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SAE AMS10137

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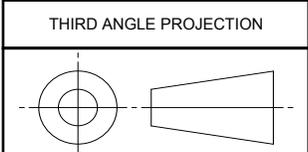
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PROCUREMENT SPECIFICATION: NONE



AEROSPACE MATERIAL SPECIFICATION

CHANNEL - EXTRUDED

SAE AMS10137

**REV.
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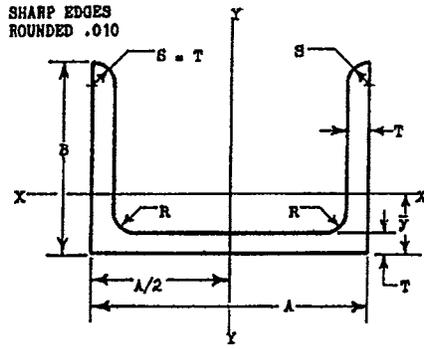
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	CHANNEL - EXTRUDED		



AMS 10137 DASH NO'S	NOMINAL DIMENSIONS				AREA	SECTION ELEMENTS				
	A	B	T	R		\bar{y}	I _{xx}	I _{yy}	ρ_{xx}	ρ_{yy}
	Inches				Square Inches	Inch	Inches ⁴		Inch	
-0601	.750	.375	.050	.094	.0727	.106	.0009	.0060	.111	.286
-0602		.500	.050		.0852	.153	.0020	.0075	.152	.296
-0603		.625	.050	.125	.0977	.204	.0037	.0090	.195	.304
-0604			.063		.123	.207	.0045	.0109	.190	.298
-0605		.875	.063	.125	.155	.315	.0117	.0147	.275	.308
-0606			.094		.220	.327	.0159	.0193	.269	.296
-0701	.875	.375	.050	.094	.0790	.0995	.0009	.0087	.106	.332
-0702		.500	.050		.0916	.146	.0020	.0110	.148	.347
-0703		.625	.063	.125	.115	.148	.0025	.0132	.144	.339
-0704			.063		.131	.196	.0047	.0158	.190	.347
-0705		.750	.078	.125	.158	.201	.0055	.0183	.187	.341
-0706			.050		.117	.245	.0065	.0151	.237	.360
-0707	.875	.063	.125	.147	.247	.0079	.0184	.233	.354	
-0708		.078		.177	.253	.0094	.0214	.230	.348	
-0709	1.000	.078	.125	.216	.362	.0213	.0276	.314	.358	
-0710		.125		.328	.379	.0304	.0378	.304	.339	
-1001	1.000	.500	.063	.125	.123	.140	.0026	.0181	.144	.384
-1002		.078	.148		.145	.0029	.0211	.143	.377	
-1003		.625	.063	.125	.139	.187	.0049	.0216	.187	.394
-1004			.078		.168	.193	.0058	.0252	.186	.388
-1005		.750	.063	.125	.155	.229	.0083	.0250	.231	.402
-1006			.078		.187	.242	.0098	.0294	.229	.393
-1007	.875	.094	.125	.220	.248	.0113	.0335	.226	.390	
-1008		.063		.170	.289	.0128	.0285	.275	.409	
-1009	.875	.078	.125	.206	.294	.0152	.0335	.271	.403	
-1010		.094		.244	.300	.0176	.0383	.269	.397	
-1011	1.250	.078	.125	.265	.460	.0417	.0460	.397	.417	
-1012		.125		.406	.478	.0607	.0643	.387	.398	
-1101	1.125	.500	.063	.125	.131	.134	.0027	.0241	.143	.429
-1102		.078	.158		.139	.0031	.0281	.140	.422	
-1103		.625	.063	.125	.147	.178	.0051	.0285	.185	.441
-1104			.078		.177	.184	.0060	.0334	.184	.434

NOTES ON SYMBOLS

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

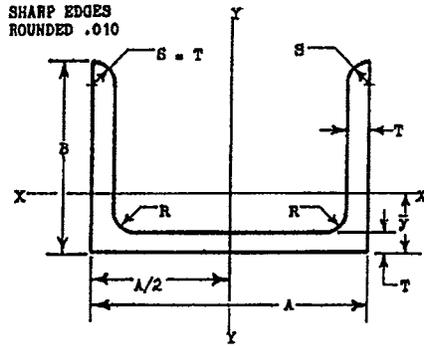
I_{xx} (AND I_{yy}) = MOMENT OF INERTIA ABOUT XX AND YY.

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 "AND10137-1101", "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.

PART MARKING AND DOCUMENTATION MAY BE EITHER AMS 10137 OR AND10137.



AMS 10137 DASH NO'S	NOMINAL DIMENSIONS				AREA Square Inches	SECTION ELEMENTS					
	A	B	T	R		\bar{Y}	Ixx	Iyy	ρ_{xx}	ρ_{yy}	
	Inches				Inch	Inches ⁴		Inch			
-1105	1.125	.750	.078	.125	.197	.232	.0102	.0388	.228	.444	
-1106			.094		.232	.237	.0117	.0444	.225	.438	
-1107			.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	.0225	.0616	.262	.433		
-1111		.078	.236		.336	.0232	.0495	.314	.458		
-1112		1.000	.094		.279	.341	.0269	.0569	.310	.452	
-1113			.125		.359	.352	.0321	.0695	.303	.440	
-1114			.094		.350	.508	.0661	.0757	.435	.466	
-1115		1.375	.125		.453	.519	.0832	.0930	.428	.453	
-1201		1.250	.625		.094	.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	.283	.0389	.0807	.352	.507		
-1206	.125		.406	.393	.0484	.0994	.345	.495			
-1207	1.500		.125	.500	.560	.1106	.1292	.470	.508		
-1301	1.375	.625	.078	.197	.169	.0063	.0540	.179	.524		
-1302		.094	.232	.175	.0073	.0621	.177	.517			
-1303		.078	.236	.263	.0169	.0705	.268	.547			
-1304		.875	.094	.279	.268	.0198	.0818	.266	.543		
-1305		.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		1.500	.625	.094	.244	.168	.0076	.0768	.177	.561	
-1402	.125		.313	.178	.0090	.0939	.170	.548			
-1403	.125		.375	.269	.0249	.1236	.258	.574			
-1404	.875		.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.
Ixx (AND Iyy) = 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 "AND10137-1401", "10137" INDICATES "CHANNEL"; 14 INDICATES 1-4/8 INCH FOR DIMENSION "A" (1.500 IN COL. "A"); 01 IN 1401 IS SERIAL NUMBER ONLY.

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PART MARKING AND DOCUMENTATION MAY BE EITHER AMS 10137 OR AND10137.