



DASMA
Door & Access Systems
Manufacturers Association
International

COMMERCIAL & RESIDENTIAL GARAGE DOOR DIVISION

TECHNICAL DATA SHEET

#154

**1300 Sumner Avenue
Cleveland, Ohio 44115-2851
Phone: 216-241-7333 • Fax: 216-241-0105
E-mail: dasma@dasma.com**

DASMA Metal Gauge Chart

The members of DASMA recognize that equating actual metal thickness to metal gauge for various building products can be quite confusing, particularly when there may be inconsistency in actual metal thicknesses for identical gauges for different building products.

The Gauge Chart was originally created by DASMA's Commercial & Residential Garage Door Technical Committee as "the DASMA Steel Gauge Chart" to give minimum steel thicknesses, in inches, for various steel gauges. The chart has since been expanded to include selected minimum aluminum and stainless steel thicknesses within the 8 to 30 gauge range. Unpainted steel surfaces without galvanizing, as well as common galvanizing weights, are accounted for in the table. The materials represented in the chart are commonly used in various components included in garage door and rolling door assemblies.

Industry research has shown that metal gauge is only one function of the overall performance of a door assembly. Structural performance is best determined by testing to a static air pressure standard such as ANSI/DASMA 108 which was developed for industry use. Additionally, standards such as ANSI/DASMA 102 for garage doors should be utilized to best assess overall door performance. If gauge encompasses garage door spring shafts and other counterbalance components, ANSI/DASMA 103 should be utilized.

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

DASMA Metal Gauge Chart

GAUGE NO.	Bare Steel	G-10	G-30	G-40	G-60	G-90	Aluminum	Stainless Steel
8	0.1584	0.1586	0.1589	0.1591	0.1594	0.1599	0.1250	0.1650
10	0.1285	0.1287	0.1290	0.1292	0.1295	0.1300	0.1000	0.1350
11	0.1136	0.1138	0.1141	0.1143	0.1146	0.1151	0.0900	0.1200
12	0.0986	0.0988	0.0991	0.0993	0.0996	0.1001	0.0800	0.1054
13	0.0847	0.0849	0.0852	0.0854	0.0857	0.0862	N/A	0.0900
14	0.0697	0.0699	0.0702	0.0704	0.0707	0.0712	0.0630	0.0751
15	0.0623	0.0625	0.0628	0.0630	0.0633	0.0638	N/A	N/A
16	0.0548	0.0550	0.0553	0.0555	0.0558	0.0563	0.0500	0.0595
17	0.0498	0.0500	0.0503	0.0505	0.0508	0.0513	N/A	N/A
18	0.0438	0.0440	0.0443	0.0445	0.0448	0.0453	0.0400	0.0480
19	0.0388	0.0390	0.0393	0.0395	0.0398	0.0403	N/A	0.0420
20	0.0329	0.0331	0.0334	0.0336	0.0339	0.0344	0.0320	0.0355
21	0.0299	0.0301	0.0304	0.0306	0.0309	0.0314	N/A	N/A
22	0.0269	0.0271	0.0274	0.0276	0.0279	0.0284	0.0250	0.0293
23	0.0239	0.0241	0.0244	0.0246	0.0249	0.0254	N/A	N/A
24	0.0209	0.0211	0.0214	0.0216	0.0219	0.0224	0.0200	0.0235
25	0.0179	0.0181	0.0184	0.0186	0.0189	0.0194	N/A	N/A
26	0.0159	0.0161	0.0164	0.0166	0.0169	0.0174	N/A	0.0178
27	0.0144	0.0146	0.0149	0.0151	0.0154	0.0159	N/A	N/A
28	0.0129	0.0131	0.0134	0.0136	0.0139	0.0144	N/A	0.0151
29	0.0115	0.0117	0.0120	0.0122	0.0125	0.0130	N/A	N/A
30	0.0100	0.0102	0.0105	0.0107	0.0110	0.0115	N/A	N/A
	NOTES: 1. Chart shows unpainted steel thickness minimums (in inches) per gauge number and several common steel galvanizing weights. 2. References: ASM Metals Reference Book, Third Edition, 1993; The Making, Shaping and Treating of Steel, AISE, 1985; ASTM A568 / A568M – 07a; ASTM A924 / A924M-07. 3. Bare steel thicknesses represent steel without the addition of galvanizing.							

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