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R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry
P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197

Florida Board of Professional Engineers Registry License No. 9813

Product Evaluation Report

Report No.:

FL-41130.2

Date:

July 1, 2023

Product Category	Sub Category	Manufacturer	Product Name
Exterior	Swinging Exterior Door Assemblies	DKS Steel Door & Frame Systems, Inc. 2142 Tubeway Ave.	DKS Series 1800 Steel Commercial Door
Doors		Commerce, CA 90040	Outswing
		(323) 888-7763	"Impact"

Scope:

This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. for DKS Steel Door & Frame Systems, Inc. based on Rule Chapter No. 61G20-3, Method 1D of the State of Florida Product Approval, Department of Business & Professional Regulation.

RW Building Consultants and Lyndon F. Schmidt, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

Limitations:

- 1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 3. When used in the "HVHZ" this product complies with section 1626 of the Florida Building Code and does not require an impact resistant covering.
- 4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- 5. Site conditions that deviate from the details of drawing FL-41130.2 require further engineering analysis by a licensed engineer or registered architect.
- 6. This product does not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
- 7. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.
- 8. See drawing FL-41130.2 for size and design pressure limitations..

Test Standard

Supporting Documents:

Test Report No.

	ATI 95951.01-201-18 TEL 01821092 ITS 3053378	TAS 201, 202 & 203-94 TAS 201, 202 & 203-94 UL 10C - 09	Architectural Testing, Inc. Testing Evaluation Lab.,Inc. Intertek Testing Services	Joseph A. Reed, P.E. William Shelton, P.E. Mike van Geyn
2.	Drawing No. No. FL-41130.2	Prepared by RW Building Consultants, Inc. (#9813)		Signed & Sealed by Lyndon F. Schmidt, P.E.
3.	<u>Calculations</u> Anchoring	Prepared by RW Building Consultants, Inc. (#9813)		Signed & Sealed by Lyndon F. Schmidt, P.E.

4. Quality Assurance

Certificate of Participation issued by National Accreditation and Management Institute, certifying that DKS Steel Door & Frame Systems, Inc. is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53.

Digitally signed by Lyndon F Schmidt Date: 2023.07.19 09:16:37 -04'00'

Signed by

LYNDON F. SCHMIDT, State of Florida, Professional Engineer, License No. 43409
This item has been digitally signed and sealed by L. F. Schmidt on 7-19-23.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Testing Laboratory

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA



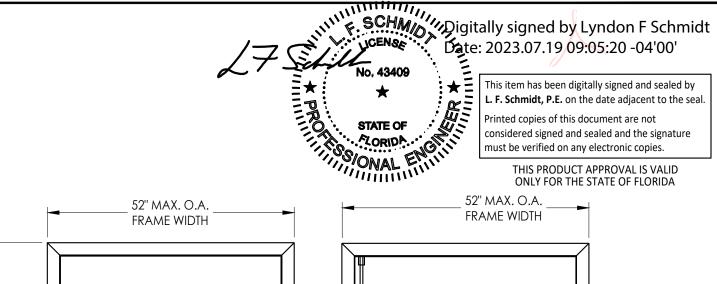
STEEL DOOR & FRAME SYSTEMS, INC.

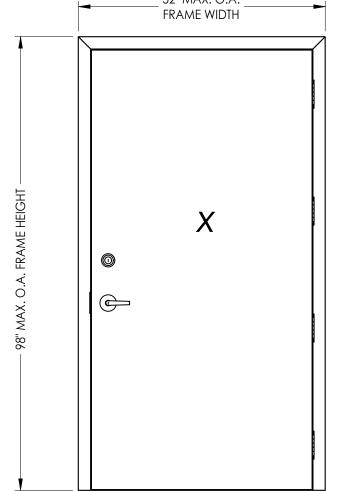
DKS SERIES 1800 STEEL COMMERCIAL DOOR **OUTSWING** "IMPACT"

GENERAL NOTES

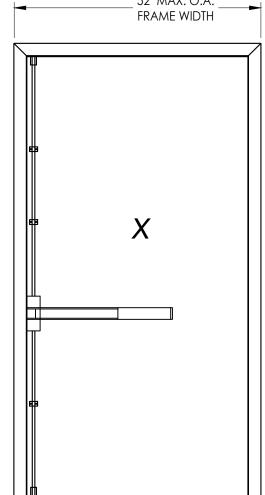
- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
- When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- This product does not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
- When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6

	TABLE OF CONTENTS			
SHEET#	DESCRIPTION			
1	Typical elevation, design pressures & general notes			
2	Door panel details			
3	Horizontal and vertical cross sections			
4	Frame anchoring			
5	Bill of materials and components			









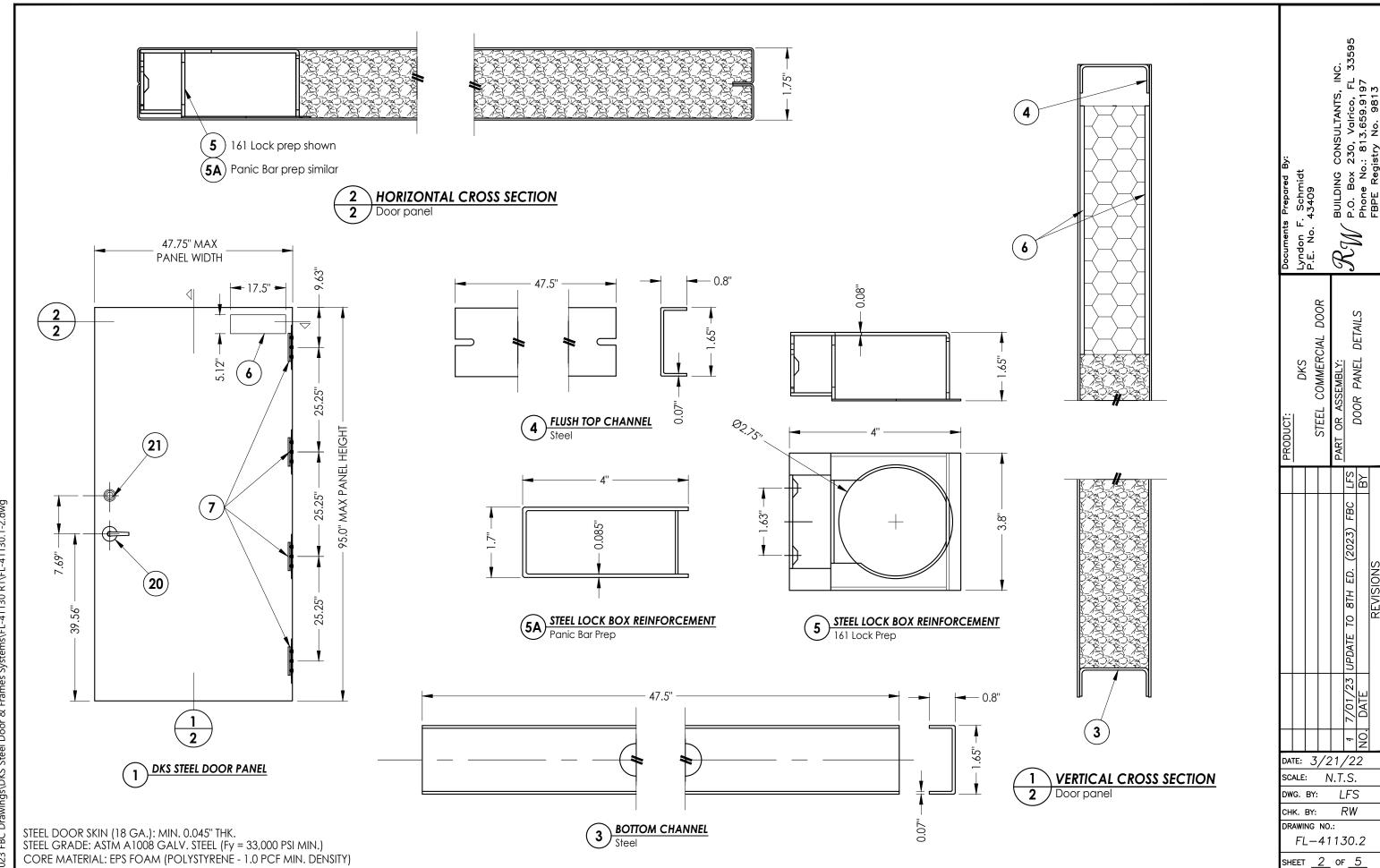
Panic Bar Exit Device w/ Vertical Rods "7700-V Series"

OVERALL ERAME	OVERALL LOCK TYPE		DESIGN PRESSURE (PSF)	
DIMENSION	LOCK III L	POSITIVE	NEGATIVE	
52.0" x 98.0"	161 LATCH & DEADBOLT "PIONEER SL/CSL & T300 Series"	+80.0	-80.0	
40.0" x 98.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	+70.0	-70.0	
52.0" x 98.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	+50.0	-50.0	

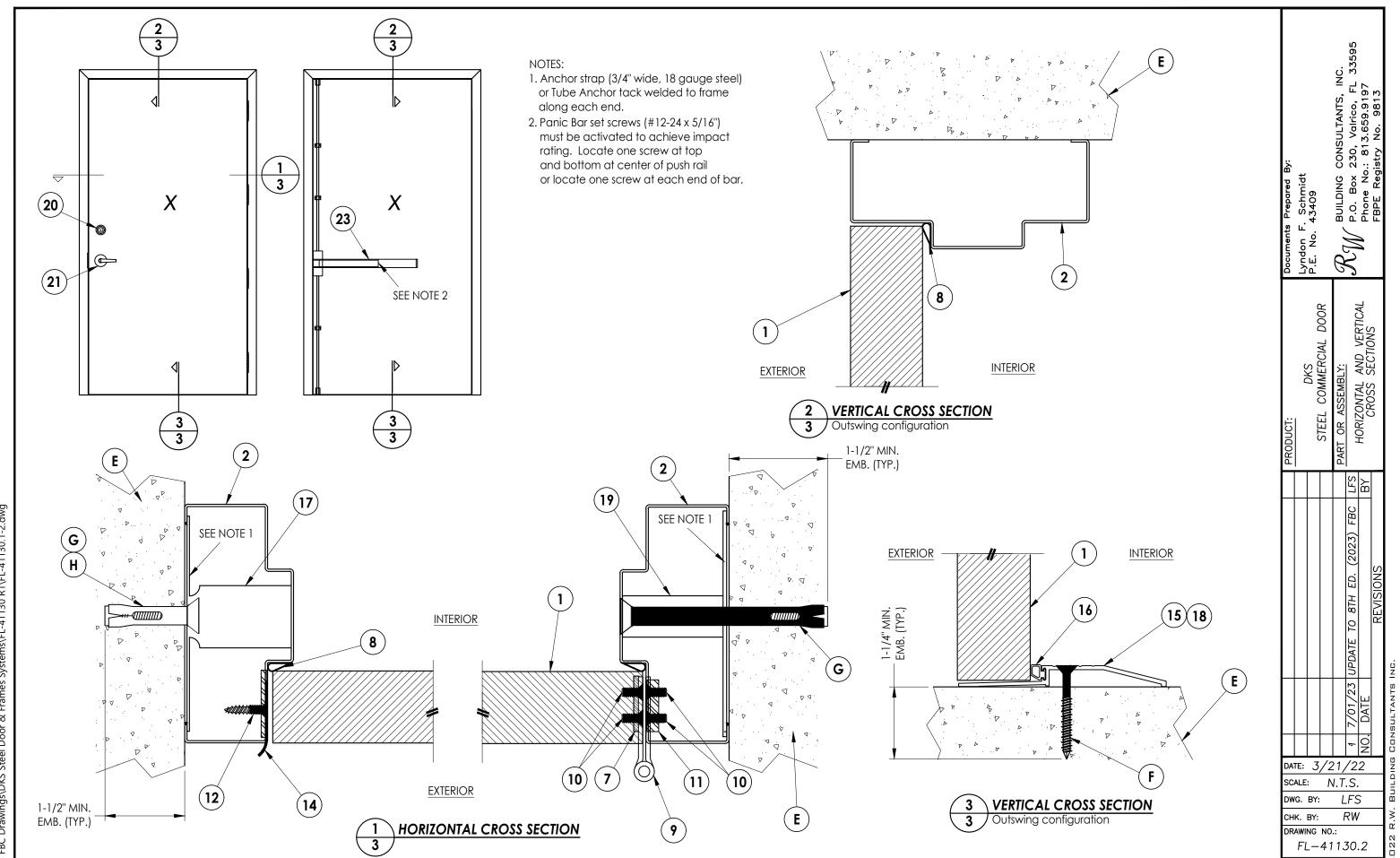
DATE: 3/21/22N.T.S. LFS FL-41130.2

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DRAWING NO.:

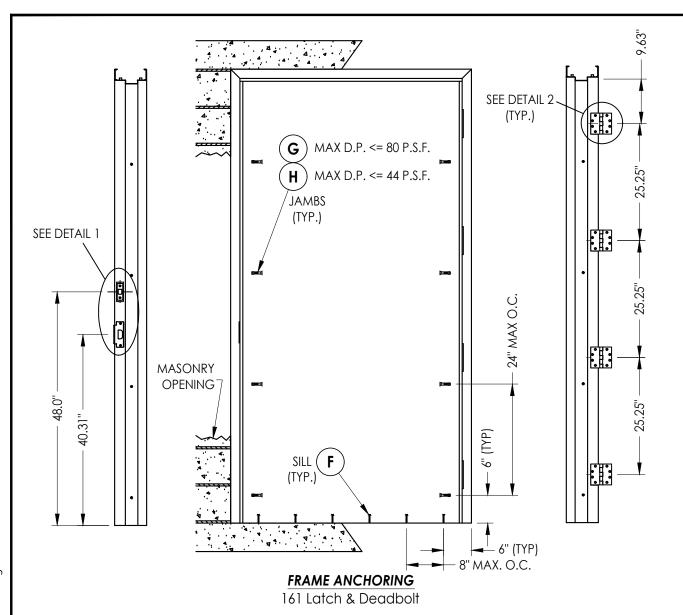


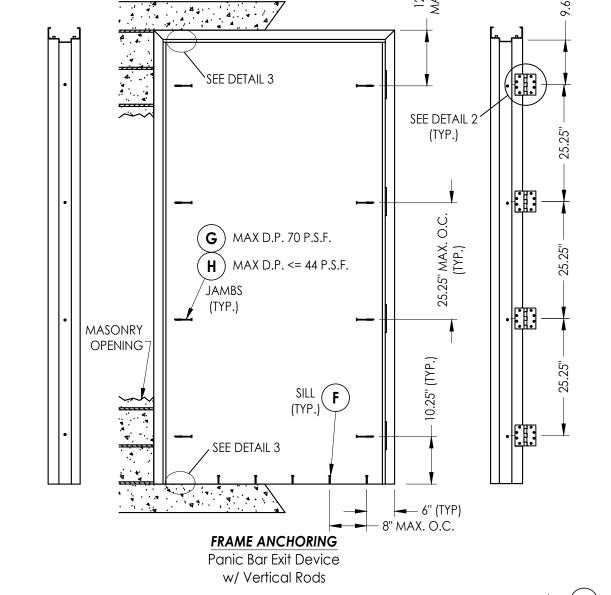
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SHEET <u>3</u> OF <u>5</u>

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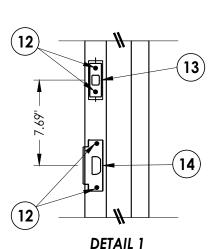


CONCRETE ANCHOR NOTES:

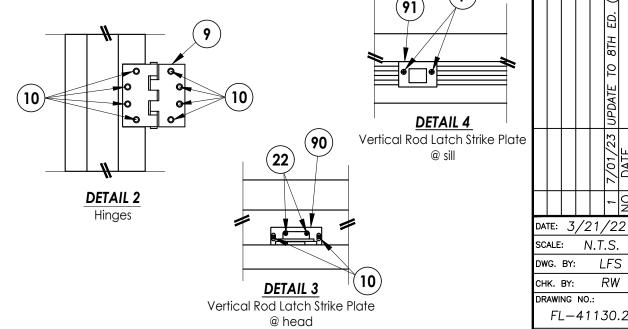
- 1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
- 2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- 3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	
ITW TAPCON	1/4"	1-1/4"	4"	2"
TAPPER	3/8"	1-1/2"	4-1/4"	3-3/4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"

4. Embedment may be through 1-1/4" face shell of hollow block.







LFS FL-41130.2 SHEET <u>4</u> OF <u>5</u>

N.T.S.

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OR ASSEMBLY: FRAME ANCHORING

DOOR

DKS COMMERCIAL

STEEL

SHEET 5 OF 5

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