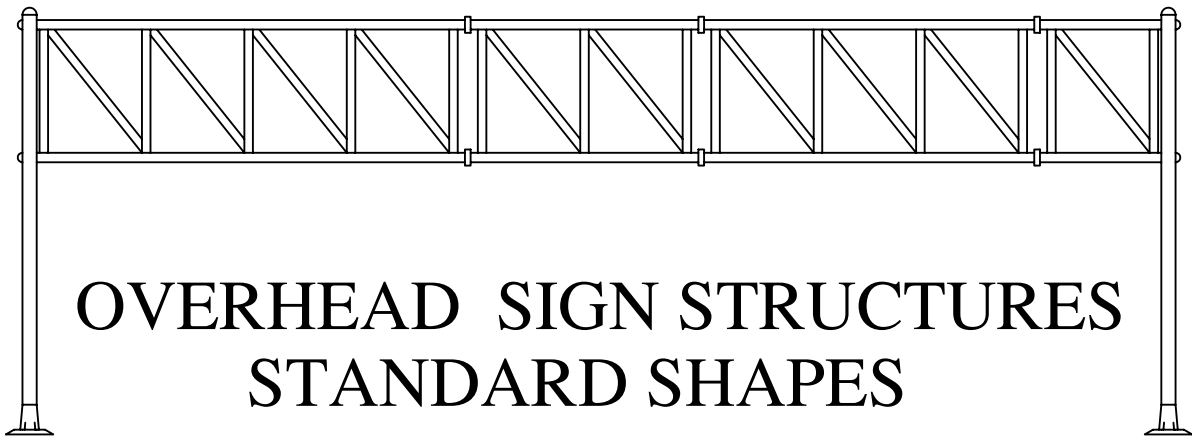


**WESTERN  
EXTRUSIONS**
















**OVERHEAD SIGN STRUCTURES  
STANDARD SHAPES**

EFFECTIVE JUNE 5, 2009

# TABLE OF CONTENTS

PAGE

|   |  |    |
|---|--|----|
|   | GENERAL INFORMATION .....              | 1  |
|    | ROUND TUBE .....                       | 2  |
|    | SCHEDULED PIPE .....                   | 3  |
|    | STRUCTURAL ANGLES (UNEQUAL LEGS) ..... | 4  |
|    | STRUCTURAL ANGLES (EQUAL LEGS) .....   | 5  |
|    | STRUCTURAL CHANNEL .....               | 6  |
|   | STRUCTURAL TEE .....                   | 7  |
|  | I-BEAM .....                           | 7  |
|  | WIDE FLANGE BEAMS .....                | 8  |
|  | ZEE .....                              | 8  |
|  | WIND BEAM .....                        | 9  |
|  | 6" SIGN PANEL .....                    | 9  |
|  | LIGHT WEIGHT SIGN PANEL .....          | 10 |
|  | HEAVY WEIGHT SIGN PANEL .....          | 10 |



## GENERAL INFORMATION

**WESTERN EXTRUSIONS CUSTOMER SERVICE:**

**-PHONE (972) 245-7515**

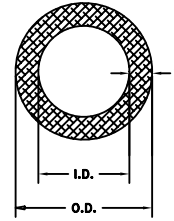
**-TOLL FREE: (800) 888-6063**

**-FAX: (972) 245-2980**

**ALL SHAPES ARE PRODUCED TO ORDER. NO STANDARD SHAPES ARE KEPT IN STOCK.**

**OTHER STANDARD SHAPES THAT ARE NOT LISTED MAY BE AVAILABLE WITHOUT DIE COST. PLEASE CONTACT YOUR CUSTOMER SERVICE REPRESENTATIVE FOR MORE INFORMATION**

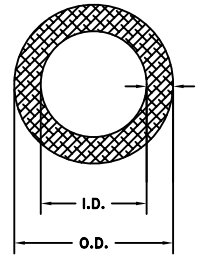
ROUND TUBE



\*\*PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETERS

| DIE No. | O.D.  | I.D.  | T     | WT/FT  | PERIM  |
|---------|-------|-------|-------|--------|--------|
|         |       |       |       |        |        |
| H 19107 | 1.750 | 1.500 | 0.125 | 0.766  | 10.222 |
|         |       |       |       |        |        |
| H 19946 | 1.900 | 1.610 | 0.145 | 0.959  | 11.027 |
|         |       |       |       |        |        |
| H 19105 | 2.000 | 1.624 | 0.188 | 1.284  | 11.397 |
|         |       |       |       |        |        |
| H 19129 | 2.500 | 2.124 | 0.188 | 1.635  | 14.530 |
| H 19732 | 2.500 | 2.250 | 0.125 | 1.120  | 14.923 |
|         |       |       |       |        |        |
| H 19108 | 3.250 | 3.000 | 0.125 | 1.473  | 19.635 |
|         |       |       |       |        |        |
| H 19897 | 3.000 | 2.500 | 0.250 | 2.592  | 17.279 |
| H 19128 | 3.000 | 2.625 | 0.188 | 1.988  | 17.671 |
| H 19544 | 3.000 | 2.750 | 0.125 | 1.355  | 18.064 |
| H 19126 | 3.500 | 3.124 | 0.188 | 2.341  | 20.813 |
| H 19127 | 3.500 | 3.250 | 0.125 | 1.590  | 21.206 |
|         |       |       |       |        |        |
| H 19611 | 4.000 | 3.500 | 0.250 | 3.534  | 23.562 |
| H 19125 | 4.000 | 3.625 | 0.188 | 2.695  | 23.955 |
|         |       |       |       |        |        |
| H 19106 | 4.750 | 4.375 | 0.188 | 3.233  | 28.664 |
|         |       |       |       |        |        |
| H 19124 | 5.000 | 4.375 | 0.313 | 5.522  | 29.452 |
| H 19119 | 5.500 | 5.000 | 0.250 | 4.948  | 32.987 |
| H 19123 | 6.500 | 5.500 | 0.500 | 11.310 | 37.699 |
| H 19118 | 6.000 | 5.500 | 0.250 | 5.419  | 36.129 |
| H 19122 | 7.000 | 6.000 | 0.500 | 12.252 | 40.841 |

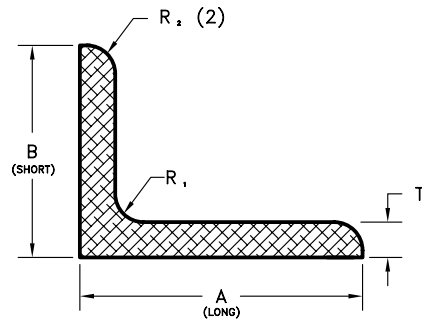
SCHEDULED PIPE



ANSI/ASME STANDARD B31.1 AND B31.3  
 \*\*PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETERS

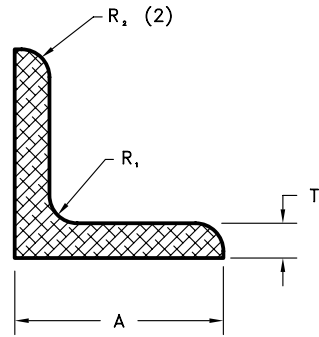
| DIE No. | NOM.  | SCHED. | O.D.   | I.D.   | T     | W/FT   | PERIM  |
|---------|-------|--------|--------|--------|-------|--------|--------|
| H 19799 | 1/2   | 40     | 0.840  | 0.622  | 0.109 | 0.300  | 4.593  |
| H 19566 | 1/2   | 80     | 0.840  | 0.546  | 0.147 | 0.384  | 4.354  |
| H 19988 | 3/4   | 40     | 1.050  | 0.824  | 0.113 | 0.400  | 5.888  |
| H 19911 | 1     | 40     | 1.315  | 1.049  | 0.133 | 0.581  | 7.427  |
| H 19120 | 1 1/4 | 10     | 1.660  | 1.442  | 0.109 | 0.637  | 9.745  |
| H 19947 | 1 1/4 | 40     | 1.660  | 1.380  | 0.140 | 0.802  | 9.550  |
| H 19382 | 1 1/4 | 80     | 1.660  | 1.278  | 0.191 | 1.057  | 9.230  |
| H 19501 | 1 1/2 | 10     | 1.900  | 1.682  | 0.109 | 0.736  | 11.253 |
| H 19946 | 1 1/2 | 40     | 1.900  | 1.610  | 0.145 | 0.959  | 11.027 |
| H 19237 | 1 1/2 | 80     | 1.890  | 1.503  | 0.194 | 1.238  | 10.660 |
| H 19809 | 2     | 10     | 2.375  | 2.157  | 0.109 | 0.913  | 14.237 |
| H 19969 | 2     | 40     | 2.375  | 2.067  | 0.154 | 1.290  | 13.955 |
| H 19381 | 2     | 80     | 2.375  | 1.939  | 0.218 | 1.772  | 13.553 |
| H 19808 | 2 1/2 | 10     | 2.875  | 2.635  | 0.120 | 1.247  | 17.310 |
| H 19459 | 2 1/2 | 40     | 2.875  | 2.469  | 0.203 | 2.045  | 16.789 |
| H 19473 | 3     | 40     | 3.500  | 3.068  | 0.216 | 2.674  | 20.634 |
| H 19255 | 3     | 80     | 3.500  | 2.900  | 0.300 | 3.619  | 20.107 |
| H 19474 | 4     | 40     | 4.500  | 4.026  | 0.237 | 3.809  | 26.785 |
| H 19116 | 4     | 80     | 4.500  | 3.826  | 0.337 | 5.288  | 26.157 |
| H 19117 | 10    | 40     | 10.750 | 10.020 | 0.365 | 14.290 | 65.251 |

STRUCTURAL ANGLE  
UNEQUAL LEGS



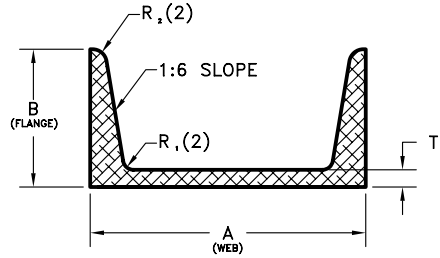
| DIE No.   | A     | B     | T     | R1    | R2    | W/FT  | PERIM  |
|---|-------|-------|-------|-------|-------|-------|--------|
| 19756   | 1.500 | 0.750 | 0.188 | 0.125 | 0.094 | 0.464 | 4.366  |
| 19669   | 1.500 | 1.000 | 0.125 | 0.188 | 0.125 | 0.358 | 4.795  |
| 19121   | 1.750 | 1.250 | 0.188 | 0.188 | 0.125 | 0.635 | 5.812  |
| 19692   | 2.000 | 1.500 | 0.125 | 0.188 | 0.125 | 0.508 | 6.812  |
| 19706   | 2.000 | 1.500 | 0.188 | 0.188 | 0.125 | 0.749 | 6.812  |
| 19705   | 2.500 | 2.000 | 0.188 | 0.250 | 0.125 | 0.980 | 8.785  |
| 19151   | 3.000 | 2.000 | 0.188 | SHARP | 0.188 | 1.067 | 9.792  |
| 19201   | 3.000 | 2.000 | 0.188 | 0.312 | 0.188 | 1.070 | 9.705  |
| 19395   | 3.000 | 2.000 | 0.188 | 0.250 | 0.188 | 1.084 | 9.731  |
| 19236   | 3.000 | 2.000 | 0.250 | 0.312 | 0.188 | 1.432 | 9.705  |
| 19476   | 3.000 | 2.000 | 0.375 | 0.312 | 0.188 | 2.088 | 9.705  |
| 19235   | 3.000 | 2.500 | 0.250 | 0.312 | 0.250 | 1.568 | 10.651 |
| 19472   | 3.500 | 2.500 | 0.375 | 0.312 | 0.250 | 2.524 | 11.651 |
| 19771   | 4.000 | 3.000 | 0.250 | 0.375 | 0.250 | 2.024 | 13.625 |
| 19876   | 4.000 | 3.000 | 0.312 | 0.375 | 0.250 | 2.512 | 13.624 |
| 19713   | 4.000 | 3.500 | 0.313 | 0.500 | 0.313 | 2.713 | 14.511 |
| 19231   | 4.000 | 3.000 | 0.375 | 0.375 | 0.250 | 2.986 | 13.624 |
| 19140   | 5.000 | 3.000 | 0.375 | 0.375 | 0.312 | 3.418 | 15.571 |
| NOTICE BREAK SHARP CORNERS AT 0.062 R. ON 19140 |       |       |       |       |       |       |        |
| 19230   | 5.000 | 3.500 | 0.375 | 0.438 | 0.312 | 3.655 | 16.544 |
| 19229   | 6.000 | 3.500 | 0.500 | 0.500 | 0.312 | 5.414 | 18.518 |

STRUCTURAL ANGLE  
EQUAL LEGS



| DIE No. | A     | T     | R1    | R2    | WT/FT | PERIM  |
|---------|-------|-------|-------|-------|-------|--------|
| 19700   | 0.750 | 0.125 | 0.125 | 0.094 | 0.205 | 2.846  |
| 19890   | 1.000 | 0.125 | 0.125 | 0.093 | 0.281 | 3.867  |
| 19562   | 1.000 | 0.188 | 0.125 | 0.094 | 0.408 | 3.866  |
| 19479   | 1.000 | 0.188 | 0.188 | 0.188 | 0.400 | 3.758  |
| 19663   | 1.000 | 0.250 | 0.125 | 0.094 | 0.524 | 3.866  |
| 19652   | 1.250 | 0.125 | 0.188 | 0.125 | 0.358 | 4.812  |
| 19461   | 1.250 | 0.188 | 0.125 |       | 0.526 | 4.946  |
| 19671   | 1.500 | 0.125 | 0.188 | 0.125 | 0.432 | 5.795  |
| 19995   | 1.500 | 0.187 | 0.187 | 0.125 | 0.632 | 5.808  |
| 19990   | 2.000 | 0.125 | 0.250 | 0.125 | 0.589 | 7.766  |
| 19677   | 2.000 | 0.188 | 0.250 | 0.125 | 0.865 | 7.766  |
| 19855   | 2.000 | 0.250 | 0.250 | 0.125 | 1.133 | 7.785  |
| 19662   | 2.000 | 0.375 | 0.250 | 0.125 | 1.639 | 7.785  |
| 19664   | 2.500 | 0.188 | 0.250 | 0.125 | 1.093 | 9.785  |
| 19668   | 2.500 | 0.250 | 0.250 | 0.125 | 1.433 | 9.766  |
| 19665   | 2.500 | 0.375 | 0.250 | 0.125 | 2.089 | 9.785  |
| 19638   | 3.000 | 0.187 | 0.312 | 0.250 | 1.304 | 11.670 |
| 19739   | 3.000 | 0.250 | 0.312 | 0.250 | 1.720 | 11.656 |
| 19667   | 3.000 | 0.375 | 0.312 | 0.250 | 2.524 | 11.651 |
| 19234   | 3.500 | 0.250 | 0.375 | 0.250 | 2.029 | 13.624 |
| 19367   | 4.000 | 0.312 | 0.375 | 0.250 | 2.882 | 15.624 |
| 19189   | 4.000 | 0.375 | 0.375 | 0.281 | 3.427 | 15.598 |

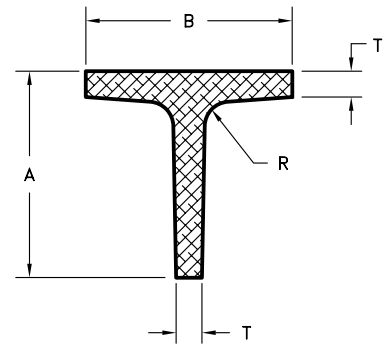
STRUCTURAL CHANNEL



| DIE No. | A      | DIM | B     | WEB/FLANGE | R1    | R2    | W/FT  | PERIM  |
|---------|--------|-----|-------|------------|-------|-------|-------|--------|
| 19740   | 3.000  | X   | 1.410 | 0.170      | 0.270 | 0.100 | 1.447 | 10.707 |
| 19676   | 3.000  | X   | 1.498 | 0.258      | 0.270 | 0.100 | 1.764 | 10.858 |
| 19858   | 4.000  | X   | 1.580 | 0.180      | 0.280 | 0.110 | 1.884 | 13.281 |
| 19656   | 4.000  | X   | 1.647 | 0.247      | 0.280 | 0.110 | 2.206 | 13.441 |
| 19697   | 4.000  | X   | 1.720 | 0.320      | 0.280 | 0.110 | 2.556 | 13.561 |
| 19750   | 5.000  | X   | 1.750 | 0.190      | 0.290 | 0.110 | 2.363 | 15.912 |
| 19294   | 6.000  | X   | 1.920 | 0.200      | 0.300 | 0.120 | 2.884 | 18.512 |
| 19661   | 6.000  | X   | 1.945 | 0.225      | 0.300 | 0.120 | 3.064 | 18.562 |
| 19295   | 6.000  | X   | 2.034 | 0.314      | 0.300 | 0.120 | 3.704 | 18.740 |
| 19353   | 8.000  | X   | 2.290 | 0.250      | 0.320 | 0.130 | 4.339 | 10.707 |
| 19288   | 8.000  | X   | 2.527 | 0.487      | 0.320 | 0.131 | 6.614 | 24.250 |
| 19287   | 10.000 | X   | 2.600 | 0.240      | 0.340 | 0.140 | 5.387 | 28.921 |
| 19278   | 10.000 | X   | 2.886 | 0.526      | 0.340 | 0.140 | 8.819 | 29.493 |
| 19187   | 12.000 | X   | 2.960 | 0.300      | 0.380 | 0.170 | 7.411 | 34.109 |

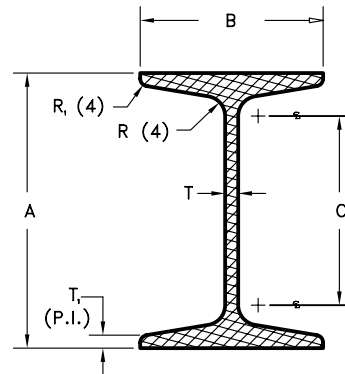


STRUCTURAL TEE



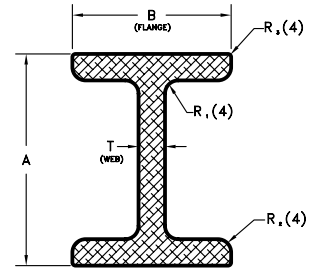
| DIE No. | A     | B     | T     | R     | WT/FT | PERIM |
|---------|-------|-------|-------|-------|-------|-------|
| 19351   | 2.000 | 2.000 | 0.250 | 0.240 | 1.279 | 7.653 |
| 19114   | 2.500 | 2.500 | 0.312 | 0.250 | 1.949 | 9.635 |

I BEAM



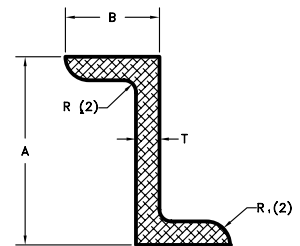
| DIE No. | A     | B     | C     | T     | T1    | R     | R1    | WT/FT | PERIM  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 19307   | 4.000 | 2.660 | 2.750 | 0.190 | 0.174 | 0.290 | 0.110 | 2.600 | 17.043 |
| 19332   | 5.000 | 3.000 | 3.590 | 0.210 | 0.210 | 0.310 | 0.130 | 3.498 | 20.166 |
| 19144   | 5.000 | 5.000 | 3.436 | 0.313 | 0.330 | 0.313 | 0.165 | 6.496 | 27.978 |
| 19135   | 6.000 | 3.330 | 4.464 | 0.230 | 0.230 | 0.330 | 0.140 | 4.390 | 23.316 |
| 19134   | 8.000 | 4.000 | 6.231 | 0.270 | 0.260 | 0.370 | 0.160 | 6.387 | 29.655 |

### WIDE FLANGE BEAMS



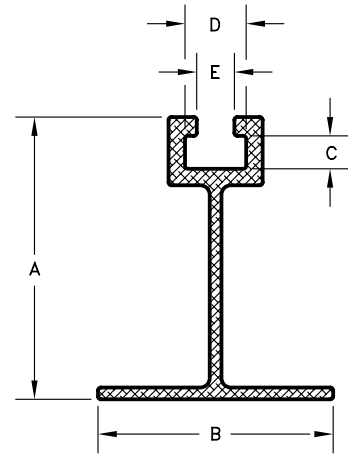
| DIE No. | A     | B     | WEB/FLANGE  | R1    | R2    | R3    | WT/FT | PERIM  |
|---------|-------|-------|-------------|-------|-------|-------|-------|--------|
| 19104   | 6.000 | 6.000 | 0.240/0.269 | 0.250 | 0.031 | 0.031 | 5.509 | 34.984 |

### ZEE



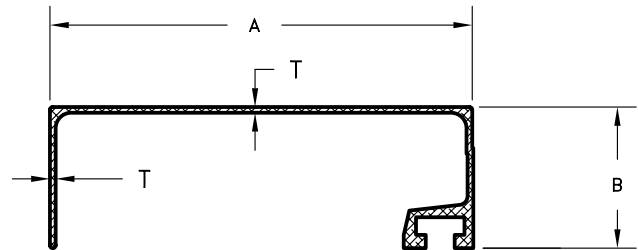
| DIE No. | A     | DIM   | T     | R1    | R2    | WT/FT | PERIM  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| 19115   | 4.062 | 3.063 | 0.312 | 0.250 | 0.312 | 3.599 | 19.268 |

WIND BEAM

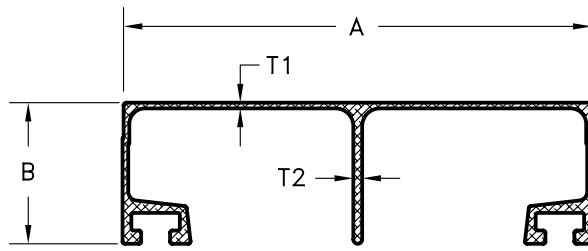


| DIE No. | A     | B     | C     | D     | E     | WT/FT | PERIM  |
|---------|-------|-------|-------|-------|-------|-------|--------|
| 14796   | 3.000 | 2.500 | 0.350 | 0.650 | 0.400 | 1.207 | 13.977 |

6" SIGN PANEL

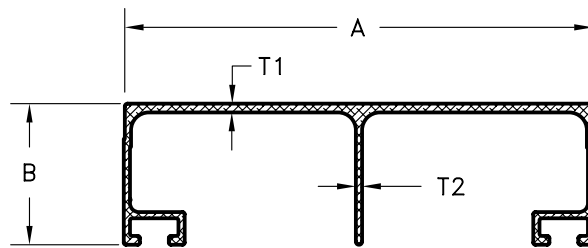


| DIE No. | A     | B     | T     | WT/FT | PERIM  |
|---------|-------|-------|-------|-------|--------|
| 14795   | 6.000 | 2.000 | 0.081 | 1.292 | 22.631 |



LIGHT WEIGHT SIGN PANEL

| DIE No. | A      | B     | T1    | T2    | WT/FT | PERIM  |
|---------|--------|-------|-------|-------|-------|--------|
| 14793   | 12.000 | 2.000 | 0.081 | 0.125 | 2.475 | 40.938 |
| 14794   | 12.000 | 2.000 | 0.115 | 0.088 | 2.684 | 40.348 |



HEAVY WEIGHT SIGN PANEL

| DIE No. | A      | B     | T1    | T2    | WT/FT | PERIM  |
|---------|--------|-------|-------|-------|-------|--------|
| 14792   | 12.000 | 2.000 | 0.125 | 0.088 | 2.824 | 40.308 |