

INSTALLATION INSTRUCTIONS

W1 WINDCODE® Supplemental Instructions

(For use with Insulated and Un-insulated Steel Residential Garage Door Instruction Manual)

Things to Know Before You Begin

To obtain a drawing for your door, visit:
<http://www.clopaydoor.com/windcode/drawings.htm>

This is a supplement to the “Steel Residential Garage Door Instructions”, “Insulated Steel Residential Garage Door Instructions” or “Wood Door Residential Garage Door Instructions”. These instructions will be referred to as the MANUAL.

These supplemental instructions cover important information unique to WINDCODE doors. For all other information and safety warnings concerning your WINDCODE garage door, see the MANUAL. Read all of the information below before beginning.

WINDCODE garage doors not installed with the proper reinforcement (struts, hinges, jamb brackets, track, fasteners) will not perform as designed.

An electric or pneumatic impact gun is strongly recommended for installation of WINDCODE doors.

WINDCODE doors have different reinforcement configurations based on door width:

- Up to 9'0" wide
- 9'2" to 16'0" wide
- 16'2" to 18'0" wide


To determine what door you have, locate the WINDCODE sticker found on the right-hand side of the bottom section (see Fig. 1). This sticker identifies the Manufacturing Product Code (MPC) for the door. Using the MPC, look up the required reinforcement pattern in the tables on pages 2 through 5.

Note: It is the buyer’s responsibility to purchase the garage door required to meet local building codes.

These instructions cover the following hardware attachment:

- 1) Addition of struts
- 2) Jamb configuration and attachment
- 3) Opener reinforcement

Fig. 1
 Sample WINDCODE Sticker (LOCATED ON BOTTOM SECTION)

		Design values applicable only when installation is in accordance with referenced installation drawing.			
Installed Design (Mark ONE below)	Manufacturing Product Code	Drawing Reference	Design Pressure* (PSF)	Impact & Cyclic Rated**	State / Local Approval Number
<input type="checkbox"/> W1	DSIE-1F171	102694	+13.0 / -15.0	N/A	-
<input type="checkbox"/> W4	DSIE-1F171	101652	+28.0 / -29.0	N/A	FL10386, TX GDR-02
<input type="checkbox"/> W6	DSIE-1F171	101526-A	+37.0 / -40.0	Large Missile & Cyclic	FL5675
<input type="checkbox"/> W6	DSIE-1F171	101526-B	+37.0 / -40.0	N/A	FL5675, TX GDR-02

* In accordance with ANSI/DASMA 108
 ** In accordance with ANSI/DASMA 115
 LABEL ID: DSIE-1F171-09-S

Strut Attachment

Struts are placed lengthwise across the door to add strength. Strut configurations vary depending on WINDCODE® rating and door size. The tables below show WINDCODE doors and the corresponding drawing number. To obtain the specified drawing, please visit:

www.clopaydoor.com/windcode/drawings.htm.

These drawings include specific strut configuration and detailed technical information for each door. After reviewing the strut configuration, you may begin installation. For strut configurations not listed in the tables below, please call the Consumer Hotline listed in your MANUAL.

Table 1				
MPC DSIE-1A171 – 1" Double Steel Skin Insulated (EPS) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
4050, 4051, 4053, 2050, 2051, 2053, 6130, 6131, 6133, SDP38, SFL38, SRP38, MDP38, MFL38, MRP38	Up to 9'0"	2"	See Fig. 11	102714
4050, 4051, 4053, 2050, 2051, 2053, 6130, 6131, 6133, SDP38, SFL38, SRP38, MDP38, MFL38, MRP38	9'2" to 16'0"	2"	See Fig. 15	102715
4050, 4051, 4053, 2050, 2051, 2053, 6130, 6131, 6133, SDP38, SFL38, SRP38, MDP38, MFL38, MRP38	16'2" to 18'0"	3"	See Fig. 14	102867

Table 2				
MPC DSIE-1F171 – 2" Double Steel Skin Insulated (EPS) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
4300, 4301, 4310, HDG, HDGF, HDGL, 6200, 6201, 6203, SDP68, SFL68, SRP68, MDP68, MFL68, MRP68	Up to 9'0"	N/A	No struts required	102694
4300, 4301, 4310, HDG, HDGF, HDGL, 6200, 6201, 6203, SDP68, SFL68, SRP68, MDP68, MFL68, MRP68	9'2" to 16'0"	2"	See Fig. 13	102695
4300, 4301, 4310, HDG, HDGF, HDGL, 6200, 6201, 6203, SDP68, SFL68, SRP68, MDP68, MFL68, MRP68	16'2" to 18'0"	3"	See Fig. 13	102736

Table 3				
MPC DSIU-1A171 – 1" Double Steel Skin Insulated (PUR) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
9130, 9131, 9132, HDP13, HDPF13, HDPL13, 7130, 7131, 7133, 8130, 8131, 8133, MDP38U, MFL38U, MRP38U	Up to 9'0"	N/A	No struts required	104174
9130, 9131, 9132, HDP13, HDPF13, HDPL13, 7130, 7131, 7133, 8130, 8131, 8133, MDP38U, MFL38U, MRP38U	9'2" to 16'0"	2"	See Fig. 14	104163
9130, 9131, 9132, HDP13, HDPF13, HDPL13, 7130, 7131, 7133, 8130, 8131, 8133, MDP38U, MFL38U, MRP38U	16'2" to 18'0"	3"	See Fig. 14	104291

Table 4				
MPC DSIU-1F171 – 2" Double Steel Skin Insulated (PUR) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
9200, 9201, 9203 HDP20, HDPF20, HDPL20 7200, 7201, 7203 8200, 8201, 8203 MDP68U, MFL68U, MRP68U	Up to 9'0"	N/A	No struts required	104279
9200, 9201, 9203 HDP20, HDPF20, HDPL20 7200, 7201, 7203 8200, 8201, 8203 MDP68U, MFL68U, MRP68U	9'2" to 16'0"	2"	See Fig. 12	104129
9200, 9201, 9203 HDP20, HDPF20, HDPL20 7200, 7201, 7203 8200, 8201, 8203 MDP68U, MFL68U, MRP68U	16'2" to 18'0"	3"	See Fig. 12	104259

Table 5				
MPC PAN-1E151 – Single Steel Skin Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
T50S, T50L, T51S, T51F, T51L, T52S, T52L T40S, T40F, T40L, T41S, T41F, T41L, T42S, T42F, T42L HDB, HDBF, HDBL, HDB4 HDS, HDSF, HDSL 4200, 4203, 5200, 5203, 5500, 5503 IT50S, IT50L, IT51S, IT51F, IT51L, IT52S, IT52L IT40S, IT40F, IT40L, IT41S, IT41F, IT41L, IT42S, IT42F, IT42L M5ST, M5LT, M4SV, M4LV, M4FV	Up to 9'0"	2"	See Fig. 6	104254
T50S, T50L, T51S, T51F, T51L, T52S, T52L T40S, T40F, T40L, T41S, T41F, T41L, T42S, T42F, T42L HDB, HDBF, HDBL, HDB4 HDS, HDSF, HDSL 4200, 4203, 5200, 5203, 5500, 5503 IT50S, IT50L, IT51S, IT51F, IT51L, IT52S, IT52L IT40S, IT40F, IT40L, IT41S, IT41F, IT41L, IT42S, IT42F, IT42L M5ST, M5LT, M4SV, M4LV, M4FV	9'2" to 16'0"	3"	See Fig. 8	104145
T50S, T50L, T51S, T51F, T51L, T52S, T52L T40S, T40F, T40L, T41S, T41F, T41L, T42S, T42F, T42L HDB, HDBF, HDBL, HDB4 HDS, HDSF, HDSL 4200, 4203, 5200, 5203, 5500, 5503 IT50S, IT50L, IT51S, IT51F, IT51L, IT52S, IT52L IT40S, IT40F, IT40L, IT41S, IT41F, IT41L, IT42S, IT42F, IT42L M5ST, M5LT, M4SV, M4LV, M4FV	16'2" to 18'0"	3"	See Fig. 9	104255

Table 6				
MPC LEI-3F151 – Single Steel Skin Insulated Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
251S, 251L, 251F, B178, B278, B378, 55S, 55L, S51S, S51L, S51F	Up to 9'0"	2"	See Fig. 7	102935
251S, 251L, 251F, B178, B278, B378, 55S, 55L, S51S, S51L, S51F	9'2" to 16'0"	3"	See Fig. 9	102937
251S, 251F, B178, B378, 55S, S51S, S51F	16'2" to 18'0"	3"	See Fig. 9	102939

Table 7				
MPC PAN-3F151 – Single Steel Skin Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
150S, C125, 150L, C225, 140S, C124, 140L, 45S, 45L, B5S, B5L, B4F, 44S, B4S, B4L	Up to 9'0"	2"	See Fig. 7	102942
150S, C125, 150L, C225, 140S, C124, 140L, 45S, 45L, B5S, B5L, B4F, 44S, B4S, B4L	9'2" to 16'0"	3"	See Fig. 9	102944
150S, C125, 140S, C124, 45S, B5S, B4F, 44S, B4S	16'2" to 18'0"	3"	See Fig. 9	102946

Table 8				
MPC PAN-2F441 – Single Steel Skin Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
GD4S, GR4S, GD4SV, GR4SV, GD4L, GR4L, GD4LV, GR4LV, AR4S, AR4SV, AR4L, AR4LV, ED4SV, ED4L, ED4LV	Up to 9'0"	2"	7': See Fig. 6 8': See Fig. 7	103597
GD4S, GR4S, GD4SV, GR4SV, GD4L, GR4L, GD4LV, GR4LV, AR4S, AR4SV, AR4L, AR4LV, ED4SV, ED4L, ED4LV	9'2" to 16'0"	3"	7': See Fig. 8 8': See Fig. 9	103469
GD4S, GR4S, GD4SV, GR4SV, GD4L, GR4L, GD4LV, GR4LV, AR4S, AR4SV, AR4L, AR4LV, ED4SV, ED4L, ED4LV	16'2" to 18'0"	3"	7": See Fig. 9 8": See Fig. 10	103603

Table 9				
MPC PAN-2F155 – Single Steel Skin Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
GD5S, GR5S, GD5SV, GR5SV, AR5S, AR5SV, ED5SV	Up to 9'0"	2"	See Fig. 6	103996
GD5S, GR5S, GD5SV, GR5SV, AR5S, AR5SV, ED5SV	9'2" to 16'0"	3"	See Fig. 8	103997
GD5S, GR5S, GD5SV, GR5SV, AR5S, AR5SV, ED5SV	16'2" to 18'0"	3"	See Fig. 9	103998

Table 10				
MPC DSIE-1A471 – 1" Double Steel Skin Insulated (EPS) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
GD1SP, GD1LP, GR1SP, GR1LP, AR1SP, AR1LP, ED1SP, ED1LP, MR1SP, MR1LP	Up to 9'0"	2"	See Fig. 12	104022
GD1SP, GD1LP, GR1SP, GR1LP, AR1SP, AR1LP, ED1SP, ED1LP, MR1SP, MR1LP	9'2" to 16'0"	2"	See Fig. 16	104023
GD1SP, GD1LP, GR1SP, GR1LP, AR1SP, AR1LP, ED1SP, ED1LP, MR1SP, MR1LP	16'2" to 18'0"	3"	See Fig. 15	104024

Table 11				
MPC DSIE-1F471 – 2" Double Steel Skin Insulated (EPS) Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
GD2SP, GD2LP, GR2SP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, MR2SP, MR2LP	Up to 9'0"	N/A	No struts required	104025
GD2SP, GD2LP, GR2SP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, MR2SP, MR2LP	9'2" to 16'0"	2"	See Fig. 14	104026
GD2SP, GD2LP, GR2SP, GR2LP, AR2SP, AR2LP, ED2SP, ED2LP, MR2SP, MR2LP	16'2" to 18'0"	3"	See Fig. 14	104027

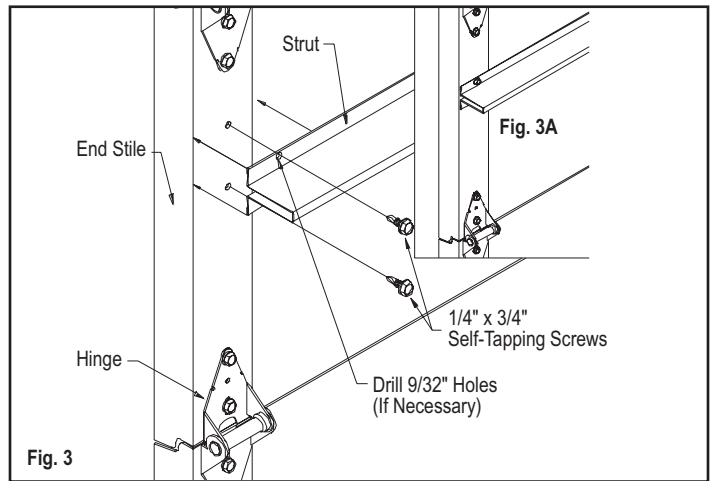
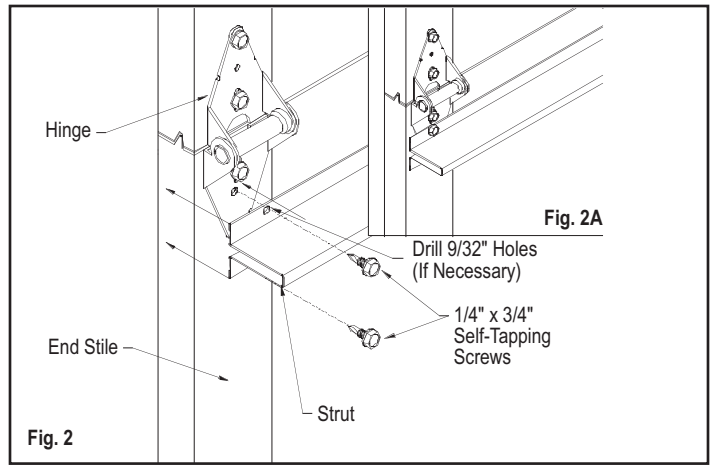
Table 12				
MPC DSIEO-1F479 – 2" Double Steel Skin Insulated (EPS) Doors with Decorative Overlay				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
CDnn, CFnn, ADnn, SFnn (nn represents the design of the decorative overlays)	Up to 9'0"	2"	See Fig. 11	103104
CDnn, CFnn, ADnn, SFnn (nn represents the design of the decorative overlays)	9'2" to 16'0"	2"	See Fig. 15	103105
CDnn, CFnn, ADnn, SFnn (nn represents the design of the decorative overlays)	16'2" to 18'0"	3"	See Fig. 14	103106

Table 13				
MPC W-1B899 – Carriage House Wood Doors (Reserve Collection)				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
RHxx, RRxx, RCxx, CHxx, CRxx, CCxx (Reserve/Carriage House Collection)	Up to 9'0"	N/A	No struts required	102901
RHxx, RRxx, RCxx, CHxx, CRxx, CCxx (Reserve/Carriage House Collection)	9'2" to 16'0"	2"	See drawing for special instructions	102900

Table 14				
MPC PAN-1E458 – Single Steel Skin Pan Doors				
Model Numbers	Door Width	Strut Size	Strutting Configuration	Corresponding Drawing Number
70B, S5ESV, S5EST, S5SV, S5ST, M5EST, M5ESV	Up to 10'2"	2"	See Fig. 5	104120
70B, S5ESV, S5EST, S5SV, S5ST, M5EST, M5ESV	10'3" to 14'2"	3"	See Fig. 7	104122

Strut Installation (See Fig. 2 & Fig. 3)

Depending on the type of WINDCODE® door (double steel skin or single steel skin), there are two possible ways that a strut can be installed. For double steel skin doors, all struts must be installed over a hinge leaf – refer to Fig. 2 for details and the appropriate strut configuration figure. For single steel skin doors, the struts may be placed above or below the hinge, or on the hinge leaf – refer to Fig. 3 and the appropriate strut configuration figure. For wood or aluminum doors, refer to the drawing located on the website. If not using an electric or pneumatic impact gun and prepunched holes are not present, drill one 9/32" hole at the top and one 9/32" hole at the bottom of the strut at all hinge and stile locations. Attach strut to door section with (2) 1/4" x 3/4" self-tapping screws at each hinge and stile location.

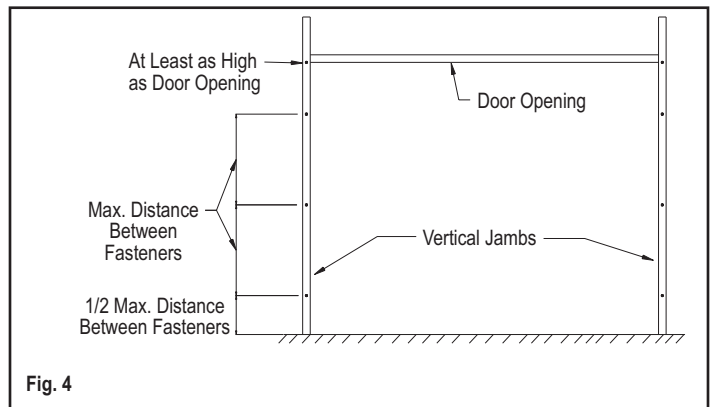


Jamb Configuration & Attachment

NOTE: The design of the supporting structural elements (i.e., framing studs) shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the technical drawing for the specific model. It is also important that the vertical 2 x 6 wood jambs are attached to the supporting structure in a method that is sufficient to transfer the loads exerted by the wind pressures. Some suggested vertical jamb attachment fastening methods are included in the drawings and in Table 15. For maximum holding strength, jamb attachment fasteners should be installed in the center of the jambs. Jambs should not split or crack.

Opener Reinforcement

Refer to the MANUAL for installation instructions. If the WINDCODE door requires a strut across the top of the top section, this takes the place of any horizontal angle iron required by the MANUAL. The vertical angle as shown in the MANUAL is still required on WINDCODE doors.



Fastener Type	Specification	Maximum Distance Between Fasteners*		
		Up to 9'0" Wide	9'2" to 16'0" Wide	16'2" to 18'0" Wide
Lag Screw	3/8"x 3" (1" embedment into framing studs)	24"	24"	24"
Common Wire Nails	16D x 3" (2" embedment into framing studs)	13"	8"	7"

* First fastener starting from bottom at no more than half of maximum distance between fasteners listed in Table 15. Highest fastener installed at least as high as the door opening. (See Fig. 4)

SINGLE STEEL SKIN PAN DOORS

NOTES:

1. View is from the inside looking out.
2. For doors with more than five sections, refer to drawing on website.
3. The bottom section is considered the first section, the second section from the bottom is the second section, etc.
4. Strut pattern reads from bottom of door to top.

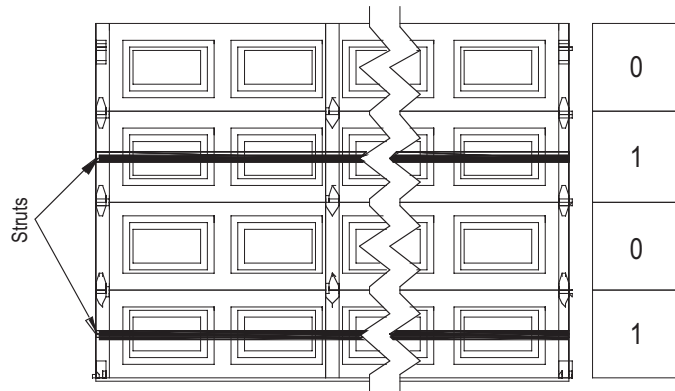


Fig. 5 Five Section Doors Require A 1-0-1-0-1 Pattern

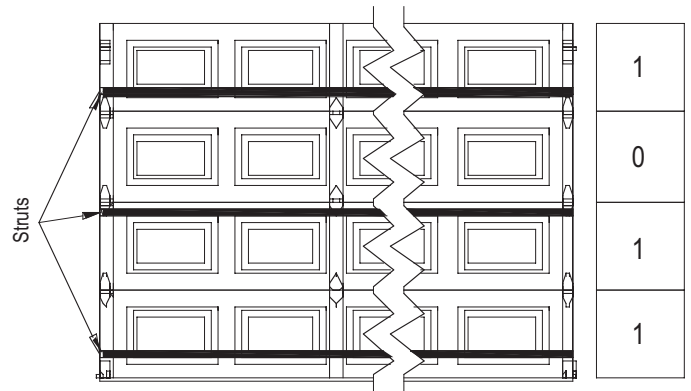


Fig. 6 Five Section Doors Require A 1-1-0-1-1 Pattern

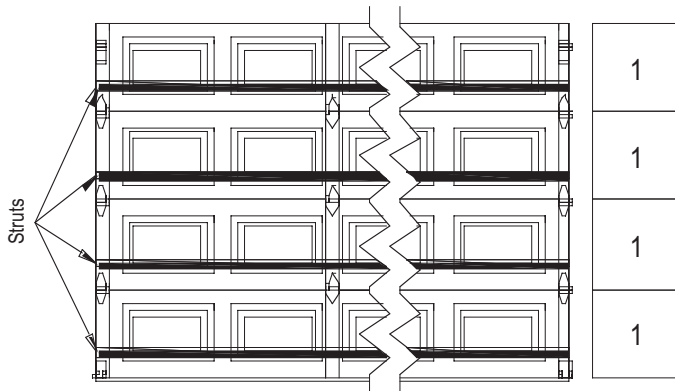


Fig. 7 Five Section Doors Require A 1-1-1-1-1 Pattern

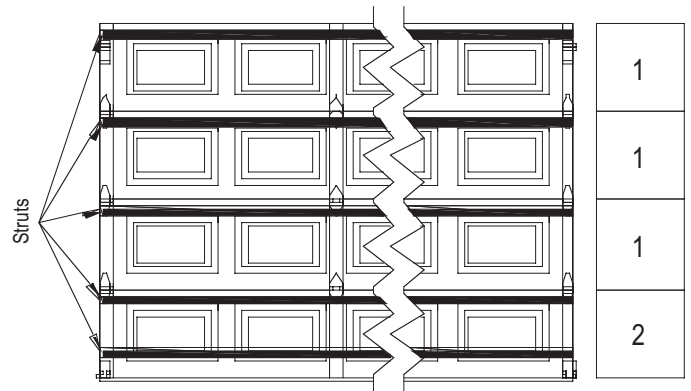


Fig. 8 Five Section Doors Require A 2-1-1-1-1 Pattern

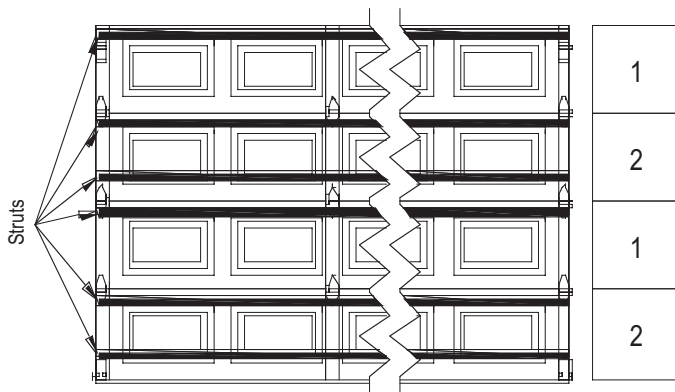


Fig. 9 Five Section Doors Require A 2-2-1-2-2 Pattern

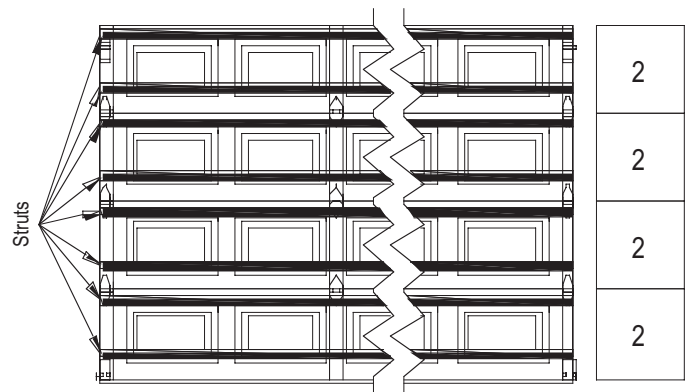


Fig. 10 Five Section Doors Require A 2-2-2-2-2 Pattern

DOUBLE-SKIN INSULATED DOORS

NOTES:

1. View is from the inside looking out.
2. For doors with more than five sections, refer to drawing on website.
3. The bottom section is considered the first section, the second section from the bottom is the second section, etc.
4. Strut pattern reads from bottom of door to top.

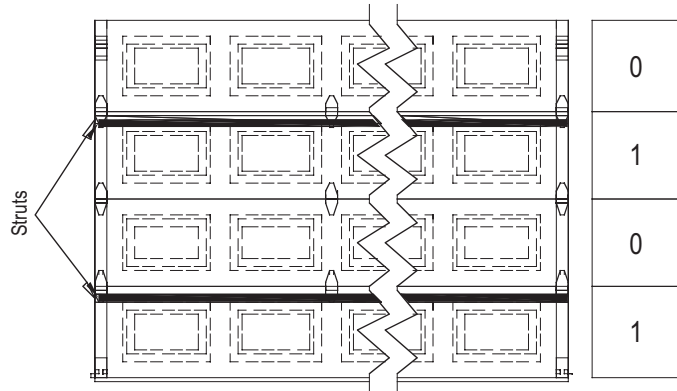


Fig. 11 Five Section Doors Require A 1-0-1-0-1 Pattern

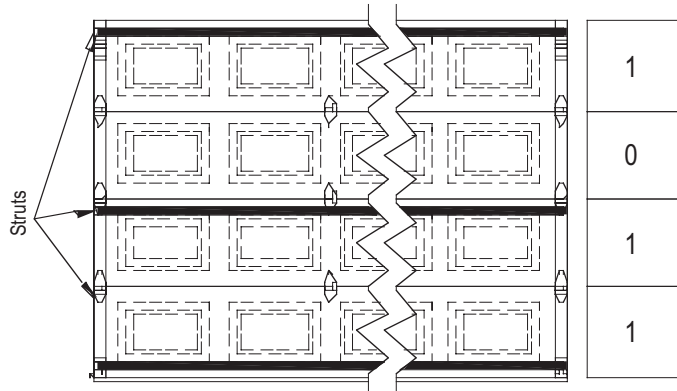


Fig. 12 Five Section Doors Require A 1-1-0-1-1 Pattern

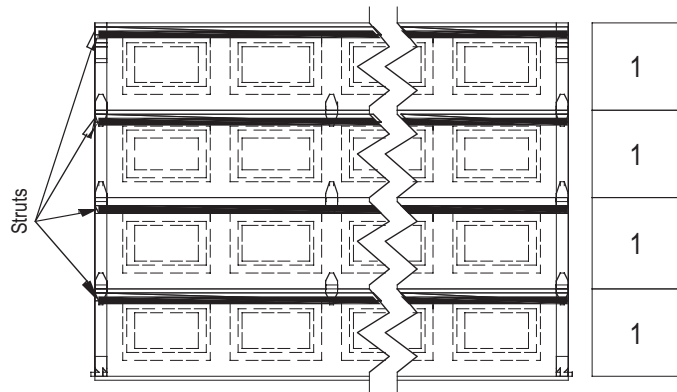


Fig. 13 Five Section Doors Require A 1-1-1-1-1 Pattern

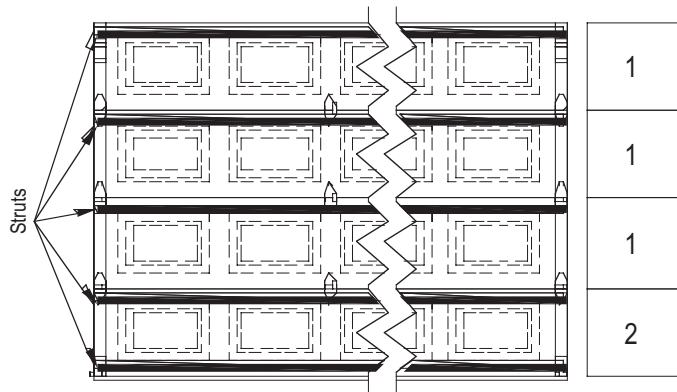


Fig. 14 Five Section Doors Require A 2-1-1-1-1 Pattern

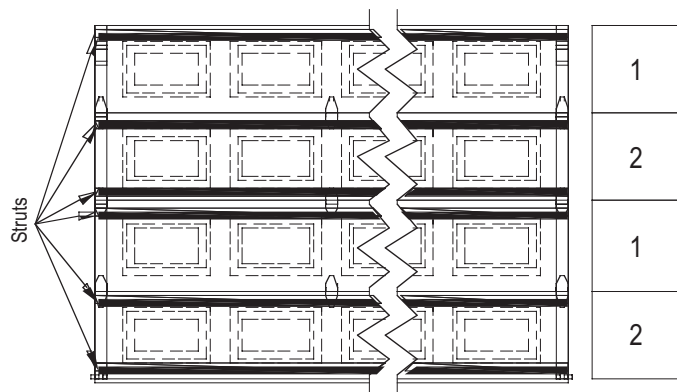


Fig. 15 Five Section Doors Require A 2-2-1-1-2 Pattern

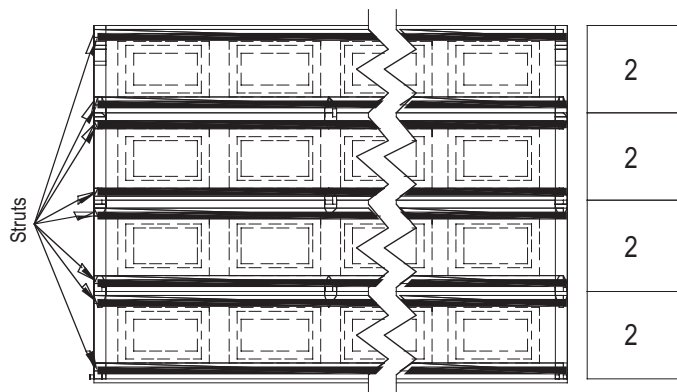


Fig. 16 Five Section Doors Require A 2-2-2-2-2 Pattern