

Scott A. Brown, Professional Engineer

Evaluation reports are the opinion of the evaluation entity, based on the findings, and in no way constitute or imply approval by a local building authority. I, Scott A. Brown P.E., have reviewed the data submitted by Raynor Garage Doors and in my opinion, the product, material, system, or method of construction specifically identified in this report conforms to the requirements of the 8th Edition (2023) of the Florida Building Code, subject to the limitations in this report.

Report No.: 43-E

Submitted: 03/26/2025
06/11/2025
08/08/2025
10/02/2025
01/30/2026

Category: Exterior Doors

Submitted By:

Raynor Garage Doors
1101 East River Road
Dixon, IL 61021

Evaluation Entity:

Scott A. Brown P.E.
809 E. 2nd Street
Dixon, IL 61021

Evaluation Test Standards:

ANSI/DASMA 108-2017
ANSI/DASMA 115-2017

1. Product Trade Name

1.1 Pan Doors

1.1.1 SteelPro SP24

1.1.2 SteelPro SP20

2. Scope of Evaluation

2.1 Structural: Transverse wind loads.

3. Uses

3.1 Raynor garage doors are used as garage doors with specified allowable transverse wind pressures.

4. Models

4.1 SteelPro SP24: Sections shall be pan style 2" thick, roll formed from 24 ga. (.022 min.) commercial quality hot dip galvanized steel. Each door section has two deep ribs and six pencil grooves for additional strength and a tongue and groove section joint. Aluminum full view sections may be added as a window option.

4.2 SteelPro SP20: Same as SteelPro SP24 except for the exterior skin is 0.035-inch-thick galvanized roll-formed steel. Aluminum full view sections may be added as a window option.

5. Reinforcing

5.1 General: Raynor garage doors sections may be reinforced horizontally with roll-formed galvanized steel u-bars and/or box struts.

5.1.1 U-bar: Horizontal reinforcing U-shaped sections, 2-5/8" deep x 2" wide x 20 ga. (.035 inch minimum) or 18 ga. (.049 inch minimum) galvanized steel, 80 KSI minimum tensile.

5.1.2 Box Struts: Horizontal reinforcing U-shaped sections, 4-1/2" deep x 5.04" wide x 20 ga. (0.035 inch minimum) or 18 ga. (.049 inch minimum) galvanized steel, 80 KSI minimum tensile.

6. Installation

6.1 General: Raynor garage doors are to be installed in accordance with the manufacturer's published installation instructions, engineering drawings and this report. The manufacturer's published installation instructions and this report shall be strictly adhered to, and a copy of these instructions shall be available at all times on the job site during installation. The information within this report governs if there are any conflicts between the manufacturer's instructions and this report.

7. Allowable Wind Loads

The doors shown in Table 1 were tested to ANSI/DASMA 108 for static air pressure and doors shown in Table 2 were tested to ANSI/DASMA 108 for static air pressure and ANSI/DASMA 115 for impact and cyclic loading.

Table 1

Door Model(s)	Tested Door Width	Drawing Number(s)	Design Loads (psf)		Large Missile Impact Resistant	Glazing Type	Test Report Number	Test Date
SteelPro SP24 SteelPro SP20	9'-2"	P-2600-E	13.4	-14.6	No	25" x 12"	2273	3/19/2025
						FullView	2289	8/05/225
	9'-2"	P-2601-E	25.9	-29.2		25" x 12"	2138	5/17/2023
						FullView	2290	8/5/2025
	12'-2"		15.1	-17.1		25" x 12"	2143	6/12/2023
						FullView	2285	7/29/2025
	16'-2"		11.3	-12.6		25" x 12"	2125	2/22/2023
						FullView	2280	7/16/2025
	9'-2"	P-2602-E	32.3	-36.5		25" x 12"	2136	5/5/2023
						FullView	2291	8/5/2025
	12'-2"		21.9	-24.6		25" x 12"	2135	5/3/2023
						FullView	2286	7/30/2025
	16'-2"		12.3	-13.8		25" x 12"	2124	2/21/2023
						FullView	2281	7/16/2025
	20'-2"		10.0	-10.5		25" x 12"	2306	9/24/2025
						FullView	2282	7/17/2025
	9'-2"	P-2603-E	45.9	-51.9		25" x 12"	2155	8/8/2023
						FullView	2292	8/6/2025
	12'-2"		41.1	-44.4		25" x 12"	2144	6/14/2023
						FullView	2287	7/31/2025
	16'-2"		26.3	-29.3		25" x 12"	2128	2/27/2023
						FullView	2278	6/13/2025
	20'-2"		19.3	-23.3		25" x 12"	2148	6/30/2023
						FullView	2283	7/21/2025
	12'-2"	P-2604-E	45.9	-51.9		FullView	2288	8/1/2025
						25" x 12"	2309	9/29/2025
	16'-2"		30.9	-33.1		25" x 12"	2164	12/7/2023
						FullView	2276	6/2/2025
	20'-2"		23.3	-26.0		25" x 12"	2149	7/11/2023
						FullView	2284	7/22/2025

Table 2

Door Model(s)	Tested Door Width	Drawing Number(s)	Design Loads (psf)		Large Missile Impact Resistant	Glazing Type	Test Report Number	Test Date	
SteelPro SP24 SteelPro SP20	9'-2"	P-3334-C	32.3	-36.5	Yes	N/A	2136	5/5/2023	
							2139	5/26/2023	
			FullView	2291		8/5/2025			
				2293		8/7/2025			
	12'-2"	P-3334-C	21.9	-24.6		N/A	2135	5/3/2023	
							2145	6/20/2023	
			FullView	2286		7/30/2025			
				2295		8/14/2025			
	9'-2"	P-3337-C	45.9	-51.9		N/A	2155	8/8/2023	
							2157	8/11/2023	
			FullView	2292		8/8/2025			
				2294		8/12/2025			
	12'-2"	P-3337-C	41.1	-44.4		N/A	2144	6/12/2023	
							2146	6/22/2023	
			FullView	2287		7/31/2025			
				2296		8/19/2025			
	16'-2"	P-3337-C	26.3	-29.3		N/A	2128	3/17/2023	
							2152	7/26/2023	
			FullView	2278		6/13/2025			
				2279		6/17/2025			
	20'-2"	P-3337-C	19.3	-23.3		N/A	2148	6/30/2023	
							2150	7/14/2023	
			FullView	2283		7/21/2025			
				2298		8/28/2025			
	16'-2"	P-3339-C	32.6	-36.4		N/A	2127	3/16/2023	
							2153	7/31/2023	
			20'-2"	23.3			-26.0	2149	7/11/2023
								2151	7/19/2023
	12'-2"	P-3356-B	45.9	-51.9		FullView	2288	8/1/2025	
							2297	8/22/2025	
			16'-2"	30.9			-33.1	2276	6/2/2025
								2277	6/10/2025
	20'-2"	P-3356-B	23.3	-26.0		2284	7/22/2025		
						2299	9/4/2025		

8. Substantiating Data

8.1 Test Reports: Testing for doors shown in Table 1 and Table 2 was done at Raynor Garage Doors test lab in Dixon Illinois which is accredited by ANSI National Accreditation Board (ANAB) at the time of testing, scope of accreditation can be found at <http://www.anab.org>. Testing was witnessed by an independent third-party Florida Registered Professional Engineer, Scott A. Brown P.E. Test reports were prepared by Raynor Garage Doors and signed and sealed by Scott A. Brown P.E., see Table 1 and Table 2 for report numbers and test dates.

8.2 Engineering Drawings: Drawings listed in Table 1 and Table 2 were prepared by Raynor Garage Doors under the direction of Scott A. Brown P.E. and then reviewed, signed, sealed and dated by Scott A. Brown P.E. See Table 1 and Table 2 for drawing numbers.

8.3 Calculations: Calculations on jamb attachment, the results are shown on drawings listed in this report.

9. Limitations

9.1 The doors shall be installed in accordance with the manufacturer's published installation instructions in this report and the manufacturer's published installation instructions, engineering drawings and this report.

9.2 The structural elements supporting the door track brackets shall be designed by a registered professional engineer for the wind loads shown on the drawings listed in this evaluation.

9.3 The doors shall not be installed in areas where the transverse wind loads exceed the allowable loads shown in Table 1 and Table 2.

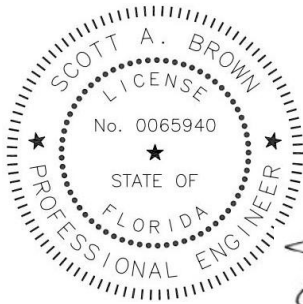
9.4 Doors listed in this report do not address the requirements of the High Velocity Hurricane Zone (HVHZ).

10. Identification

10.1 Each Raynor Garage Door covered by this report shall be labeled with the manufacturer's name, drawing number and Florida approval number for field identification.

11. Further Information

11.1 Scott A. Brown F.P.E. #65940 does not have, nor intend to acquire a financial interest in Raynor Mfg. or any other company manufacturing or distributing products for which this report is being issued; Scott A. Brown F.P.E. #65940 is not controlled by Raynor Mfg. or any other company manufacturing or distributing any portion of the product being tested, evaluated or approved by this report.



A handwritten signature in black ink that reads "Scott Brown".

Digitally signed by Scott A Brown
Date: 2026.02.08 12:14:42-06'00'

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Structural Adequacy for Wind Load

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