

METAL DOORS & FRAMES



NAAMM 12/08

STEEL TABLES

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Prior to 1970, sheet steel was referred to by gage. ASTM and ANSI currently do not list gage numbers in their standards. Like many generic terms, gage (or gauge) is ingrained in many vocabularies and is misunderstood as a term for thickness. NAAMM is publishing this minimum thickness table to be used instead of discontinued gage numbers.

The decimal inch values shown were taken from the Underwriters Laboratories, Inc. publication for gage number and equivalent thickness. Corresponding metric values are included for reference purposes only.

MINIMUM THICKNESS		
Uncoated Steel Sheet		
Gage	Decimal	mm
4	0.214	5.43
5	0.199	5.05
6	0.184	4.67
7	0.167	4.24
8	0.152	3.86
10	0.123	3.12
12	0.093	2.36
14	0.067	1.70
16	0.053	1.34
18	0.042	1.06
20	0.032	0.81
22	0.026	0.66
24	0.020	0.50
26	0.016	0.40
28	0.013	0.33

CONVERSION		
Fraction	Decimal	mm
	1.000	25.40
15/16	0.937	23.81
7/8	0.875	22.22
13/16	0.812	20.63
3/4	0.750	19.05
11/16	0.687	17.46
5/8	0.625	15.87
9/16	0.562	14.28
1/2	0.500	12.70
7/16	0.437	11.11
3/8	0.375	9.52
5/16	0.312	7.93
1/4	0.250	6.35
3/16	0.187	4.76
1/8	0.125	3.17
1/16	0.062	1.58

DISCLAIMER

This sheet was developed by representative members of the Hollow Metal Manufacturers Association Division (HMMA) of the National Association of Architectural Metal Manufacturers (NAAMM) to provide their opinion and guidance on minimum thickness and corresponding metric equivalents used for hollow metal doors and frames. This sheet contains advisory information only and is published as a public service by the HMMA Division. NAAMM and its HMMA DIVISION DISCLAIM ALL LIABILITY OF ANY KIND FOR THE USE, APPLICATION OR ADAPTATION OF MATERIAL SHOWN ON THIS SHEET.

PUBLICATIONS OF THE HMMA DIVISION OF NAAMM

ANSI / NAAMM HMMA SPECIFICATIONS

ANSI / NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 862 - Guide Specifications for Commercial Security Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 863 - Guide Specifications For Detention Security Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 865 - Guide Specifications For Sound Control Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 866 - Guide Specifications for Stainless Steel Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 867 - Guide Specifications for Commercial Laminated Core Hollow Metal Doors and Frames

ANSI / NAAMM HMMA RELATED DOCUMENTS

ANSI / NAAMM HMMA 801 - Glossary of Terms for Hollow Metal Doors and Frames
ANSI / NAAMM HMMA 841 - Tolerances and Clearance for Commercial Hollow Metal Doors and Frames

HMMA DOCUMENTS

HMMA 800 - Introduction to Custom Hollow Metal
HMMA 802 - Manufacturing of Hollow Metal Doors and Frames
HMMA 803 - Steel Tables
HMMA 810 - Hollow Metal Doors
HMMA 820 - Hollow Metal Frames
HMMA 830 - Hardware Selection For Hollow Metal Doors and Frames
HMMA 831 - Recommended Hardware Locations for Hollow Metal Doors and Frames
HMMA 840 - Installation and Storage of Hollow Metal Doors and Frames
HMMA 850 - Fire Rated Hollow Metal Doors and Frames
HMMA 860 - Guide Specifications for Hollow Metal Doors and Frames

HMMA TECH NOTES

HMMA 810-TN01 - Defining Undercuts
HMMA 820-TN01 - Grouting Hollow Metal Frames
HMMA 820-TN02 - Continuously Welded Frames
HMMA 820-TN03 - Guidelines for Glazing Hollow Metal Transoms, Sidelights, and Windows
HMMA 840 TN01 - Painting Hollow Metal Products Specifications

HMMA TECHNICAL SUMMARY

HMMA 890 - Technical Summary