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AMS 10138

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS  
9540

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## AMS SPECIFICATION

ZEE - EQUAL LEG EXTRUDED

AMS 10138  
SHEET 1 OF 3

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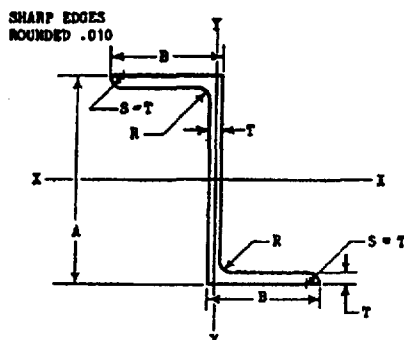
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AMS 10138



| AMS<br>10138<br>DASH<br>NO'S | NOMINAL DIMENSIONS |       |      |      | AREA<br><br>Square<br>Inches | SECTION ELEMENTS    |                 |                 |                 |
|------------------------------|--------------------|-------|------|------|------------------------------|---------------------|-----------------|-----------------|-----------------|
|                              | A                  | B     | T    | R    |                              | I <sub>xx</sub>     | I <sub>yy</sub> | ρ <sub>xx</sub> | ρ <sub>yy</sub> |
|                              | Inches             |       |      |      |                              | Inches <sup>4</sup> |                 |                 |                 |
| -0101                        | .500               | .625  | .050 | .094 | .0852                        | .0035               | .0068           | .203            | .283            |
| -0102                        |                    |       | .063 | .125 | .1073                        | .0042               | .0082           | .197            | .277            |
| -0103                        |                    |       | .050 | .094 | .0977                        | .0042               | .0122           | .206            | .353            |
| -0104                        |                    |       | .063 | .125 | .1231                        | .0049               | .0148           | .200            | .346            |
| -0501                        | .625               | .625  | .050 | .094 | .0916                        | .0060               | .0069           | .255            | .274            |
| -0502                        |                    |       | .063 | .125 | .115                         | .0071               | .0083           | .248            | .268            |
| -0503                        |                    |       | .050 | .094 | .104                         | .0070               | .0122           | .259            | .342            |
| -0504                        |                    |       | .063 | .125 | .133                         | .0084               | .0148           | .253            | .336            |
| -0505                        | .750               | 1.000 | .063 | .125 | .163                         | .0109               | .0367           | .259            | .475            |
| -0601                        |                    |       | .050 | .094 | .0977                        | .0090               | .0068           | .304            | .264            |
| -0602                        |                    |       | .063 | .125 | .123                         | .0110               | .0082           | .298            | .259            |
| -0603                        |                    |       | .050 | .094 | .110                         | .0106               | .0122           | .310            | .333            |
| -0604                        | .875               | .750  | .063 | .125 | .139                         | .0128               | .0148           | .304            | .326            |
| -0605                        |                    |       | .063 | .125 | .170                         | .0165               | .0367           | .312            | .464            |
| -0701                        |                    |       | .050 | .094 | .104                         | .0130               | .0068           | .353            | .257            |
| -0702                        |                    |       | .063 | .125 | .131                         | .0158               | .0083           | .347            | .253            |
| -0703                        | .750               | .625  | .050 | .094 | .117                         | .0151               | .0122           | .360            | .323            |
| -0704                        |                    |       | .063 | .125 | .147                         | .0184               | .0148           | .354            | .317            |
| -0705                        |                    |       | .078 | .125 | .177                         | .0214               | .0175           | .348            | .314            |
| -0706                        |                    |       | .050 | .094 | .129                         | .0172               | .0197           | .365            | .393            |
| -0707                        | .875               | .625  | .063 | .125 | .163                         | .0210               | .0212           | .359            | .385            |
| -0708                        |                    |       | .078 | .125 | .197                         | .0215               | .0287           | .353            | .382            |
| -0709                        |                    |       | .063 | .125 | .178                         | .0236               | .0367           | .364            | .454            |
| -0710                        |                    |       | .078 | .125 | .216                         | .0276               | .0439           | .358            | .451            |
| -1001                        | 1.000              | .625  | .050 | .094 | .110                         | .0176               | .0068           | .400            | .249            |
| -1002                        |                    |       | .063 | .125 | .139                         | .0216               | .0083           | .394            | .244            |
| -1003                        |                    |       | .050 | .094 | .123                         | .0205               | .0121           | .408            | .315            |
| -1004                        |                    |       | .063 | .125 | .155                         | .0251               | .0147           | .403            | .308            |
| -1005                        |                    |       | .078 | .125 | .187                         | .0294               | .0175           | .396            | .307            |
| -1006                        |                    |       | .063 | .125 | .170                         | .0285               | .0242           | .409            | .377            |
| -1007                        |                    |       | .078 | .125 | .206                         | .0335               | .0287           | .403            | .373            |
| -1008                        |                    |       | .094 | .125 | .244                         | .0383               | .0332           | .397            | .369            |
| -1009                        |                    |       | .063 | .125 | .186                         | .0320               | .0367           | .415            | .444            |
| -1010                        |                    |       | .078 | .125 | .226                         | .0377               | .0439           | .408            | .447            |

## NOTES ON SYMBOLS

I<sub>xx</sub> (AND I<sub>yy</sub>) = MOMENT OF INERTIA ABOUT XX AND YY.ρ<sub>xx</sub> (AND ρ<sub>yy</sub>) = RADIUS OF GYRATION ABOUT XX AND YY.

DASH NUMBER: IS DIE NUMBER AND INDICATES EACH SHAPE AND SIZE OF SECTION. EXAMPLE: IN "AND10138-1001", "10138" INDICATES "ZEE-EQUAL LEG"; 10 INDICATES 1.0 INCH FOR DIMENSION "A" (1.000 IN COL. "A"); 01 IN 1001 IS SERIAL NUMBER ONLY.

MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.