85.4         | 1250.0        | 567.5                          | 1634.7                                | 742.2         | 1" in 40'              | 25.4 in 12.2                                 |
| 4"               | 102      | 4.500            | 114.3        | 3.826          | 97.2         | 1500.0        | 681.0                          | 1997.6                                | 906.9         | 1" in 40'              | 25.4 in 12.2                                 |
| 5"               | 127      | 5.563            | 141.3        | 4.813          | 122.3        | 2080.0        | 944.3                          | 2867.5                                | 1301.8        | 1" in 40'              | 25.4 in 12.2                                 |
| 6"               | 152      | 6.625            | 168.3        | 5.761          | 146.3        | 2860.0        | 1298.4                         | 3989.0                                | 1811.0        | 1" in 40'              | 25.4 in 12.2                                 |
| 8"               | 203      | 8.625            | 219.1        | 7.625          | 193.7        | 4340.0        | 1970.4                         | 6319.0                                | 2868.8        | 1" in 40'              | 25.4 in 12.2                                 |
| 10"              | 254      | 10.750           | 273.1        | 9.750          | 247.7        | 5475.0        | 2485.7                         | 8705.0                                | 3952.1        |                        |  |
| 12"              | 305      | 12.750           | 323.9        | 11.750         | 298.5        | 6541.0        | 2969.6                         | 11243.0                               | 5104.3        |                        |  |
| 14"              | 356      | 14.000           | 355.6        | 13.000         | 330.2        | 7210.0        | 3273.3                         | 12960.0                               | 5883.8        |                        | :  |
| 16"              | 406      | 16.000           | 406.4        | 15.000         | 381.0        | 1             | 3759.1                         | 15930.0                               | 7232.2        |                        |  |
| 18"              | 457      | 18.000           | 457.2        | 17.000         | 431.8        |               |                                | 4                                     | 8710.9        |                        |  |
| 20"              | 508      | 20.000           | 508.0        | 19.000         | 482.6        | 1             | 4727.0                         |                                       | 10303.1       |                        |  |
| 24"              | 610      | 24.000           | 609.6        | 23.000         | 584.2        | 12549.0       | 5697.2                         | 30560.0                               | 13874.2       |                        |  |

A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS.

### **SCHEDULE 80 PIPE**

| Nomir<br>pipe si | l l      | Outsid<br>Diame | 1            | Inside<br>Diameter |              | Nominal Wgt.<br>Plain End<br>Per 100 ft. (30.5m) |              | Weight of Filled With Per 100 ft. | h Water<br>(30.5m) | Minimum Pitch to<br>Eliminate Pockets Caused<br>By Deflection <1> |                              |
|------------------|----------|-----------------|--------------|--------------------|--------------|--|--------------|-----------------------------------|--------------------|---|------------------------------|
| In               | mm       | ln.             | mm           | In.                | mm           | Lbs.   | Kg.          | Lbs.                              | Kg.                | In./Ft.   | mm / M                       |
| 3/8"<br>1/2"     | 10<br>13 | 0.675<br>0.840  | 17.1<br>21.3 |                    | 10.7<br>13.9 | 74.1<br>109.2                                    | 33.6<br>49.6 |                                   | 36.4<br>54.2       | 1" in 10'<br>1" in 20'  | 25.4 in 3.05<br>25.4 in 6.10 |
| 3/4"             | 19       | 1.050           | 26.7         | 0.742              | 18.8         | 148.0  | 67.2         |                                   | <i>75.7</i>        | 1" in 30'   | 25.4 in 9.15                 |
| 1"               | 25       | 1.315           | 33.4         | 0.957              | 24.3         | 217.0  | 98.5         | 248.1                             | 112.6              | 1" in 40'   | 25.4 in 12.2                 |
| 1-1/4"           | 32       | 1.660           | 42.2         | 1.278              | 32.5         | 300.0  | 136.2        | 355.5                             | 161.4              | 1" in 40'   | 25.4 in 12.2                 |
| 1-1/2"           | 38       | 1.900           | 48.3         | 1.500              | 38.1         | 363.5  | 165.0        | 440.0                             | 199.8              | 1" in 40'   | 25.4 in 12.2                 |
| 2"               | 51       | 2.375           | 60.3         | 1.939              | 49.3         | 503.0  | 228.4        | 630.9                             | 286.4              | 1" in 40'   | 25.4 in 12.2                 |
| 2-1/2"           | 64       | 2.875           | 73.0         | 2.323              | 59.0         | 766.0  | 347.8        | 949.4                             | 431.0              | 1" in 40'   | 25.4 in 12.2                 |
| 3"               | 76       | 3.500           | 88.9         | 2.900              | 73.7         | 1030.0   | 467.6        | 1315.9                            | 597. <i>4</i>      | 1" in 40'   | 25.4 in 12.2                 |
| 3-1/2"           | 89       | 4.000           | 101.6        | 3.364              | 85.4         | 1250.0   | 567.5        | 1634.7                            | 742.2              | H   | 25.4 in 12.2                 |
| 4"               | 102      | 4.500           | . 114.3      | 3.826              | 97.2         | 1500.0   | 681.0        | 1997.6                            | 906.9              | 1   | 25.4 in 12.2                 |
| 5"               | 127      | 5.563           | 141.3        | 4.813              | 122.3        | 2080.0   | 944.3        | 2867.5                            | 1301.8             | lt.   | 25.4 in 12.2                 |
| 6"               | 152      | 6.625           | 168.3        | 5.761              | 146.3        | 2860.0   | 1298.4       | 3989.0                            | 1811.0             | lł .  | 25.4 in 12.2                 |
| 8"               | 203      | 8.625           | 219.1        | 7.625              | 193.7        |  | 1970.4       | 6319.0                            | 2868.8             |   | 25.4 in 12.2                 |
| 10"              | 254      | 10.750          | 273.1        | 9.564              | 242.9        | 6435.0   | 2921.5       | 9545.0                            | 4333.4             | l!  |                              |
| 12"              | 305      | 12.750          | 323.9        | 11.376             | 289.0        | 8858.0   | 4021.5       | 13260.0                           | 6020.0             |   |                              |
| 14"              | 356      | 14.000          | 355.6        | 12.500             | 317.5        | 10616.0  | 4819.7       | 15934.0                           | 7234.0             |   |                              |
| 16"              | 406      | 16.000          | 406.4        | 14.314             | 363.6        | 13703.0  | 6221.2       | 20676.0                           | 9386.9             |   |                              |
| 18"              | 457      | 18.000          | 457.2        | 16.126             | 409.6        | 17069.0  | 7749.3       | 25919.0                           | 11767.2            |   |                              |
| 20"              | 508      | 20.000          | 508.0        | 17.938             | 455.6        | 1  | 9484.1       | 31839.0                           | 14454.9            | II  |                              |
| 24"              | 610      | 24.000          | 609.6        | 21.564             | 547.7        | 29642.0  | 13457.5      | 45468.0                           | 20642.5            |   |                              |

A.S.A. B36.10 SCHEDULE NOS. AND NOMINAL WALL THICKNESS DESIGNATIONS.

<sup>&</sup>lt;1> Figures are related to sag of filled pipe when supports are located on 10' (3.05M) centers.

<sup>&</sup>lt;1> Figures are related to sag of filled pipe when supports are located on 10' (3.05M) centers.

#### **RIGID STEEL CONDUIT**

| Nominal<br>Conduit Size |     | Outside<br>Diameter |       | Inside<br>Diameter |       | Outside<br>Diameter<br>Of Couplings |       | Weight of<br>Conduit Per<br>100 Ft (30.5m) |       | Maximum Weight of Conduit and Conductor In Lbs. Per 100 Ft (30.5m) <2> Lead Covered Not Lead Covered |        |        |        |
|-------------------------|-----|---------------------|-------|--------------------|-------|-------------------------------------|-------|--|-------|--|--------|--------|--------|
| In                      | mm  | ln.                 | mm    | ln.                | mm    | ln.                                 | mm    | Lbs.                                       | kg.   | Lbs.   | kg.    | Lbs.   | kg.    |
| 1/2"                    | 15  | 0.840               | 21.3  | 0.622              | 15.8  | 1.063                               | 27.0  | 85   | 38.6  | 117.2  | 53.2   | 104.2  | 47.3   |
| 3/4"                    | 20  | 1.050               | 26.7  | 0.824              | 20.9  | 1.297                               | 32.9  | 113  | 51.3  | 175.4  | 79.6   | 139.8  | 63.5   |
| 1"                      | 25  | 1.315               | 33.4  | 1.049              | 26.6  | 1.563                               | 39.7  | 168  | 76.3  | 261.4  | 118.7  | 234.7  | 106.6  |
| 1-1/4"                  | 32  | 1.660               | 42.2  | 1.380              | 35.1  | 1.969                               | 50.0  | 228  | 103.5 | 431.1  | 195.7  | 358.1  | 162.6  |
| 1-1/2"                  | 40  | 1.900               | 48.3  | 1.610              | 40.9  | 2.234                               | 56.7  | 273  | 123.9 | 589.1  | 267.5  | 454.6  | 206.4  |
| 2"                      | 50  | 2.375               | 60.3  | 2.067              | 52.5  | 2.719                               | 69.1  | 368  | 167.1 | 852.8  | 387.2  | 720.8  | 327.2  |
| 2-1/2"                  | 65  | 2.875               | 73.0  | 2.469              | 62.7  | 3.313                               | 84.2  | 582  | 264.2 | 1150.9   | 522.5  | 1021.9 | 463.9  |
| 3"                      | 80  | 3.500               | 88.9  | 3.068              | 77.9  | 3.938                               | 100.0 | 762  | 345.9 | 1650.6   | 749.4  | 1450.6 | 658.6  |
| 3-1/2"                  | 90  | 4.000               | 101.6 | 3.548              | 90.1  | 4.438                               | 112.7 | 920  | 417.7 | 1905.2   | 865.0  | 1749.1 | 794.1  |
| 4"                      | 100 | 4.500               | 114.3 | 4.026              | 102.3 | 4.938                               | 125.4 | 1089                                       | 494.4 | 2474.9   | 1123.6 | 2147.9 | 975.1  |
| 5"                      | 125 | 5.563               | 141.3 | 5.047              | 128.2 | 6.296                               | 159.9 | 1481                                       | 672.4 | 3587.0   | 1628.5 | 3083.0 | 1399.7 |
| 6"                      | 150 | 6.625               | 168.3 | 6.065              | 154.1 | 7.358                               | 186.9 | 1919                                       | 871.2 | 5068.5   | 2301.1 | 4342.5 | 1971.5 |

## **INTERMEDIATE METAL CONDUIT (IMC)**

| Nominal<br>Conduit Size  |   | Outside<br>Diameter              |  | Nominal<br>Inside<br>Diameter                      |   | Wt./100 Ft.<br>with cou<br>attach            | plings  | Weight of Conduit<br>and Conductors per<br>100 LF (30.5m) <2> |   |  |
|--|---|----------------------------------|--|--|---|--|---|---|---|--|
| In   | mm  | ln.                              | .mm  | In.  | mm  | Lbs.   | kg.   | Lbs.  | kg.   |  |
| 1/2"<br>3/4"<br>1"<br>1-1/4"<br>1-1/2"<br>2"<br>2-1/2"<br>3"<br>3-1/2" | 15<br>20<br>25<br>32<br>40<br>50<br>65<br>80<br>90<br>100 | 2.360<br>2.857<br>3.476<br>3.971 | 20.7<br>26.1<br>32.8<br>41.6<br>47.8<br>59.9<br>72.6<br>88.3<br>100.9<br>113.4 | 1.553<br>1.793<br>2.266<br>2.727<br>3.346<br>3.841 | 18.9<br>24.2<br>30.6<br>39.4<br>45.5<br>57.6<br>69.3<br>85.0<br>97.6<br>110.1 | 82<br>116<br>150<br>182<br>242<br>401<br>443 | 27.2<br>37.2<br>52.7<br>68.1<br>82.6<br>109.9<br>182.1<br>201.1<br>260.1<br>289.7 | 122.8<br>182.3<br>267.3<br>341.8                              | 37.3<br>55.8<br>82.8<br>121.4<br>155.2<br>228.7<br>351.9<br>485.3<br>611.1<br>740.9 |  |

### **TABLE 346-12**

| Conduit Size   | Maximum<br>Support<br>Span |
|----------------|----------------------------|
| 1/2 to 3/4     | 10 feet                    |
| 1              | 12 feet                    |
| 1-1/4 to 1-1/2 | 14 feet                    |
| 2 to 2-1/2     | 16 feet                    |
| 3 and over     | 20 feet                    |
| (15 to 20)     | (3.05)                     |
| (25)           | (3.66)                     |
| (32 to 40)     | (4.27)                     |
| (50 to 65)     | (4.88)                     |
| (80 to 150)    | (6.10)                     |

## **ELECTRICAL METALLIC TUBING (EMT) - THIN WALL**

| Nominal<br>Tubing Size     |                      | Outs<br>Diam<br>Of Tu            | eter                         | Minimum<br>Wall<br>Thickness |                                  | Inside<br>Diameter |                              | Weight Of<br>Tubing Per<br>100 LF (30.5m) |                              |
|----------------------------|----------------------|----------------------------------|------------------------------|------------------------------|----------------------------------|--------------------|------------------------------|---|------------------------------|
| In                         | mm                   | ln.                              | mm                           | ln.                          | mm                               | In                 | mm                           | Lbs.                                      | kg.                          |
| 3/8"<br>1/2"<br>3/4"<br>1" | 10<br>15<br>20<br>25 | 0.577<br>0.706<br>0.922<br>1.163 | 14.7<br>17.9<br>23.4<br>29.5 | 0.040<br>0.046               | 1.016<br>1.016<br>1.168<br>1.372 | 0.626<br>0.830     | 12.6<br>15.9<br>21.1<br>26.8 | 32.1<br>48.8                              | 11.8<br>14.6<br>22.2<br>32.3 |
| 1-1/4"                     | 32                   | 1.510                            | 38.4                         | 0.061                        | 1.549                            | 1.388              | 35.3                         | 98.5                                      | 44.7                         |
| 1-1/2"                     | 40                   | 1.740                            | 44.2                         | 0.061                        | 1.549                            | 1.618              | 41.1                         | 114.1                                     | 51.8                         |
| 2"                         | 50                   | 2.197                            | 55.8                         |                              | 1.549                            |                    | 52.7                         |   | 66.7                         |

<sup>&</sup>lt;2> Maximum weight equals weight of conduit plus weight of heaviest conductor combination as specified by the Natlional Electrical Code Handbook.

Rigid, IMC and EMT shall be supported at least every 10 feet (3.05m) and within 3 feet (914m) of each outlet box, junction box, cabinet or fitting. (Exception:) Straight runs of conduit connected with threaded couplings which may be supported in accordance with the N.E.C. Articles 345 and 346, provided such supports prevent transmission of stresses to termination where conduit is deflected between supports. (See table 346-12 above)

#### MAXIMUM SPACING BETWEEN PIPE SUPPORTS

| Nominal Pipe<br>Size                                     | Maximum  | Maximum Span   |         | Nominal Pipe<br>Size                         | Maximum Span                                 |  |  |
|--|--|--|---------|--|--|--|--|
| In   | Ft.  | m  | (cont.) | ln   | Ft.  | m  |  |
| 1"<br>1-1/2"<br>2"<br>2-1/2"<br>3"<br>3-1/2"<br>4"<br>5" | 7<br>9<br>10<br>11<br>12<br>13<br>14<br>16<br>17 | 2.14<br>2.75<br>3.05<br>3.36<br>3.66<br>3.97<br>4.27<br>4.88<br>5.19 |         | 8"<br>10"<br>12"<br>14"<br>16"<br>18"<br>20" | 19<br>22<br>23<br>25<br>27<br>28<br>30<br>32 | 5.80<br>6.71<br>7.02<br>7.63<br>8.24<br>8.54<br>9.15<br>9.76 |  |

## LOAD CARRYING CAPACITY OF THREADED ROD CONFORMING TO ASTM A575 and A576

| Nominal Rod<br>Diameter  | Root A  | Area  | Maximum<br>@ Tempe<br>650 Deg I  | erature<br>F (343 C)  |  |  |
|--|---|---|--|---|--|--|
| . In   | In  | mm  | Lbs.   | kN  |  |  |
| 3/8"<br>1/2"<br>5/8"<br>3/4"<br>7/8"<br>1"<br>1-1/8"<br>1-1/4"<br>1-1/2"<br>1-3/4" | 0.068<br>0.126<br>0.202<br>0.302<br>0.419<br>0.552<br>0.693<br>0.889<br>1.293<br>1.714<br>2.292 | 43.9<br>81.3<br>130.4<br>195.0<br>270.5<br>356.4<br>447.4<br>573.9<br>834.7<br>1106.5<br>1479.7 | 610<br>1130<br>1810<br>2710<br>3770<br>4960<br>6230<br>8000<br>11630<br>15690<br>20690 | 2.7<br>5.0<br>8.0<br>12.0<br>16.7<br>22.0<br>27.6<br>35.4<br>51.5<br>69.5<br>91.6 |  |  |

A.S.A. B31.1-1973

#### Note:

All piping systems shall have adequate hangers, supports, guides, anchors and sway braces which are designed in compliance with the requirements of the CODE FOR PRESSURE PIPING, ASA31.1. The connecting equipment shall be allowed to carry part of the weight within the limits outlined by the equipment manufacturer.

All installations shall be in compliance with current state and local code restrictions. **State and local codes take precedence over any information found in this catalog.** 

#### **GENERAL**

Strut system components for this project shall be VERSABAR or approved equal having the following characteristics: Manufacturer of said components will have a minimum of ten years experience in manufacturing strut systems. Steel channel shall be cold roll-formed to design dimensional tolerances of plus or minus .010" (.254mm) (Exclusive of finish and stock thickness variations allowed in applicable ASTM specifications cited below). No interior corner radius of the "channel items" shall exceed 1/32" (.794mm). Edges of the strip used to roll-form channels shall have been squared during the slitting process so that inturned, nut supporting lips of the channel will allow full, double edged engagement with the shear cutting teeth located in both serrations of the lateral locking nut. Pyramidal or other lip edge configurations which preclude the double edged engagement at both nut serrations will not be permitted. Utilization of 1/4" (6.35mm) thick framing fittings, mounted at the channel slot, and fastened with 1/2" thick lateral locking nuts\*, shall enable 12 ga. channels to provide a 2000#\*\* (8.9 kN) resistance to pull out.

- \* (VN-1050 or VSN-1050 & 1/2"-13 H.H.C.S. @ 50 ft/lb torque).
- \*\*(S.F.=3.0) Under loading conditions specified by manufacturer.

#### MILL GALVANIZED STEEL CHANNEL

Pre-Galvanized channels shall be cold roll formed from coated carbon steel and conform to ASTM A653, Structural Quality Grade 33.

### **HOT ROLLED CHANNEL (H.R.P.O. / UNFINISHED)**

H.R.P.O. channel shall be cold roll formed from carbon steel and conform to ASTM A570 Structural Quality Grade 33.

#### STAINLESS STEEL CHANNELS

Stainless steel channels shall be produced by specification in either type 304 or 316 conforming to ASTM A-240 & A-480.

#### **ALUMINUM CHANNELS**

Aluminum channel sections shall be extruded from alloy 6063-T6 conforming to ASTM B-221.

#### **MILL GALVANIZED FINISH**

Pre-Galvanized channel finish shall conform to ASTM A653 (G-90 Grade).

#### HOT DIPPED GALVANIZED FINISH

Hot-Dipped Galvanized finish complying to ASTM A-153 shall be applied to channel sections after all manufacturing processes are completed.

#### **GREEN PAINTED FINISH (POWDER COATED)**

AK1030 "Bell Green" thermosetting epoxy will be applied to H.R.P.O. channel sections after all manufacturing processes are complete. Prior to painting, channels will be cleaned and phosphated to insure maximum adhesion and uniformity of coating thickness.

Green painted channels shall meet the physical requirements of the following:

continued

## VERSABAR CORPORATION SPECIFICATION OUTLINE FOR VERSABAR PRODUCTS

## green painted finish continued

Flexibility:

ASTM D522 (Conical Mandrel)

Pass 1/8" Inch (3.175mm)

Adhesion:

ASTM D3359 (Cross Hatch)

Pass (Classification SB)

Gloss:

ASTM D523 (60 Degree)

55%

Pencil Hardness:

**ASTM D3303** 

2H

Impact Resistance:

**ASTM D2794** 

160/160 Direct & Reverse

Salt spray resistance: ASTM B117

Pass at 1000 hours / no corrosion creep more than 1/16" (1.6mm) from scribe

Humidity resistance: ASTM D2217

Pass at 1000 hours / no blistering or loss of gloss

### STOCK LENGTHS FOR CHANNEL

Manufacturer shall stock channels in the following standard lengths.

10' (3.05m) +/- 1/16"

20' (6.10m) +/- 1/16"

24' (6.35m) +/- 1/16"

### **CUTTING TOLERANCE FOR NON STANDARD CHANNEL LENGTHS**

Plus or minus 1/16" (1.6 mm)

#### STEEL FITTINGS

Fittings shall be manufactured from Hot Rolled Pickled and Oiled steel plate, strip, or coil, unless otherwise shown. Steel shall be in accordance with ASTM #'s: A575, A576, A635 or A36. Fitting steel shall also meet the physical requirements of ASTM A570 GR 33.

#### **FINISH FOR STEEL FITTINGS**

Standard finish shall be Electro-Galvanized conforming to ASTM B633 Type III SC1.

#### **GRAY IRON CASTINGS**

Shall conform to ASTM A-48

### **MALLEABLE IRON CASTINGS**

Shall conform to ASTM A-47

continued

### PRODUCTS FOR ELECTRICAL APPLICATIONS

All channel, fittings, and accessories, shall meet or exceed NEMA Standards for Metal Framing, ML-1-1993, and when products are to be used for metal raceway, they shall be listed by Underwriters' Laboratories Inc. for such use. Products listed to applicable UL standards and requirements are to be identified with: (1.) The UL mark. (2.) The manufacturers name. (3.) The manufacturers part number. (Per std. UL5B effective 03/31/99). Additionally, all products must conform to current National Electrical Code and N.F.P.A. requirements as amended.

### MAPLE CLAMPS, SADDLES, AND BUS BAR CLAMPS

Shall be fabricated from kiln cured clear hard maple lumber and impregnated with paraffin to a depth of 1/16" (1.588mm) after specified bore, slots or cradle radius has been cut.

### PORCELAIN CABLE CLAMPS AND SADDLES

Shall be white glazed porcelain manufactured by the Dry Process as specified by the Dry Process Electrical Porcelain section of the National Electrical Manufacturers' Association. Such cable clamps and saddles shall have the following average values for the following properties: 1.0% water absorption; 2.4 specific gravity; 2500 psi. tensile strength; 40,000 psi compressive strength; 5000 psi. flexural strength; and 50 volts/mil-dielectric strength.

#### **CLOSURE STRIP**

Shall be roll-formed from pre-galvanized steel conforming to ASTM A653 (G-90) and have a minimum thickness of .040" (1.02mm)

#### THREADED FASTENERS

Standard carbon steel threaded fasteners shall be manufactured in conformance with ASTM A-307 and SAE J429 GR2. Standard finish for carbon steel threaded fasteners shall be electro-galvanized conforming to ASTM B-633 Type III SC1. (VERSABAR fasteners conform to U.S. federal spec. HR3000)

#### LATERAL LOCKING "CHANNEL NUTS"

Shall have surface serrations and opposed gripping teeth within the serrations to engage the inturned lips of the channel and enhance their gripping power, and reduce lateral slippage. Standard lateral locking nuts shall have a rectangular shape with beveled ends to permit a clockwise rotation that is restricted to 90° by contact with the interior channel side walls after insertion through the 7/8" channel slot. Nuts shall be case hardened to assure that teeth within the nut serrations will become fully engaged with the inturned lips of the channel when tightened. This will guarantee slip resistance and pull out performance characteristics for each size nut once they have been tightened to their recommended torque value. (Recommended torque values are on page B-2).

### STAINLESS STEEL LATERAL LOCKING "CHANNEL NUTS"

Shall be manufactured from Type 304 bar and conform with ASTM A-276; or manufactured from type 316 stainless conforming to ASTM B-783. In either case, the spring portion of the nut will be regular carbon steel.

continued





### **CONCRETE INSERTS - WEDGE TYPE ANCHOR CHANNEL**

Lengths of concrete inserts specified for this project shall be VC-9000 Series Beam Style Flared Wedge Concrete Inserts as manufactured by VERSABAR CORPORATION. These inserts shall be capable of supporting an average evenly-distributed load of 2500# (11.2kN) per lin. ft. embedded in 4000 min. psi. concrete, and 2650# (11.9kN) per lin. ft. embedded in 5000 min. psi. concrete (based on a safety factor of 3). Inserts should have an anchoring capacity that will increase as the compressive strength of the concrete increases. Loading capability must be without dependence upon hooks or anchors either welded to the insert or pierced from the parent metal. The load exerted by the insert upon the encasing concrete shall be evenly distributed to the concrete on both sides of the insert along its embedded length and must not be dependent upon hooks or anchors which would act as stress risers at intervals within the concrete. Total overall depth of the insert must not exceed 2" (50.8mm) at any point, and its rated loading capacity must not be dependent upon contact with or connection to metal reinforcements within the concrete. Inserts must have a smooth overall surface and contain no sharp edges. All angles and surfaces of the insert shape must be optimized to permit an easy flow of concrete around the exterior surfaces and to prevent voids. Inserts must be fully compatible with all accessories manufactured by VERSABAR CORPORATION.

#### **CONCRETE INSERTS - HOOK TYPE ANCHOR CHANNEL**

Lengths of pierced anchor concrete inserts specified for this project shall be VERSABAR or approved equal corresponding to designated part number. Inserts shall have 1-1/2" (38.1mm) long hook anchors which are lanced from the channel spine on 4-1/2" (114.3mm) centers throughout the length of the insert. Each anchor shall be bent at its top to a sharp 90° angle and thereby provide a holding area measuring at least 13/16" x 1/2" (20.6mm) x (12.7mm). Vertical portions of each anchor must be formed straight to achieve maximum anchoring depth possible for metal area. Such inserts shall be manufactured from channel size and gauge as specified. Each insert shall be provided with a 3/16" (4.76mm) nailing hole on 9" (228.6mm) centers throughout its entire length. Short inserts without nail holes will have end caps which provide nailing cutouts. Inserts will be shipped fully assembled with anchor openings completely sealed from the inside of the shape. EPS foam sections will be inserted into the shape and end caps will be installed at each end of the insert. Foam inserts will protrude at least 1/16" (1.588mm) beyond the surface of the channel slot so that when insert is nailed to form, the foam is compressed thereby providing the most efficient seal possible. Anchor end caps will be supplied with inserts which are less than 18" (457mm) in length. Standard end caps will be supplied with longer inserts. End caps shall be designed so that the possibility of concrete seepage is eliminated.

#### Note:

We reserve the right to make changes and improvements to the materials described herein without obligation to advertise these changes or to make such changes in material previously manufactured. Under no circumstances will the quality of our products be less than that specified by The Metal Framing Manufacturers Association.

#### **Product Warranty**

Every VERSABAR product has been carefully inspected during manufacturing, and prior to shipment. We guarantee to correct any defect called to our attention in writing within six months after shipment, caused by faulty material or workmanship. The buyers exclusive remedy shall be repair and/or replacement, at VERSABAR'S discretion, of the defective parts. The parties further agree that no other remedy (including but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, negligence in the design, installation, or repair of the product, or any other incidental or consequential loss) shall be available. The parties further agree that all other warranties, express or implied (including but not limited to, any implied warranty of merchantability or fitness for a particular purpose) are excluded.



|   | Common Fasteners & T      | hreaded Rod | VA-1P8                                | A-1               | VA-5208  | A-10         |
|---|---------------------------|-------------|---------------------------------------|-------------------|--|--------------|
|   |                           | B-8 to B-10 | VA-1PLH                               | A-1               | VA-5209  | A-10         |
|   |                           | 2010210     | VA-1201                               | A-2               | VA-5302  | A-10         |
|   | Electrical Accessories &  | ModuStak™   | VA-1201PLH                            | A-2               | VA-5405  | A-10         |
|   | Licetioai / tecessories a | Woddotak    | V/( 12011 E11                         | 7.2               | V/( 0+00   | 71.10        |
|   | EB-19A3/4"                | F-9         | VA-1202                               |                   | VA-6   | A-11         |
|   | EB-19A1/2"                | F-9         | through                               | A-2               | VA-6KH   | A-11 & E-3   |
| 7 | EB-20A3/4"                | F-9         | VA-1402                               |                   | VA-6KO6  | A-11         |
|   | EB-20A1/2"                | F-9         |                                       |                   | VA-6P1.5   | A-11         |
|   | EB-22                     | F-8         | VA-2                                  | A-3               | VA-6P1.87  | A-11         |
|   | EB-23A                    | F-8         | VA-2KO6                               | A-3 & F-4         | VA-6P3S  | A-11         |
|   | EB-25A                    | F-9         | VA-2P1.5                              | A-3               | VA-6P8   | A-11         |
|   | FEN-25                    | B-9         | VA-2P1.87                             | A-3               | VA-6PLH  | A-11         |
|   | FEN-31                    | B-9         | VA-2P3S                               | A-3               | VA-6201  | A-12         |
|   | FEN-37                    | B-9         | VA-2P8                                | A-3               | VA-6201PLH   | A-12         |
| ٦ | FEN-50                    | B-9         | VA-2PLH                               | A-3               | VA-6208  | A-12         |
| - | FEN-50-2                  | B-9         | VA-2201                               | A-4               | VA-6209  | A-12         |
|   | FF-100                    | F-8         | VA-2201-PLH                           | A-4               | V/ (0200   | /· ·-        |
|   | FF-200                    | F-8         | · · · · · · · · · · · · · · · · · · · |                   | VA-7   | A-13         |
|   | LL-G1                     | F-7         | VA-2202                               |                   | VA-7KO6  | A-13         |
| J | LL-21A                    | F-8         | through                               | A-4               | VA-7P1.5   | A-13         |
|   | LL-41A                    | F-7         | VA-2405                               | 7. 7              | VA-7P1.87  | A-13         |
|   | LL-41B                    | F-7         | VA 2400                               |                   | VA-71 1.07<br>VA-7P3S  | A-13         |
| 7 | LL-41NC                   | F-7         | VA-3                                  | A-5               | VA-71 00<br>VA-7P8   | A-13         |
|   | LL-42                     | F-10        | VA-3KO6                               | A-5 & F-4         | VA-7PLH  | A-13         |
|   | LL-50A                    | F-8         | VA-3R00<br>VA-3P1.5                   | A-5 & 1 -4<br>A-5 | VA-71 LII  | A-10         |
|   | LL-60                     | F-8         | VA-3P1.87                             | A-5<br>A-5        | VA-7201  | A-14         |
|   | ModuStak™                 | D-13        | VA-31 1.07<br>VA-3P3S                 | A-5               | VA-7201<br>VA-7208   | A-14         |
| ۷ | RW-25                     | F-10        | VA-3P8                                | A-5<br>A-5        | VA-7208<br>VA-7209   | A-14         |
|   | NV-25                     | 1-10        | VA-3PLH                               | A-5<br>A-5        | VA-7209  | Λ-14         |
| _ | Stud Nuts Without Sprin   | age.        | VA-31 LTT<br>VA-3201                  | A-6               | VA-8   | A-15         |
|   | Stud Nuts Without Spilin  | iys         | VA-3201<br>VA-3202                    | A-6               | VA-8P1.5   | A-15         |
|   | SN-25075                  |             | VA-3202<br>VA-3203                    | A-6               | VA-8P1.87  | A-15         |
| l | through                   | B-7         | VA-3203<br>VA-3208                    | A-6               | VA-8P3S  | A-15         |
|   | SN-50325                  | D-7         | VA-3208<br>VA-3209                    | A-6               | VA-8P8   | A-15         |
|   | 311-30323                 |             | VA-3209                               | A-0               | VA-8PLH  | A-15<br>A-15 |
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|   | Stud Nuts With Springs    |             | VA-4<br>VA-4P1.5                      | A-7<br>A-7        | VA-8201  | A-16         |
| ٦ | CCN 0E07E                 |             |                                       |                   |  | A-16         |
|   | SSN-25075                 | D 7         | VA-4P1.87                             | A-7               | VA-8208  |              |
|   | through                   | B-7         | VA-4P3S                               | A-7               | VA-8209  | A-16         |
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|   | 014/11 07                 | = 40        | VA-4208                               | A-8               | VA-10  | A-17         |
|   | SWN-37                    | F-10        | VA-4209                               | A-8               | VA-10KH  | A-17 & E-3   |
| ٦ | SWN-50                    | F-10        | VA-4302                               | A-8               | VA-10P1.5  | A-17         |
| l |                           |             | VA-4405                               | A-8               | VA-10P1.87   | A-17         |
|   | Channel                   |             |                                       | • -               | VA-10P3S   | A-17         |
|   |                           |             | VA-5                                  | A-9               | VA-10P8  | A-17         |
|   | VA-1                      | A-1         | VA-5P1.5                              | A-9               | VA-10PLH   | A-17         |
|   | VA-1KH                    | A-1 & E-3   | VA-5P1.87                             | A-9               | VA-10201   | A-18         |
|   | VA-1KO6                   | A-1 & F-4   | VA-5P3S                               | A-9               | VA-10201PLH  | A-18         |
|   | VA-1P1.5                  | A-1         | VA-5P8                                | A-9               | VA-10208   | A-18         |
|   | VA-1P1.87                 | A-1         | VA-5PLH                               | A-9               | VA-10209   | A-18         |
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| VA-11P8           | A-19         |                        |              |  |             |  |
| VA-11PLH          | A-19         | VB-1060-XD             |              | VC-1003                                |             |  |
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| VP-10075                | <b>5</b> 46 | Threaded Rod             |              | through                    | D-18         |
| through<br>VP-10800     | D-10        | \/TD 05 0                |              | VX-7041-B-12               |              |
| VP-10000                |             | VTR-25-6                 | D 40 0 E 40  | V/V 7040                   | D 47         |
| VP-11075                |             | through<br>VTR-62-12     | B-10 & F-10  | VX-7042<br>VX-7043         | D-17         |
| through                 | D-10        | V111-02-12               |              | VX-7043<br>VX-7044-1/2     | D-17<br>D-17 |
| VP-11800                | D 10        | Beam Clamps              |              | VX-7044-1/2                | D-17         |
|                         |             | 2 cam clampo             |              | VX-7045-A-4                |              |
| Light Duty Conduit Clar | mps         | VX-1000-A                | D-15         | through                    | D-18         |
|                         | •           | VX-1000-B                | D-15         | VX-7045-B-12               | _            |
| VP-13050                |             | VX-1000-C                | D-15         |                            |              |
| through                 | D-10        | VX-1000-HA               | D-15         | VX-7049-A                  | D-16         |
| VP-13400                |             |                          |              | VX-7050-A                  | D-17         |
| Dina Caddla Braskata    |             | VX-1006                  | D-14         | VX-7050-B                  | D-17         |
| Pipe Saddle Brackets    |             | VX-1007<br>VX-1008       | D-14         | VV 7404 A                  | D 40         |
| VPB-1200-C              |             | VX-1008<br>VX-1009       | D-14<br>D-14 | VX-7101-A                  | D-16         |
| through                 | D-11        | VX-1009                  | D-14         | VX-7101-S<br>VX-7106-A     | D-16<br>D-16 |
| VPB-1800-C              | <b>D</b>    | VX-1010                  | D-14         | VX-7100-A<br>VX-7715-A     | D-10<br>D-17 |
|                         |             | VX-1090-A                | D-15         | VXTTIOT                    | D 17         |
| VPB-7150                | D-11        | VX-1099                  | C-20         | VX-9000                    |              |
| VPB-7300                | D-11        |                          |              | through                    | D-14         |
|                         |             | VX-1111-3/8              |              | VX-9003                    |              |
| Pipe Rollers            |             | through                  | D-16         |                            |              |
| VDD                     |             | VX-1111-3/4              |              | VX-9004                    | _            |
| VPR                     | D 10 0 D 10 | VV 0000                  | D 40         | through                    | D-16         |
| through<br>VPR-3000     | D-12 & D-13 | VX-2308                  | D-16         | VX-9006                    |              |
| ** T1:0000              |             |                          |              |                            |              |



VX-9007

D-18

VX-9008

D-18

Welded Swivel Eyelets

VXE-1-3/8

B-10

through

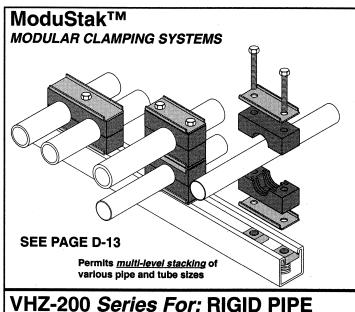
D-15

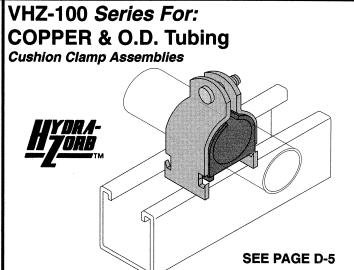
VXE-4-3/4

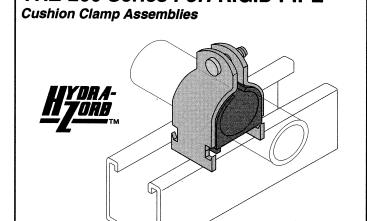
F-10

For information regarding modifications to products shown in this catalog, or special fabrications, please contact the factory at 1-800-228-3772

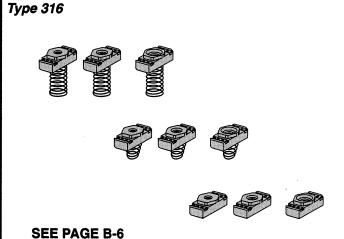
# VERSABAR CORPORATION NEW ITEMS - CATALOG #12



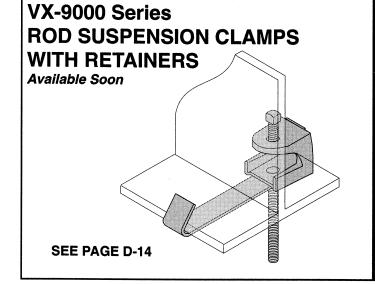




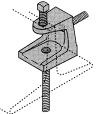
**SEE PAGE D-6** 



**HEX TOP STAINLESS NUTS** 

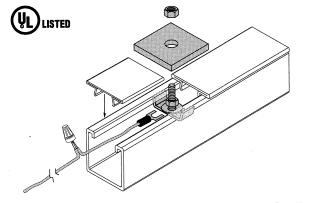






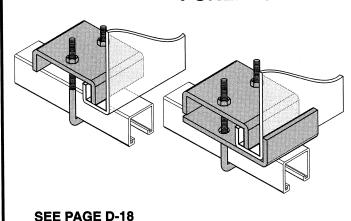
**SEE PAGE D-16** 

## **LL-G1 RACEWAY GROUNDING KIT**



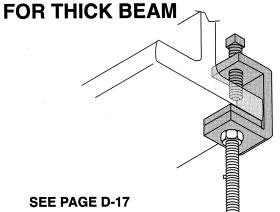
## VX-9007 & VX-9008



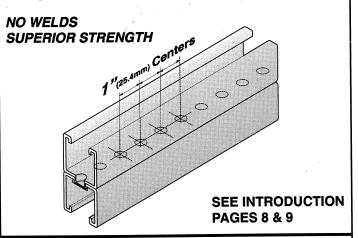


SEE PAGE F-7

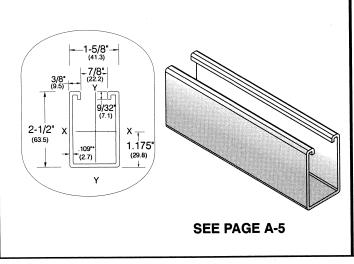
## VX-7044-1/2 ROD SUSPENSION CLAMP



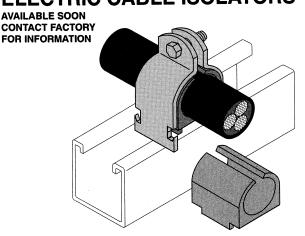
## TOGGLE LOCKED BACK TO BACK CHANNEL



## **VA-3 STAINLESS CHANNEL**

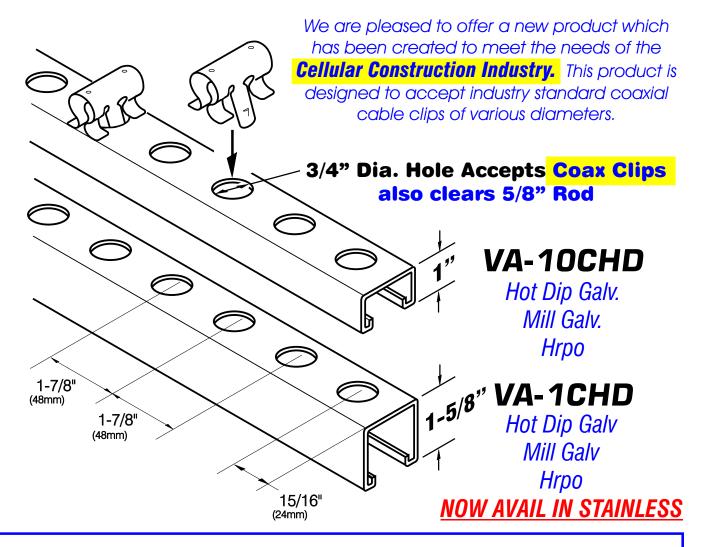


## VHZ-100 E SERIES ELECTRIC CABLE ISOLATORS



# VERSABARM

## New Product Announcement



Versabar CHD type channels are <u>Hot Dipped Galvanized after fabrication</u>. Available in 1" and 1-5/8" deep styles. Both channels are 1-5/8" wide across the base, and roll formed from 12ga. Steel.

3/4" diameter perforations accept industry standard cellular coax clips. Standard lengths will be 10'. Contact factory for volume pricing on non-standard lengths.

## <u>IN STOCK NOW</u>

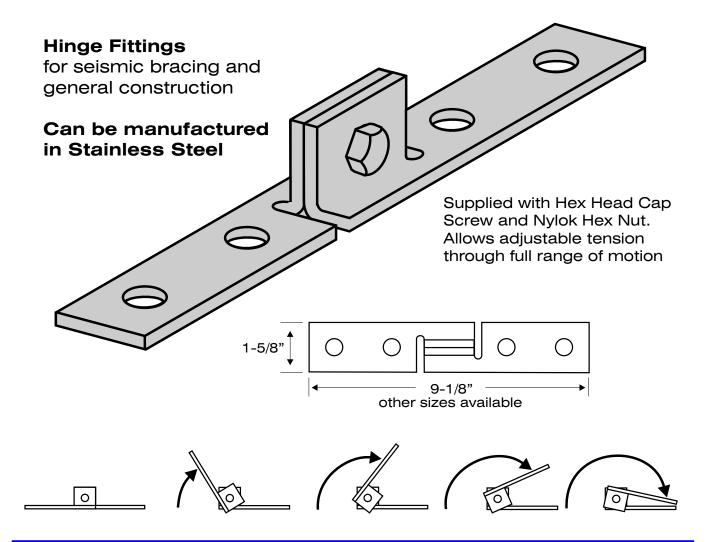
For additional information please contact William E. Taylor
VERSABAR CORPORATION

20, 232, 2772 a versabar@broadviewpet pet a www.versabar.com

1-800-228-3772 • versabar@broadviewnet.net • www.versabar.com

# VERSABARI

## New Product Announcement



Versabar Hinge Type Fittings are available in 2, 3, and 4 hole versions. PN's# (VF-1201-H) (VF-1302-H) (VF-1402-H shown)

These fittings allow a full range of motion, and are compatible with all manufacturers 1-5/8" standard channels. Available in carbon steel with various finishes including zinc plated, plain, and PVC Coated. **Also available in stainless steel 304 & 316.** 

## IN STOCK NOW

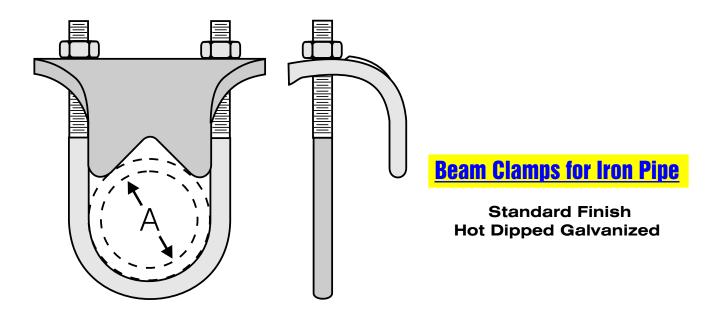
For additional information please contact William E. Taylor VERSABAR CORPORATION

1-800-228-3772 • versabar@broadviewnet.net • www.versabar.com

# VERSABARM

## New Product Availability

**"Korn" Type** Right Angle Conduit Supports for 3/8" to 4" I.P.



| PART<br>NUMBER | PIPE<br>SIZE "A" | BOX<br>QTY | WGT.<br>PER C | FINISH   |
|----------------|------------------|------------|---------------|----------|
| VX-2037        | 3/8"             | 50         | 25            | H.D.G.A. |
| VX-2050        | 1/2"             | 50         | 40            | H.D.G.A  |
| VX-2075        | 3/4"             | 50         | 43            | H.D.G.A  |
| VX-2100        | 1"               | 50         | 48            | H.D.G.A  |
| VX-2125        | 1-1/4"           | 50         | 53            | H.D.G.A  |
| VX-2150        | 1-1/2"           | 50         | 58            | H.D.G.A  |
| VX-2200        | 2"               | 50         | 85            | H.D.G.A  |
| VX-2250        | 2-1/2"           | 25         | 106           | H.D.G.A  |
| VX-2300        | 3"               | 25         | 110           | H.D.G.A  |
| VX-2350        | 3-1/2"           | 25         | 128           | H.D.G.A  |
| VX-2400        | 4"               | 25         | 140           | H.D.G.A  |

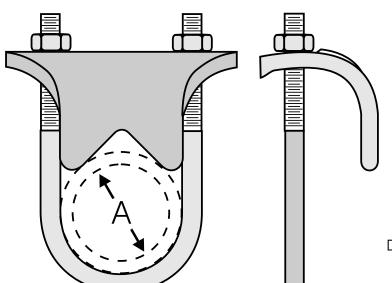
1-800-228-3772

versabar.com

# VERSABAR M

## New Product Availability

**STAINLESS STEEL** Right Angle Conduit Supports for ½" to 4" I.P.



## **Beam Clamps for Pipe**

PRODUCED IN FULL TYPE 316 STAINLESS

Clamp Body: CF8M, 316 Hardware: 316

Standards: ASTM A351, ASTM F593

Designed to work with pipe/rigid as well as PVC coated conduit.

Provides high strength and corrosion resistance

| PART<br>Number | PIPE<br>SIZE "A" | BOX<br>QTY | WGT.<br>PER C | FINISH |
|----------------|------------------|------------|---------------|--------|
| VX-2050-SS316  | 1/2"             | 50         | 34            | SS 316 |
| VX-2075-SS316  | 3/4"             | 50         | 36            | SS 316 |
| VX-2100-SS316  | 1"               | 50         | 44            | SS 316 |
| VX-2125-SS316  | 1-1/4"           | 50         | 51            | SS 316 |
| VX-2150-SS316  | 1-1/2"           | 50         | 61            | SS 316 |
| VX-2200-SS316  | 2"               | 50         | 97            | SS 316 |
| VX-2250-SS316  | 2-1/2"           | 25         | 125           | SS 316 |
| VX-2300-SS316  | 3"               | 25         | 148           | SS 316 |
| VX-2350-SS316  | 3-1/2"           | 25         | 163           | SS 316 |
| VX-2400-SS316  | 4"               | 25         | 178           | SS 316 |

1-800-228-3772

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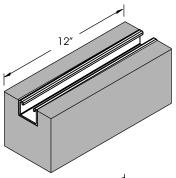
# VERSABAR

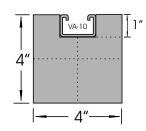
## New Product Announcement

We are pleased to offer a new product which has been created for rooftop and raised floor applications. This product is designed to allow a pliable but sturdy barrier between conduit systems and roofing materials. Note: Our inserts all feature CORROSION RESISTANT CHANNEL SECTIONS IN EITHER HOT DIPPED OR STAINLESS

## PRE-CUT FOAM PIERS HELP SAVE YOUR ROOF

(Maximum centered load 50#, all items)

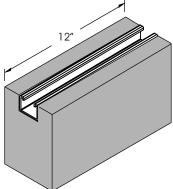


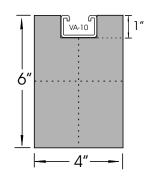


Block portion is constructed of laminated closed cell polyethelyne foam. This foam has a high resistance to U.V. breakdown and water saturation.

## VA-10FP-A

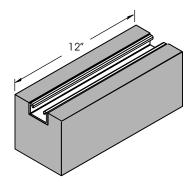
12ga. HOT DIPPED GALV. Strut Section with bonded polyethylene foam block Accepts all pipe straps and short spring nuts

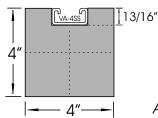




## VA-10FP-B

**12ga. HOT DIPPED GALV. Strut Section** with bonded polyethylene foam block Accepts all pipe straps and short spring nuts





## VA-4SSFP-C

14ga. STAINLESS 304 Strut Section with bonded polyethylene foam block Accepts all pipe straps and short spring nuts

Use these products instead of wood blocks to protect roofing and other surfaces that could be damaged by metal contact. Blocks are light, durable, and resist deterioration. Cushions also absorb shock, vibration, and, help with natural expansion and contraction of runs. IN STOCK NOW.

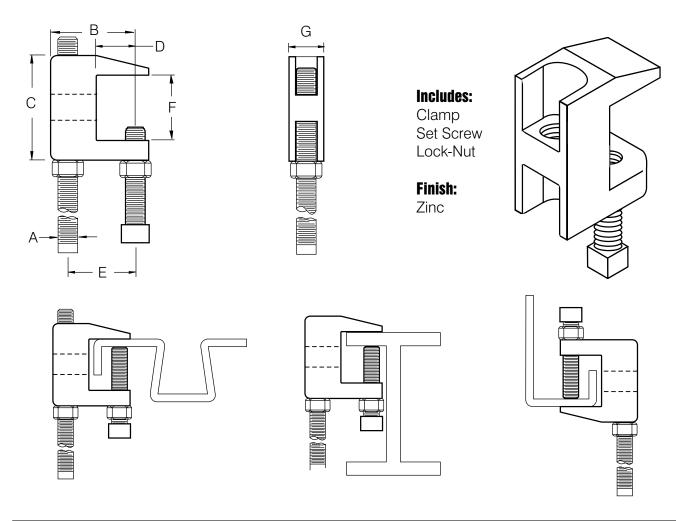
VERSABAR CORPORATION 1-800-228-3772



## New Product Announcement

## **Top Beam Style, Reversible, with Tall Jaw**

Clamps in 3/8" through 3/4" are now available"



| PART Dimensions |      |        |        |      | IS     |        | Weight [ |      | Design | Ctn. |
|-----------------|------|--------|--------|------|--------|--------|----------|------|--------|------|
| NUMBER          | Α    | В      | С      | D    | E      | F      | G        | Per  | Load   | Std. |
|                 |      |        |        |      |        |        |          | C pc |        | Pack |
| VX-1111-3/8-T   | 3/8" | 1-5/8" | 2"     | 3/4" | 1"     | 1-1/4" | 7/8"     | 28   | 400    | 50   |
| VX-1111-1/2-T   | 1/2" | 1-5/8" | 2"     | 3/4" | 1"     | 1-1/4" | 7/8"     | 34   | 500    | 50   |
| VX-1111-5/8-T   | 5/8" | 1-3/4" | 2-1/4" | 3/4" | 1-1/4" | 1-1/4" | 1"       | 66   | 600    | 50   |
| VX-1111-3/4-T   | 3/4" | 1-7/8" | 2-3/8" | 3/4" | 1-3/8" | 1-1/4" | 1-1/4"   | 83   | 800    | 50   |

## **NEW PRODUCTS**

## **Rod Suspension Beam Clamps**

## **AVAILABLE IN STAINLESS 316**

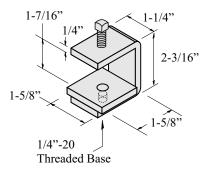
Allows suspension of 1/4", 3/8", 1/2", & 5/8" Threaded Rods

VX-7070-A

Wt/ea .74 Lbs. (.333 kg.)

Wide Jaw 1/4"-20 Base Beam Clamp

3/8"-16 X 2" Square Head Set Screw Included



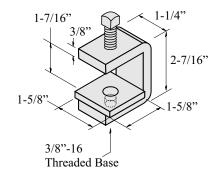
Accepts Beams up to 1-3/8" thick and 1/4"-20 Threaded Rod in Base

VX-7070-B

Wt/ea .98 Lbs. (.442 kg.)

Wide Jaw 3/8"-16 Base Beam Clamp

> 1/2"-13 X 2" Square Head Set Screw Included



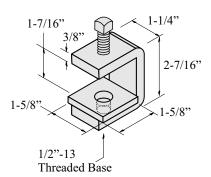
Accepts Beams up to 1-3/8" thick and 3/8"-16 Threaded Rod in Base

VX-7070-C

Wt/ea 1.03 Lbs. (.464 kg.)

Wide Jaw 1/2"-13 Base Beam Clamp

> 1/2"-13 X 2" Square Head Set Screw Included



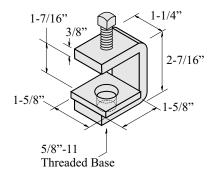
Accepts Beams up to 1-3/8" thick and 1/2"-13 Threaded Rod in Base

VX-7070-D

Wt/ea 1.10 Lbs. (.496 kg.)

Wide Jaw 5/8"-11 Base Beam Clamp

1/2"-13 X 2" Square Head Set Screw Included

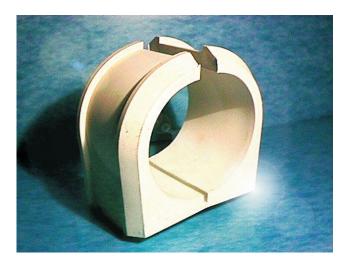


Accepts Beams up to 1-3/8" thick and 5/8"-11 Threaded Rod in Base

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# **VERSABAR** M

## New Product Announcement



## PORCE-A-CLAMP

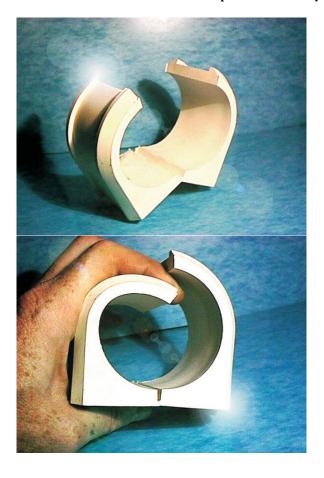
The <u>THERMOPLASTIC</u> Cable Clamp



Use with all Mfr. 1-5/8" Channels



Porce-A-Clamps come in a variety of sizes to fit 3/8" to 4-1/2" diameter electric cables. The product is supplied with a steel outer clamp, and "Ever-Dur" silicon bronze hardware. If required, the outer clamps can be supplied in stainless as well. The most significant benefit to this product is the UL listing. Porcelain clamps have never been listed with UL. These products have been fully tested both in the lab and the field. Since there are no minimums or long wait times, you can have your project up and running right away. This product is clearly superior to porcelain.



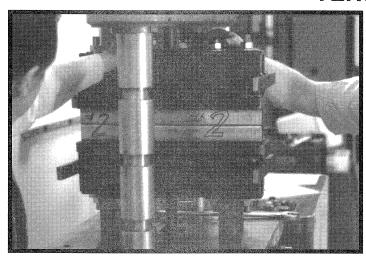
| P/N and Size | WT./C | P/N and Size | WT./C |
|--------------|-------|--------------|-------|
| PAC 3/8      | 25    | PAC 2-1/2    | 90    |
| PAC 1/2      | 25    | PAC 2-5/8    | 90    |
| PAC 5/8      | 25    | PAC 2-3/4    | 109   |
| PAC 3/4      | 37    | PAC 2-7/8    | 109   |
| PAC 7/8      | 37    | PAC 3        | 109   |
| PAC 1        | 37    | PAC 3-1/8    | 109   |
| PAC 1-1/8    | 37    | PAC 3-1/4    | 130   |
| PAC 1-1/4    | 58    | PAC 3-3/8    | 130   |
| PAC 1-3/8    | 58    | PAC 3-1/2    | 130   |
| PAC 1-1/2    | 58    | PAC 3-5/8    | 130   |
| PAC 1-5/8    | 58    | PAC 3-3/4    | 160   |
| PAC 1-3/4    | 76    | PAC 3-7/8    | 160   |
| PAC 1-7/8    | 76    | PAC 4        | 160   |
| PAC 2        | 76    | PAC 4-1/8    | 160   |
| PAC 2-1/8    | 76    | PAC 4-1/4    | 160   |
| PAC 2-1/4    | 90    | PAC 4-3/8    | 160   |
| PAC 2-3/8    | 90    | PAC 4-1/2    | 160   |
|              |       |              |       |

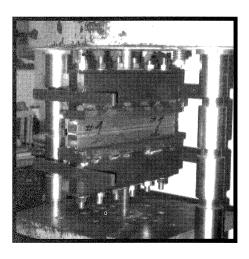
## Why Porce-A-Clamp instead of Porcelain?

- Costs less than porcelain
- Won't rot like maple or break like porcelain
- Short lead times
- Lightweight and inexpensive to ship
- Virtually indestructible
- One Piece design with hinge

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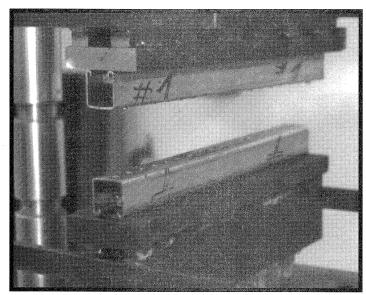


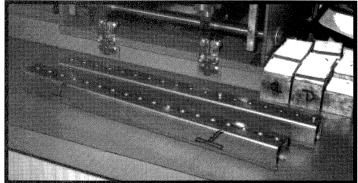


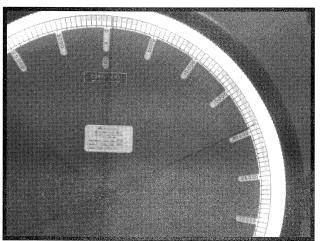


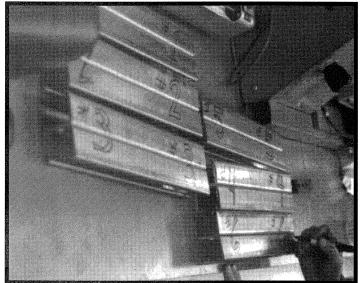
## **Destructive Testing by Independent Laboratories.**

Images show **VERSABAR** exclusive "Toggle-Lock" back to back channel sections undergoing "Pull-Out" testing of connection strength. Indicator shows ultimate loading of 19,500 lbs. Our least efficient sample pulled apart at an astounding 18,500 Lbs. ( = 4,111 per LF. SF3) Samples were 18" long sections of VA-1201, 12 gauge back-to-back channel.

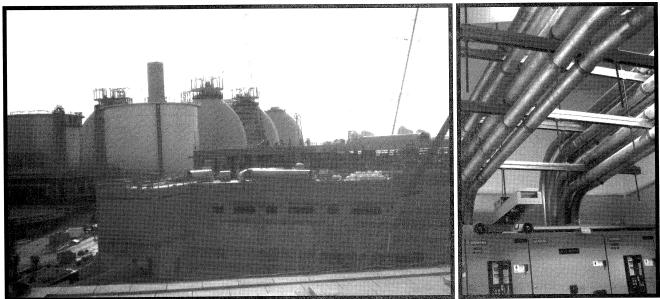






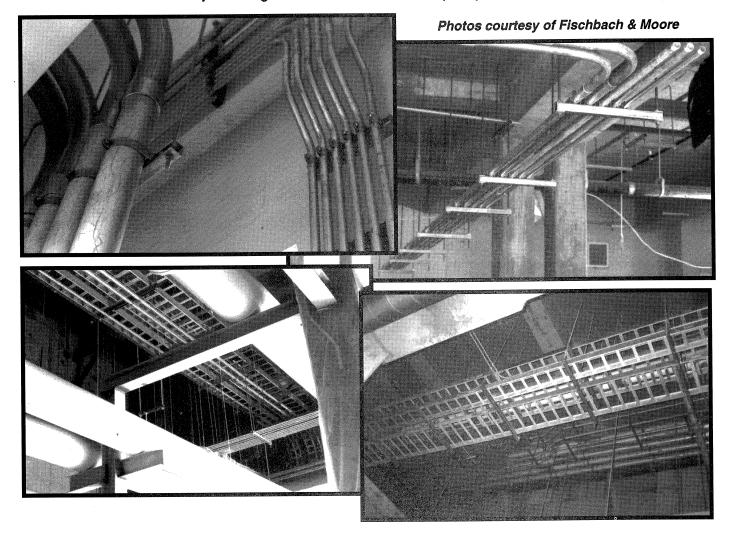






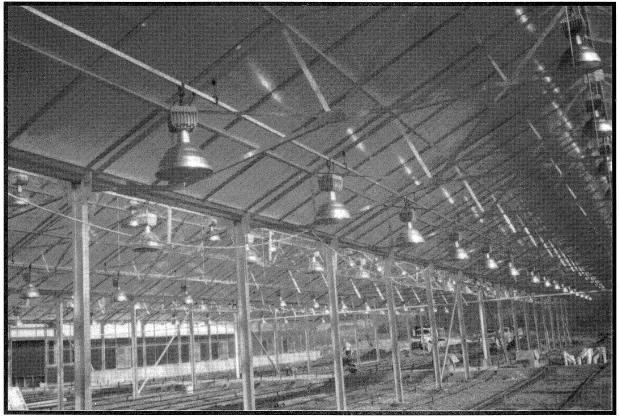
Boston Harbor Water Purification Plant on Deer Island.

Images show VERSABAR stainless steel products in use, supporting cable tray, conduit, and pipe runs. VERSABAR has a reputation earned over fifty years for delivering prime products on time. Whether the job is large or small, look to us for quality and timely deliveries.





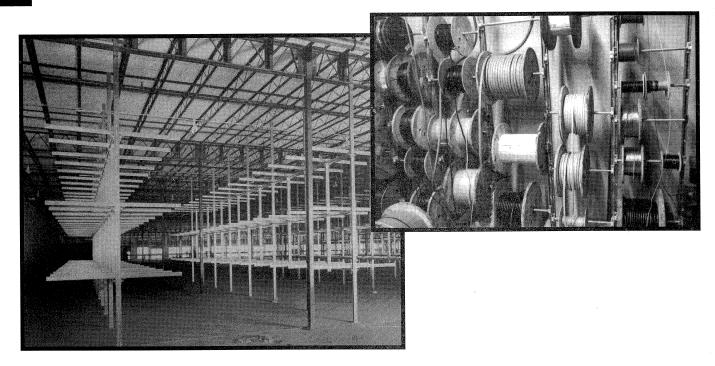


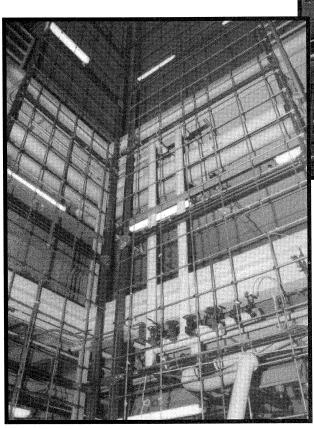


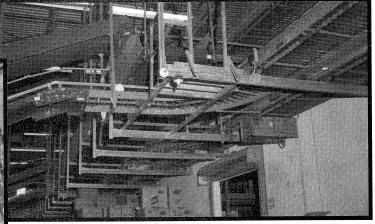
Commercial and industrial lighting support systems

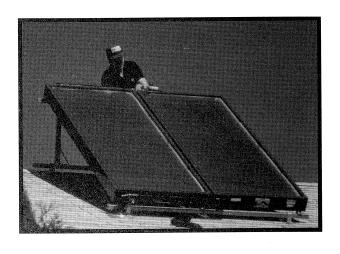
# V.

## VERSABAR CORPORATION











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