

Algoma Acoustical Doors STC Ratings and Accessories

Algoma's new acoustical doors combine sound control with light weight in 1 3/4" (44 mm) thick doors. They are available with wood veneer or high pressure decorative laminate faces and have the same appearance as other flush wood doors. Acoustical doors are supplied complete with head and jamb gaskets and automatic bottom seals plus thresholds on STC-39, 43, and 45 doors. Bottom edge of door is grooved for bottom seal.

STANDARD ACOUSTICAL DOORS

STC-54 FLUSH

Communicating doors, two STC-40 doors installed back-to-back in common frame.
Double Pemko S88 gaskets, AMS (All Metal Stamping, Inc.) 300 series bottom seal for each door.

STC-45 Flush

Double Pemko S88 gaskets, AMS 300 series bottom seal, Pemko #2005 threshold.

STC-40 Flush

Double Pemko S88 gaskets, AMS 300 series bottom seal.

STC-39 With Lite

Double-glazed, 1/8" (3mm) and 1/4" (6mm) LamiGlass factory installed, maximum area 400 sq. in. (0.258 m2). Double Pemko S88 gaskets, AMS 300 series bottom seal, Pemko #2005 threshold.

STC-28 Flush

Double Pemko S88 gaskets, AMS 300 series bottom seal.
Maximum sizes for above constructions: 4'0" x 10'0" (1220 x 3050 mm), wood or high pressure decorative laminate faced.

FIRE RATED ACOUSTICAL DOORS

STC-43 FLUSH 1/3 hour rating (20 minute label)

Double Pemko S88 gaskets, AMS 300 series bottom seal, Pemko #2005 threshold. Maximum size: 4'0" x 8'0" (1220 x 2440 mm), wood faced only.

STC-28 Flush 1 1/2 hour rating (90 minute label)

Double Pemko S88 gaskets, National Guard 225N bottom seal. Maximum size: 4'0" x 9'0" (1220 x 2740 mm), wood faced; 4'0" x 8'0" (1220 x 2440 mm), high pressure decorative laminate faced.

STC-28 Flush 1 hour rating (60 minute label)

Double Pemko S88 gaskets, National Guard 225N bottom seal. Maximum size: 4'0" x 10'0" (1220 x 3050 mm), wood or high pressure decorative laminate faced.

STC-28 Flush 3/4 hour rating (45 minute label)

Double Pemko S88 gaskets, National Guard 225N bottom seal. Maximum size: 4'0" x 10'0" (1220 x 3050 mm), wood or high pressure decorative laminate faced.

STC-28 Flush 1/3 hour rating (20 minute label)

Double Pemko S88 gaskets, AMS 300 series bottom seal. Maximum size: 4'0" x 10'0" (1220 x 3050 mm), wood or high pressure decorative laminate faced.

All Algoma Acoustical Doors are 1 3/4" (44 mm) thick and may be used with normal hardware in standard hollow metal frames (back-filled). STC-28 doors weigh the same as most regular solid core doors while the STC-39 through STC-45 doors are slightly heavier. Door weight and usage should be considered when selecting frames and hardware. Full mortise hinges and either cylindrical or mortise type locks may be used. The maximum benefit of acoustical doors is provided from openings with uniform door/frame edge clearance, correct positioning of gasketing, and proper adjustment of the automatic bottom seal.

Door weight in pounds per square foot (kilograms per square meter);

STC-28 45-90 minute 4.1 lbs (20.0 kg)	STC-28 20 minute 4.9 lbs (23.9 kg)	STC-28 Standard 4.9 lbs (23.9 kg)	STC-39 Standard 6.5 lbs (31.7 kg)	STC-40 Standard 6.4 lbs (31.3 kg)	STC-43 20 minute 7.1 lbs (34.7 kg)	STC-45 Standard 6.4 lbs (31.3 kg)
--	---	--	--	--	---	--

Acoustical testing by Riverbank Acoustical Laboratories in accordance with ASTM E90-90 and E413-87 (as operating units). STC ratings verifiable only on single openings.

