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# SECTION 1

OPEN SHAPES




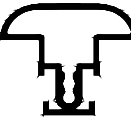




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# CHAPTER 1

DOOR SHAPES


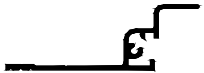


# STORM DOORS AND WINDOWS

100

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	0.862 x 0.425 BACK-UP ANGLE WALL = 0.050 (1.27)	ES05027	0.071	0.105
	0.506 x 0.542 CHANNEL WALL = 0.045 (1.14)	ES05028	0.082	0.122
	1.134 x 0.595 LIFT OR PULL RAIL WALL = 0.045 (1.14)	ES05041	0.158	0.235
	1.412 x 1.220 VERTICAL MULLION WALL = 0.050 (1.27)	EH05376	0.337	0.501
	1.395 x 0.625 HINGE WALL = 0.085 (2.16)	ES05948	0.198	0.295
	0.697 x 0.290 SASH RAIL WALL = 0.045 (1.14)	ES06486	0.106	0.157
	0.750 x 0.300 SCREEN RAIL WALL = 0.062 (1.57)	ES07624	0.109	0.163
	0.433 x 0.609 INTERLOCK WALL = 0.050 (1.27)	ES07625	0.112	0.167
<b>NOTES:</b>				

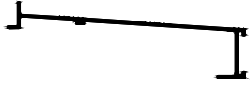


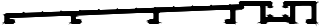

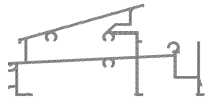


# STORM DOORS AND WINDOWS

100

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>0.487 x 0.734 GLASS MEETING RAIL WALL = 0.050 (1.27)</p>	<p>ES07627</p>	<p>0.145</p>	<p>0.216</p>
	<p>2.454 x 0.892 STORM WINDOW FRAME WALL = 0.050 (1.27)</p>	<p>ES09705</p>	<p>0.255</p>	<p>0.379</p>
	<p>2.485 x 0.882 BOTTOM FRAME WALL = 0.045 (1.14)</p>	<p>ES09808</p>	<p>0.241</p>	<p>0.358</p>
	<p>1.242 x 0.295 SWEEP WALL = 0.055 (1.40)</p>	<p>ES09991</p>	<p>0.097</p>	<p>0.145</p>
<p><b>NOTES:</b></p>				

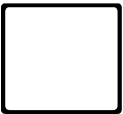


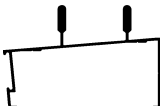
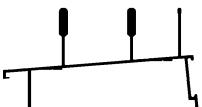

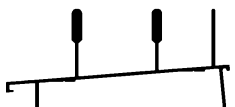
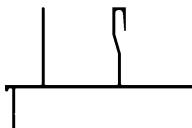
# RESIDENTIAL DOOR THRESHOLDS

110

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.726 x 1.650 6" PATIO SILL WALL = 0.065 (1.65)	ES06527	0.553	0.822
	2.140 x 1.063 2" SILL EXTENSION WALL = 0.062 (1.57)	ES07539	0.345	0.513
	4.625 x 0.500 THERMALLY BROKEN SILL WALL = 0.080 (2.03)	ES08737	0.719	1.071
	6.625 x 0.500 THERMALLY BROKEN SILL WALL = 0.080 (2.03)	ES08738	0.943	1.404
	6.000 x 1.571 6" SILL WALL = 0.076 (1.93)	ES11790	0.923	1.373
	4.093 x 2.124 SILL WALL = 0.060 (1.52)	EH15744	1.133	1.686
	3.172 x 0.779 SILL EXTENSION WALL = 0.060 (1.52)	ES15746	0.411	0.611
	6.488 x 1.850 7-1/4" SILL WALL = 0.059 (1.50)	ES16369	0.719	1.070
<b>NOTES:</b>				

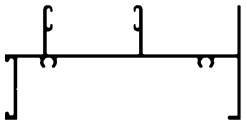
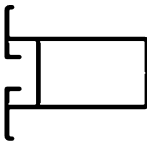
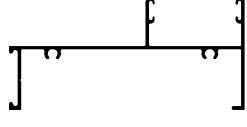
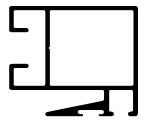

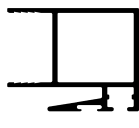
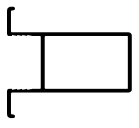
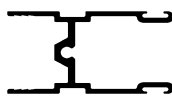
# PATIO DOOR SHAPES

120

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.420 x 1.420 STILE REINFORCEMENT WALL = 0.050 (1.27)	EH09440	0.323	0.481
	1.431 x 1.431 STILE REINFORCEMENT WALL = 0.050 (1.27)	EH15898	0.321	0.478
	0.760 x 0.444 SLIDER TRACK WALL = 0.065 (1.65)	ES15896	0.123	0.183
	3.375 x 2.417 INTERIOR SILL WALL = 0.062 (1.62)	ES16554	0.816	1.215
	3.999 x 2.351 EXTERIOR SILL WALL = 0.062 (1.57)	ES16555	0.944	1.404
	3.375 x 2.417 INTERIOR SILL WALL = 0.078 (1.98)	ES17436	1.043	1.553
	3.887 x 2.351 EXTERIOR SILL WALL = 0.062 (1.57)	ES17437	0.937	1.395
	3.375 x 2.431 INTERIOR HEADER WALL = 0.050 (1.27)	ES17439	0.671	0.999
<b>NOTES:</b>				

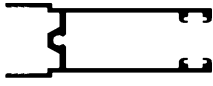
# PATIO DOOR SHAPES

120

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.375 x 1.750 JAMB WALL = 0.050 (1.27)	ES17440	0.540	0.804
	1.874 x 1.837 PULL RAIL WALL = 0.062 (1.57)	EH17442	0.522	0.777
	3.375 x 1.750 JAMB WALL = 0.050 (1.27)	ES17443	0.496	0.738
	1.425 x 1.312 MEETING RAIL WALL = 0.050 (1.27)	EH17444	0.438	0.652
	2.471 x 0.870 BOTTOM FRAME WALL = 0.062 (1.57)	ES17445	0.568	0.845
	1.550 x 1.327 MEETING RAIL WALL = 0.062 (1.57)	EH17543	0.472	0.703
	1.964 x 1.875 PULL RAIL WALL = 0.062 (1.57)	EH17544	0.479	0.713
	1.881 x 1.015 TOP FRAME WALL = 0.062 (1.57)	ES17545	0.415	0.617
<b>NOTES:</b>				

# PATIO DOOR SHAPES

120

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>2.605 x 1.015  <b>BOTTOM FRAME</b>                      WALL = 0.062 (1.57)</p>	<p>ES17546</p>	<p>0.548</p>	<p>0.815</p>

**NOTES:**

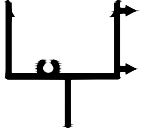
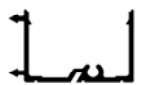

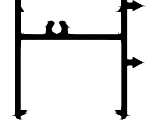
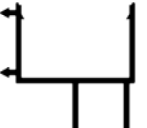
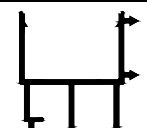
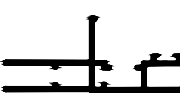
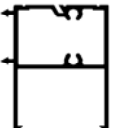


# **CHAPTER 2**

## **WINDOW SHAPES**




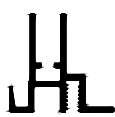
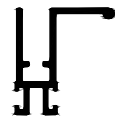
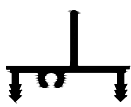


# PRIME WINDOW

## 200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.348 x 1.625 EXT. JAMB WALL = 0.058 (1.47)	ES05000	0.319	0.475
	1.348 x 1.000 INT. JAMB WALL = 0.058 (1.47)	ES05001	0.295	0.439
	1.348 x 1.616 EXT. SILL WALL = 0.058 (1.47)	ES05003	0.452	0.672
	1.348 x 1.617 EXT./INT. HEADER WALL = 0.058 (1.47)	ES05004	0.358	0.533
	1.348 x 1.625 INT. FRAME WALL = 0.058 (1.47)	ES05005	0.339	0.504
	1.348 x 1.770 EXT. FRAME WALL = 0.058 (1.47)	ES05006	0.406	0.605
	1.820 x 0.841 LIFT RAIL WALL = 0.050 (1.27)	ES05007	0.284	0.422
	1.348 x 2.000 INT. MULLION WALL = 0.062 (1.57)	EH05010	0.550	0.819
<b>NOTES:</b>				


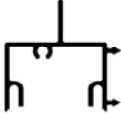



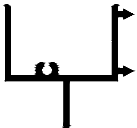
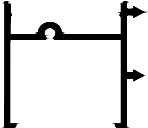
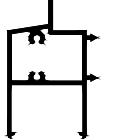
# PRIME WINDOW

200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	0.779 x 0.673 SASH CHANNEL WALL = 0.062 (1.57)	ES05011	0.140	0.208
	0.507 x 0.770 SCREEN CHANNEL WALL = 0.062 (1.57)	ES05012	0.127	0.189
	1.000 x 0.425 SASH WALL 0.050 (1.27)	ES05013	0.176	0.262
	0.978 x 1.000 CENTRE MTG. RAIL WALL = 0.050 (1.27)	ES05014	0.211	0.314
	0.854 x 1.000 PULL RAIL WALL = 0.050 (1.27)	ES05015	0.184	0.273
	1.266 x 1.018 EXT. CAP WALL = 0.062 (1.57)	ES05016	0.218	0.324
	1.266 x 0.393 INT. CAP WALL = 0.062 (1.57)	ES05017	0.183	0.273
	1.250 x 0.575 CENTRE MTG. RAIL WALL = 0.050 (1.27)	ES05108	0.191	0.285
<b>NOTES:</b>				

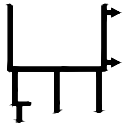
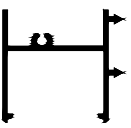

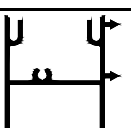
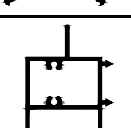
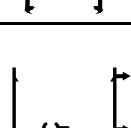


# PRIME WINDOW

200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	0.800 x 0.318 SCREEN RAIL WALL = 0.050 (1.27)	EH05134	0.114	0.170
	1.348 x 1.625 EXT. JAMB WALL = 0.062 (1.57)	ES05138	0.386	0.574
	1.348 x 1.000 INT. JAMB WALL = 0.062 (1.57)	ES05139	0.376	0.559
	1.000 x 0.425 TOP/BOTTOM RAIL WALL 0.050 (1.27)	ES05159	0.193	0.288
	1.348 x 1.000 INT. JAMB WALL = 0.058 (1.47)	ES05174	0.290	0.432
	1.348 x 1.625 EXT. JAMB WALL = 0.058 (1.47)	ES05175	0.317	0.472
	1.348 x 1.500 EXT./INT. HEADER WALL = 0.058 (1.47)	ES05194	0.332	0.495
	1.348 x 2.625 EXT. MULLION WALL = 0.062 (1.57)	EH05199	0.606	0.903
<b>NOTES:</b>				

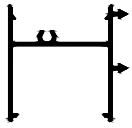
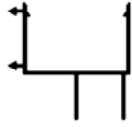
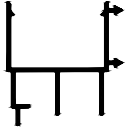
# PRIME WINDOW

## 200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.348 x 1.770 EXT. FRAME WALL = 0.058 (1.47)	ES05392	0.404	0.601
	1.348 x 1.567 EXT./INT. HEADER WALL = 0.058 (1.47)	ES05395	0.350	0.520
	1.348 x 1.616 EXT. SILL WALL = 0.058 (1.47)	ES05399	0.442	0.657
	1.348 x 2.000 EXT./INT. HEADER WALL = 0.053 (1.35)	ES05432	0.453	0.674
	1.348 x 2.625 EXT. MULLION WALL = 0.062 (1.57)	EH05438	0.575	0.855
	1.566 x 1.050 CENTER MEETING RAIL WALL = 0.045 (1.14)	ES06915	0.244	0.363
	0.819 x 0.819 INT. CORNER TRIM WALL = 0.061 (1.54)	ES10371	0.139	0.207
	1.348 x 1.616 EXT. SILL WALL = 0.050 (1.27)	ES13266	0.391	0.582
<b>NOTES:</b>				

# PRIME WINDOW

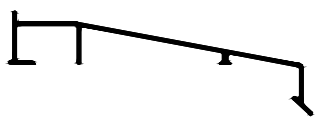
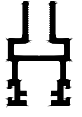
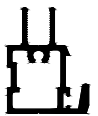
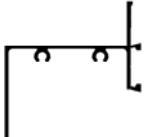
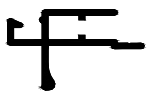

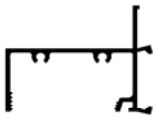
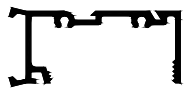
200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>1.348 x 1.617 EXT./INT. HEADER WALL = 0.050 (1.27)</p>	<p>ES13267</p>	<p>0.325</p>	<p>0.484</p>
	<p>1.348 x 1.625 INT. FRAME WALL = 0.050 (1.27)</p>	<p>ES13268</p>	<p>0.297</p>	<p>0.442</p>
	<p>1.348 x 1.770 EXT. FRAME WALL = 0.050 (1.27)</p>	<p>ES13269</p>	<p>0.353</p>	<p>0.526</p>

**NOTES:**

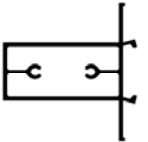
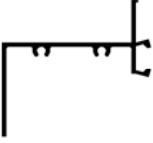
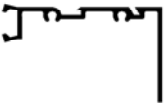





# GP2 WINDOW

210

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.837 x 0.910 SILL WALL = 0.062 (1.57)	ES05106	0.579	0.862
	0.750 x 1.375 TOP/BOTTOM RAIL WALL = 0.056 (1.42)	ES05111	0.293	0.435
	0.984 x 1.375 CENTER MTG. RAIL WALL = 0.056 (1.42)	EH05112	0.355	0.528
	1.964 x 2.375 EXT. PERIMETER FRAME WALL = 0.056 (1.42)	ES05115	0.438	0.652
	1.110 x 0.709 SCREEN RAIL WALL = 0.050 (1.27)	ES05120	0.165	0.246
	1.750 x 0.929 FIXED INTERLOCK WALL = 0.062 (1.57)	EH05121	0.427	0.636
	1.885 x 1.687 EXT. JAMB WALL = 0.062 (1.57)	ES05123	0.456	0.679
	2.001 x 1.000 INT. JAMB/HEADER WALL = 0.062 (1.57)	ES05124	0.436	0.649
<b>NOTES:</b>				

# GP2 WINDOW


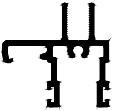



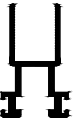
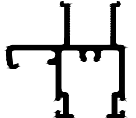
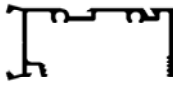
210

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.885 x 2.374 EXT. MULLION WALL = 0.062 (1.57)	EH05125	0.665	0.990
	1.962 x 2.187 EXT. PERIMETER FRAME WALL = 0.062 (1.57)	ES05126	0.422	0.628
	2.078 x 1.500 INT. PERIMETER FRAME WALL = 0.062 (1.57)	ES05127	0.402	0.598
	2.001 x 1.000 INT. MULLION WALL = 0.062 (1.57)	EH05128	0.663	0.987
	0.978 x 0.870 EXT. CHANNEL WALL = 0.062 (1.57)	ES05133	0.191	0.284
	0.800 x 0.318 SCREEN RAIL WALL = 0.050 (1.27)	EH05134	0.114	0.170
	1.916 x 0.872 SLOPED CAP WALL = 0.062 (1.57)	ES05136	0.247	0.368
	1.450 x 0.740 INT. SASH (CASEMENT) WALL = 0.060 (1.52)	ES05234	0.256	0.381
<b>NOTES:</b>				



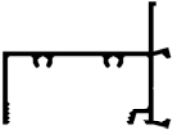
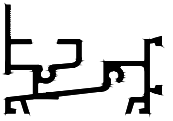
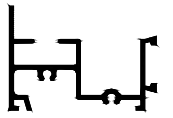


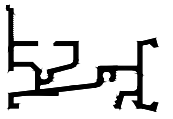


# GP2 WINDOW

210

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.800 x 0.655 EXT. SASH (CASEMENT) WALL = 0.062 (1.57)	ES05235	0.308	0.458
	1.312 x 1.375 LOCK RAIL WALL = 0.056 (1.42)	ES05275	0.342	0.509
	1.225 x 0.860 GLASS STOP WALL = 0.055 (1.40)	ES05284	0.203	0.302
	1.112 x 0.640 CHANNEL WALL = 0.065 (1.65)	ES05289	0.173	0.258
	1.000 x 1.400 MTG. RAIL WALL = 0.050 (1.27)	EH05456	0.341	0.507
	0.750 x 1.400 SASH WALL = 0.050 (1.27)	ES05457	0.258	0.384
	1.300 x 1.400 LOCK RAIL WALL = 0.050 (1.27)	ES05458	0.305	0.454
	2.001 x 1.000 INT. HEADER/JAMB WALL = 0.056 (1.42)	ES05509	0.401	0.597
<b>NOTES:</b>				


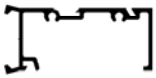

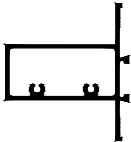
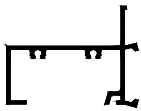
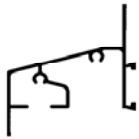

# GP2 WINDOW

210

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.885 x 1.687 EXT. HEADER/JAMB WALL = 0.056 (1.42)	ES05510	0.418	0.622
	1.906 x 1.562 EXT. SILL WALL = 0.056 (1.42)	ES06282	0.572	0.852
	1.906 x 1.562 EXT. HEADER WALL = 0.056 (1.42)	ES06283	0.489	0.727
	2.001 x 1.000 INT. HEADER/JAMB WALL = 0.056 (1.42)	ES07614	0.406	0.604
	2.001 x 1.000 INT. HEADER WALL = 0.056 (1.42)	ES07615	0.468	0.697
	1.885 x 1.550 EXT. SILL WALL = 0.056 (1.42)	ES07617	0.547	0.814
	1.937 x 0.900 SLOPED CAP WALL = 0.062 (1.57)	ES08585	0.252	0.375
	2.058 x 1.625 EXT. PERIMETER FRAME WALL = 0.055 (1.40)	ES10236	0.422	0.628
<b>NOTES:</b>				

# GP2 WINDOW


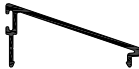



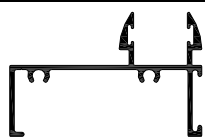


210

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.000 x 1.062 INT. HEADER WALL = 0.055 (1.40)	ES10237	0.492	0.732
	2.001 x 1.000 INT. HEADER/JAMB WALL = 0.056 (1.42)	ES11246	0.396	0.589
	2.000 x 1.000 INT. MULLION WALL = 0.055 (1.40)	EH11959	0.554	0.824
	1.947 x 2.500 EXT. MULLION WALL = 0.056 (1.42)	EH11960	0.581	0.865
	1.885 x 1.687 EXT. FRAME WALL = 0.056 (1.42)	ES12947	0.427	0.635
	1.906 x 2.312 SLOPED EXT. FRAME WALL = 0.052 (1.32)	ES13003	0.464	0.691
	4.750 x 2.174 SILL FLASHING WALL = 0.070 (1.78)	ES13188	0.560	0.834

**NOTES:**




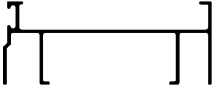
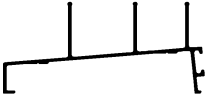
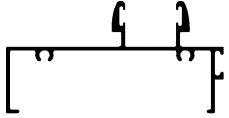
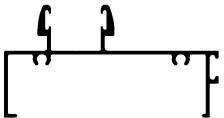
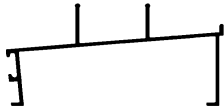
# MISCELLANEOUS WINDOW SHAPES

220

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.126 x 0.449 SASH WALL = 0.063 (1.60)	ES15953	0.222	0.330
	1.750 x 0.890 GLASS STOP WALL = 0.050 (1.27)	ES16064	0.208	0.309
	2.940 x 1.000 PERIMETER FRAME WALL = 0.062 (1.52)	ES16065	0.484	0.720
	1.126 x 0.925 MEETING RAIL WALL = 0.063 (1.60)	ES16066	0.302	0.450
	1.195 x 1.124 PULL RAIL WALL = 0.061 (1.65)	ES16070	0.287	0.428
	2.500 x 1.750 JAMB WALL = 0.056 (1.42)	ES16248	0.522	0.778
	1.299 x 0.325 SCREEN RAIL WALL = 0.050 (1.27)	EH16249	0.213	0.316
	1.634 x 0.886 ADAPTOR COVER WALL = 0.063 (1.60)	ES16254	0.195	0.290
<b>NOTES:</b>				


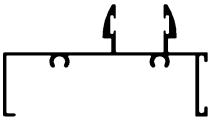
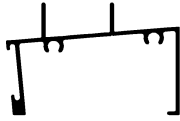
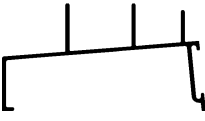
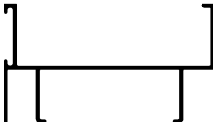
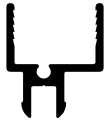
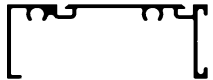
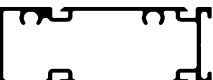
# MISCELLANEOUS WINDOW SHAPES

220

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.500 x 1.731 INTERIOR SILL WALL = 0.062 (1.57)	ES16271	0.456	0.679
	1.248 x 1.094 HANDLE WALL = 0.063 (1.60)	ES16363	0.258	0.383
	1.901 x 0.531 HEAD TRIM WALL = 0.062 (1.57)	ES16364	0.206	0.306
	3.061 x 1.312 INT. / EXT. HEADER WALL = 0.055 (1.40)	ES16637	0.509	0.758
	3.000 x 1.515 EXTERIOR SILL WALL = 0.055 (1.40)	ES16638	0.477	0.709
	3.000 x 1.687 INSIDE RIGHT / OUTSIDE LEFT JAMB WALL = 0.055 (1.40)	ES16639	0.559	0.832
	3.000 x 1.687 INSIDE LEFT / OUTSIDE RIGHT JAMB WALL = 0.055 (1.40)	ES16640	0.559	0.832
	3.061 x 1.565 INSIDE SILL WALL = 0.055 (1.40)	ES16641	0.442	0.658
<b>NOTES:</b>				

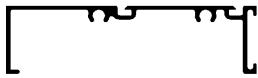
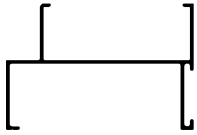
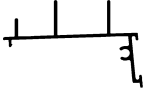
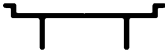



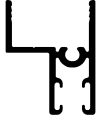
# MISCELLANEOUS WINDOW SHAPES

220

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.087 x 1.748 RIGHT JAMB WALL = 0.050 (1.27)	ES16677	0.607	0.904
	2.937 x 1.748 LEFT JAMB WALL = 0.050 (1.27)	ES16689	0.543	0.808
	2.500 x 1.750 INSIDE SILL WALL = 0.062 (1.57)	ES16737	0.548	0.815
	3.036 x 1.748 EXTERIOR SILL WALL = 0.063 (1.60)	ES16746	0.536	0.797
	2.937 x 1.811 HEADER WALL = 0.059 (1.50)	ES16771	0.537	0.799
	0.942 x 0.752 THERMO ADAPTOR WALL = 0.063 (1.60)	ES16905	0.195	0.289
	2.500 x 1.000 VERTICAL FRAME WALL = 0.050 (1.27)	ES17276	0.383	0.570
	2.500 x 1.000 MULLION FRAME WALL = 0.050 (1.27)	EH17277	0.553	0.824
<b>NOTES:</b>				

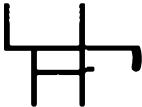

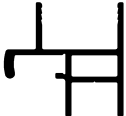
# MISCELLANEOUS WINDOW SHAPES

220

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.375 x 1.000 JAMB WALL = 0.062 (1.57)	ES17290	0.518	0.771
	2.500 x 1.812 INTERIOR HEAD WALL = 0.050 (1.27)	ES17501	0.395	0.587
	2.500 x 1.754 EXTERIOR SILL WALL = 0.062 (1.57)	ES17503	0.444	0.660
	1.901 x 0.593 HEADER INSERT WALL = 0.062 (1.57)	ES17644	0.215	0.320
	2.062 x 0.959 JAMB WALL = 0.062 (1.57)	ES17645	0.373	0.556
	2.500 x 1.750 FRAME JAMB WALL = 0.062 (1.57)	ES17744	0.594	0.884
	2.350 x 0.945 EXTERIOR SILL WALL = 0.062 (1.57)	ES17763	0.336	0.500
	1.224 x 0.875 SASH THERMO WALL = 0.063 (1.59)	ES17869	0.266	0.396
<b>NOTES:</b>				

# MISCELLANEOUS WINDOW SHAPES

220

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>1.224 x 1.489 PULL RAIL WALL = 0.061 (1.55)</p>	<p>EH17870</p>	<p>0.341</p>	<p>0.507</p>
	<p>1.224 x 1.218 METTING RAIL WALL = 0.061 (1.55)</p>	<p>EH17871</p>	<p>0.353</p>	<p>0.525</p>
	<p>1.224 x 1.178 PULL RAIL WALL = 0.061 (1.55)</p>	<p>EH17872</p>	<p>0.319</p>	<p>0.475</p>

**NOTES:**

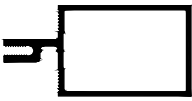
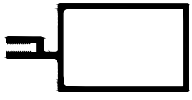








# CHAPTER 3

## ARCHITECTURAL SHAPES


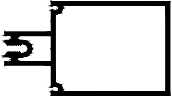


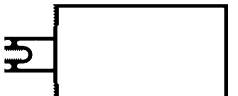
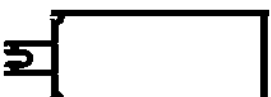
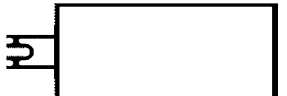

# CURTAIN WALLS

300

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.000 x 2.750 MULLION WALL = 0.093 (2.36)	EH09674	1.351	2.010
	2.000 x 2.770 MULLION WALL = 0.095 (2.41)	EH06672	1.358	2.020
	2.000 x 3.000 MULLION WALL = 0.093 (2.36)	EH05252	1.442	2.146
	2.000 x 3.000 MULLION WALL = 0.087 (2.21)	EH13166	1.366	2.032
	2.000 x 3.940 MULLION WALL = 0.085 (2.16)	EH06628	1.546	2.301
	2.000 x 4.000 MULLION WALL = 0.093 (2.36)	EH10657	1.625	2.419
	2.000 x 4.000 MULLION WALL = 0.093 (2.36)	EH11633	1.661	2.472
	2.000 x 4.000 MULLION WALL = 0.090 (2.29)	EH11955	1.613	2.400
<b>NOTES:</b>				









# CURTAIN WALLS

300

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.000 x 5.000 MULLION WALL = 0.093 (2.36)	EH63581	2.064	3.071
	2.500 x 2.875 MULLION WALL = 0.093 (2.36)	EH11025	1.627	2.421
	2.500 x 3.625 MULLION WALL = 0.090 (2.29)	EH05223	1.741	2.591
	2.500 x 4.000 MULLION WALL = 0.093 (2.36)	EH05908	1.936	2.881
	2.500 x 4.000 MULLION WALL = 0.093 (2.36)	EH17655	1.855	2.761
	2.500 x 5.250 MULLION WALL = 0.093 (2.36)	EH61781	2.440	3.632
	2.500 x 5.250 MULLION WALL = 0.093 (2.36)	EH64098	2.310	3.438
	2.500 x 6.625 MULLION WALL = 0.100 (2.54)	EH64081	2.869	4.269
<b>NOTES:</b>				





# PRESSURE PLATES, CAPS AND SPIGOTS

310

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.874 x 0.415 PRESSURE PLATE WALL = 0.080 (2.03)	ES05286	0.261	0.388
	1.875 x 0.461 PRESSURE PLATE WALL = 0.080 (2.03)	ES10220	0.278	0.414
	2.374 x 0.415 PRESSURE PLATE WALL = 0.125 (3.18)	ES05198	0.418	0.622
	2.375 x 0.461 PRESSURE PLATE WALL = 0.080 (2.03)	ES13851	0.326	0.485
	2.000 x 0.750 CAP WALL = 0.062 (1.57)	ES05285	0.295	0.440
	2.000 x 0.750 CAP WALL = 0.062 (1.57)	ES05924	0.264	0.393
	2.500 x 0.750 CAP WALL = 0.062 (1.57)	ES05197	0.331	0.493
	2.500 x 0.750 CAP WALL = 0.062 (1.57)	ES05923	0.300	0.446
<b>NOTES:</b>				



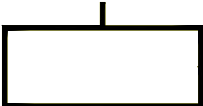
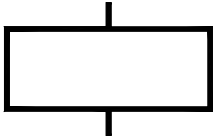
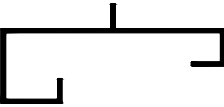
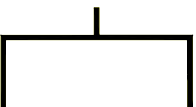
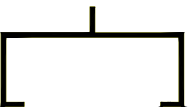
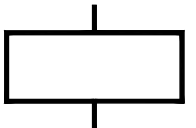
# PRESSURE PLATES, CAPS AND SPIGOTS

310

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.750 x 0.829 2" SPIGOT WALL = 0.125 (3.18)	ES13297	0.614	0.913
	1.750 x 0.840 2" SPIGOT WALL = 0.125 (3.18)	ES12378	0.642	0.956
	1.765 x 0.985 2" SPIGOT WALL = 0.125 (3.18)	ES12194	0.816	1.215
	2.250 x 0.840 2-1/2" SPIGOT WALL = 0.125 (3.18)	ES05204	0.724	1.077
<b>NOTES:</b>				


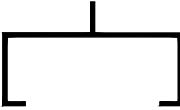
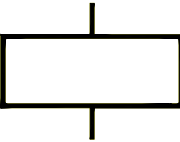
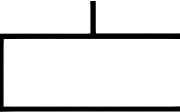


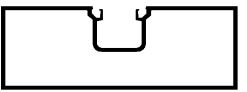

# ENTRANCE WAYS

320

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.000 x 1.750 RECT. B-TUBE WALL = 0.090 (2.29)	EH12077	1.183	1.761
	4.500 x 1.750 RECT. B-TUBE WALL = 0.090 (2.29)	EH13177	1.289	1.919
	4.000 x 1.750 x .500 FIN 4" SINGLE FIN TUBE WALL = 0.090 (2.29)	EH10426	1.236	1.840
	4.000 x 1.750 x .500 FIN 4" DOUBLE FIN TUBE WALL = 0.090 (2.29)	EH10428	1.289	1.919
	4.130 x 1.500 x .500 FIN OPEN BACK PERIMETER FRAME WALL = 0.085 (2.16)	ES14350	0.873	1.299
	4.000 x 1.750 x .625 FIN 4" SINGLE FIN TUBE WALL = 0.090 (2.29)	EH05187	1.249	1.859
	4.000 x 1.750 x .625 FIN 4" OPEN BACK SINGLE FIN TUBE WALL = 0.095 (2.41)	ES05188	0.980	1.459
	4.000 x 1.750 x .625 FIN 4" DOUBLE FIN TUBE WALL = 0.090 (2.29)	EH05189	1.316	1.958
<b>NOTES:</b>				








# ENTRANCE WAYS

320

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.000 x 1.750 x .625 FIN 4" DOUBLE FIN MULLION WALL = 0.090 (2.29)	EH12626	1.316	1.958
	4.000 x 1.750 x .750 FIN 4" OPEN BACK SINGLE FIN TUBE WALL = 0.090 (2.29)	ES05254	0.945	1.406
	4.000 x 1.750 x .750 FIN 4" DOUBLE FIN TUBE WALL = 0.090 (2.29)	EH05255	1.343	1.999
	4.000 x 1.750 x .750 FIN 4" SINGLE FIN TUBE WALL = 0.083 (2.11)	EH05256	1.167	1.737
	4.500 x 1.750 4-1/2" OPEN BACK FLUSHLINE WALL = 0.090 (2.29)	ES05316	1.155	1.720
	4.500 x 1.750 4-1/2" CLOSED BACK FLUSHLINE WALL = 0.090 (2.29)	EH05317	1.527	2.273
	4.500 x 1.750 4-1/2" CLOSED BACK FLUSHLINE WALL = 0.085 (2.16)	EH17413	1.414	2.104
	4.500 x 1.750 4-1/2" DOUBLE SIDED FLUSHLINE WALL = 0.090 (2.29)	EH05318	1.644	2.446
<b>NOTES:</b>				

# ENTRANCE WAYS









320

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>4.500 x 1.750 4-1/2" DOUBLE SIDED FLUSHLINE WALL = 0.085 (2.16)</p>	<p>EH17412</p>	<p>1.532</p>	<p>2.280</p>
	<p>0.500 x 0.500 CHANNEL (GLASS STOP) WALL = 0.062 (1.57)</p>	<p>ES13586</p>	<p>0.100</p>	<p>0.149</p>
	<p>0.625 x 0.500 CHANNEL (GLASS STOP) WALL = 0.062 (1.57)</p>	<p>ES05190</p>	<p>0.119</p>	<p>0.177</p>
	<p>0.750 X 0.500 CHANNEL (GLASS STOP) WALL = 0.060 (1.52)</p>	<p>ES05665</p>	<p>0.133</p>	<p>0.198</p>
	<p>0.700 x 0.700 GLASS STOP WALL = 0.062 (1.57)</p>	<p>ES12629</p>	<p>0.123</p>	<p>0.182</p>
	<p>0.840 x 0.750 SNAP-ON COVER WALL VARIES</p>	<p>ES12630</p>	<p>0.093</p>	<p>0.139</p>
	<p>0.986 x 0.970 BLADE STOP WALL VARIES</p>	<p>ES18137</p>	<p>0.208</p>	<p>0.310</p>
<p><b>NOTES:</b></p>				






# COMMERCIAL DOORS

340

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.898 x 0.500 THRESHOLD WALL = 0.070 (1.78)	ES11805	0.522	0.776
	4.000 x 0.500 4" THRESHOLD WALL = 0.218 (5.54)	ES05460	0.876	1.303
	2.375 x 1.750 TOP RAIL WALL = 0.125 (3.18)	EH06896	1.193	1.776
	4.125 x 1.750 TOP / BOTTOM RAIL WALL = 0.125 (3.18)	EH06897	1.711	2.546
	2.000 x 1.750 BEVELLED STILE WALL = 0.125 (3.18)	EH06898	1.010	1.503
	2.000 x 1.750 CENTRE STILE w/ SCHLEGEL WALL = 0.125 (3.18)	EH06901	1.015	1.511
	0.560 x 0.665 SINGLE GLAZE STOP WALL = 0.050 (1.27)	ES10109	0.132	0.196
	4.500 x 0.750 DOOR ADAPTOR WALL = 0.090 (2.29)	ES12855	0.997	1.484
<b>NOTES:</b>				

# COMMERCIAL DOORS

340

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>4.500 x 0.750 DOOR ADAPTOR WALL = 0.125 (3.18)</p>	<p>ES12377</p>	<p>1.340</p>	<p>1.994</p>
	<p>4.500 x 0.750 DOOR ADAPTOR WALL = 0.115 (2.92)</p>	<p>ES14408</p>	<p>1.215</p>	<p>1.809</p>
	<p>0.850 x 0.688 DOOR STOP WALL VARIES</p>	<p>ES12974</p>	<p>0.187</p>	<p>0.278</p>



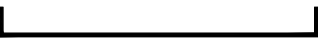





**NOTES:**

# **CHAPTER 4**

## **MISCELLANEOUS SHAPES**









# SIGN SHAPES

400

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	6.000 x 0.984 EX 1 (w/ GROOVES) WALL = 0.078 (1.98)	ES05100	0.858	1.277
	6.000 x 0.984 EX 1 (PLAIN) WALL = 0.078 (1.98)	ES10453	0.863	1.284
	7.500 x 0.750 EX 2 WALL = 0.090 (2.29)	ES05104	0.937	1.394
	1.000 x 1.000 EX 3 WALL = 0.062 (1.58)	ES05102	0.142	0.211
	2.000 x 1.000 EX 4 WALL = 0.095 (2.41)	ES05196	0.326	0.485
	1.000 x 1.500 EX 5 WALL = 0.090 (2.29)	ES05099	0.353	0.525
	1.250 x 1.250 EX 6 WALL = 0.093 (2.36)	ES05101	0.264	0.393
	2.187 x 1.500 EX 7 HEAVY WALL = 0.094 (2.39)	EH05087	0.627	0.934
<b>NOTES:</b>				


# SIGN SHAPES

400

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.176 x 1.478 EX 7 LIGHT WALL = 0.083 (2.11)	EH05428	0.552	0.821
	8.125 x 1.000 EX 8 WALL = 0.078 (1.98)	ES61779	1.053	1.567
	1.375 x 1.000 EX 9 WALL = 0.090 (2.29)	ES05835	0.346	0.515
	1.625 x 1.200 EX 11 WALL = 0.080 (2.03)	ES05088	0.432	0.643
	1.858 x 0.966 EX 12 LIGHT WALL = 0.083 (2.11)	EH05427	0.406	0.604
	1.875 x 1.000 EX 12 HEAVY WALL = 0.100 (2.54)	EH05089	0.495	0.736
	2.500 x 2.250 EX 13 WALL = 0.125 (3.18)	EH05281	1.082	1.610
	4.000 x 0.870 EX 14 WALL = 0.080 (2.03)	ES05836	0.643	0.957
<b>NOTES:</b>				

# SIGN SHAPES





400

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.000 x 0.750 RECT. TUBE WALL = 0.120 (3.05)	EH05476	0.428	0.636

**NOTES:**

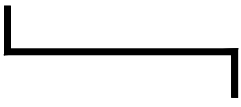


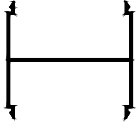

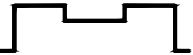


# STREET SIGNS

410

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>1.750 x 1.875 SIGN BRACKET WALL = 0.188 (4.78)</p>	<p>ES11255</p>	<p>1.112</p>	<p>1.655</p>
	<p>6.250 x 0.250 SIGN BLADE WALL = 0.090 (2.29)</p>	<p>ES11256</p>	<p>0.975</p>	<p>1.450</p>
	<p>8.000 x 0.250 SIGN BLADE WALL = 0.115 (2.91)</p>	<p>ES12405</p>	<p>1.340</p>	<p>1.994</p>
	<p>9.000 x 0.250 SIGN BLADE WALL = 0.125 (3.17)</p>	<p>ES62342</p>	<p>1.591</p>	<p>2.368</p>
<p><b>NOTES:</b></p>				

# CABLE TRAY AND POWER ACCESSORIES

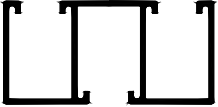
500

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.500 x 1.000 x 1.000 RAIL WALL = 0.110 (2.79)	ES07674	0.814	1.211
	6.000 x 1.000 x 1.000 RAIL WALL = 0.107 (2.72)	ES08627	1.086	1.616
	4.250 x 1.620 4-1/4" CHANNEL WALL = 0.100 (2.54)	ES07673	0.847	1.260
	2.125 x 2.159 POLE BODY WALL = 0.045 (1.14)	ES07753	0.382	0.568
	2.125 x 0.300 POLE CAP WALL = 0.050 (1.27)	ES07754	0.156	0.233
	3.468 x 0.937 EX-RUNG WALL = 0.055 (1.39)	ES08116	0.375	0.558
	1.625 x 1.625 RUNG WALL = 0.110 (2.79)	ES08300	0.716	1.065
	2.750 x 0.750 BARRIER WALL = 0.062 (1.57)	ES08301	0.251	0.374
<b>NOTES:</b>				



# CABLE TRAY AND POWER ACCESSORIES


500

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>4.656 x 2.437 CABLE TRAY WALL = 0.110 (2.79)</p>	<p>ES11245</p>	<p>2.169</p>	<p>3.228</p>

**NOTES:**







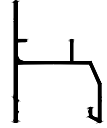
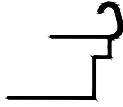
# WINDOW COVERINGS

600

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.575 x 1.194 VERTICAL BLIND TRACK WALL = 0.045 (1.14)	ES12323	0.252	0.376
<b>NOTES:</b>				

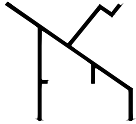






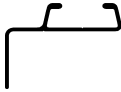
# GREENHOUSE SHAPES

700

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.250 x 1.250 DRIP GUTTER WALL = 0.045 (1.14)	ES05086	0.144	0.215
	3.188 x 1.455 BOTTOM RAIL WALL = 0.080 (2.03)	ES06503	0.446	0.664
	3.410 x 1.400 CHANNEL WALL = 0.100 (2.54)	ES09413	0.742	1.104
	1.500 x 2.000 T - BAR WALL VARIES	ES09646	0.375	0.557
	1.330 x 1.650 HOBBY GLAZING BAR WALL = 0.050 (1.27)	ES09725	0.361	0.537
	6.500 x 1.500 BASE FRAME WALL = 0.110 (2.79)	ES10974	1.318	1.962
	1.809 x 2.750 WALL PLATE WALL = 0.050 (1.27)	ES11122	0.465	0.692
	3.047 x 2.776 TOP RAIL WALL = 0.065 (1.65)	ES11123	0.695	1.035
<b>NOTES:</b>				

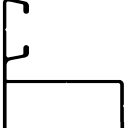
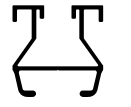
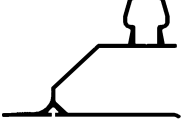



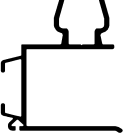

# GREENHOUSE SHAPES

700

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.719 x 2.761 HOBBY EAVE WALL = 0.060 (1.52)	ES11124	0.603	0.897
	1.250 x 0.433 WIRELOCK WALL = 0.062 (1.57)	ES12233	0.177	0.263
	2.281 x 0.485 H-BAR WALL = 0.055 (1.40)	ES12234	0.307	0.457
	1.157 x 1.001 CAMLOCK BASE WALL = 0.094 (2.39)	ES63475	0.390	0.581
	1.173 x 0.844 CAMLOCK INSERT WALL = 0.063 (1.60)	ES63476	0.188	0.280
	1.608 x 0.482 SMALL "H" WALL = 0.055 (1.40)	ES63477	0.193	0.287
	2.435 x 1.086 DRIP GUTTER WALL = 0.065 (1.65)	ES63478	0.236	0.352
	1.750 x 1.400 GABLE EXTRUSION WALL = 0.060 (1.52)	ES63479	0.282	0.420
<b>NOTES:</b>				






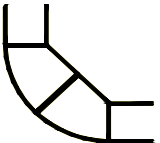

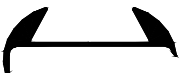
# GREENHOUSE SHAPES

700

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.565 x 2.141 BASE PANEL SMALL "H" WALL = 0.067 (1.69)	ES63480	0.521	0.776
	1.375 x 1.250  WALL = 0.062 (1.57)	ES63481	0.430	0.640
	3.845 x 2.789 VENT SILL WALL = 0.094 (2.39)	ES63508	1.175	1.749
	2.844 x 1.157 VENT SILL BASE WALL = 0.094 (2.39)	EH63509	1.046	1.557
	2.845 x 0.882 DOUBLE WIRELOCK WALL = 0.062 (1.57)	ES63649	0.423	0.629
	2.346 x 1.042 DRIP GUTTER WALL = 0.065 (1.65)	ES64030	0.230	0.342
	2.618 x 2.198 VENT SILL WALL = 0.094 (2.39)	ES64072	0.931	1.385
	2.571 x 1.157 VENT SILL BASE WALL = 0.094 (2.39)	EH64073	0.838	1.247
<b>NOTES:</b>				


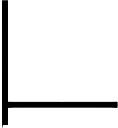






# HOUSEBOAT SHAPES

800

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.250 x 1.250 SQ. TUBE WALL = 0.067 (1.70)	EH08999	0.359	0.534
	5.750 x 0.774 TRIM WALL = 0.125 (3.18)	ES10215	0.731	1.087
	2.812 x 1.500 BOAT TRIM WALL = 0.125 (3.18)	ES11112	0.537	0.800
	1.875 x 0.385 LIGHTWEIGHT BENT BAR WALL = 0.090 (2.29)	ES60041	0.215	0.320
	2.500 x 0.594 HEAVYWEIGHT BENT BAR WALL = 0.125 (3.18)	ES60042	0.408	0.606
	3.500 x 3.500 CORNER POST WALL = 0.085 (2.16)	EH60043	1.393	2.073
	1.450 x 0.625 SMALL RUB RAIL WALL = 0.062 (1.57)	ES60044	0.243	0.361
	2.900 x 1.231 LARGE RUB RAIL WALL = 0.065 (1.65)	ES60045	0.789	1.175
<b>NOTES:</b>				


# HOUSEBOAT SHAPES

800

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.000 x 1.720 WEB CHANNEL WALL = 0.250 (6.35)	ES60046	2.247	3.343
	1.750 x 1.500 DRIP RAIL WALL = 0.062 (1.57)	ES60443	0.237	0.353
	4.976 x 1.004 DECK SECTION WALL VARIES	ES60716	0.734	1.093
	1.250 x 1.250 SQ. TUBE w/ LIP WALL = 0.067 (1.70)	EH60379	0.413	0.615
	1.250 x 1.250 FLUTED TUBE w/ LIP WALL VARIES	EH60414	0.495	0.737
	1.250 x 1.250 FLUTED TUBE WALL = 0.097 (2.46)	EH60415	0.481	0.715
	1.250 x 1.250 FLUTED TUBE w/ LIP WALL = 0.097 (2.46)	EH60988	0.495	0.736
	1.250 x 1.250 FLUTED TUBE WALL = 0.097 (2.46)	EH60989	0.480	0.715
<b>NOTES:</b>				

# HOUSEBOAT SHAPES

800




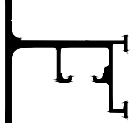
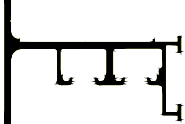
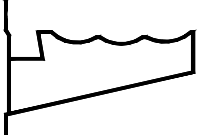
DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.015 x 1.015 FLUTED TUBE WALL = 0.079 (2.00)	EH61019	0.317	0.471

NOTES:











# SCHOOL PRODUCTS

900

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.240 x 1.500 CHALK TRAY WALL = 0.070 (1.78)	ES11744	0.514	0.764
	2.100 x 0.829 CHALK TRAY WALL VARIES	ES11748	0.351	0.523
	1.781 x 1.260 CHALKBOARD MAP HOLDER WALL = 0.055 (1.40)	ES12524	0.314	0.467
	2.711 x 3.000 HEAD RAIL - SINGLE WALL VARIES	ES12586	1.216	1.810
	3.828 x 3.000 HEAD RAIL - DOUBLE WALL VARIES	ES12587	1.583	2.355
	4.100 x 3.250 CHALK TRAY WALL = 0.064 (1.63)	EH12653	0.990	1.473
<b>NOTES:</b>				



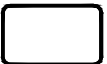
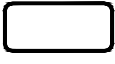




# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<b>1.000 ROUND TUBE</b> WALL = 0.093 (2.36)	EH11584	<b>0.318</b>	<b>0.473</b>
	<b>0.625 x 0.625 SQUARE TUBE</b> WALL = 0.045 (1.14)	EH11474	<b>0.125</b>	<b>0.186</b>
	<b>0.750 x 0.750 SQUARE TUBE</b> WALL = 0.062 (1.57)	EH09986	<b>0.196</b>	<b>0.292</b>
	<b>0.750 x 0.750 SQUARE TUBE</b> WALL = 0.120 (3.05)	EH11066	<b>0.363</b>	<b>0.540</b>
	<b>0.938 x 0.938 SQUARE TUBE</b> WALL = 0.040 (1.02)	EH60445	<b>0.161</b>	<b>0.240</b>
	<b>0.938 x 0.938 SQUARE TUBE</b> WALL = 0.057 (1.45)	EH60599	<b>0.236</b>	<b>0.351</b>
	<b>1.000 x 1.000 SQUARE TUBE</b> WALL = 0.040 (1.02)	EH60714	<b>0.173</b>	<b>0.258</b>
	<b>1.000 x 1.000 SQUARE TUBE</b> WALL = 0.045 (1.14)	EH60476	<b>0.201</b>	<b>0.299</b>
<b>NOTES:</b>				









# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.000 x 1.000 SQUARE TUBE WALL = 0.060 (1.52)	EH09509	0.259	0.385
	1.000 x 1.000 SQUARE TUBE WALL = 0.125 (3.18)	EH11642	0.516	0.768
	1.438 x 0.938 RECT. TUBE WALL = 0.040 (1.02)	EH60593	0.212	0.315
	1.500 x 0.750 RECT. TUBE WALL = 0.040 (1.02)	EH60479	0.200	0.297
	1.500 x 1.000 RECT. TUBE WALL = 0.045 (1.14)	EH60448	0.251	0.373
	1.500 x 1.375 RECT. TUBE WALL = 0.058 (1.47)	EH10846	0.384	0.572
	1.500 x 1.500 SQUARE TUBE WALL = 0.040 (1.02)	EH60756	0.280	0.416
	1.500 x 1.500 SQUARE TUBE WALL = 0.045 (1.14)	EH60447	0.305	0.454
<b>NOTES:</b>				









# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.500 x 1.500 SQUARE TUBE WALL = 0.060 (1.52)	EH09794	0.399	0.594
	1.500 x 1.500 SQUARE TUBE WALL = 0.062 (1.57)	EH11500	0.419	0.624
	1.500 x 1.500 SQUARE TUBE WALL = 0.125 (3.18)	EH09741	0.795	1.183
	1.938 x 0.938 RECT. TUBE WALL = 0.040 (1.02)	EH60596	0.260	0.387
	2.000 x 1.000 RECT. TUBE WALL = 0.240 (6.10)	EH11179	1.452	2.160
	2.000 x 2.000 POST WALL VARIES	EH09179	0.990	1.474
	2.000 x 2.000 SQUARE TUBE WALL = 0.062 (1.57)	EH11473	0.577	0.858
	2.000 x 2.000 SQUARE TUBE WALL = 0.110 (2.79)	EH11196	0.968	1.440
<b>NOTES:</b>				







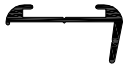

# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<b>2.000 x 2.000 SQUARE TUBE</b> WALL = 0.120 (3.05)	EH11064	1.083	1.612
	<b>2.500 x 1.000 RECT. TUBE</b> WALL = 0.057 (1.45)	EH60446	0.448	0.667
	<b>2.500 x 1.500 RECT. TUBE</b> WALL = 0.058 (1.47)	EH60470	0.535	0.796
	<b>3.000 x 0.750 RECT. TUBE</b> WALL = 0.125 (3.18)	EH11585	1.050	1.563
	<b>3.000 x 1.500 RECT. TUBE</b> WALL = 0.045 (1.14)	EH60480	0.467	0.695
	<b>3.000 x 2.000 RECT. TUBE</b> WALL = 0.090 (2.29)	EH61706	1.079	1.605
	<b>4.000 x 1.500 RECT. TUBE</b> WALL = 0.120 (3.05)	EH11194	1.483	2.208
	<b>6.000 x 3.000 SCALLOPED TUBE</b> WALL = 0.260 (6.60)	EH61771	5.065	7.537
<b>NOTES:</b>				




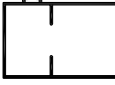

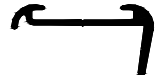


# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.000 x 1.000 ANGLE WALL = 0.053 (1.35)	ES11185	0.124	0.184
	2.500 x 2.000 ANGLE WALL = 0.245 (6.22)	ES11322	1.259	1.874
	1.250 x 1.000 ANGLE WALL = 0.040 (1.02)	ES60544	0.106	0.158
	2.000 x 1.125 H-CHANNEL WALL VARIES	ES09040	0.241	0.358
	1.035 x 0.933 HINGE WALL = 0.050 (1.27)	ES60109	0.175	0.260
	2.025 x 1.497 HINGE WALL = 0.050 (1.27)	ES60139	0.226	0.336
	1.160 x 0.625 ROOF EDGE WALL = 0.045 (1.14)	ES60178	0.144	0.215
	3.985 x 0.674 HINGE WALL = 0.072 (1.83)	ES60227	0.471	0.701
<b>NOTES:</b>				






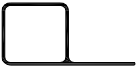
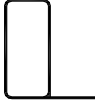
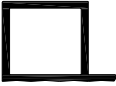
# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.250 x 2.000 ANGLE WALL = 0.100 (2.54)	ES60405	0.639	0.951
	1.250 x 1.250 TUBE WALL = 0.085 (2.16)	EH60442	0.488	0.727
	5.125 x 0.365 BOTTOM RAIL WALL VARIES	ES60450	0.882	1.312
	2.500 x 1.875 CHANNEL WALL = 0.055 (1.40)	ES60526	0.526	0.783
	1.160 x 0.375 FLAT TRIM WALL = 0.040 (1.02)	ES60594	0.096	0.142
	1.160 x 0.625 ROOF EDGE WALL = 0.045 (1.14)	ES60595	0.137	0.204
	1.536 x 1.312 TOP HINGE WALL = 0.062 (1.57)	ES60597	0.290	0.431
	1.437 x 1.062 BOTTOM HINGE WALL = 0.062 (1.57)	ES60598	0.199	0.296
<b>NOTES:</b>				

# R.V. SHAPES



## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	4.500 x 0.500 4.5 DEG. TRACK WALL VARIES	ES60621	1.330	1.980
	1.250 x 0.260 DIVIDER BAR WALL = 0.040 (1.02)	ES60656	0.092	0.136
	2.910 x 1.580 F-CHANNEL WALL = 0.100 (2.54)	ES60743	0.662	0.985
	2.000 x 1.367 END STOP WALL VARIES	ES60758	1.896	2.821
	1.500 x 1.160 U-CHANNEL WALL = 0.060 (1.52)	ES62191	0.271	0.403
	2.000 x 1.000 x 1.000 P-TUBE WALL = 0.040 (1.02)	EH62601	0.229	0.341
	2.000 x 2.375 x 1.000 P-TUBE WALL = 0.045 (1.14)	EH62602	0.402	0.599
	1.979 x 1.500 x 1.500 REAR CROSS PROFILE WALL = 0.125 (3.18)	EH62730	0.864	1.286
<b>NOTES:</b>				




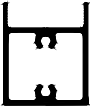
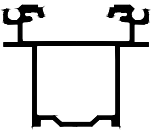
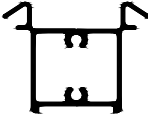
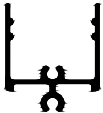

# R.V. SHAPES

## 1000

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.000 x 1.000 FRONT CROSS PROFILE WALL = 0.125 (3.18)	EH62731	0.976	1.453
	2.187 x 2.129 RAMP HINGE WALL = 0.187 (4.75)	EH62732	1.606	2.390
<b>NOTES:</b>				









# OFFICE FURNITURE

## 1100

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.850 x 0.836 SQUARE TOP POST WALL = 0.080 (2.03)	ES06826	0.574	0.855
	2.000 x 1.500 TOP RAIL WALL = 0.080 (2.03)	EH08007	0.769	1.144
	2.500 x 2.270 SIDE RAIL WALL = 0.062 (1.57)	EH09152	0.840	1.250
	2.446 x 1.990 BOTTOM RAIL WALL = 0.062 (1.57)	EH09495	0.737	1.097
	1.852 x 1.500 TOP RAIL WALL = 0.062 (1.57)	ES09496	0.512	0.762
	5.025 x 0.500 MOUNTING RAIL WALL = 0.070 (1.78)	ES11792	1.033	1.537
<b>NOTES:</b>				





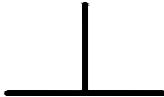
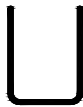


# DOCK SHAPES

1200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.500 x 1.500 FLUTED SQ. TUBE WALL = 0.090 (2.29)	EH08937	0.548	0.816
	2.000 x 1.250 CHANNEL w/ LEG WALL = 0.125 (3.18)	ES09519	0.603	0.898
	1.250 x 1.250 CHANNEL w/ LEG WALL VARIES	ES09520	0.550	0.819
	4.000 x 1.890 DOCK STRINGER WALL VARIES	ES09650	1.172	1.744
	5.970 x 1.075 DOCK TREAD WALL = 0.070 (1.78)	ES09830	0.904	1.345
	0.725 ROUND TUBE WALL = 0.055 (1.40)	EH09966	0.139	0.207
	0.875 ROUND TUBE WALL = 0.055 (1.40)	EH09967	0.170	0.253
	5.970 x 1.070 DOCK TREAD WALL = 0.060 (1.52)	ES10531	0.778	1.157
<b>NOTES:</b>				









# DOCK SHAPES

1200

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.335 x 2.335 SQ. TUBE WALL = 0.140 (3.56)	EH10802	1.414	2.105
	1.000 x 1.000 FLUTED SQ. TUBE WALL = 0.090 (2.29)	EH10920	0.353	0.525
	1.500 x 1.500 FLUTED SQ. TUBE WALL = 0.125 (3.18)	EH10921	0.738	1.099
	4.500 x 0.828 DOCK LEG CLAMP WALL = 0.328 (8.33)	ES11218	1.900	2.828
	4.000 x 2.500 T-SECTION WALL = 0.125 (3.18)	ES11481	0.951	1.415
	2.775 x 4.000 CHANNEL WALL = 0.200 (5.08)	ES11482	2.408	3.583
	4.000 x 3.000 x 1.000 P-TUBE WALL = 0.062 (1.57)	EH61129	0.716	1.065
	4.102 x 1.530 SIDE RAIL BOX WALL = 0.125 (3.18)	EH61646	1.638	2.438
<b>NOTES:</b>				



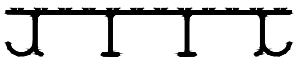





# RAMP SHAPES

1300

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.500 ROUND TUBE w/ FLAT WALL = 0.083 (2.11)	EH09454	0.565	0.840
	6.000 x 0.367 RAMP FLOOR FRONT WALL = 0.125 (3.17)	ES09517	1.018	1.515
	6.125 x 0.367 RAMP FLOOR WALL = 0.075 (1.91)	ES09518	0.740	1.101
	1.937 x 0.750 HINGE WALL VARIES	ES09545	0.693	1.031
	3.290 x 2.180 FRONT EDGE WALL VARIES	ES09546	0.730	1.086
	2.000 x 0.500 BOTTOM CAP WALL VARIES	ES09547	0.453	0.673
	1.688 x 0.625 STEP END CAP WALL VARIES	ES09649	0.194	0.289
	0.437 x 0.350 RAMP TREAD WALL VARIES	ES10007	0.129	0.193
<b>NOTES:</b>				

# RAMP SHAPES


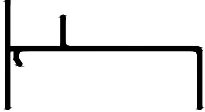
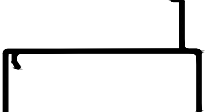
1300

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	3.690 x 2.210 STEP STRINGER WALL = 0.090 (2.29)	ES10012	0.875	1.302
	1.541 x 1.000 A.T.V. HINGE WALL = 0.244 (6.19)	EH10297	1.046	1.557
	5.970 x 1.082 INTERMEDIATE RAMP WALL = 0.075 (1.91)	ES10323	1.232	1.833
	6.532 x 1.077 WALK RAMP TREAD WALL = 0.075 (1.91)	ES10324	1.220	1.816
	0.750 x 0.750 PICKET WALL = 0.055 (1.40)	EH10979	0.178	0.265
	6.375 x 1.108 FOOTREST WALL VARIES	ES11206	1.778	2.646
	3.250 x 1.875 RAMP SIDE RAIL WALL VARIES	ES11331	1.088	1.619
	1.750 x 1.000 RAMP RAIL WALL VARIES	ES11399	0.571	0.850

**NOTES:**

# RAMP SHAPES


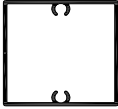
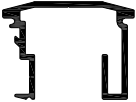



1300

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>1.665 x 1.514 RAIL SUPPORT WALL = 0.080 (2.03)</p>	<p>ES11588</p>	<p>0.379</p>	<p>0.564</p>
	<p>5.750 x 3.500 RAMP STRINGER - L WALL = 0.125 (3.18)</p>	<p>ES11589</p>	<p>1.877</p>	<p>2.793</p>
	<p>5.750 x 3.630 RAMP STRINGER - R WALL = 0.125 (3.18)</p>	<p>ES11590</p>	<p>1.797</p>	<p>2.674</p>

**NOTES:**

# FENCING AND RAILING SHAPES









1400

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	1.305 x 0.370 SNAP-ON CAP WALL = 0.050 (1.27)	ES17288	0.125	0.185
	2.000 x 2.000 POST WALL = 0.060 (1.52)	EH60461	0.606	0.903
	1.500 x 1.198 HANDRAIL WALL = 0.060 (1.52)	ES60463	0.365	0.543
	1.500 x 1.294 HANDRAIL CAP WALL = 0.060 (1.52)	ES60464	0.278	0.413
	0.906 x 0.240 HANDRAIL SNAP CAP WALL = 0.050 (1.27)	ES60465	0.069	0.103
	2.040 x 2.040 POST WALL = 0.080 (2.03)	EH61122	0.913	1.359
<b>NOTES:</b>				





# MISCELLANEOUS

1500

DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	2.475 x 0.130 BEVELLED FLAT BAR WALL VARIES	ES11899	0.292	0.434
	2.400 x 2.000 CLAMP WALL VARIES	ES16976	3.600	5.358
	2.095 x 0.290 HANGER BAR WALL = 0.125 (3.18)	ES17152	0.293	0.436
	1.888 x 0.950 x 0.950 P-TUBE WALL = 0.040 (1.02)	EH60607	0.217	0.323
	1.575 x 1.575 MODULAR TUBING WALL VARIES	EH60673	1.229	1.829
	1.750 x 0.750 P-TUBE WALL = 0.080 (2.03)	EH62242	0.354	0.527
	3.000 x 0.965 P-TUBE WALL = 0.040 (1.02)	EH62264	0.419	0.623
	8.625 x 0.750 CATHODE PLATE WALL VARIES	ES63350	5.788	8.614
<b>NOTES:</b>				

# MISCELLANEOUS

1500

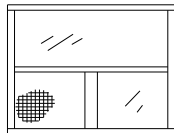
DRAWING	DESCRIPTION	DIE NUMBER	LBS/FT	KG/M
	<p>7.000 x 5.000 STANDOFF BRACKET WALL = 0.500 (12.70)</p>	<p>ES63351</p>	<p>6.401</p>	<p>9.526</p>
	<p>2.000 x 1.625 CLAMP WALL VARIES</p>	<p>ES63436</p>	<p>2.603</p>	<p>3.873</p>

**NOTES:**

# SECTION 2

## ASSEMBLY DRAWINGS

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*1-3/4" STORM DOOR  
PRIME WINDOW  
GP2 WINDOW  
2" CURTAIN WALL  
2-1/2" CURTAIN WALL  
4-1/2" x 1-3/4" FLUSHLINE  
4" B-TUBE w/ 1/2" FIN  
COMMERCIAL DOOR*

