

STANDARD PRODUCTS DIE CATALOG

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Welcome to Nanshan America's new and fully integrated extrusion facility in Lafayette, Indiana. We aim to be the industry leading producer of quality standard aluminum extrusions while providing exceptional service and competitive prices to our service center community. We hope you enjoy our new standard die catalog and thank you for your interest in Nanshan America.



Table of Contents

| | |
|------------------------------------|-------|
| Rod | 3-4 |
| Rectangular Bar & Manifold Bar | 5-12 |
| Square Bar | 13 |
| Hexagonal Bar | 14 |
| Tube - Structural | 15-16 |
| Pipe - Structural | 17-18 |
| Square Tube | 19 |
| Square Tube Radius Corners | 20 |
| Rectangular Tube | 21 |
| American Standard Equal Angle | 22 |
| American Standard Unequal Angle | 23 |
| Architectural Equal Angle | 24 |
| Architectural Unequal Angle | 25 |
| American Standard Channel | 26 |
| Aluminum Association Channel | 27 |
| Architectural Channel | 28 |
| American Standard I-Beam | 29 |
| Aluminum Association I-Beam | 30 |
| American Standard H-Beam | 31 |
| American Standard Wide Flange Beam | 32 |
| American Standard Tee | 33 |
| Canadian Tee | 34 |
| Miscellaneous Tee | 35 |



Rod

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Weight Lb/Ft |
|------------|------------------|--------------|
| 1001 | 0.750 (+/-0.004) | 0.520 |
| 1418 | 0.812 (+/-0.004) | 0.610 |
| 1002 | 0.875 (+/-0.004) | 0.707 |
| 1003 | 1.000 (+/-0.004) | 0.924 |
| 1004 | 1.125 (+/-0.005) | 1.169 |
| 1005 | 1.250 (+/-0.005) | 1.443 |
| 1006 | 1.375 (+/-0.005) | 1.746 |
| 1007 | 1.500 (+/-0.005) | 2.078 |
| 1389 | 1.562 (+/-0.005) | 2.253 |
| 1008 | 1.625 (+/-0.005) | 2.439 |
| 1009 | 1.750 (+/-0.005) | 2.829 |
| 1010 | 1.875 (+/-0.005) | 3.247 |
| 1011 | 2.000 (+/-0.008) | 3.695 |
| 1012 | 2.125 (+/-0.008) | 4.171 |
| 1013 | 2.250 (+/-0.008) | 4.676 |
| 1014 | 2.375 (+/-0.008) | 5.210 |
| 1015 | 2.500 (+/-0.008) | 5.773 |
| 1016 | 2.625 (+/-0.008) | 6.364 |
| 1017 | 2.750 (+/-0.008) | 6.985 |
| 1018 | 2.875 (+/-0.008) | 7.634 |
| 1019 | 3.000 (+/-0.008) | 8.313 |
| 1020 | 3.125 (+/-0.012) | 9.020 |
| 1021 | 3.250 (+/-0.012) | 9.756 |
| 1022 | 3.375 (+/-0.012) | 10.521 |
| 1023 | 3.500 (+/-0.012) | 11.314 |
| 1024 | 3.625 (+/-0.012) | 12.137 |
| 1025 | 3.750 (+/-0.012) | 12.989 |

Rod

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy

| | | |
|------|------------------|--------|
| 1026 | 3.875 (+/-0.012) | 13.869 |
| 1027 | 4.000 (+/-0.017) | 14.778 |
| 1028 | 4.125 (+/-0.017) | 15.716 |
| 1029 | 4.250 (+/-0.017) | 16.683 |
| 1030 | 4.375 (+/-0.017) | 17.679 |
| 1031 | 4.500 (+/-0.017) | 18.703 |
| 1032 | 4.625 (+/-0.017) | 19.757 |
| 1033 | 4.750 (+/-0.017) | 20.839 |
| 1034 | 4.875 (+/-0.017) | 21.951 |
| 1035 | 5.000 (+/-0.017) | 23.091 |
| 1036 | 5.125 (+/-0.017) | 24.260 |
| 1037 | 5.250 (+/-0.017) | 25.458 |
| 1038 | 5.375 (+/-0.017) | 26.684 |
| 1039 | 5.500 (+/-0.017) | 27.940 |
| 1040 | 5.625 (+/-0.017) | 29.224 |
| 1041 | 5.750 (+/-0.017) | 30.537 |
| 1042 | 5.875 (+/-0.017) | 31.880 |
| 1043 | 6.000 (+/-0.022) | 33.251 |
| 1044 | 6.125 (+/-0.022) | 34.650 |
| 1045 | 6.250 (+/-0.022) | 36.079 |
| 1298 | 6.500 (+/-0.022) | 39.023 |
| 1347 | 6.750 (+/-0.022) | 42.083 |
| 1210 | 7.000 (+/-0.022) | 45.258 |
| 1373 | 7.250 (+/-0.022) | 48.548 |
| 1348 | 7.500 (+/-0.022) | 51.954 |





Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|------------------|-------------------|--------------|
| 1483 | 0.188 (+/-0.007) | 3.000 (+/-0.024) | 0.663 |
| 1116 | 0.188 (+/-0.007) | 4.000 (+/-0.034) | 0.882 |
| 1096 | 0.250 (+/-0.008) | 2.000 (+/-0.024) | 0.588 |
| 1113 | 0.250 (+/-0.008) | 3.000 (+/-0.024) | 0.882 |
| 1117 | 0.250 (+/-0.004) | 4.000 (+/-0.017) | 1.176 |
| 1304 | 0.250 (+/-0.008) | 4.500 (+/-0.034) | 1.323 |
| 1099 | 0.250 (+/-0.008) | 6.000 (+/-0.044) | 1.764 |
| 1486 | 0.250 (+/-0.008) | 8.000 (+/-0.054) | 2.352 |
| 1111 | 0.375 (+/-0.008) | 2.000 (+/-0.024) | 0.882 |
| 1610 | 0.375 (+/-0.008) | 2.500 (+/-0.024) | 1.102 |
| 1114 | 0.375 (+/-0.008) | 3.000 (+/-0.024) | 1.323 |
| 1506 | 0.375 (+/-0.008) | 4.000 (+/-0.034) | 1.764 |
| 1499 | 0.375 (+/-0.008) | 5.000 (+/-0.034) | 2.205 |
| 1100 | 0.375 (+/-0.008) | 6.000 (+/-0.044) | 2.646 |
| 1120 | 0.375 (+/-0.008) | 8.000 (+/-0.054) | 3.528 |
| 1451 | 0.375 (+/-0.016) | 12.000 (+/-0.084) | 5.292 |

Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



Manifold Quality

| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|-------------------------|--------------------------|--------------|
| 1524 | 0.500 (+.009/- .000) | 1.000 (+.012/- .000) | 0.588 |
| 1525 | 0.500 (+.009/- .000) | 1.250 (+.012/- .000) | 0.735 |
| 1112 | 0.500 (+.009/- .000) | 2.000 (+.024/- .000) | 1.176 |
| 1500 | 0.500 (+.009/- .000) | 2.500 (+.024/- .000) | 1.470 |
| 1115 | 0.500 (+.009/- .000) | 3.000 (+.024/- .000) | 1.764 |
| 1098 | 0.500 (+.009/- .000) | 4.000 (+.034/- .000) | 2.352 |
| 1488 | 0.500 (+.009/- .000) | 5.000 (+.034/- .000) | 2.940 |
| 1101 | 0.500 (+.009/- .000) | 6.000 (+.044/- .000) | 3.528 |
| 1212 | 0.500 (+.009/- .000) | 7.000 (+.044/- .000) | 4.116 |
| 1432 | 0.500 (+.009/- .000) | 8.000 (+.054/- .000) | 4.704 |
| 1441 | 0.500 (+.017/- .000) | 10.000 (+.074/- .000) | 5.880 |
| 1158 | 0.500 (+.017/- .000) | 12.000 (+.084/- .000) | 7.056 |
| 1641 | 0.625 (+.009/- .000) | 1.250 (+.012/- .000) | 0.918 |

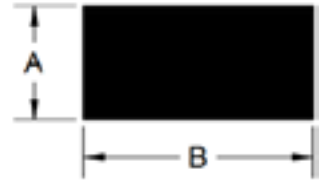


Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|---------------------|----------------------|--------------|
| 1526 | 0.625 (+.009/-.000) | 1.500 (+.014/-.000) | 1.103 |
| 1166 | 0.625 (+.009/-.000) | 2.000 (+.024/-.000) | 1.470 |
| 1403 | 0.625 (+.009/-.000) | 2.500 (+.024/-.000) | 1.838 |
| 1436 | 0.625 (+.009/-.000) | 3.000 (+.024/-.000) | 2.205 |
| 1600 | 0.625 (+.009/-.000) | 5.000 (+.034/-.000) | 3.675 |
| 1453 | 0.625 (+.009/-.000) | 6.000 (+.044/-.000) | 4.410 |
| 1520 | 0.625 (+.017/-.000) | 10.000 (+.074/-.000) | 7.350 |
| 1527 | 0.750 (+.010/-.000) | 1.000 (+.012/-.000) | 0.882 |
| 1452 | 0.750 (+.010/-.000) | 1.500 (+.014/-.000) | 1.323 |
| 1225 | 0.750 (+.010/-.000) | 2.000 (+.024/-.000) | 1.764 |
| 1397 | 0.750 (+.010/-.000) | 2.250 (+.024/-.000) | 1.985 |
| 1367 | 0.750 (+.010/-.000) | 2.500 (+.024/-.000) | 2.205 |
| 1437 | 0.750 (+.010/-.000) | 3.000 (+.024/-.000) | 2.646 |
| 1267 | 0.750 (+.010/-.000) | 3.500 (+.024/-.000) | 3.087 |
| 1151 | 0.750 (+.010/-.000) | 4.000 (+.034/-.000) | 3.528 |
| 1601 | 0.750 (+.010/-.000) | 4.500 (+.034/-.000) | 3.969 |
| 1153 | 0.750 (+.010/-.000) | 5.000 (+.034/-.000) | 4.410 |

Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|----------------------|-----------------------|--------------|
| 1438 | 0.750 (+.010/-0.000) | 6.000 (+.044/-0.000) | 5.292 |
| 1219 | 0.750 (+.010/-0.000) | 7.000 (+.044/-0.000) | 6.174 |
| 1307 | 0.750 (+.010/-0.000) | 8.000 (+.054/-0.000) | 7.056 |
| 1346 | 0.750 (+.018/-0.000) | 10.000 (+.074/-0.000) | 8.820 |
| 1167 | 0.750 (+.018/-0.000) | 12.000 (+.084/-0.000) | 10.584 |
| 1513 | 0.875 (+.010/-0.000) | 3.000 (+.024/-0.000) | 3.087 |
| 1634 | 0.875 (+.010/-0.000) | 6.000 (+.044/-0.000) | 6.174 |
| 1614 | 0.875 (+.010/-0.000) | 8.000 (+.054/-0.000) | 8.232 |
| 1450 | 1.000 (+.012/-0.000) | 1.250 (+.012/-0.000) | 1.470 |
| 1358 | 1.000 (+.012/-0.000) | 1.500 (+.014/-0.000) | 1.764 |
| 1343 | 1.000 (+.012/-0.000) | 1.750 (+.014/-0.000) | 2.058 |
| 1221 | 1.000 (+.012/-0.000) | 2.000 (+.024/-0.000) | 2.352 |
| 1467 | 1.000 (+.012/-0.000) | 2.250 (+.024/-0.000) | 2.646 |
| 1492 | 1.000 (+.012/-0.000) | 2.500 (+.024/-0.000) | 2.940 |
| 1398 | 1.000 (+.012/-0.000) | 3.000 (+.024/-0.000) | 3.528 |
| 1353 | 1.000 (+.012/-0.000) | 3.500 (+.024/-0.000) | 4.116 |
| 1118 | 1.000 (+.012/-0.000) | 4.000 (+.034/-0.000) | 4.704 |



Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|----------------------|-----------------------|--------------|
| 1482 | 1.000 (+.012/-0.000) | 4.500 (+.034/-0.000) | 5.292 |
| 1442 | 1.000 (+.012/-0.000) | 5.000 (+.034/-0.000) | 5.880 |
| 1119 | 1.000 (+.012/-0.000) | 6.000 (+.044/-0.000) | 7.056 |
| 1723 | 1.000 (+.012/-0.000) | 8.000 (+.054/-0.000) | 9.408 |
| 1370 | 1.000 (+.019/-0.000) | 10.000 (+.074/-0.000) | 11.760 |
| 1352 | 1.000 (+.019/-0.000) | 12.000 (+.084/-0.000) | 14.112 |
| 1291 | 1.250 (+.012/-0.000) | 1.500 (+.014/-0.000) | 2.205 |
| 1351 | 1.250 (+.012/-0.000) | 1.750 (+.014/-0.000) | 2.573 |
| 1426 | 1.250 (+.012/-0.000) | 2.000 (+.024/-0.000) | 2.940 |
| 1220 | 1.250 (+.012/-0.000) | 2.500 (+.024/-0.000) | 3.675 |
| 1413 | 1.250 (+.012/-0.000) | 3.000 (+.024/-0.000) | 4.410 |
| 1477 | 1.250 (+.012/-0.000) | 3.500 (+.024/-0.000) | 5.145 |
| 1412 | 1.250 (+.012/-0.000) | 4.000 (+.034/-0.000) | 5.880 |
| 1541 | 1.250 (+.012/-0.000) | 4.500 (+.034/-0.000) | 6.615 |
| 1566 | 1.250 (+.012/-0.000) | 5.000 (+.034/-0.000) | 7.350 |
| 1408 | 1.250 (+.012/-0.000) | 6.000 (+.044/-0.000) | 8.820 |
| 1359 | 1.500 (+.014/-0.000) | 2.000 (+.024/-0.000) | 3.528 |
| 1439 | 1.500 (+.014/-0.000) | 2.500 (+.024/-0.000) | 4.410 |
| 1402 | 1.500 (+.012/-0.000) | 3.000 (+.024/-0.000) | 5.292 |
| 1150 | 1.500 (+.014/-0.000) | 3.500 (+.024/-0.000) | 6.174 |
| 1414 | 1.500 (+.014/-0.000) | 4.000 (+.034/-0.000) | 7.056 |
| 1440 | 1.500 (+.014/-0.000) | 5.000 (+.034/-0.000) | 8.820 |
| 1628 | 1.500 (+.014/-0.000) | 5.500 (+.034/-0.000) | 9.702 |



Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy

| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|---------------------|----------------------|--------------|
| 1372 | 1.500 (+.014/-.000) | 6.000 (+.044/-.000) | 10.584 |
| 1181 | 1.500 (+.014/-.000) | 7.500 (+.044/-.000) | 13.230 |
| 1375 | 1.500 (+.014/-.000) | 8.000 (+.054/-.000) | 14.112 |
| 1168 | 1.500 (+.014/-.000) | 10.000 (+.074/-.000) | 17.640 |
| 1473 | 1.750 (+.014/-.000) | 2.000 (+.024/-.000) | 4.116 |
| 1270 | 1.750 (+.014/-.000) | 2.500 (+.024/-.000) | 5.145 |
| 1350 | 1.750 (+.014/-.000) | 3.000 (+.024/-.000) | 6.174 |
| 1732 | 1.750 (+.014/-.000) | 3.500 (+.024/-.000) | 7.203 |
| 1416 | 1.750 (+.014/-.000) | 5.000 (+.034/-.000) | 10.290 |
| 1405 | 2.000 (+.024/-.000) | 2.250 (+.024/-.000) | 5.292 |
| 1476 | 2.000 (+.024/-.000) | 2.500 (+.024/-.000) | 5.880 |



Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Weight Lb/Ft |
|------------|---------------------|----------------------|--------------|
| 1427 | 2.000 (+.024/-.000) | 3.000 (+.024/-.000) | 7.056 |
| 1399 | 2.000 (+.024/-.000) | 3.500 (+.024/-.000) | 8.232 |
| 1422 | 2.000 (+.024/-.000) | 4.000 (+.034/-.000) | 9.408 |
| 1475 | 2.000 (+.024/-.000) | 4.500 (+.034/-.000) | 10.584 |
| 1409 | 2.000 (+.024/-.000) | 5.000 (+.034/-.000) | 11.760 |
| 1385 | 2.000 (+.024/-.000) | 6.000 (+.044/-.000) | 14.112 |
| 1349 | 2.000 (+.024/-.000) | 8.000 (+.054/-.000) | 18.816 |
| 1468 | 2.000 (+.034/-.000) | 10.000 (+.074/-.000) | 23.520 |
| 1702 | 2.250 (+.024/-.000) | 3.000 (+.024/-.000) | 7.938 |
| 1415 | 2.500 (+.024/-.000) | 3.000 (+.024/-.000) | 8.820 |
| 1428 | 2.500 (+.024/-.000) | 3.500 (+.024/-.000) | 10.290 |
| 1355 | 2.500 (+.024/-.000) | 4.000 (+.034/-.000) | 10.584 |
| 1406 | 2.500 (+.024/-.000) | 5.000 (+.034/-.000) | 14.700 |
| 1514 | 2.500 (+.024/-.000) | 5.500 (+.024/-.000) | 12.348 |
| 1376 | 2.500 (+.024/-.000) | 6.000 (+.044/-.000) | 17.640 |
| 1548 | 2.500 (+.024/-.000) | 6.500 (+.044/-.000) | 19.110 |
| 1183 | 2.500 (+.024/-.000) | 8.000 (+.054/-.000) | 23.520 |
| 1445 | 3.000 (+.024/-.000) | 3.500 (+.024/-.000) | 12.348 |
| 1377 | 3.000 (+.024/-.000) | 4.000 (+.034/-.000) | 14.112 |
| 1378 | 3.000 (+.024/-.000) | 5.000 (+.034/-.000) | 17.640 |
| 1423 | 3.000 (+.024/-.000) | 6.000 (+.044/-.000) | 21.168 |
| 1317 | 3.000 (+.024/-.000) | 7.000 (+.044/-.000) | 24.696 |
| 1444 | 3.000 (+.024/-.000) | 8.000 (+.054/-.000) | 28.224 |

Rectangular Bar / Manifold Bar

Bars .500" or thicker meet manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy

| | | | |
|------|---------------------|---------------------|--------|
| 1424 | 3.500 (+.024/-.000) | 4.000 (+.034/-.000) | 16.464 |
| 1425 | 3.500 (+.024/-.000) | 4.500 (+.034/-.000) | 18.522 |
| 1530 | 3.500 (+.024/-.000) | 6.000 (+.044/-.000) | 24.696 |
| 1724 | 4.000 (+.034/-.000) | 4.500 (+.034/-.000) | 21.168 |
| 1379 | 4.000 (+.034/-.000) | 5.000 (+.034/-.000) | 23.520 |
| 1356 | 4.000 (+.034/-.000) | 6.000 (+.044/-.000) | 28.224 |
| 1410 | 4.000 (+.034/-.000) | 8.000 (+.054/-.000) | 37.632 |
| 1639 | 4.500 (+.034/-.000) | 5.000 (+.034/-.000) | 26.460 |
| 1478 | 4.500 (+.034/-.000) | 5.500 (+.034/-.000) | 29.106 |
| 1690 | 4.500 (+.034/-.000) | 7.500 (+.044/-.000) | 39.631 |
| 1395 | 5.000 (+.034/-.000) | 5.500 (+.034/-.000) | 32.340 |
| 1404 | 5.000 (+.034/-.000) | 6.000 (+.044/-.000) | 35.280 |
| 1640 | 5.000 (+.034/-.000) | 7.000 (+.044/-.000) | 41.160 |





Square Bar

All square bar meets manifold bar requirements

Tolerances listed apply to 6061-T6511

Weight is based on 6061 alloy



| Die Number | Dimension A | Weight Lb/Ft |
|------------|---------------------|--------------|
| 1471 | 1.000 (+.012/-.000) | 1.176 |
| 1472 | 1.250 (+.012/-.000) | 1.838 |
| 1528 | 1.500 (+.014/-.000) | 2.646 |
| 1531 | 1.750 (+.014/-.000) | 3.602 |
| 1419 | 2.000 (+.024/-.000) | 4.704 |
| 1197 | 2.250 (+.024/-.000) | 5.954 |
| 1386 | 2.500 (+.024/-.000) | 7.350 |
| 1387 | 3.000 (+.024/-.000) | 10.584 |
| 1429 | 3.500 (+.024/-.000) | 14.406 |
| 1268 | 4.000 (+.034/-.000) | 18.816 |
| 1549 | 4.500 (+.034/-.000) | 23.895 |
| 1354 | 5.000 (+.034/-.000) | 29.400 |
| 1474 | 5.500 (+.034/-.000) | 35.574 |
| 1420 | 6.000 (+.044/-.000) | 42.336 |

Hexagonal Bar

Tolerances listed apply to 6061-T6511
Weight is based on 6061 alloy



| Die Number | Dimension A | Weight Lb/Ft |
|------------|---------------------|--------------|
| 1274 | 0.750 (+.005/-.005) | 0.573 |
| 1604 | 0.784 (+.005/-.005) | 0.626 |
| 1553 | 0.820 (+.005/-.005) | 0.686 |
| 1552 | 1.000 (+.006/-.006) | 1.018 |
| 1299 | 1.125 (+.006/-.006) | 1.289 |
| 1743 | 1.338 (+.006/-.006) | 1.823 |
| 1597 | 1.375 (+.006/-.006) | 1.925 |
| 1097 | 2.000 (+.012/-.012) | 4.074 |
| 1209 | 2.500 (+.012/-.012) | 6.366 |
| 1597 | 1.375 (+.006/-.006) | |
| 1097 | 2.000 (+.012/-.012) | |
| 1209 | 2.500 (+.012/-.012) | |



Tube - Structural

Weight is based on 6061 alloy



| Die Number | Dimension A | Dimension B | Dimension C | Weight Lb/Ft |
|------------|-------------|-------------|-------------|--------------|
| 1391 | 1.250 | 1.000 | 0.125 | 0.520 |
| 1575 | 1.250 | 0.874 | 0.188 | 0.737 |
| 1121 | 1.351 | 1.031 | 0.160 | 0.722 |
| 1637 | 1.500 | 1.250 | 0.125 | 0.635 |
| 1501 | 2.000 | 1.750 | 0.125 | 0.866 |
| 1286 | 2.000 | 1.500 | 0.250 | 1.616 |
| 1185 | 2.750 | 2.000 | 0.375 | 3.290 |
| 1462 | 3.000 | 2.500 | 0.250 | 2.540 |
| 1155 | 3.000 | 2.250 | 0.375 | 3.637 |
| 1135 | 3.000 | 2.000 | 0.500 | 4.618 |
| 1602 | 3.250 | 2.750 | 0.250 | 2.771 |
| 1568 | 3.500 | 2.000 | 0.750 | 7.620 |
| 1193 | 3.750 | 2.750 | 0.500 | 6.004 |
| 1447 | 4.000 | 3.750 | 0.125 | 1.790 |
| 1288 | 4.000 | 3.500 | 0.250 | 3.464 |
| 1744 | 4.000 | 3.250 | 0.375 | 5.023 |
| 1095 | 4.000 | 2.500 | 0.750 | 9.006 |
| 1369 | 4.500 | 3.500 | 0.500 | 7.389 |
| 1090 | 4.750 | 3.750 | 0.500 | 7.851 |
| 1047 | 5.000 | 4.750 | 0.125 | 2.251 |
| 1093 | 5.500 | 4.750 | 0.375 | 7.100 |
| 1745 | 5.500 | 4.000 | 0.750 | 13.162 |
| 1290 | 6.000 | 5.000 | 0.500 | 10.160 |
| 1735 | 6.000 | 4.000 | 1.000 | 18.473 |
| 1048 | 6.450 | 6.074 | 0.188 | 4.350 |

Tube - Structural

Weight is based on 6061 alloy

| Die Number | Dimension A | Dimension B | Dimension C | Weight Lb/Ft |
|------------|-------------|-------------|-------------|--------------|
| 1217 | 6.625 | 5.761 | 0.432 | 9.884 |
| 1207 | 6.646 | 6.000 | 0.323 | 7.545 |
| 1630 | 7.000 | 6.000 | 0.500 | 12.007 |
| 1746 | 7.000 | 5.000 | 1.000 | 12.007 |
| 1643 | 7.500 | 6.500 | 0.500 | 12.931 |
| 1295 | 7.500 | 6.000 | 0.750 | 18.703 |
| 1365 | 8.000 | 7.750 | 0.125 | 3.637 |
| 1360 | 8.000 | 6.500 | 0.750 | 20.830 |
| 1631 | 8.500 | 7.500 | 0.500 | 14.778 |
| 1635 | 9.000 | 8.000 | 0.500 | 15.702 |
| 1465 | 9.000 | 7.000 | 1.000 | 29.556 |
| 1598 | 10.000 | 9.624 | 0.188 | 6.815 |
| 1257 | 12.000 | 11.500 | 0.250 | 10.852 |
| 1594 | 12.000 | 10.500 | 0.750 | 31.172 |





Pipe - Structural



Weight is based on 6061 alloy

| Die Number | Designation | | Dimension | | | Weight Lb/Ft |
|------------|-------------|--------------|-----------|--------|----------|--------------|
| | Pipe Size | Schedule No. | A (OD) | B (ID) | C (WALL) | |
| 1055 | 1.00 | 40 | 1.315 | 1.049 | 0.133 | 0.581 |
| 1056 | 1.25 | 40 | 1.660 | 1.380 | 0.140 | 0.786 |
| 1417 | 1.25 | 80 | 1.660 | 1.278 | 0.191 | 1.037 |
| 1572 | 1.25 | 160 | 1.660 | 1.160 | 0.250 | 1.302 |
| 1057 | 1.50 | 40 | 1.900 | 1.610 | 0.145 | 0.940 |
| 1485 | 1.50 | 80 | 1.900 | 1.500 | 0.200 | 1.256 |
| 1573 | 1.50 | 160 | 1.900 | 1.338 | 0.281 | 1.681 |
| 1058 | 2.00 | 40 | 2.375 | 2.067 | 0.154 | 1.264 |
| 1318 | 2.00 | 80 | 2.375 | 1.939 | 0.218 | 1.737 |
| 1059 | 2.50 | 40 | 2.875 | 2.469 | 0.203 | 2.004 |
| 1316 | 2.50 | 80 | 2.875 | 2.323 | 0.276 | 2.650 |
| 1570 | 3.00 | 10 | 3.500 | 3.260 | 0.120 | 1.498 |
| 1050 | 3.00 | 40 | 3.500 | 3.068 | 0.216 | 2.621 |
| 1319 | 3.00 | 80 | 3.500 | 2.900 | 0.300 | 3.547 |
| 1574 | 3.00 | 160 | 3.500 | 2.624 | 0.438 | 4.955 |
| 1051 | 3.50 | 40 | 4.000 | 3.548 | 0.226 | 3.151 |
| 1551 | 3.50 | 80 | 4.000 | 3.364 | 0.318 | 4.326 |
| 1644 | 4.00 | 10 | 4.500 | 4.260 | 0.120 | 1.942 |
| 1052 | 4.00 | 40 | 4.500 | 4.026 | 0.237 | 3.733 |
| 1326 | 4.00 | 80 | 4.500 | 3.826 | 0.337 | 5.183 |
| 1053 | 5.00 | 40 | 5.563 | 5.047 | 0.258 | 5.057 |
| 1297 | 5.00 | 80 | 5.563 | 4.813 | 0.375 | 7.188 |
| 1054 | 6.00 | 40 | 6.625 | 6.065 | 0.280 | 6.564 |
| 1217 | 6.00 | 80 | 6.625 | 5.761 | 0.432 | 9.884 |

Pipe - Structural

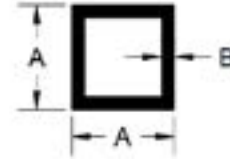


Weight is based on 6061 alloy

| Die Number | Designation | | Dimension | | | Weight Lb/Ft |
|------------|-------------|--------------|-----------|--------|----------|--------------|
| | Pipe Size | Schedule No. | A (OD) | B (ID) | C (WALL) | |
| 1076 | 8.00 | 40 | 8.625 | 7.981 | 0.322 | 9.878 |
| 1174 | 8.00 | 80 | 8.625 | 7.625 | 0.500 | 15.010 |
| 1077 | 10.00 | 40 | 10.750 | 10.020 | 0.365 | 14.000 |
| 1175 | 10.00 | 80 | 10.750 | 9.562 | 0.594 | 22.290 |
| 1078 | 12.00 | 40 | 12.750 | 11.938 | 0.406 | 18.520 |
| 1218 | 12.00 | 80 | 12.750 | 11.374 | 0.688 | 30.660 |

Square - Tube

Weight is based on 6061 alloy



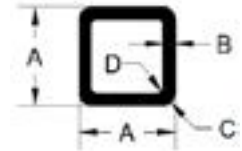
| Die Number | Dimension | | Weight Lb/Ft |
|------------|-----------|-------|--------------|
| | A | B | |
| 1122 | 1.000 | 0.125 | 0.515 |
| 1344 | 1.250 | 0.125 | 0.662 |
| 1128 | 1.500 | 0.125 | 0.809 |
| 1222 | 2.000 | 0.125 | 1.103 |
| 1366 | 2.000 | 0.188 | 1.602 |
| 1109 | 2.000 | 0.250 | 2.058 |
| 1237 | 2.500 | 0.125 | 1.397 |
| 1129 | 2.500 | 0.188 | 2.039 |
| 1130 | 2.500 | 0.250 | 2.646 |
| 1224 | 3.000 | 0.125 | 1.691 |
| 1131 | 3.000 | 0.250 | 3.234 |
| 1258 | 3.000 | 0.375 | 4.631 |
| 1576 | 3.000 | 0.500 | 5.880 |
| 1577 | 3.500 | 0.250 | 3.822 |
| 1223 | 4.000 | 0.125 | 2.279 |
| 1260 | 4.000 | 0.250 | 4.410 |
| 1172 | 4.000 | 0.375 | 6.395 |
| 1578 | 4.000 | 0.500 | 8.232 |
| 1579 | 5.000 | 0.375 | 8.159 |
| 1198 | 6.000 | 0.125 | 3.455 |
| 1469 | 6.000 | 0.250 | 6.762 |
| 1213 | 6.000 | 0.375 | 9.923 |
| 1435 | 6.000 | 0.500 | 12.936 |
| 1534 | 8.000 | 0.188 | 6.891 |
| 1228 | 8.000 | 0.250 | 9.114 |
| 1242 | 8.000 | 0.375 | 13.451 |
| 1234 | 8.000 | 0.500 | 17.640 |



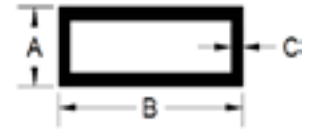
Square Tube Radius Corners

Weight is based on 6061 alloy

| Die Number | Dimension | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|--------------|
| | A | B. | C | D | |
| 1108 | 2.000 | 0.188 | 0.180 | 0.062 | 1.599 |
| 1504 | 2.000 | 0.250 | 0.375 | 0.125 | 1.932 |



Rectangular Tube



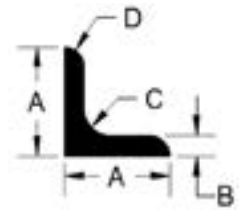
Weight is based on 6061 alloy

| Die Number | Dimension | | | Weight Lb/Ft |
|------------|-----------|-------|-------|--------------|
| | A | B | C | |
| 1285 | 1.000 | 1.500 | 0.125 | 0.662 |
| 1239 | 1.000 | 2.000 | 0.125 | 0.809 |
| 1519 | 1.000 | 3.000 | 0.125 | 1.103 |
| 1645 | 1.000 | 4.000 | 0.125 | 1.397 |
| 1238 | 1.000 | 5.000 | 0.125 | 1.691 |
| 1615 | 1.000 | 6.000 | 0.125 | 1.985 |
| 1287 | 1.500 | 2.000 | 0.125 | 0.956 |
| 1470 | 1.500 | 2.500 | 0.125 | 1.103 |
| 1481 | 1.500 | 3.000 | 0.125 | 1.250 |
| 1522 | 1.750 | 3.000 | 0.125 | 1.323 |
| 1152 | 2.000 | 3.000 | 0.125 | 1.397 |
| 1536 | 2.000 | 3.000 | 0.250 | 2.646 |
| 1314 | 2.000 | 4.000 | 0.125 | 1.691 |
| 1511 | 2.000 | 4.000 | 0.188 | 2.487 |
| 1110 | 2.000 | 4.000 | 0.250 | 3.234 |
| 1480 | 2.000 | 6.000 | 0.125 | 2.279 |
| 1236 | 2.000 | 8.000 | 0.125 | 2.867 |
| 1550 | 2.000 | 5.000 | 0.125 | 1.985 |
| 1368 | 2.000 | 6.000 | 0.250 | 4.410 |
| 1138 | 3.000 | 4.000 | 0.125 | 1.985 |
| 1094 | 3.000 | 4.000 | 0.250 | 3.822 |
| 1694 | 3.000 | 6.000 | 0.125 | 2.573 |
| 1132 | 4.000 | 6.000 | 0.250 | 5.586 |
| 1147 | 4.000 | 8.000 | 0.188 | 5.867 |
| 1466 | 4.000 | 8.000 | 0.250 | 6.762 |



American Standard Equal Angle

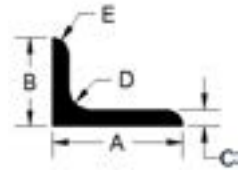
Weight is based on 6061 alloy



| Die Number | Dimension | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|--------------|
| | A | B | C | D | |
| 1149 | 1.500 | 0.125 | 0.188 | 0.125 | 0.432 |
| 1102 | 1.500 | 0.188 | 0.188 | 0.125 | 0.621 |
| 1599 | 1.500 | 0.250 | 0.188 | 0.125 | 0.809 |
| 1342 | 1.750 | 0.188 | 0.188 | 0.125 | 0.731 |
| 1535 | 2.000 | 0.125 | 0.250 | 0.125 | 0.577 |
| 1407 | 2.000 | 0.188 | 0.250 | 0.125 | 0.850 |
| 1148 | 2.000 | 0.250 | 0.250 | 0.125 | 1.110 |
| 1103 | 2.000 | 0.375 | 0.250 | 0.125 | 1.606 |
| 1104 | 3.000 | 0.250 | 0.312 | 0.250 | 1.684 |
| 1461 | 3.000 | 0.500 | 0.312 | 0.250 | 3.227 |
| 1555 | 3.000 | 0.375 | 0.313 | 0.250 | 2.474 |
| 1105 | 4.000 | 0.250 | 0.375 | 0.250 | 2.283 |
| 1569 | 4.000 | 0.375 | 0.375 | 0.250 | 3.366 |
| 1509 | 5.000 | 0.375 | 0.500 | 0.375 | 4.237 |
| 1539 | 6.000 | 0.375 | 0.500 | 0.375 | 5.119 |
| 1747 | 6.000 | 0.500 | 0.500 | 0.375 | 6.754 |
| 1556 | 6.000 | 0.625 | 0.500 | 0.375 | 8.352 |
| 1733 | 8.000 | 0.500 | 0.625 | 0.375 | 9.141 |
| 1229 | 8.000 | 0.750 | 0.625 | 0.375 | 13.478 |

American Standard Unequal Angle

Weight is based on 6061 alloy



| Die Number | Dimension | | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|-------|--------------|
| | A | B | C | D | E | |
| 1508 | 3.000 | 2.000 | 0.188 | 0.312 | 0.188 | 1.071 |
| 1106 | 3.000 | 2.000 | 0.250 | 0.312 | 0.188 | 1.403 |
| 1688 | 4.000 | 3.000 | 0.250 | 0.375 | 0.250 | 1.988 |
| 1507 | 5.000 | 3.000 | 0.375 | 0.375 | 0.312 | 3.349 |
| 1503 | 6.000 | 4.000 | 0.375 | 0.500 | 0.375 | 4.237 |
| 1538 | 6.000 | 4.000 | 0.500 | 0.500 | 0.375 | 5.578 |



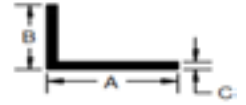
Architectural Equal Angle

Weight is based on 6061 alloy

| Die Number | Dimension | | Weight Lb/Ft |
|------------|-----------|-------|--------------|
| | A | B | |
| 1456 | 1.500 | 0.188 | 0.622 |
| 1384 | 1.500 | 0.125 | 0.422 |
| 1484 | 1.500 | 0.250 | 0.809 |
| 1371 | 2.000 | 0.125 | 0.569 |
| 1740 | 2.000 | 0.188 | 0.843 |
| 1454 | 2.000 | 0.250 | 1.103 |
| 1455 | 3.000 | 0.250 | 1.691 |



Architectural Unequal Angle



Weight is based on 6061 alloy

| Die Number | Dimension | | | Weight Lb/Ft |
|------------|-----------|-------|-------|--------------|
| | A | B | C | |
| 1510 | 2.000 | 1.500 | 0.188 | 0.733 |
| 1571 | 3.000 | 2.000 | 0.250 | 1.397 |
| 1559 | 4.000 | 2.000 | 0.125 | 0.863 |



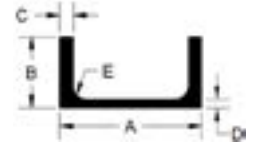
American Standard Channel



Weight is based on 6061 alloy

| Die Number | Dimension | | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | F | |
| 1328 | 3.000 | 1.410 | 0.170 | 0.170 | 0.270 | 0.100 | 1.417 |
| 1124 | 4.000 | 1.580 | 0.180 | 0.180 | 0.280 | 0.110 | 1.846 |
| 1502 | 4.000 | 1.647 | 0.247 | 0.180 | 0.280 | 0.110 | 2.161 |
| 1433 | 4.000 | 1.720 | 0.320 | 0.180 | 0.280 | 0.110 | 2.504 |
| 1329 | 5.000 | 1.750 | 0.190 | 0.190 | 0.290 | 0.110 | 2.316 |
| 1330 | 5.000 | 1.885 | 0.325 | 0.190 | 0.290 | 0.110 | 3.108 |
| 1489 | 6.000 | 1.920 | 0.200 | 0.200 | 0.300 | 0.120 | 2.826 |
| 1125 | 6.000 | 1.945 | 0.225 | 0.200 | 0.300 | 0.120 | 3.002 |
| 1449 | 6.000 | 2.034 | 0.314 | 0.200 | 0.300 | 0.120 | 3.631 |
| 1246 | 8.000 | 2.290 | 0.250 | 0.210 | 0.310 | 0.130 | 4.252 |
| 1497 | 8.000 | 2.527 | 0.487 | 0.220 | 0.320 | 0.130 | 6.484 |
| 1248 | 9.000 | 2.430 | 0.230 | 0.230 | 0.330 | 0.140 | 4.604 |
| 1176 | 9.000 | 2.648 | 0.448 | 0.230 | 0.330 | 0.140 | 6.911 |
| 1226 | 10.000 | 2.600 | 0.240 | 0.240 | 0.340 | 0.140 | 5.276 |
| 1254 | 10.000 | 2.886 | 0.526 | 0.240 | 0.340 | 0.140 | 8.641 |
| 1251 | 12.000 | 2.960 | 0.300 | 0.280 | 0.380 | 0.170 | 7.411 |
| 1252 | 12.000 | 3.170 | 0.510 | 0.280 | 0.380 | 0.170 | 10.375 |
| 1177 | 15.000 | 3.400 | 0.400 | 0.400 | 0.500 | 0.240 | 11.708 |

Aluminum Association Channel



Weight is based on 6061 alloy

| Die Number | Dimension | | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|-------|--------------|
| | A | B | C | D | E | |
| 1693 | 3.000 | 1.500 | 0.200 | 0.130 | 0.250 | 1.135 |
| 1487 | 4.000 | 2.000 | 0.230 | 0.150 | 0.250 | 1.738 |
| 1325 | 4.000 | 2.250 | 0.290 | 0.190 | 0.250 | 2.331 |
| 1464 | 5.000 | 2.750 | 0.320 | 0.190 | 0.300 | 3.089 |
| 1448 | 6.000 | 3.250 | 0.350 | 0.210 | 0.300 | 4.030 |
| 1245 | 7.000 | 3.500 | 0.380 | 0.210 | 0.300 | 4.715 |
| 1247 | 8.000 | 3.000 | 0.190 | 0.190 | 0.300 | 4.147 |
| 1232 | 8.000 | 3.750 | 0.410 | 0.250 | 0.350 | 5.789 |
| 1249 | 10.000 | 3.500 | 0.410 | 0.250 | 0.350 | 6.136 |
| 1250 | 10.000 | 4.250 | 0.500 | 0.310 | 0.400 | 8.360 |
| 1253 | 12.000 | 4.000 | 0.470 | 0.290 | 0.400 | 8.274 |
| 1633 | 12.000 | 5.000 | 0.620 | 0.350 | 0.450 | 11.822 |



Architectural Channel

Weight is based on 6061 alloy

| Die Number | Dimension | | | Weight Lb/Ft |
|------------|-----------|-------|-------|--------------|
| | A | B | C | |
| 1533 | 2.000 | 1.000 | 0.125 | 0.552 |
| 1544 | 3.000 | 2.000 | 0.125 | 0.991 |
| 1543 | 4.000 | 1.500 | 0.125 | 0.993 |
| 1676 | 4.000 | 2.000 | 0.125 | 1.140 |
| 1446 | 8.000 | 2.000 | 0.125 | 1.728 |



American Standard I-Beam

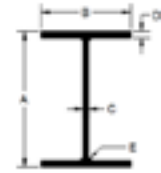
Weight is based on 6061 alloy



| Die Number | Dimension | | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | F | |
| 1565 | 4.000 | 2.660 | 0.190 | 0.190 | 0.290 | 0.110 | 2.644 |
| 1505 | 6.000 | 3.330 | 0.230 | 0.230 | 0.330 | 0.140 | 4.302 |



Aluminum Association I-Beam

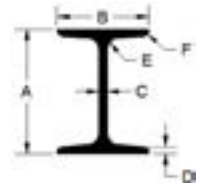


Weight is based on 6061 alloy

| Die Number | Dimension | | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|-------|--------------|
| | A | B | C | D | E | |
| 1537 | 4.000 | 3.000 | 0.170 | 0.290 | 0.250 | 2.793 |
| 1675 | 5.000 | 3.500 | 0.190 | 0.320 | 0.300 | 3.700 |
| 1493 | 6.000 | 4.000 | 0.190 | 0.290 | 0.300 | 4.030 |
| 1729 | 6.000 | 4.000 | 0.210 | 0.350 | 0.300 | 4.692 |
| 1642 | 7.000 | 4.500 | 0.230 | 0.380 | 0.300 | 8.322 |
| 1361 | 8.000 | 5.000 | 0.230 | 0.350 | 0.300 | 6.181 |
| 1684 | 8.000 | 5.000 | 0.250 | 0.410 | 0.300 | 7.023 |
| 1685 | 10.000 | 6.000 | 0.250 | 0.410 | 0.400 | 8.646 |
| 1632 | 10.000 | 6.000 | 0.290 | 0.500 | 0.400 | 10.287 |
| 1388 | 12.000 | 7.000 | 0.290 | 0.470 | 0.400 | 11.672 |
| 1686 | 12.000 | 7.000 | 0.310 | 0.620 | 0.400 | 14.292 |
| 1629 | 14.000 | 8.000 | 0.300 | 0.600 | 0.400 | 15.967 |

American Standard H-Beam

Weight is based on 6061 alloy



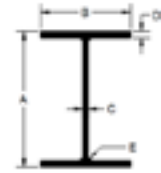
| Die Number | Dimension | | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | F | |
| 1281 | 5.000 | 5.000 | 0.313 | 0.330 | 0.313 | 0.165 | 6.494 |
| 1498 | 6.000 | 5.938 | 0.250 | 0.360 | 0.313 | 0.180 | 7.853 |



American Standard Wide Flange Beam

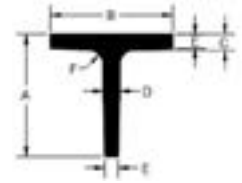
Weight is based on 6061 alloy

| Die Number | Dimension | | | | | Weight Lb/Ft |
|------------|-----------|-------|-------|-------|-------|--------------|
| | A | B | C | D | E | |
| 1269 | 6.000 | 4.000 | 0.230 | 0.279 | 0.250 | 4.161 |
| 1512 | 8.000 | 8.000 | 0.288 | 0.433 | 0.400 | 10.725 |



American Standard Tee

Weight is based on 6061 alloy



| Die Number | Dimension | | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | F | |
| 1380 | 2.250 | 2.250 | 0.312 | 0.312 | 0.250 | 0.250 | 1.421 |



Canadian Tee

Weight is based on 6061 alloy

| Die Number | Dimension | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | |
| 1227 | 4.000 | 4.000 | 0.375 | 0.375 | 0.375 | 3.434 |



Miscellaneous Tee

Weight is based on 6061 alloy



| Die Number | Dimension | | | | | Weight Lb/ Ft |
|------------|-----------|-------|-------|-------|-------|------------------|
| | A | B | C | D | E | |
| 1255 | 6.000 | 2.000 | 0.250 | 0.250 | 0.015 | 2.279 |
| 1256 | 8.000 | 2.000 | 0.250 | 0.250 | 0.015 | 2.866 |





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