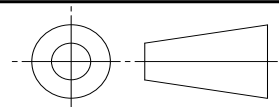


SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and

REV. B SAE AMS10137	FEDERAL SUPPLY CLASS 9540	
	RATIONALE AMS10137B HAS BEEN DESIGNATED AS STABILIZED BY AMS COMMITTEE D BECAUSE IT IS DEEMED TO REPRESENT TECHNOLOGY WHICH IS NOT EXPECTED TO CHANGE IN THE FUTURE. THIS DOCUMENT WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST. STABILIZED NOTICE THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY SAE AMS D, NONFERROUS ALLOYS COMMITTEE, AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.	
SAENORM.COM : Click to view the full PDF of ams10137b		
SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AMS10137B		THIRD ANGLE PROJECTION 
CUSTODIAN: AMS COMMITTEE "D"		PROCUREMENT SPECIFICATION: NONE
	AEROSPACE MATERIAL SPECIFICATION	
	CHANNEL - EXTRUDED	 AMS10137 REV. B

NOTICE

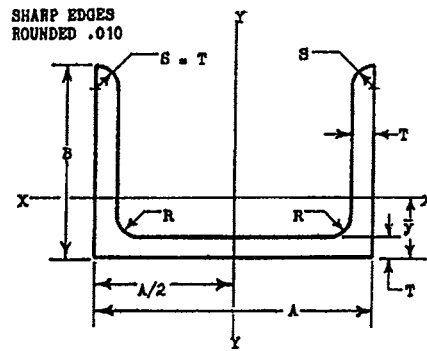
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION AND10137, AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE AND10137. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY MATERIAL RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of ams10137

 An SAE International Group	AEROSPACE MATERIAL SPECIFICATION	SAE AMS10137 SHEET 1 OF 5	REV. B
	CHANNEL - EXTRUDED		



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

SECTION ELEMENTS				
$\bar{y}$	I_{xx}	I_{yy}	C_{xx}	C_{yy}
Inch	Inches ⁴		Inch	
.106	.0009	.0060	.111	.286
.153	.0020	.0075	.152	.296
.204	.0037	.0090	.195	.304
.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
.253	.0094	.0214	.230	.348
.362	.0213	.0276	.314	.358
.379	.0304	.0378	.304	.339
.140	.0026	.0181	.144	.384
.145	.0029	.0211	.143	.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	.185	.441
.184	.0060	.0334	.184	.434

NOTES ON SYMBOLS

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

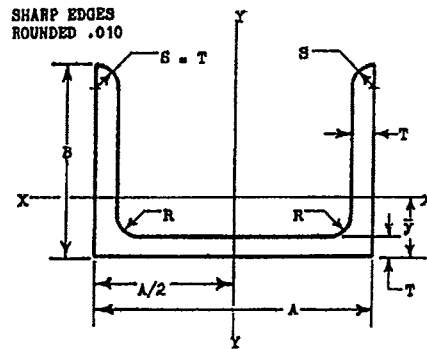
I_{xx} (AND I_{yy}) = MOMENT OF INERTIA ABOUT XX AND YY.

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.

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		.875	.094		.256	.289	.0183	.0507	.268	.445
-1110			.125		.328	.298	.0225	.0616	.262	.433
-1111		1.000	.078		.236	.336	.0232	.0495	.314	.458
-1112			.094		.279	.341	.0269	.0569	.310	.452
-1113			.125		.359	.352	.0331	.0695	.303	.440
-1114		1.375	.094		.350	.508	.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		.344	.288	.0234	.0796	.261	.481
-1204		1.125	.078		.265	.377	.0334	.0698	.355	.513
-1205			.094		.314	.383	.0389	.0807	.352	.507
-1206			.125		.406	.393	.0484	.0994	.345	.495
-1207			.1500		.500	.560	.1106	.1292	.470	.508
-1301	1.375	.625	.078	.125	.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		1.125	.094		.326	.371	.0403	.1010	.352	.557
-1307			.125		.422	.381	.0504	.1246	.346	.544
-1308			.156		.513	.390	.0591	.1451	.339	.532
-1309			.1625		.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

"Y" = LOCATING DIMENSIONS FOR AXIS XX-YY.
Ixx (AND Iyy) = MOMENT OF INERTIA ABOUT XX AND YY.

ρxx (AND ρyy) = 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.

MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

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