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AMS 10137

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS
9540

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For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AMS SPECIFICATION

CHANNEL - EXTRUDED

AMS 10137
SHEET 1 OF 5

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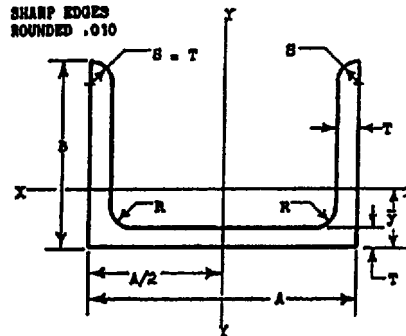
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AMS 10137



AMS 10137 DASH NO'S	NOMINAL DIMENSIONS				AREA Square Inches	
	A	R	T	R		
	Inches					
-0601	.750	.375	.050	.094	.0727	
-0602		.500	.050		.0852	
-0603			.050		.0977	
-0604		.625	.063	.123		
-0605			.063	.125	.155	
-0606		.875	.094		.220	
-0701	.875	.375	.050	.094	.0790	
-0702			.050		.0916	
-0703			.063		.115	
-0704		.625	.063	.125	.131	
-0705			.078		.158	
-0706			.050	.094	.117	
-0707		.750	.063		.147	
-0708			.078	.125	.177	
-0709			.078		.216	
-0710		1.000	.125		.328	
-1001		1.000		.063		.123
-1002			.500	.078		.148
-1003			.063	.139		
-1004	.625		.078		.168	
-1005			.063		.155	
-1006	.750		.078	.125	.187	
-1007			.094		.220	
-1008			.063		.170	
-1009			.078		.206	
-1010			.094	.875	.244	
-1011	1.250		.078		.265	
-1012			.125		.406	
-1101	1.125	.500	.063		.131	
-1102			.078		.158	
-1103			.063	.147		
-1104		.625	.078	.177		

SECTION ELEMENTS				
$\bar{y}$	I_{xx}	I_{yy}	P_{xx}	P_{yy}
Inch	Inches ⁴		Inch	
.106	.0009	.0060	.111	.286
.153	.0020	.0075	.152	.296
.204	.0037	.0090	.195	.306
.207	.0045	.0109	.190	.298
.315	.0117	.0147	.275	.308
.327	.0159	.0193	.269	.296
.0995	.0009	.0087	.106	.332
.146	.0020	.0110	.148	.347
.148	.0025	.0132	.144	.339
.196	.0047	.0158	.190	.347
.201	.0055	.0183	.187	.341
.245	.0065	.0151	.237	.360
.247	.0079	.0184	.233	.354
.259	.0094	.0214	.230	.348
.362	.0213	.0276	.314	.358
.379	.0304	.0378	.304	.339
.140	.0026	.0181	.144	.384
.145	.0029	.0211	.141	.377
.187	.0049	.0216	.187	.394
.193	.0058	.0252	.186	.388
.229	.0083	.0250	.231	.402
.242	.0098	.0294	.229	.393
.248	.0113	.0335	.226	.390
.289	.0128	.0285	.275	.409
.294	.0152	.0335	.271	.403
.300	.0176	.0383	.269	.397
.460	.0417	.0460	.397	.417
.478	.0607	.0643	.387	.398
.134	.0027	.0241	.143	.429
.139	.0031	.0281	.140	.422
.178	.0051	.0285	.186	.441
.184	.0060	.0324	.184	.434

NOTES ON SYMBOLS

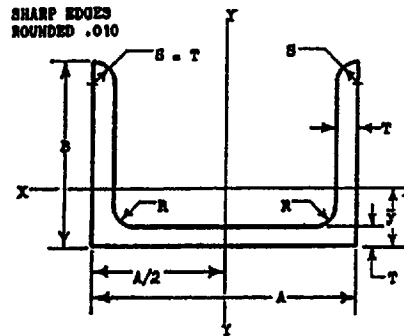
$\bar{y}$ = LOCATING DIMENSIONS FOR AXIS XX-YY.
 I_{xx} (AND I_{yy}) = MOMENT OF INERTIA ABOUT XX AND YY.

p_{xx} (AND p_{yy}) = RADIUS OF GYRATION ABOUT XX AND YY.

DASH NUMBER: IS DIE NUMBER AND INDICATES EACH SHAPE AND SIZE OF SECTION. EXAMPLE: IN "AND10137-1101", "10137" INDICATES "CHANNEL"; 11 INDICATES 1-1/8 INCH FOR DIMENSION "A" (1.125 IN COL. "A"); 01 IN 1101 IS SERIAL NUMBER ONLY.

MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

AMS 10137



AMS 10137 DASH NO'S	NOMINAL DIMENSIONS				AREA Square Inches	SECTION ELEMENTS				
	A	B	T	R		$\bar{Y}$	I _{xx}	I _{yy}	O _{xx}	O _{yy}
	Inches					Inch	Inches ⁴		Inch	
-1104	1.125	.750	.078	.125	.197	.232	.0102	.0388	.228	.444
-1106			.094		.232	.237	.0117	.0444	.225	.438
-1107		.875	.063		.181	.278	.0135	.0379	.274	.458
-1108			.078		.216	.283	.0158	.0441	.271	.452
-1109			.094		.256	.289	.0183	.0507	.268	.445
-1110			.125		.328	.298	.0245	.0616	.262	.433
-1111		1.000	.078		.236	.336	.0232	.0495	.314	.458
-1112			.094		.279	.341	.0269	.0569	.310	.452
-1113		1.375	.125		.349	.352	.0331	.0695	.303	.460
-1114			.094		.330	.308	.0661	.0757	.435	.466
-1115			.125		.453	.519	.0832	.0930	.428	.453
-1201	1.250	.625	.094	.125	.220	.181	.0071	.0493	.179	.473
-1202			.094		.267	.278	.0190	.0650	.267	.493
-1203		.875	.125		.344	.288	.0234	.0796	.261	.481
-1204			.078		.265	.377	.0334	.0698	.355	.513
-1205		1.125	.094		.314	.383	.0389	.0807	.352	.507
-1206			.125		.406	.393	.0484	.0994	.345	.495
-1207		1.500	.125		.500	.460	.1106	.1292	.470	.508
-1301	1.375	.625	.078	.125	.197	.169	.0263	.0540	.179	.524
-1302			.094		.232	.175	.0073	.0621	.177	.517
-1303		.875	.078		.236	.263	.0169	.0705	.268	.547
-1304			.094		.279	.268	.0198	.0818	.266	.543
-1305		1.125	.125		.359	.278	.0242	.1002	.259	.528
-1306			.094		.326	.371	.0403	.1010	.352	.557
-1307		1.125	.125		.422	.381	.0504	.1246	.346	.544
-1308			.156		.513	.390	.0591	.1451	.339	.532
-1309		1.625	.156		.668	.612	.1710	.2035	.506	.552
-1401	1.50	.625	.094	.125	.244	.168	.0076	.0768	.177	.561
-1402			.125		.313	.178	.0090	.0939	.170	.548
-1403		.875	.125		.375	.269	.0249	.1236	.258	.574
-1404			.156		.455	.278	.0289	.1485	.267	.572
-1405		1.125	.094		.338	.360	.0414	.1233	.350	.604

NOTES ON SYMBOLS

" $\bar{Y}$ " = LOCATING DIMENSIONS FOR AXIS XX-YY.

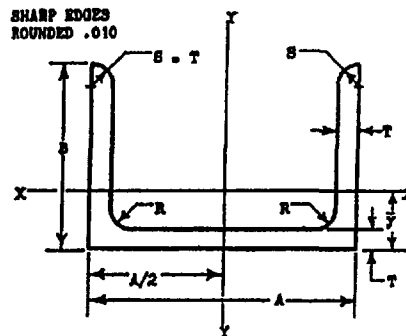
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DASH NUMBER: IS DIE NUMBER AND INDICATES EACH SHAPE AND SIZE OF SECTION. EXAMPLE: IN "AND10137-1401", "10137" INDICATES "CHANNEL"; 14 INDICATES 1-4/8 INCH FOR DIMENSION "A" (1.500 IN COL. "A"); 01 IN 1401 IS SERIAL NUMBER ONLY.

MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

AMS 10137



AMS 10137 DASH NO'S	NOMINAL DIMENSIONS				AREA Square Inches	SECTION ELEMENTS					
	A	B	T	R		$\bar{y}$	I_{xx}	I_{yy}	ρ_{xx}	ρ_{yy}	
	Inches					Inch	Inches ⁴	Inch			
-1606	1.500	1.125	.156	.125	.533	.379	.0610	.1791	.138	.580	
-1607		1.750	.156		.728	.654	.2176	.2675	.517	.606	
-1601		.750	.078		.245	.194	.0117	.1104	.218	.671	
-1602			.094		.291	.199	.0135	.1280	.215	.664	
-1603		.875	.125		.406	.253	.0262	.1793	.254	.664	
-1604		1.000	.094		.338	.290	.0311	.1603	.304	.689	
-1605	1.750		.156		.533	.309	.0454	.2347	.292	.664	
-1606	.125	.125			.500	.400	.0740	.2413	.385	.695	
-1607					.611	.409	.0875	.2844	.379	.683	
-1608	1.250	.188	.728		.416	.1003	.3270	.371	.670		
-1609	.125				.563	.505	.1243	.2826	.470	.709	
-1610	.156	.689	.514		.1482	.3340	.464	.696			
-1611	2.000	.188		.188	.822	.521	.1712	.3861	.456	.685	
-1612					1.01	.742	.3916	.5000	.623	.704	
-2001		.094			.314	.187	.0240	.1768	.213	.750	
-2002		.125	.406		.197	.0171	.2202	.205	.736		
-2003		.156	.494		.207	.0198	.2583	.200	.723		
-2004		.094			.361	.274	.0324	.2194	.300	.779	
-2005	2.000		.125		.469	.284	.0405	.2752	.294	.766	
-2006	.156	.572	.293		.0474	.3247	.288	.754			
-2007	.125				.531	.380	.0774	.3302	.382	.788	
-2008	1.250	.156	.650		.389	.0916	.3912	.376	.776		
-2009	.125		.125	.594	.482	.1302	.3852	.468	.806		
-2010	.156	.728		.491	.1553	.4576	.462	.793			
-2011	2.500	.156			.806	.596	.2410	.5241	.547	.807	
-2012		.188		.963	.604	.2802	.6071	.539	.784		
-2013		2.000		.188	1.25	.939	.7720	.8394	.787	.821	
-2201		1.000		.094	.385	.261	.0136	.2898	.296	.868	
-2202		.125		.500	.270	.0419	.3652	.290	.855		
-2401	2.500	1.000	.094	.125	.408	.248	.0316	.3723	.291	.955	
-2402			.125		.531	.258	.0432	.4706	.285	.941	
-2403			.156		.650	.268	.0508	.5596	.280	.928	

NOTES ON SYMBOLS

"Y" = LOCATING DIMENSIONS FOR AXIS XX-YY.

 I_{xx} (AND I_{yy}) = MOMENT OF INERTIA ABOUT XX AND YY. ρ_{xx} (AND ρ_{yy}) = RADIUS OF GYRATION ABOUT XX AND YY.

DASH NUMBER: IS DIE NUMBER AND INDICATES EACH SHAPE AND SIZE OF SECTION. EXAMPLE: IN "AND10137-2401", "10137" INDICATES "CHANNEL"; 24 INDICATES 2-4/8 INCH FOR DIMENSION "A" (2.500 IN COL. "A"); 01 IN 2401 IS SERIAL NUMBER ONLY.

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SHEET 4 OF 5