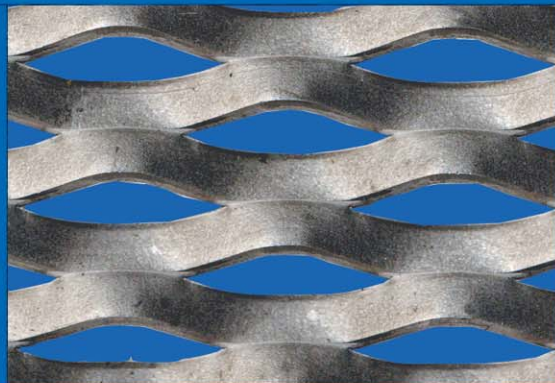
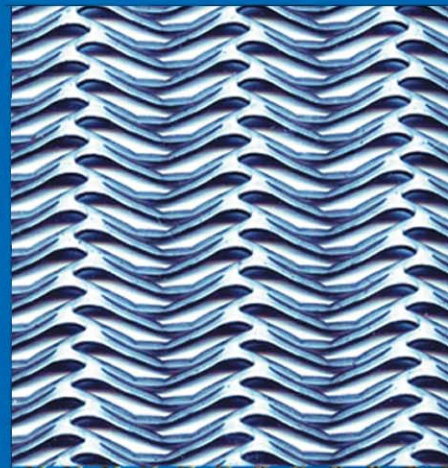
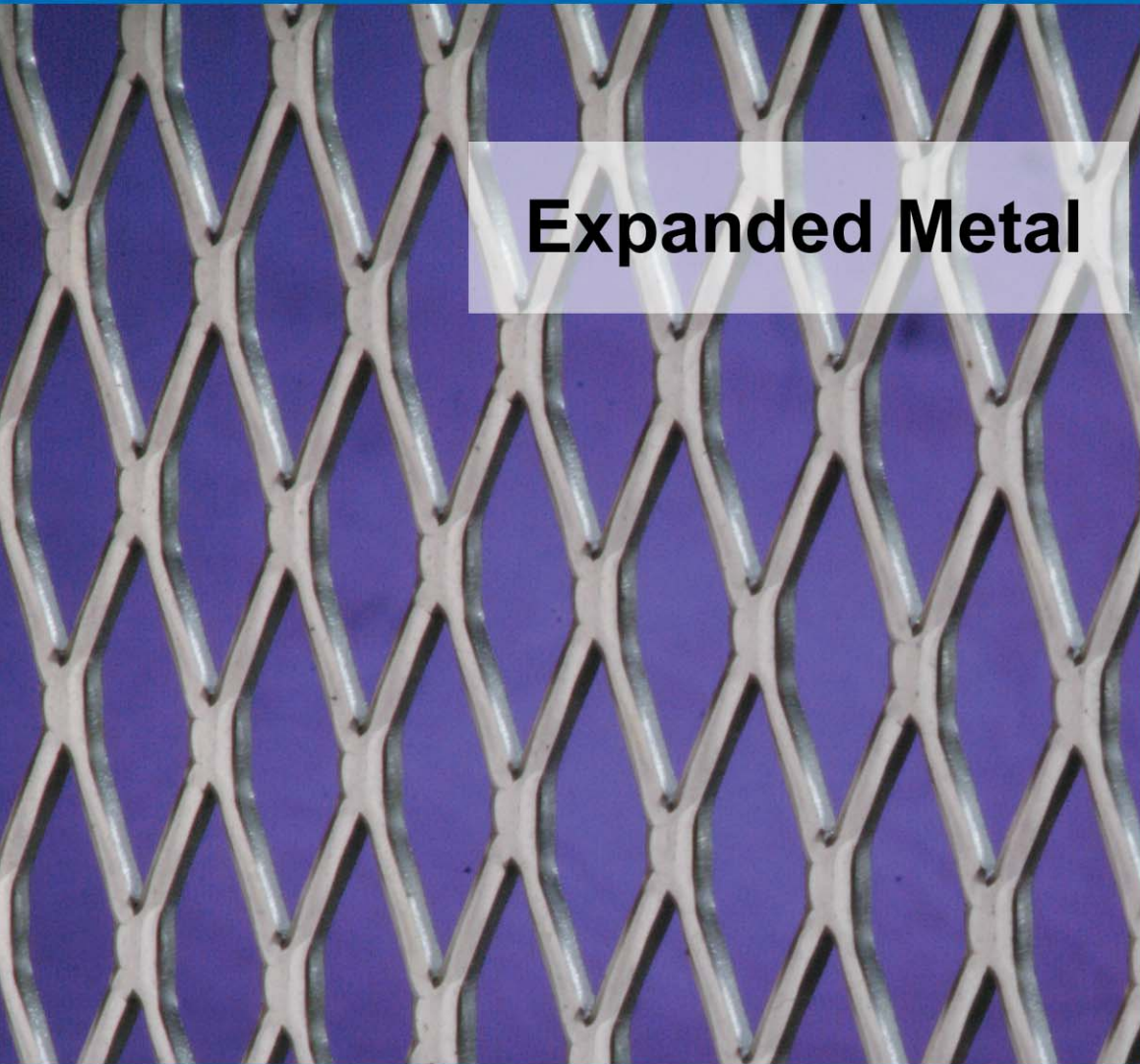




Expanded Metal





CORPORATE HISTORY

Alabama Metal Industries Corporation (AMICO) began in 1939 as a manufacturer of metal lath. AMICO has grown to become North America's leader in the manufacture and distribution of a complete line of industrial gratings and expanded metals. AMICO's product range also includes metal lath, plaster and drywall beads, concrete forming products and a variety of security barrier product systems. AMICO has manufacturing and distribution facilities throughout North America, with corporate offices in Birmingham, AL.

EXPANDED METALS

AMICO has been manufacturing and fabricating expanded metal for over 70 years. We make a full range of conventional meshes including expanded grating, architectural, and decorative in a wide range of metals including carbon steel, stainless steel, aluminum, copper, titanium, brass, and other non-ferrous metals.

BAR GRATING

AMICO has nearly 100 years of bar grating manufacturing and fabrication experience. AMICO produces a full range of welded, press-locked, swaged, and heavy-duty grating in a variety of metals including carbon steel, stainless steel, and aluminum. AMICO and Seasafe offer a full range of fabrication services including estimating, design, engineering, and project management. Fabrication of FRP and metal grating can be provided from any of our 8 locations in the U.S. and Canada.

SAFETY GRATING

AMICO has over 30 years of experience in the manufacturing and fabrication of a full line of safety grating, including plank grating, stair treads, tread flooring, and ladder rungs, available in carbon steel, stainless steel, and aluminum.

PERFORATED METALS

AMICO-Diamond Perforating has grown since 1956 to become one of the largest full line manufacturers and distributors of perforated metals in the United States. With manufacturing and stocking in Visalia, CA, and stocking at AMICO in Fontana, CA, Diamond services the market through one of the most advanced perforated manufacturing facilities in North America.

FIBERGLASS GRATING & STRUCTURAL SYSTEMS

Seasafe is a manufacturer of molded and pultruded fiberglass reinforced plastic (FRP) products. These include grating, stair treads, floor plates, covered grating, handrails, ladders, cable tray, fiberglass struts and structural shapes. All are available through a network of stocking distributors and representatives. Founded in 1978, Seasafe has become North America's most prominent custom fabricator of fiberglass structural platform and walkway systems.

Seasafe was acquired by Alabama Metals Industries Corporation (AMICO) in 1998 providing Seasafe a full line of complementary metal products including bar grating, safety grating, and expanded metal and perforated metal.

QUALITY PRODUCTS – COAST TO COAST



A GIBRALTAR INDUSTRIES COMPANY 

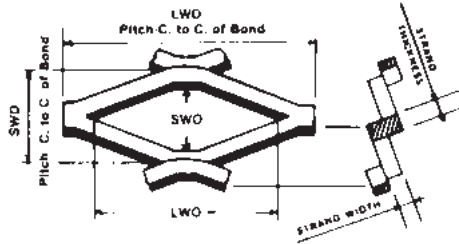
ALABAMA METAL INDUSTRIES CORPORATION

3245 Fayette Avenue • Birmingham, Alabama 35208

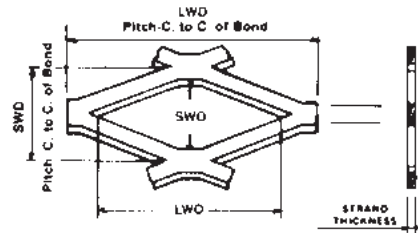
www.amico-online.com

Expanded Metal

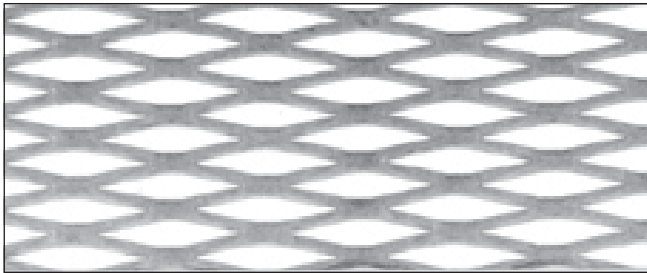
REGULAR EXPANDED METAL is a finished product as it comes from the press after having been die cut and expanded. The illustration shows that the strands and bonds form a sharp angle to the original plane of the solid sheet.



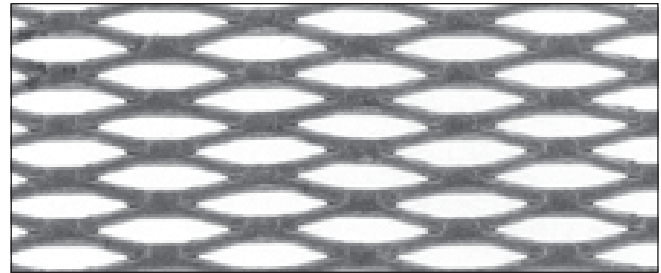
FLATTENED EXPANDED METAL is a regular expanded metal which has been cold rolled, leaving a flat, smooth surface. The length of the sheet is elongated usually by 5% while the width stays the same.



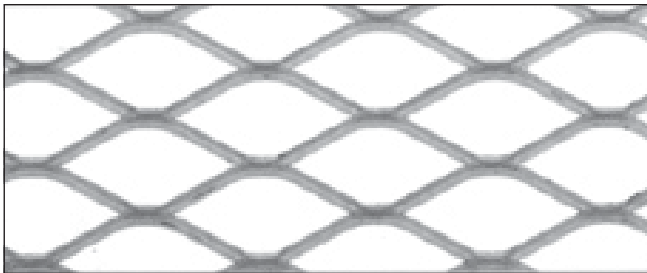
Patterns shown actual size



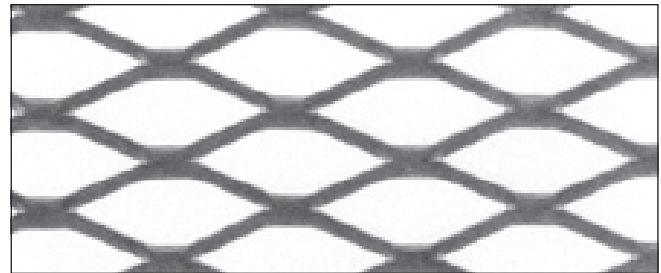
1/4" #20 REGULAR



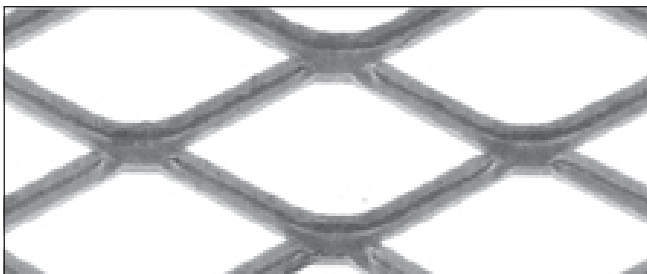
1/4" #20 FLATTENED



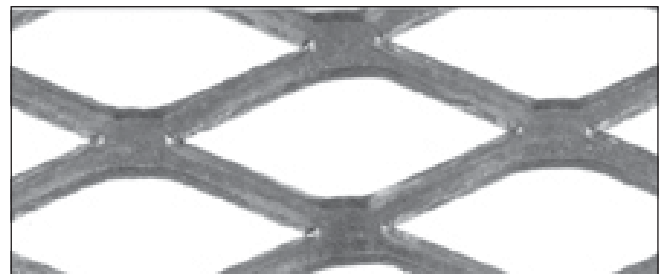
1/2" #16 REGULAR



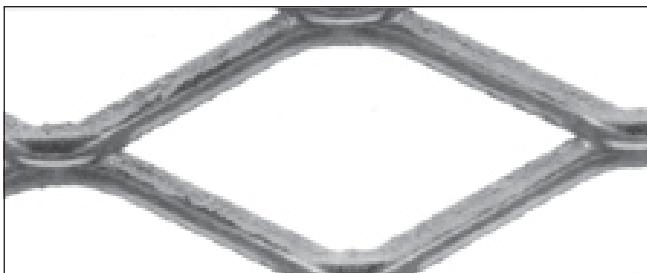
1/2" #16 FLATTENED



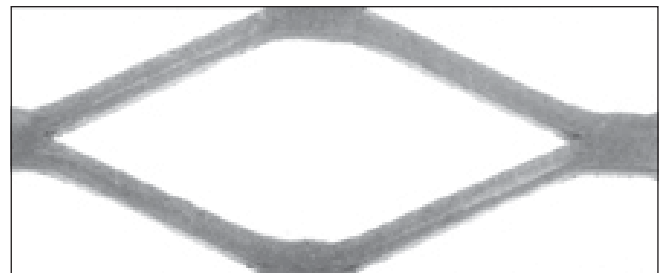
3/4" #9 REGULAR



3/4" #9 FLATTENED



1 1/2" #9 REGULAR



1 1/2" #9 FLATTENED

Regular Expanded Metal

CARBON STEEL - ASTM A 1011

Style	Weight in lbs. per C.S.F.		Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft. SWD	Overall Height in inches
	Plain	Galv.	SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness			
3/16" #22	62	A	B	B	0.166	0.437	0.200	0.500	0.050	0.030	60	60	0.086
3/16" #20	75	A	B	B	0.166	0.437	0.200	0.500	0.050	0.036	57	60	0.090
1/4" #20	86	129	4-8	8-4	0.172	0.719	0.255	1.000	0.073	0.036	45	47	0.125
1/4" #18	114	171	4-8	8-4	0.172	0.719	0.255	1.000	0.073	0.048	43	47	0.125
5/16" #18	104	-	4-8	8-4	0.188	0.688	0.333	1.000	0.094	0.048	60	36	0.170
1/2" #20	43	59	4-8	8-4	0.438	0.938	0.500	1.200	0.072	0.036	80	24	0.124
1/2" #18	70	85	4-6-8	8-10-4	0.438	0.938	0.500	1.200	0.088	0.048	77	24	0.155
1/2" #16	86	97	4-6-8	8-10-4	0.375	0.938	0.500	1.200	0.086	0.060	71	24	0.157
1/2" #13	147	173	4-6-8	8-10-4	0.313	0.938	0.500	1.200	0.096	0.092	58	24	0.182
1/2" #13H	282	310	8	4	0.250	0.800	0.500	1.200	0.188	0.092	25	24	0.275
3/4" #16	54	65	4-6-8	8-10-4	0.813	1.750	0.923	2.000	0.099	0.060	85	13	0.186
3/4" #13	80	92	4-6-8	8-10-4	0.750	1.688	0.923	2.000	0.096	0.092	78	13	0.195
3/4" #13H	120	136	4-6-8	8-10-4	0.750	1.625	0.923	2.000	0.144	0.092	77	13	0.282
3/4" #9	180	195	4-6-8	8-10-12	0.688	1.563	0.923	2.000	0.148	0.134	68	13	0.300
1" #16	44	51	4-8	8-4	1.000	2.063	1.090	2.400	0.096	0.060	86	11	0.182
1" #14	76	82	4-8	8-4	0.875	1.563	1.090	2.400	0.122	0.075	75	11	0.225
1" #12	101	108	4-8	8-4	0.907	1.563	1.090	2.400	0.109	0.105	78	11	0.225
1" #10	170	187	4-8	8-4	0.750	1.563	1.090	2.400	0.155	0.135	62	11	0.375
1" #10H	200	221	4-8	8-4	0.725	1.563	1.090	2.400	0.180	0.135	60	11	0.390
1" #7	331	360	8	4	0.576	1.563	1.090	2.400	0.275	0.183	45	11	0.550
1 1/2" #18	20	25	4-8	8-4	1.313	2.625	1.330	3.000	0.067	0.048	93	9	0.140
1 1/2" #16	40	48	4-8	8-10-12-4	1.250	2.625	1.330	3.000	0.107	0.060	89	9	0.211
1 1/2" #14	44	50	4-8	8-4	1.188	2.625	1.330	3.000	0.097	0.075	85	9	0.242
1 1/2" #13	60	68	4-6-8	8-10-12-4	1.188	2.500	1.330	3.000	0.104	0.092	86	9	0.215
1 1/2" #12	72	85	4-8	8-4	1.112	2.375	1.330	3.000	0.109	0.105	85	9	0.225
1 1/2" #13H	79	89	4-6-8	8-10-4	1.188	2.500	1.330	3.000	0.137	0.092	85	9	0.289
1 1/2" #10L	170	187	4-8	8-4	1.000	2.375	1.330	3.000	0.200	0.135	74	9	0.350
1 1/2" #10H	200	220	4-8	8-4	0.830	2.375	1.330	3.000	0.240	0.135	72	9	0.460
1 1/2" #9	120	131	4-6-8	8-10-12-4	1.125	2.375	1.330	3.000	0.142	0.135	75	9	0.295
1 1/2" #6	250	273	4-6-8	8-10-12-4	1.000	2.313	1.330	3.000	0.201	0.198	69	9	0.425
2" #10	68	75	B	B	1.625	3.438	1.850	4.000	0.164	0.092	86	6.5	0.312
2" #9	90	102	B	B	1.563	3.375	1.850	4.000	0.149	0.134	86	6.5	0.325

Above conforms to EMMA 557

A. Not Available
B. Special Order only

Flattened Expanded Metal

CARBON STEEL - ASTM A 1011

Style	Weight in lbs. per C.S.F.		Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft. SWD	Overall Height in inches
	Plain	Galv.	SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness			
3/16" #22	60	A	B	B	0.085	0.459	0.200	0.520	0.057	0.024	40	60	0.024
3/16" #20	72	A	B	B	0.085	0.459	0.200	0.520	0.057	0.029	39	60	0.029
1/4" #20	83	124	4-8	8-4	0.094	0.688	0.255	1.030	0.086	0.030	47	47	0.030
1/4" #18	111	165	4-8	8-4	0.094	0.688	0.255	1.030	0.086	0.040	40	47	0.040
5/16" #18	95	-	4-8	8-4	0.172	0.813	0.333	1.030	0.099	0.040	45	36	0.040
1/2" #20	40	51	4-8	8-4	0.375	1.000	0.500	1.260	0.070	0.029	72	24	0.029
1/2" #18	66	88	3-4-6-8	8-10-4	0.281	1.000	0.500	1.260	0.109	0.039	69	24	0.039
1/2" #16	82	100	3-4-6-8	8-10-4	0.250	1.000	0.500	1.260	0.103	0.050	60	24	0.050
1/2" #13	140	162	3-4-6-8	8-10-4	0.250	1.000	0.500	1.260	0.122	0.070	57	24	0.070
3/4" #16	51	61	3-4-6-8	8-10-4	0.750	1.750	0.923	2.100	0.115	0.048	75	13	0.048
3/4" #14	63	75	3-4-6-8	8-10-4	0.688	1.813	0.923	2.100	0.119	0.061	70	13	0.061
3/4" #13	75	86	3-4-6-8	8-10-4	0.688	1.782	0.923	2.100	0.119	0.070	73	13	0.070
3/4" #13H	114	125	4-8	8-4	0.637	1.755	0.923	2.100	0.160	0.070	68	13	0.070
3/4" #9	171	186	3-4-6-8	8-10-12-4	0.563	1.688	0.923	2.100	0.164	0.120	63	13	0.120
1" #16	41	50	4-8	8-4	0.875	2.250	1.090	2.560	0.115	0.048	77	11	0.048
1" #14	73	77	4-8	8-4	0.790	2.000	1.090	2.560	0.125	0.070	80	11	0.060
1" #12	96	110	4-8	8-4	0.785	2.000	1.090	2.560	0.156	0.085	74	11	0.085
1" #10	165	179	4-8	8-4	0.750	1.900	1.090	2.560	0.160	0.110	58	11	0.110
1 1/2" #16	38	44	4-8	8-4	1.063	2.750	1.330	3.200	0.123	0.048	82	9	0.048
1 1/2" #14	46	56	3-4-6-8	8-4	1.063	2.750	1.330	3.200	0.138	0.060	82	9	0.060
1 1/2" #13	57	68	3-4-6-8	8-4	1.063	2.750	1.330	3.200	0.138	0.070	80	9	0.070
1 1/2" #12	66	76	4-8	8-4	1.296	2.625	1.330	3.200	0.116	0.085	83	9	0.085
1 1/2" #10	165	179	4-8	8-4	0.900	2.560	1.330	3.200	0.188	0.110	63	9	0.110
1 1/2" #9	111	128	3-4-6-8	8-10-12-4	1.000	2.563	1.330	3.200	0.175	0.110	77	9	0.110
1 1/2" #6	238	260	3-4	8-10	1.000	2.563	1.33	3.20	0.255	0.173	65	9	0.172

Above conforms to EMMA 557

- A. Not Available
- B. Special Order only

Regular Reverse Diamond Expanded Metal

CARBON STEEL - ASTM A 1011

Style	Weight in lbs. per C.S.F.		Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft.		Overall Height in inches
	Plain		SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness		SWD	LWD	
3/32 - 24L	47		8	4	0.070	0.156	0.128	0.250	0.030	0.024	53	94	48	0.046
3/32 - 24H	71		8	4	0.050	0.156	0.128	0.250	0.045	0.024	30	94	48	0.051
3/16 - 22	56		8	4	0.110	0.313	0.206	0.500	0.047	0.030	55	58	24	0.070
3/16 - 20	90		8	4	0.080	0.313	0.206	0.500	0.063	0.036	40	58	24	0.080
1/4 - 20	86		8	4	0.125	0.618	0.250	1.000	0.072	0.036	42	48	12	0.135
1/4 - 18	114		8	4	0.110	0.618	0.250	1.000	0.072	0.048	42	48	12	0.147
5/16 - 20	52		8	4	0.235	0.730	0.333	1.000	0.063	0.036	62	36	16	0.125
5/16 - 18	113		8	4	0.180	0.670	0.333	1.000	0.094	0.048	44	36	16	0.170

Please contact AMICO for custom sizes

Flattened Reverse Diamond Expanded Metal

CARBON STEEL - ASTM A 1011

Style	Weight in lbs. per C.S.F.		Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft.		Overall Height in inches
	Plain	Galv.	SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness		SWD	LWD	
3/16 - 22F	64	-	8	4	0.115	0.343	0.226	0.500	0.058	0.027	49	53	24	0.027
3/16 - 20F	83	-	8	4	0.107	0.343	0.226	0.500	0.063	0.032	44	53	24	0.032
1/4 - 20F	85	-	8	4	0.125	0.625	0.280	1.000	0.079	0.035	43	43	12	0.137
1/4 - 18F	115	-	8	4	0.125	0.625	0.280	1.000	0.080	0.045	43	43	12	0.045
5/16 - 20F	58	-	8	4	0.220	0.720	0.387	1.000	0.075	0.035	61	31	12	0.035
5/16 - 18F	102	-	8	4	0.200	0.720	0.387	1.000	0.099	0.045	49	31	12	0.045
1/2 - 20F	40	51	8	4	0.425	0.925	0.600	1.200	0.079	0.030	73	20	10	0.030
1/2 - 18F	64	83	8	4	0.400	0.925	0.600	1.200	0.097	0.045	68	20	10	0.045
1/2 - 16F	80	98	8	4	0.400	0.925	0.600	1.200	0.096	0.055	68	20	10	0.055
1/2 - 13F	111	130	8	4	0.365	0.825	0.600	1.200	0.107	0.070	64	20	10	0.070
1/2 - 13(.188)F	215	234	8	4	0.185	0.750	0.550	1.200	0.188	0.070	31	22	10	0.070
3/4 - 16F	51	57	8	4	0.860	1.625	1.100	2.000	0.111	0.050	79	11	6	0.050
3/4 - 13F	62	76	8	4	0.850	1.625	1.090	2.000	0.106	0.070	80	11	6	0.070
3/4 - 10(13)F	92	128	8	4	0.780	1.610	1.100	2.000	0.160	0.070	70	11	6	0.070
3/4 - 9(11)F	147	175	8	4	0.730	1.550	1.060	2.000	0.160	0.115	70	11	6	0.115
3/4 - 11HF	258	279	8	4	0.420	1.310	0.875	2.000	0.221	0.115	48	14	6	0.115
1 - 16F	41	47	8	4	0.980	1.925	1.175	2.375	0.098	0.050	84	10	5	0.050
1 - 14F	65	72	8	4	0.960	1.900	1.225	2.375	0.125	0.070	80	10	5	0.070
1 - 12F	98	113	8	4	0.900	1.850	1.200	2.375	0.156	0.085	74	10	5	0.085
1 - 10F	133	144	8	4	0.830	1.820	1.190	2.375	0.160	0.115	73	10	5	0.115
1 1/2 - 16F	40	44	8	4	1.280	2.530	1.510	3.000	0.119	0.055	84	8	4	0.055
1 1/2 - 13F	48	66	8	4	1.300	2.570	1.550	3.000	0.116	0.070	85	8	4	0.070
1 1/2 - 12F	58	76	8	4	1.270	2.520	1.510	3.000	0.116	0.085	85	8	4	0.085
1 1/2 - 9(10)F	105	125	8	4	1.750	2.430	1.500	3.000	0.158	0.115	79	8	4	0.115
1 1/2 - 10F	125	136	8	4	1.150	2.390	1.500	3.000	0.188	0.115	75	8	4	0.115

Please contact AMICO for custom sizes

Reverse Diamond manufactured in Canada ONLY

Stainless Steel & Aluminum

Style	Weight in lbs. per C.S.F	Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft. SWD	Overall Height in inches
		SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness			

STAINLESS STEEL REGULAR-TYPE 304 (Available in T-304L, T-316, T-316L)

1/2" #20	50	4	8	0.437	0.937	0.500	1.200	0.080	0.037	70	24	0.164
1/2" #18	73	4	8	0.438	0.938	0.500	1.200	0.087	0.050	77	24	0.164
1/2" #16	91	4	8	0.438	0.938	0.500	1.200	0.087	0.062	70	24	0.164
1/2" #13	187	4	8	0.313	0.875	0.500	1.200	0.120	0.093	58	24	0.225
3/4" #18	48	4	8	0.813	1.750	0.923	2.000	0.106	0.050	89	13	0.200
3/4" #16	60	4	8	0.813	1.750	0.923	2.000	0.106	0.062	85	13	0.200
3/4" #13	91	4	8	0.750	1.688	0.923	2.000	0.108	0.093	78	13	0.200
3/4" #9	205	4	8	0.688	1.563	0.923	2.000	0.161	0.140	67	13	0.300
1 1/2" #16	45	4	8	1.250	2.750	1.333	3.000	0.115	0.062	89	9	0.220
1 1/2" #13	68	4	8	1.250	2.625	1.333	3.000	0.116	0.093	86	9	0.220
1 1/2" #9	137	4	8	1.125	2.500	1.333	3.000	0.155	0.140	75	9	0.280

Above conforms to EMMA

STAINLESS STEEL FLATTENED-TYPE 304 (Available in T-304L, T-316, T-316L)

1/2" #20	48	4	8	0.312	1.000	0.500	1.260	0.091	0.033	60	24	0.033
1/2" #18	69	4	8	0.313	1.000	0.500	1.260	0.093	0.040	68	24	0.040
1/2" #16	86	4	8	0.313	1.000	0.500	1.260	0.093	0.050	60	24	0.050
1/2" #13	178	4	8	0.250	1.000	0.500	1.260	0.132	0.080	56	24	0.080
3/4" #18	46	4	8	0.750	1.813	0.923	2.100	0.118	0.040	77	13	0.040
3/4" #16	57	4	8	0.750	1.813	0.923	2.100	0.118	0.050	75	13	0.050
3/4" #13	87	4	8	0.625	1.750	0.923	2.100	0.120	0.070	74	13	0.070
3/4" #9	195	4	8	0.563	1.688	0.923	2.100	0.160	0.119	64	13	0.119
1 1/2" #16	43	4	8	1.063	2.750	1.330	3.150	0.124	0.050	83	9	0.050
1 1/2" #13	65	4	8	1.000	2.625	1.330	3.150	0.124	0.079	79	9	0.079
1 1/2" #9	131	4	8	0.938	2.625	1.330	3.150	0.165	0.119	76	9	0.119

Above conforms to EMMA

ALUMINUM REGULAR-ALLOY 3003 H14 (Available in 5005 H34)

3/16" .032	23	B	B	0.166	0.437	0.200	0.500	0.050	0.032	52	60	0.068
1/2" .051	27	4	8	0.375	0.938	0.500	1.200	0.094	0.051	70	24	0.158
1/2" .081	44	4	8	0.375	0.938	0.500	1.200	0.096	0.081	60	24	0.186
3/4" .051	17	4	8	0.813	1.750	0.923	2.000	0.109	0.051	76	13	0.200
3/4" .064	22	4-8	8-4	0.823	1.660	0.923	2.000	0.111	0.064	75	13	0.200
3/4" .081	41	4	8	0.750	1.688	0.923	2.000	0.166	0.081	74	13	0.300
3/4" .081L	32	4-8	8-4	0.750	1.680	0.923	2.000	0.110	0.081	76	13	0.200
3/4" .081H	41	4-8	8-4	0.750	1.688	0.923	2.000	0.165	0.081	69	13	0.300
3/4" .125	65	4	8	0.688	1.688	0.923	2.000	0.170	0.125	66	13	0.305
3/4" .188	113	4-8	8-4	0.590	1.350	0.923	2.000	0.200	0.188	60	13	0.400
1 1/2" .051	13	4-8	8-4	1.225	2.400	1.330	3.000	0.110	0.051	88	9	0.200
1 1/2" .081	22	4	8	1.188	2.500	1.333	3.000	0.128	0.081	87	9	0.240
1 1/2" .125	43	4	8	1.188	2.500	1.333	3.000	0.163	0.125	78	9	0.300

A. Not Available

Above conforms to EMMA 557

B. Special Order Only

ALUMINUM FLATTENED-ALLOY 3003 H14 (Available in 5005 H34)

3/16" .032	25	8	4	0.078	0.313	0.218	0.438	0.060	0.029	43	60	0.028
1/2" .051	25	4	8	0.313	1.000	0.500	1.270	0.091	0.040	57	24	0.040
1/2" .081	41	4	8	0.313	1.000	0.500	1.270	0.103	0.060	57	24	0.060
3/4" .051	16	4	8	0.750	1.813	0.923	2.120	0.114	0.040	73	13	0.040
3/4" .064	20	4-8	8-4	0.750	1.780	0.923	2.130	0.122	0.051	72	13	0.051
3/4" .081L	30	4-8	8-4	0.687	1.750	0.923	2.215	0.134	0.070	70	13	0.070
3/4" .081H	38	4-8	8-4	0.688	1.750	0.923	2.120	0.172	0.070	63	13	0.070
3/4" .125	61	4	8	0.625	1.750	0.923	2.120	0.180	0.095	55	13	0.095
3/4" .188	107	4-8	8-4	0.484	1.593	0.923	2.130	0.205	0.170	60	13	0.170
1 1/2" .051	11	4-8	8-4	1.095	2.750	1.330	3.090	0.120	0.040	80	9	0.040
1 1/2" .081	20	4	8	1.063	2.750	1.333	3.150	0.144	0.055	75	9	0.055
1 1/2" .125	40	4	8	1.000	2.750	1.333	3.150	0.190	0.080	65	9	0.080

Above conforms to EMMA 557

Flattened Reverse Diamond Expanded Metal

STAINLESS STEEL FLATTENED - TYPE 304 (Available in T-304L, T-316, T-316L)

Style	Weight in lbs. per C.S.F Plain	Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft.		Overall Height in inches
		SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness		SWD	LWD	
3/16 - 22F	40	8	4	0.185	0.375	0.293	0.500	0.047	0.029	68	41	24	0.029
3/16 - 20F	47	8	4	0.185	0.375	0.293	0.500	0.047	0.035	68	41	24	0.035
1/2 - 18F	64	8	4	0.380	0.870	0.570	1.200	0.091	0.040	68	21	10	0.040
1/2 - 16F	80	8	4	0.380	0.870	0.570	1.200	0.091	0.050	68	21	10	0.050
1/2 - 13F	143	8	4	0.305	0.865	0.570	1.200	0.130	0.070	55	21	10	0.070
3/4 - 16F	57	8	4	0.795	1.650	1.040	2.000	0.118	0.050	77	11.5	6	0.050
3/4 - 13F	72	8	4	0.793	1.650	1.040	2.000	0.120	0.070	77	11.5	6	0.070
3/4 - 9(10)F	143	8	4	0.775	1.600	1.091	2.000	0.155	0.115	71	11	6	0.115
1 1/2 - 16F	40	8	4	1.265	2.580	1.500	3.000	0.119	0.050	84	8	4	0.050
1 1/2 - 13F	51	8	4	1.220	2.585	1.500	3.000	0.121	0.070	84	8	4	0.070
1 1/2 - 9(10)F	111	8	4	1.150	2.410	1.500	3.000	0.165	0.115	78	8	4	0.115

ALUMINUM FLATTENED - ALLOY 3003 H14 (Available in 5005 H34)

Style	Weight in lbs. per C.S.F Plain	Standard Sizes in Feet		Size of Openings in inches		Center to Center of Bond in inches		Size of Strands in inches		Percent Open Area	No. of Diamonds per ft.		Overall Height in inches
		SWD	LWD	SWO	LWO	SWD	LWD	Width	Thickness		SWD	LWD	
3/16 - .032F	24	8	4	0.110	0.325	0.226	0.500	0.060	0.032	47	53	24	0.032
5/16 - .032F	20	8	4	0.205	0.725	0.375	1.000	0.082	0.032	56	32	12	0.032
1/2 - .051F	23	8	4	0.390	0.900	0.570	1.200	0.091	0.051	68	21	10	0.051
1/2 - .081F	37	8	4	0.390	0.900	0.570	1.200	0.091	0.081	68	21	10	0.081
3/4 - .051F	16	8	4	0.815	1.685	1.090	2.000	0.122	0.051	78	11	6	0.051
3/4 - .081-LF	28	8	4	0.795	1.600	1.090	2.000	0.134	0.081	76	11	6	0.081
3/4 - .081-HF	38	8	4	0.730	1.560	1.090	2.000	0.181	0.081	67	11	6	0.081
3/4 - .125F	62	8	4	0.720	1.500	1.090	2.000	0.187	0.120	66	11	6	0.120
3/4 - .188F	105	8	4	0.705	1.465	1.150	2.000	0.221	0.180	61	10.5	6	0.180
1 1/2 - .081F	22	8	4	1.250	2.560	1.525	3.000	0.143	0.081	81	8	4	0.081
1 1/2 - .125F	43	8	4	1.145	2.460	1.500	3.000	0.181	0.120	76	8	4	0.120

Please contact AMICO for custom sizes

Reverse Diamond manufactured in Canada ONLY

Expanded Metal

HOW TO ORDER EXPANDED METAL

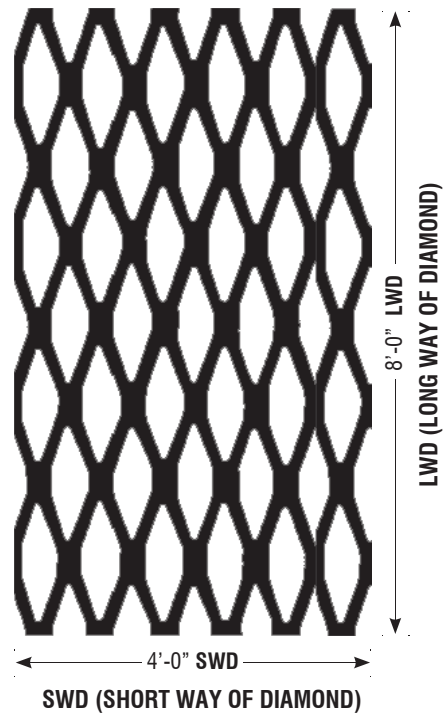
- Specify the size sheet required, listing SWD first.
Example: 4'-0 SWD x 8'-0 LWD
- Specify the number of sheets or pieces required.
- Specify the nominal width of the diamond SWD
Example: 3/16", 1/4", 1/2", 3/4", 1", 1 1/2", 2"
- Specify the style of the sheet
Example: #18, #20, #16, #13, #9
- Specify R (Regular), F (Flattened)
- Specify the type of metal required
Example: Carbon steel, Stainless steel, Aluminum, etc.

EXAMPLE OF TYPICAL ORDER:

100 Sheets Expanded Metal

3/4" #9F

4'-0" SWD x 8'-0" LWD Carbon Steel
(as illustrated to the right)



For Custom Sizes [Link to Tolerance Page](#)

Expanded Metal & Expanded Metal Grating

STANDARD STOCK SIZES AND PALLET QUANTITIES

100 PCS. PER PALLET	
MESH	SIZE
1/4" # 20 R&F	4 x 8
1/4" # 18 R&F	4 x 8

1/2" # 20 R&F	4 x 8
1/2" # 18 R&F	4 x 8
1/2" # 16 R&F	4 x 8
1/2" # 16 R&F	6 x 8
1/2" # 16 R&F	4 x 10

3/4" # 16 R&F	4 x 8
3/4" # 16 R&F	4 x 10
3/4" # 16 R&F	6 x 8
3/4" # 14 F	4 x 8
3/4" # 13 R&F	4 x 8
3/4" # 13 R&F	6 x 8
3/4" # 13 R&F	4 x 10
3/4" # 10 R	4 x 8

1" # 16 R&F	4 x 8
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1 1/2" # 16 R&F	4 x 8
1 1/2" # 13 R&F	4 x 8
1 1/2" # 13 R&F	6 x 8
1 1/2" # 13 R&F	4 x 10
1 1/2" # 13 R&F	6 x 10
1 1/2" # 10 R	4 x 8
1 1/2" # 10 R	6 x 8
1 1/2" # 10 R	4 x 10

50 PCS. PER PALLET	
MESH	SIZE
1/2" # 16 R&F	6 x 10
1/2" # 13 R&F	4 x 8

1/2" # 13 R&F	6 x 8
1/2" # 13 R&F	4 x 10

3/4" # 16 R&F	6 x 10
3/4" # 13 R&F	6 x 10
3/4" # 10 R	6 x 8
3/4" # 10 R	4 x 10
3/4" # 10 R	6 x 10
3/4" # 9 R&F	4 x 8
3/4" # 9 R&F	6 x 8
3/4" # 9 R&F	4 x 10
3/4" # 9 R&F	6 x 10

1 1/2" # 10 R	6 x 10
1 1/2" # 9 R&F	4 x 8
1 1/2" # 9 R&F	6 x 8
1 1/2" # 9 R&F	4 x 10
1 1/2" # 9 R&F	6 x 10

30 PCS. PER PALLET	
MESH	SIZE
1 1/2" # 6 R	4 x 8

2.0 lb. Grating	4 x 8
2.0 lb. Grating	4 x 10
3.0 lb. Grating	4 x 8
3.0 lb. Grating	4 x 10
3.14 lb. Grating	4 x 8
3.14 lb. Grating	4 x 10
4.0 lb. Grating	4 x 8
4.0 lb. Grating	4 x 10
4.27 lb. Grating	4 x 8

25 PCS. PER PALLET	
MESH	SIZE

1 1/2" # 6 R	6 x 8
1 1/2" # 6 R	4 x 10
1 1/2" # 6 R	6 x 10

3.0 lb. Grating	6 x 8
3.0 lb. Grating	6 x 10
3.14 lb Grating	6 x 8
3.14 lb Grating	6 x 10
4.0 lb Grating	6 x 8
4.0 lb Grating	6 x 10
4.27 lb Grating	6 x 8
4.27 lb Grating	4 x 10
4.27 lb Grating	6 x 10
5.0 lb Grating	4 x 8
5.0 lb Grating	6 x 8
5.0 lb Grating	4 x 10
5.0 lb Grating	6 x 10

20 PCS. PER PALLET	
MESH	SIZE
6.25 lb. Grating	4 x 8

15 PCS. PER PALLET	
MESH	SIZE
6.25 lb. Grating	6 x 8
6.25 lb. Grating	4 x 10
6.25 lb. Grating	6 x 10
7.0 lb. Grating	4 x 8

30 PCS. PER PALLET	
MESH	SIZE
1.59 lb. Ornamesh	4 x 8
1.59 lb. Ornamesh	6 x 8

R (Regular)
F (Flattened)

Expanded Metal & Expanded Metal Grating

TERMINOLOGY

C.S.F.—(hundred square feet) the unit of measure for price and weight.

DIAMOND OR OPENING—This is the description of the open area formed by strands and bonds. Normally the open area is diamond shaped.

BOND—The point where adjacent strands intersect. The bond is always twice the width of the strand.

SWD OR SWO—Short way of diamond or short way of opening is the dimension measured across the sheet in a direction parallel to the smallest dimension of the diamond.

LWD OR LWO—Long way of diamond or long way of opening is the dimension measured across the sheet in a direction parallel to the largest dimension of the diamond.

MESH—This is the nominal distance from the mid-point of one bond to the mid-point of the next bond measured across the SWD. Mesh is expressed in inches.

OPENING SIZE—The area enclosed by bonds and strands.

OVERALL HEIGHT—This is the finished height and often determines the selection of framing members.

PERCENT OF OPEN AREA—The relation of solid metal to open diamond allowing light, liquids and air to pass.

PITCH—The measurement from a point on one diamond to the same point on an adjacent diamond.

STRAND—The single metal strip which forms the border of the diamond, or opening. Strand width is the amount of material advanced for expanding as differentiated from strand thickness which is the thickness of metal from which the expanded metal is produced.

STYLE—Is the gauge or thickness of metal from which expanded metal is made. Usually, but not always, this conforms to manufacturer's standard gauges. Style is expressed by letters and or numbers. Expanded metal grating style is expressed in lbs. per square foot.

FORMABILITY—Each piece should be able to withstand a 90 degree bend with a 1/4 inch inside radius in either direction, without fracture.

LEVELING—All expanded metal products except grating are leveled after having been expanded.

OUT OF SQUARE—Sheets are not perfectly square when expanded. Custom sizes and tolerances will require random shearing and will leave open diamonds. (Link to Tolerance Page and random shearing detail)

CAMBER—Bow in sheet. It is measured by placing a straight edge along the concave side of the sheet parallel to LWD, touching both ends of the sheet. The maximum distance between the edge of the expanded metal and the straight edge is the camber. A sheet may be within a width tolerance and still have camber.

PRODUCT DEFINITIONS

REGULAR EXPANDED METAL is sheet simultaneously slit and stretched into a rigid, non-raveling open mesh. It is readily available in carbon steel, aluminum and stainless steel.

FLATTENED EXPANDED METAL is manufactured by processing regular expanded metal in a rolling mill. This rolling reduces the thickness of the sheet and provides a smooth flat sheet.

EXPANDED METAL GRATING is produced from heavier plate, usually low-carbon steel, with larger diamonds. It is typically used for walkways and platforms.

DECORATIVE EXPANDED METAL is manufactured with unique shaped openings which possess great appeal for architects and designers.

STAIR TREADS—Expanded Metal Grating Stair Treads are fabricated using 4.0# Grating, angles and bars. They are shipped ready for installation on the job.

FINISHING—Hot-dip galvanizing and pre-galvanizing can be applied at time of manufacturing. Other finishes such as anodizing, enameling, plastic coating and powder coating are available upon request.

SHEET SIZE—While expanded metal can be manufactured in many varying sheet sizes, practical limitations are such that it is wise to select sheet sizes shown in the catalog. Availability of custom sizes can be determined by contacting AMICO.

DISTRIBUTION—expanded metal products are readily available through AMICO international network of AMICO manufacturing and AMICO distribution centers.

PRODUCT SELECTION

*The first step in the design of a product or fabricated assembly incorporating expanded metal is to **select the appropriate expanded metal pattern**, keeping in mind various product characteristics.*

The strength and rigidity of expanded metal material is determined by Long Way of Design. On a walkway, for example, the LWD should run perpendicular to the walkway support.

Diamond design and direction also affects air deflection and diffusion, concealment and, security considerations and aesthetic appearance. AMICO manufacturers numerous specific patterns for specific end uses.

*AMICO can and does routinely furnish expanded metal in special ("non-standard") sheet sizes when requested. In this event, it is important for the specifier to give some consideration to the **edge configuration** of the sheet as it relates to any particular requirement since the cost may be affected by the manufacturing operations necessary to shear the edge desired.*

Call or email AMICO with questions and suggestions - 800/366-2642 or email sales@amico-online.com



Expanded Metal Tolerances

REGULAR

SWD – Shall not vary greater than $-0 + 1/4$ inch per foot of width.

LWD – Shall not vary greater than $-0 + 1/4$ inch per foot of length (Max $1/2''$).

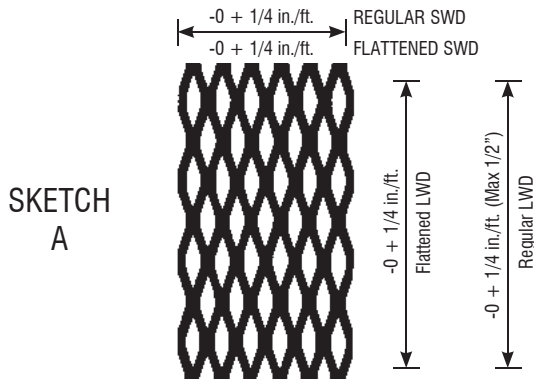
FLATTENED

SWD – After Flattening

Shall not vary from the nominal dimension more than $-0 + 1/4$ inch per foot of dimension.

LWD – After Flattening

Shall not vary from the nominal dimension more than $-0 + 1/4$ inch per foot of dimension.



CLOSED DIAMONDS ALL FOUR SIDES

Flatness (Levelness) – Sheets shall be free from waves or buckles that are in excess of $3/4$ inch from a plane surface.

Sketch A typifies the edge conditions of a normal standard size sheet as it emerges from the expanding press. It is simply expanded to size and is characterized by closed diamonds on all four sides.

RANDOM SHEARED TOLERANCE



Random sheared one side and one end $\pm 1/4''$, causing open diamonds one side SWD and one side LWD.

Expanded Metal Grating $\pm 1/2''$.



Random sheared LWD ends $\pm 1/8''$, causing open diamonds on LWD.

Expanded Metal Grating $\pm 1/4''$.

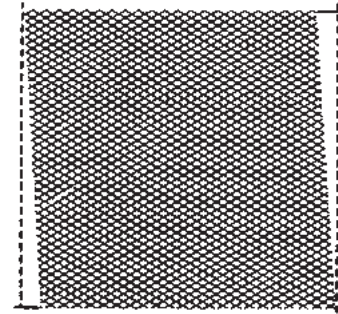


Random sheared SWD and LWD $\pm 1/8''$. Open diamonds all four sides. This process will resquare the sheet and eliminates the out of square and camber tolerance found in stock size sheets.

Note: Random sheared on Expanded Metal Grating $\pm 1/4''$.

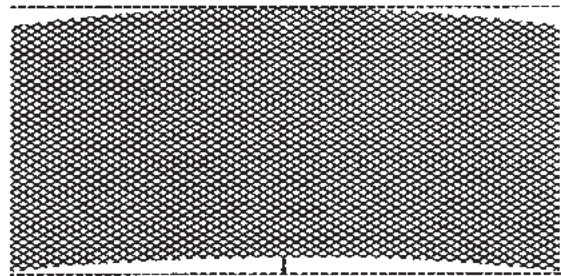
Squareness – Edges shall be such that any intersecting sides shall not be out of square in excess of $1/8$ inch per foot either direction, to a maximum of $1/2$ inch overall regular.


Squareness After Flattening – Ends shall not be more than $1/8$ inch per foot out of square or $3/8$ inch overall in relation to the side of the sheet used to gauge the shearing.



Camber – The greatest deviation of a side edge from a straight line shall not exceed $1/16$ inch per foot of dimension, SWD and LWD. Regular.

Camber After Flattening – The greatest deviation of a side edge from a straight line after flattening shall not exceed $3/32$ inch per foot of dimension.





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