



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Nailor Industries of Texas, Inc. dba Thermal Corporation
1902 Rankin Road
Houston, Texas 77073

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "F Series" Air Handling Unit

APPROVAL DOCUMENT: Drawing No. **739725**, titled "3" F-Series Unit ", sheets 1 through 10 of 10, prepared by **Thermal Corporation**, dated October 17, 2023, signed and sealed by Richard K. Conklin, P.E., on October 19, 2023, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, Okarche, OK or Oklahoma City, OK and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

Helmy A. Makar
11/23/2023



NOA No. 23-1024.08
Expiration Date: 11/23/2028
Approval Date: 11/23/2023
Page 1

Nailor Industries of Texas, Inc. dba Thermal Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 739725, titled " 3" F-Series Unit ", sheets 1 through 10 of 10, prepared by Thermal Corporation, dated October 17, 2023, signed and sealed by Richard K. Conklin, P.E., on October 19, 2023.*

B. TESTS

1. *Test report on Large Missile Impact Test per TAS-201, Cyclic Wind Pressure Test per TAS-203, Uniform Static Air Pressure Test per TAS-202 and ASTM E72 Lateral Racking of 3" F-Series Air Handling Unit, prepared by Intertek, Report No. P8025.01-801-18 R0, dated 09/06/2023, signed and sealed by Tyler Westerling, P.E.*

C. CALCULATIONS

1. *Anchoring of base to building structure is not part of this approval and is the responsibility of the Architect or Engineer of Record.*

D. QUALITY ASSURANCE

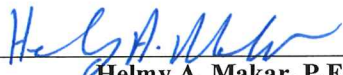
1. *By Miami-Dade County Department of Regulatory and Economic Resources, (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

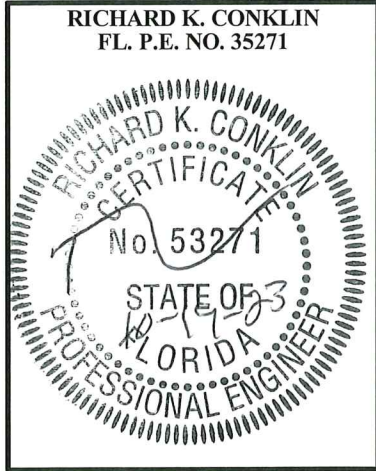
1. *FBC, 2023 Edition Compliance letter prepared by Richard K. Conklin, P.E., dated October 19, 2023, signed and sealed by Richard K. Conklin, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1024.08
Expiration Date: 11/23/2028
Approval Date: 11/23/2023

NOTES:

- 1) ALL JOINTS OF STRUCTURAL STEEL BASE MEMBERS ARE CONTINUOUSLY WELDED TOGETHER.
- 2) DESIGN AND SIZE OF TUBULAR STEEL BASE WILL VARY DEPENDING UPON THE SIZE OF THE UNIT, LARGER SIZE REQUESTED AND STRUCTURAL ADEQUACY REQUIRED FOR THE PROJECT.
- 3) UNIT BASE TO BE PRIMED AND PAINTED WITH METAL PRIMER (GRAY).
- 4) INTERNAL FLOOR FORMED C-CHANNEL RIBS SPACING ON CENTER IS 14" (MAX).
- 5) AHU SIZE CAN VARY BY PROJECT BUT INTERNAL POST NOT TO EXCEED MAXIMUM DISTANCE BEYOND THE SIZE OF THE OUTER PANEL WIDTH SIZE.
- 6) SPRAY FOAM INSULATION THERMAL AND ACOUSTICAL PROPERTIES MEETS 2.2 POUNDS PER CUBIC FEET.
- 7) STANDARD INNER LINER IS SOLID 20 GAGE GALV. STEEL. ALUMINUM & STAINLESS STEEL INTERNAL LINERS MAY BE USED AS ALTERNATIVE OPTIONS IN ANY COMBINATIONS THROUGH THE AHU CABINET PER REQUEST.

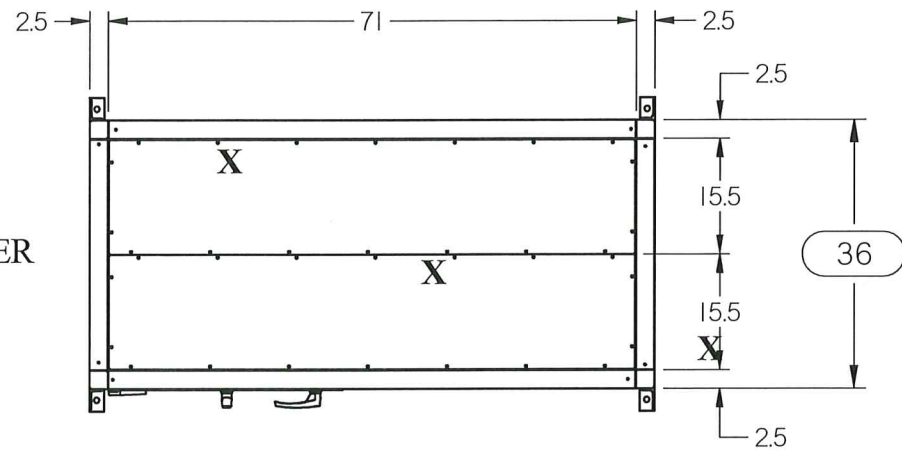


PARTS LIST	
ITEM DESCRIPTION	MATERIAL/REFERENCE
BASE RAIL – 4 x 2 x 1/4 (STANDARD)	STEEL
LIFTING LUG(S) – 4 x 3 x 3/8 ANGLE IRON	STEEL
LIFTING LUG(S) – 4 x 3 x 1/4 PLATE	STEEL
BASE INTERNAL CHANNEL – NO TABS, 2” FLANGE, 4” HIGH	14 GAGE GALV. STEEL
BASE INTERNAL CHANNEL – END TABS, 2” FLANGE, 4” HIGH	14 GAGE GALV. STEEL
BASE INTERNAL RIB CHANNEL – END TABS, 2” FLANGE, 4” HIGH	14 GAGE GALV. STEEL
FLOOR SKIN, INSIDE	16 GAGE GALV. STEEL
FLOOR SKIN, UNDERFLOOR	20 GAGE GALV. STEEL
FOAM – BASE 4” THICK	POLYEURTHANE FOAM
OUTER PANEL – EXTERIOR	16 GAGE GALV. STEEL
INNER LINER – INTERIOR	20 GAGE GALV. STEEL, 0.063” ALUMINUM
INTERNAL POST	16 GAGE GALV. STEEL
INTERNAL POST COVER	PVC PLASTIC
HAT CHANNEL – SUPPORT BRACING	12 GAGE GALV. STEEL
GASKET – 1 x 1 x 1/8	CLOSED CELL GASKET
GASKET – 2 x 1 x 1/8	CLOSED CELL GASKET
GASKET – 3 x 1 x 1/8	CLOSED CELL GASKET
CORNER FRAME – TOP, WIDTH & LENGTH POST	16 GAGE GALV. STEEL
CORNER ASSEMBLY – PLASTIC PARTS	POLY CARBONATE
DOOR FRAME – EXTRUSION	ALUMINUM
DOOR EXTERIOR PANEL	16 GAGE GALV. STEEL
DOOR INTERIOR LINER	20 GAGE GALV. STEEL, 0.063” ALUMINUM
1/8 POP RIVET	STEEL
DOOR LATCH ASSEMBLY (ALLEGIS)	FIBERGLASS REINFORCED POLYAMIDE
DOOR HINGE ASSEMBLY (ALLEGIS)	CAST ZINC, SS
1/4 x 2.50 STEEL HEX HEAD DRILLING SCREW	STEEL
5/16 x 1.00 STEEL HEX HEAD DRILLING SCREW	STEEL

Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-1024-08
Miami Dade Product Control -
By [Signature]

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		3" F-SERIES UNIT LAYOUT & DETAIL DRAWING(S) SHEET 1 OF 10 10/17/2023 REV: 0.0

NOTES:
X - IMPACT LOCATION AT CENTER



PLAN VIEW

APPROVED MAXIMUM PANEL SIZE(S)	
EXTERIOR PANEL	INTERIOR LINER
0.063" (MIN.) G-90 GALV.	0.039" (MIN.) G-90 GALV.
	0.063" (MIN.) ALUMINUM
31" X 108.50"	31" X 108.50"
23" X 108.50"	23" X 108.50"
19.25" X 108.50"	19.25" X 108.50"
19.375" X 108.50"	19.375" X 108.50"
17" X 108.50"	17" X 108.50"
15.50" X 108.50"	15.50" X 108.50"
12.75" X 108.50"	12.75" X 108.50"
15.50" X 71"	15.50" X 71"
31" X 36.50"	31" X 36.50"

FASTENERS
PANEL SECURED TO THE STEEL FRAME WITH 1/4" X 2.50" HEX HEAD DRILL SCREWS WITH NEOPRENE WASHERS 4" FROM EACH END AND 12" O.C. (MAX)

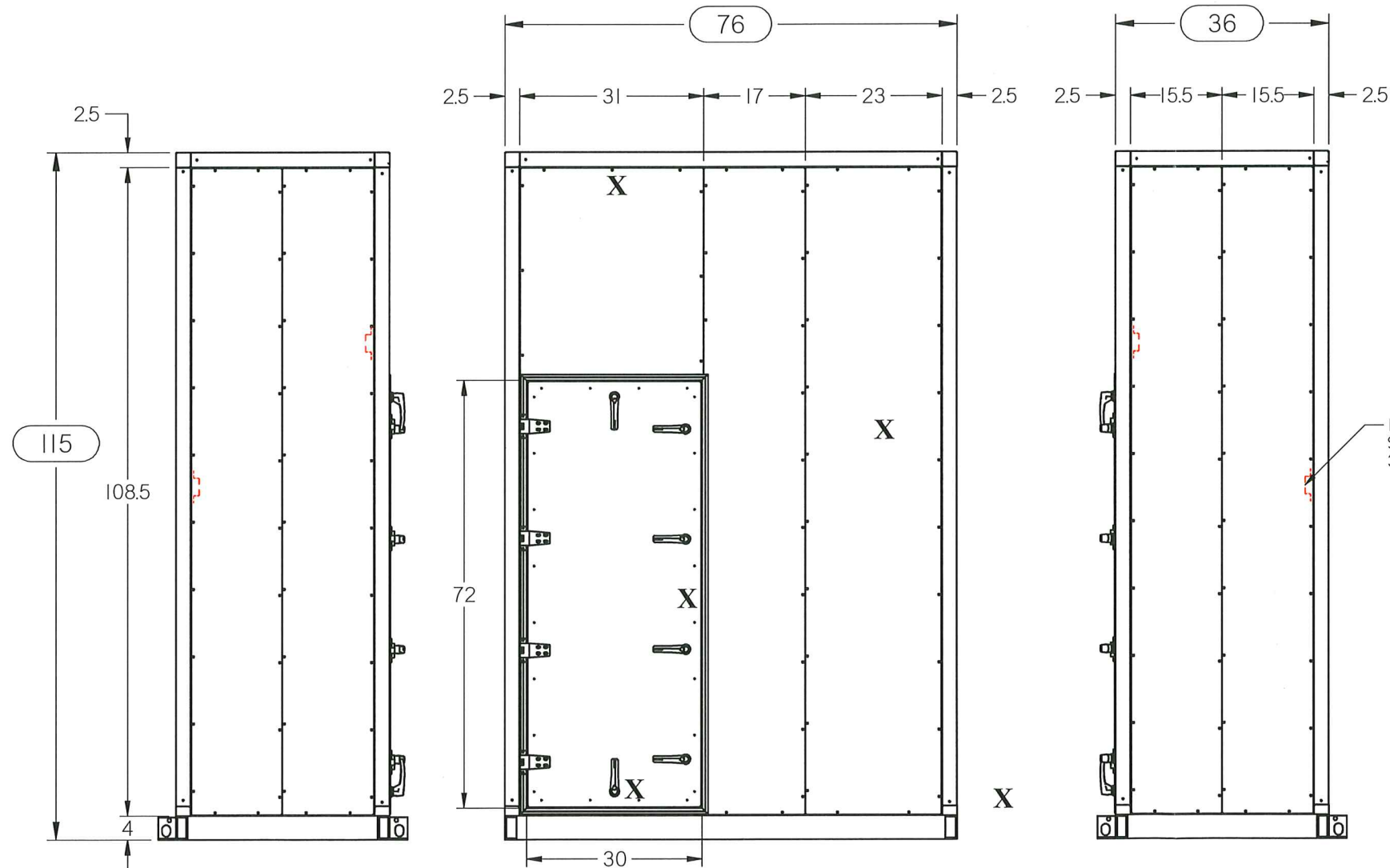
UNIT BASE
FULLY WELDED TUBULAR STEEL, 0.25" (MIN.) THICKNESS WITH C-CHANNEL RIBS @ 14" O.C. (See Sheet 4 of 10)

UNIT FLOOR
INNER FLOOR IS 0.0635" (MIN.) G-90 GALV. OUTER FLOOR IS 0.0396" (MIN.) G-90 GALV.

UNIT FRAMEWORK
0.0635" (MIN.) STEEL FRAMEWORK @ 30" O.C.

ACCESS DOOR (30" X 72")
0.0635" (MIN.) G-90 GALV. STEEL (OUTER)
0.0396" (MIN.) G-90 GALV. STEEL (INNER)
ALLEGIS LATCH ASSEMBLY (4) DOOR LATCHES ALONG THE SIDE, 8" FROM THE END AND 18" (MAX) SPACING BETWEEN EACH HANDLE, (2) DOOR LATCHES ON TOP & BOTTOM OF DOOR, CENTERED W/ EACH DOOR WIDTH. ALLEGIS ADJUSTABLE HINGE, (4) DOOR HINGES ALONG THE SIDE, 8" FROM THE END & 18" (MAX) SPACING BETWEEN EACH HINGE.

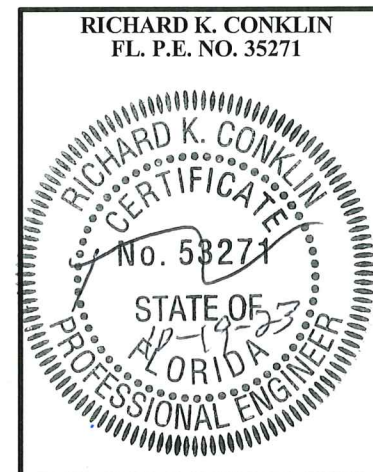
GALVANIZED UNIT CONSTRUCTION	
WALL & ROOF PANEL DESIGN PRESSURE	
WALL PANEL	ROOF PANEL
+/- 93 PSF	+/- 69.75 PSF



LEFT ELEVATION

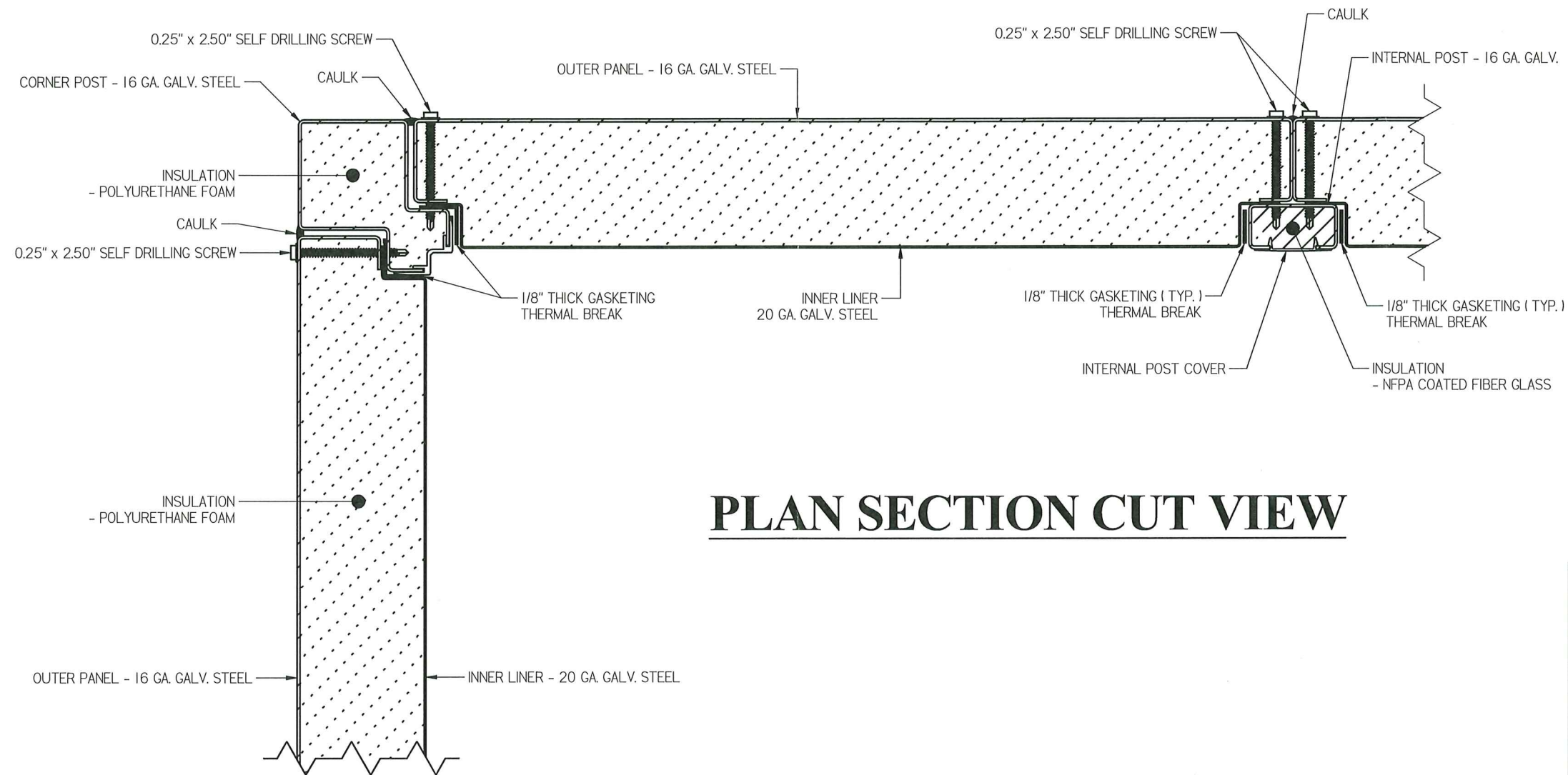
FRONT ELEVATION
SIDE 1

RIGHT ELEVATION



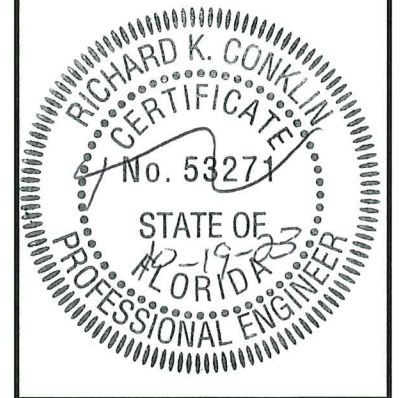
Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-1024-008
Miami-Dade Product Control
By [Signature]

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	THERMAL CORPORATION
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		3" F-SERIES UNIT LAYOUT & DETAIL DRAWING(S) SHEET 2 OF 10 10/17/2023 REV: 0.0



PLAN SECTION CUT VIEW

RICHARD K. CONKLIN
FL. P.E. NO. 35271

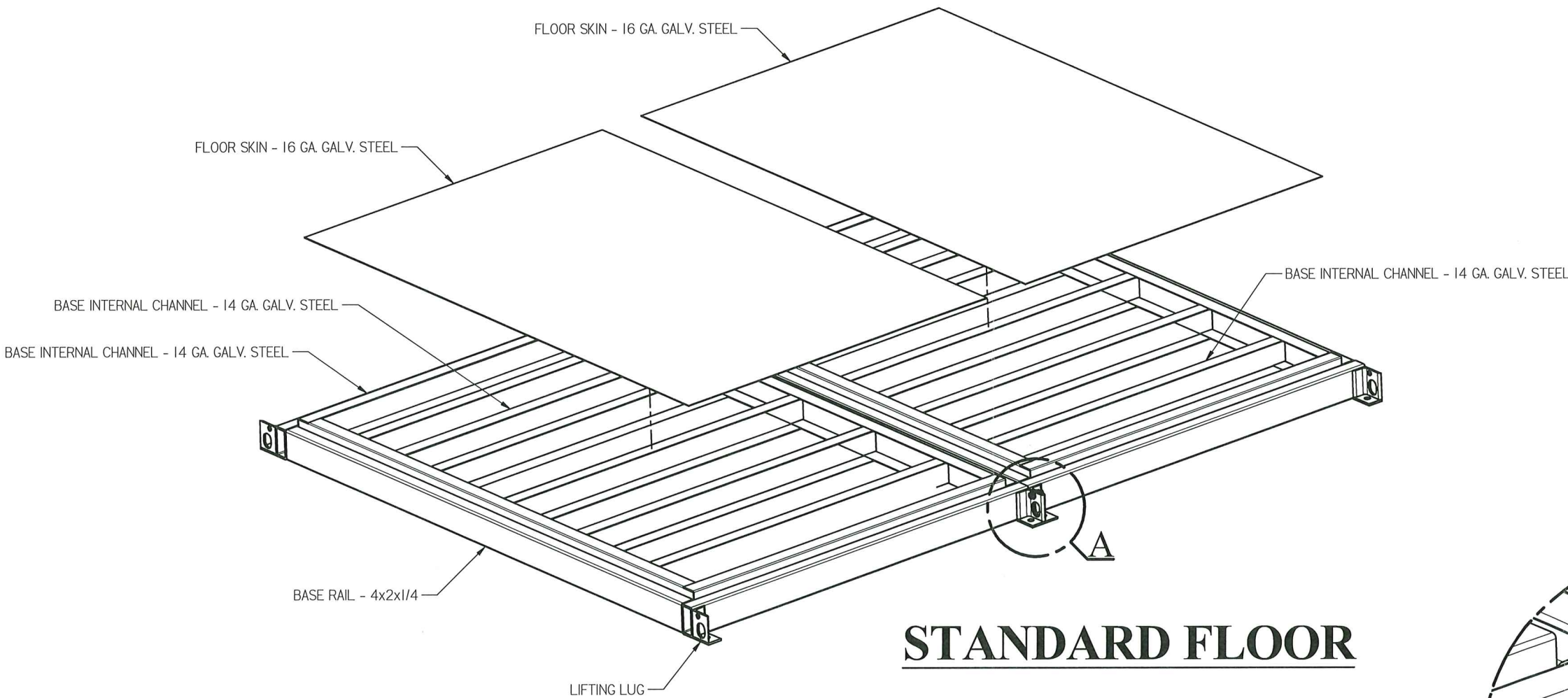
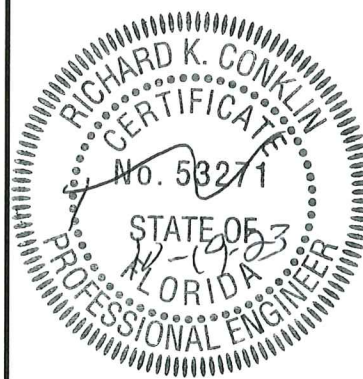


Approved as complying with the
Florida Building Code 2023
Date 13 NOV
NOA# 23-102408
Miami Dade Product Control

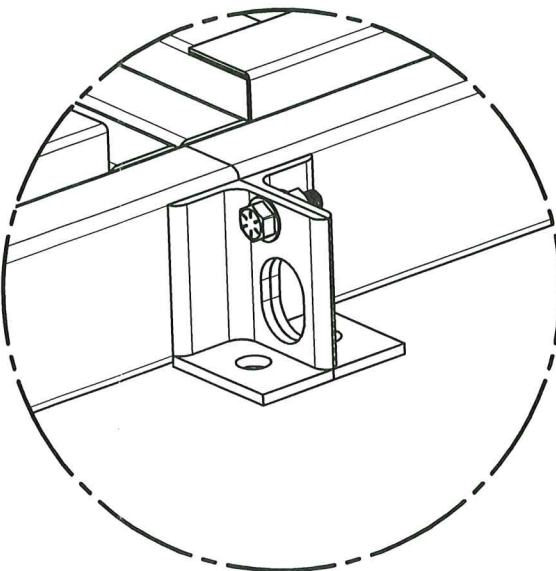
By Heidi A. Malar

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005	3" F-SERIES UNIT	
	LAYOUT & DETAIL DRAWING(S)	
	SHEET 3 OF 10	10/17/2023

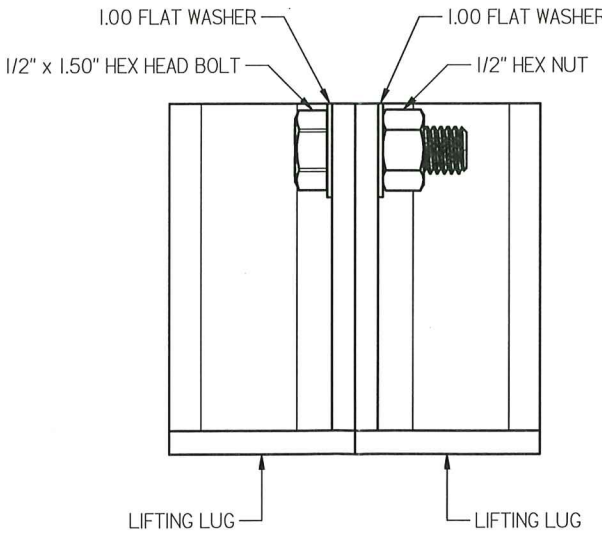
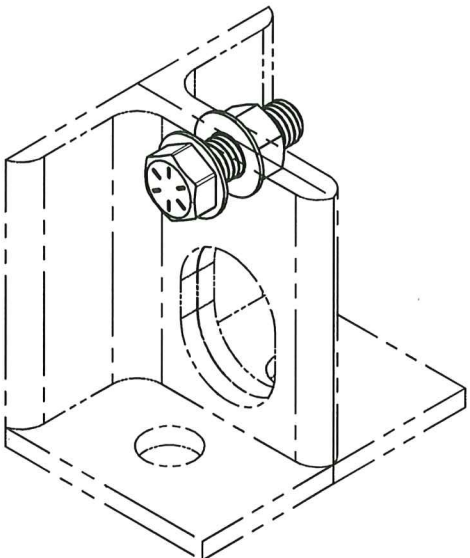
RICHARD K. CONKLIN
FL. P.E. NO. 35271



STANDARD FLOOR

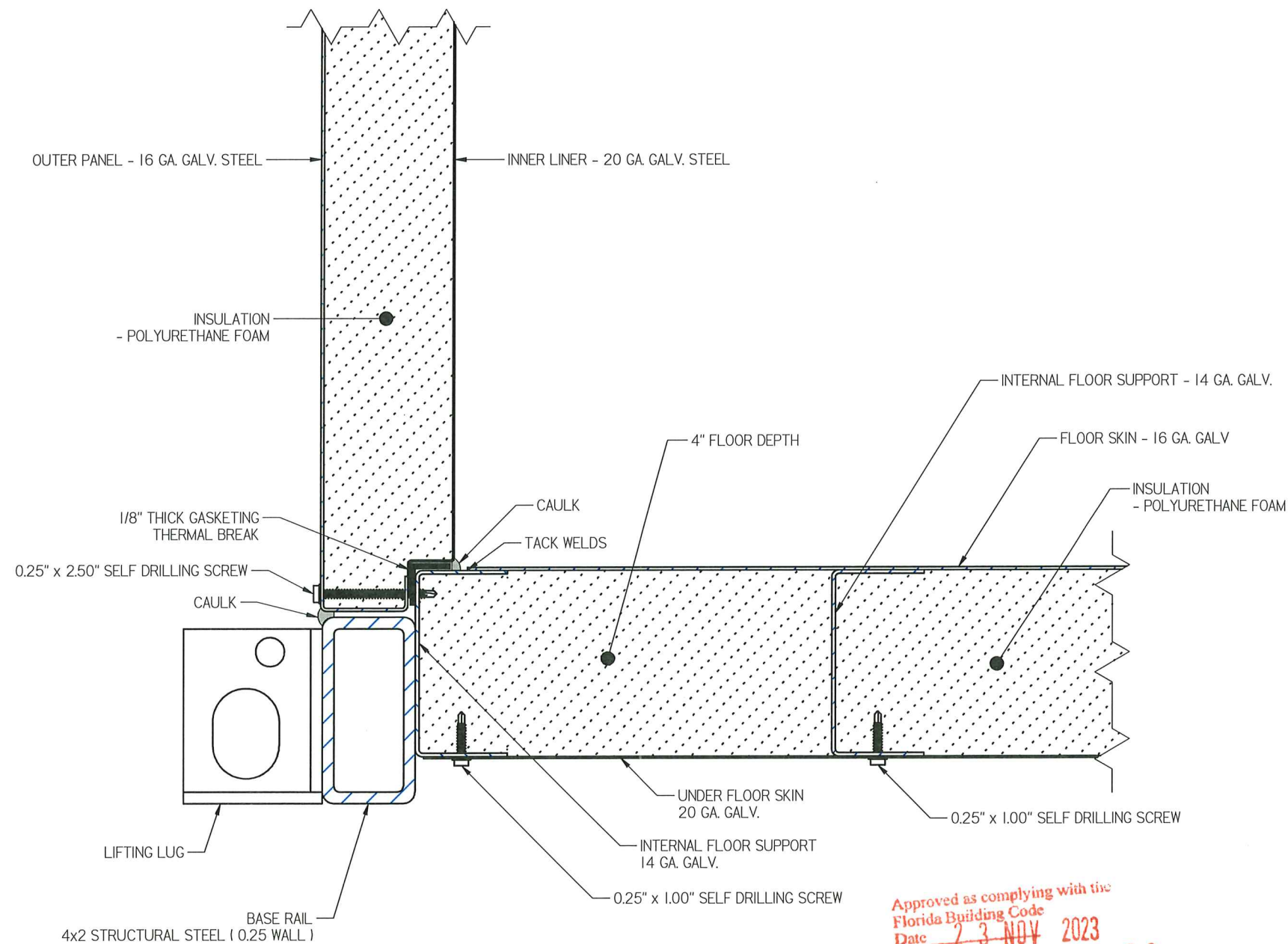


DETAIL A
TYPICAL CONNECTION AT DEMOUNT

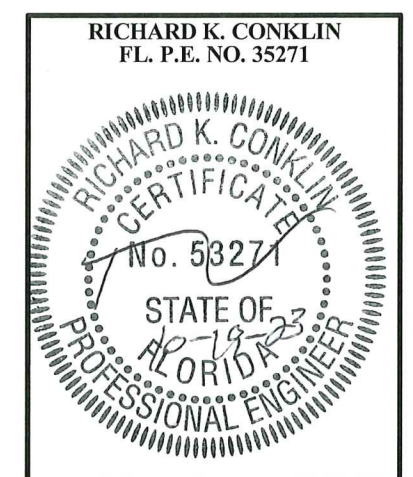


Approved as complying with
Florida Building Code
Date **23 NOV 2023**
NOA# **23-1024-08**
Miami Dade Product Control
Heidi A. McInnis

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005	3" F-SERIES UNIT	
	LAYOUT & DETAIL DRAWING(S)	
	SHEET 4 OF 10	10/17/2023
	REV: 0.0	

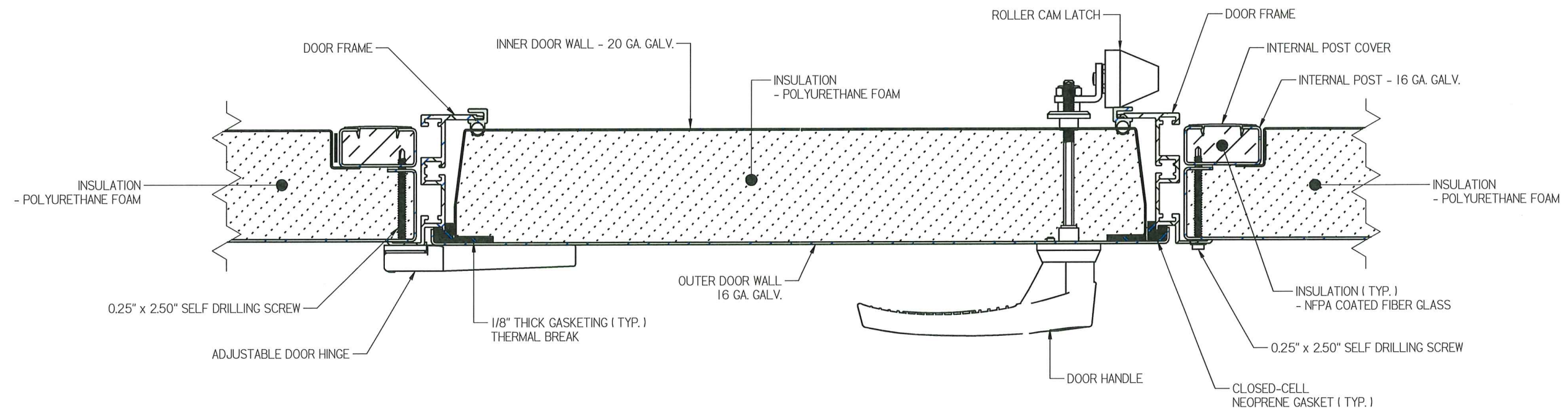


Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-11-0004
Miami Dade Product Control • 08
By Healy H. Miller



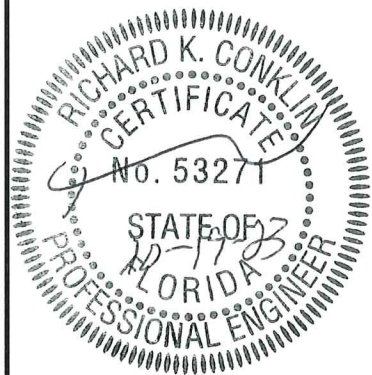
BASE SECTION CUT VIEW

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	THERMAL CORPORATION
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		3" F-SERIES UNIT
		LAYOUT & DETAIL DRAWING(S)
		SHEET 5 OF 10 10/17/2023 REV: 0.0



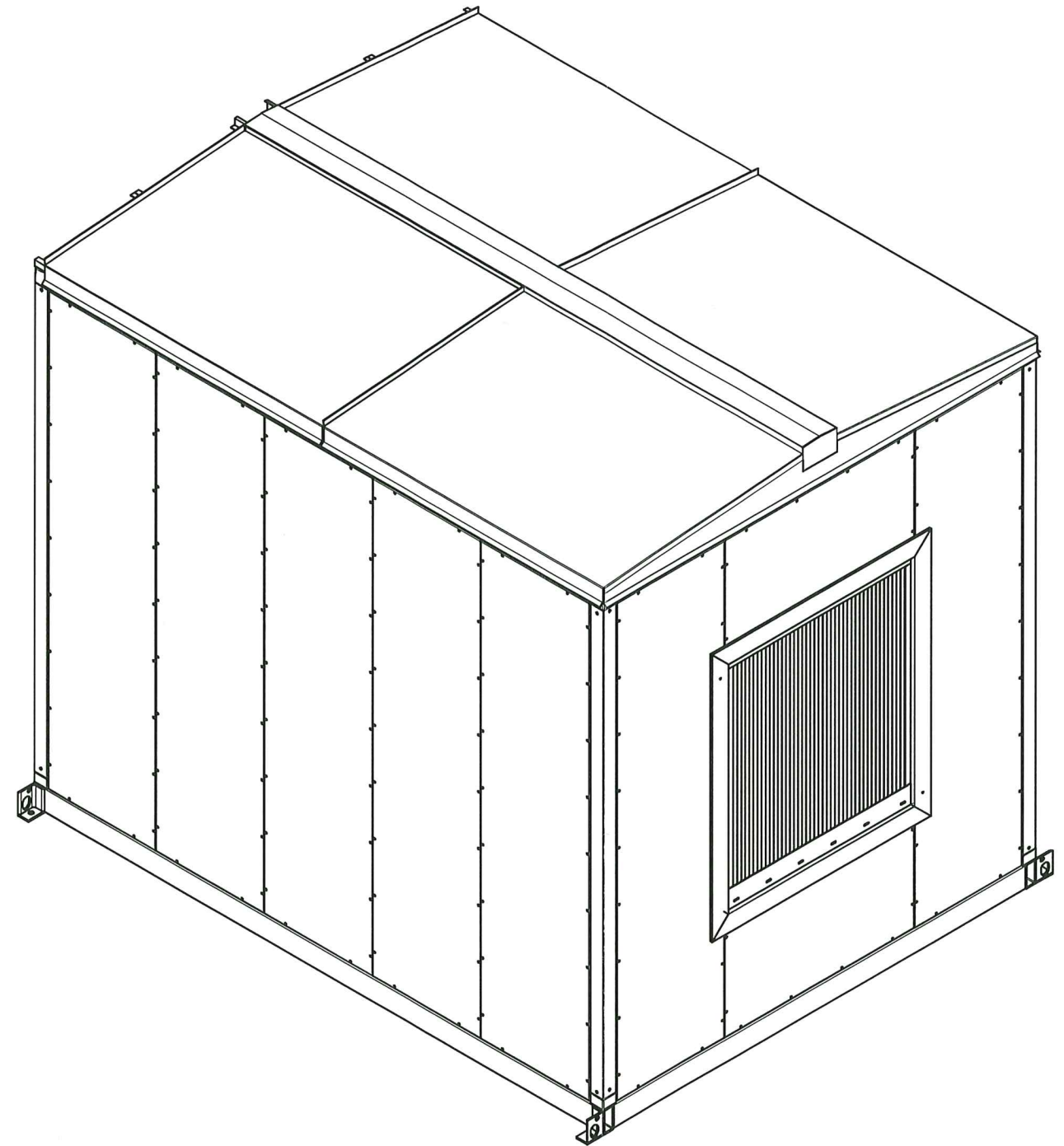
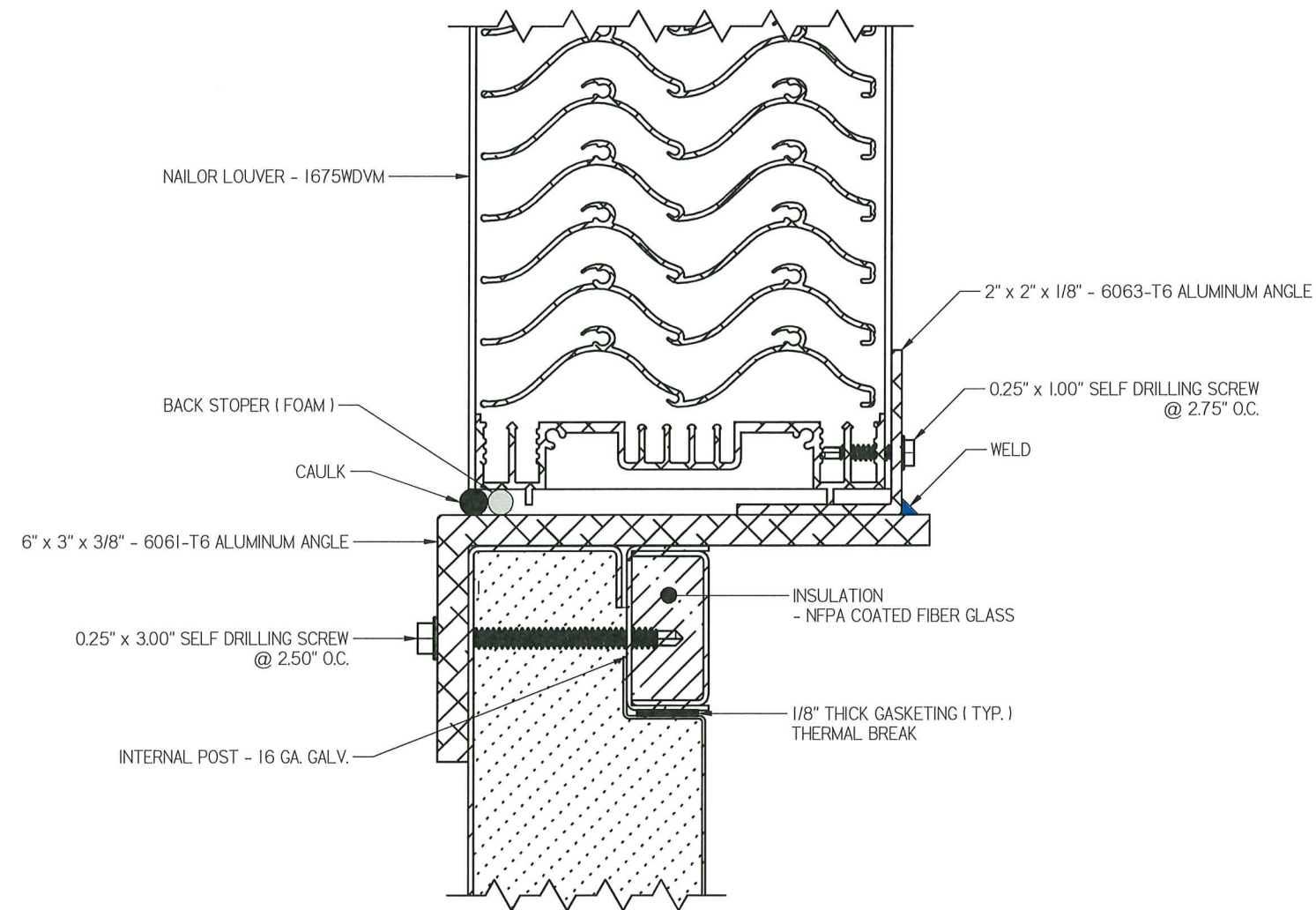
DOOR SECTION CUT PLAN VIEW

RICHARD K. CONKLIN
FL. P.E. NO. 35271

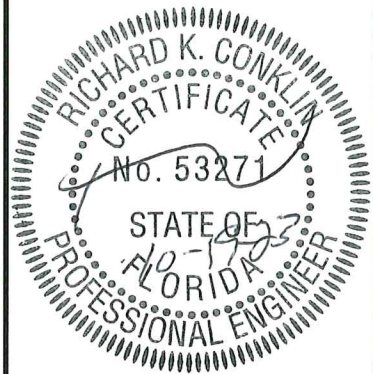


Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-1024-08
Miami Dade Product Control
By H. G. A. Mohr

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005	3" F-SERIES UNIT	
	LAYOUT & DETAIL DRAWING(S)	
	SHEET 6 OF 10	10/17/2023



RICHARD K. CONKLIN
FL. P.E. NO. 35271



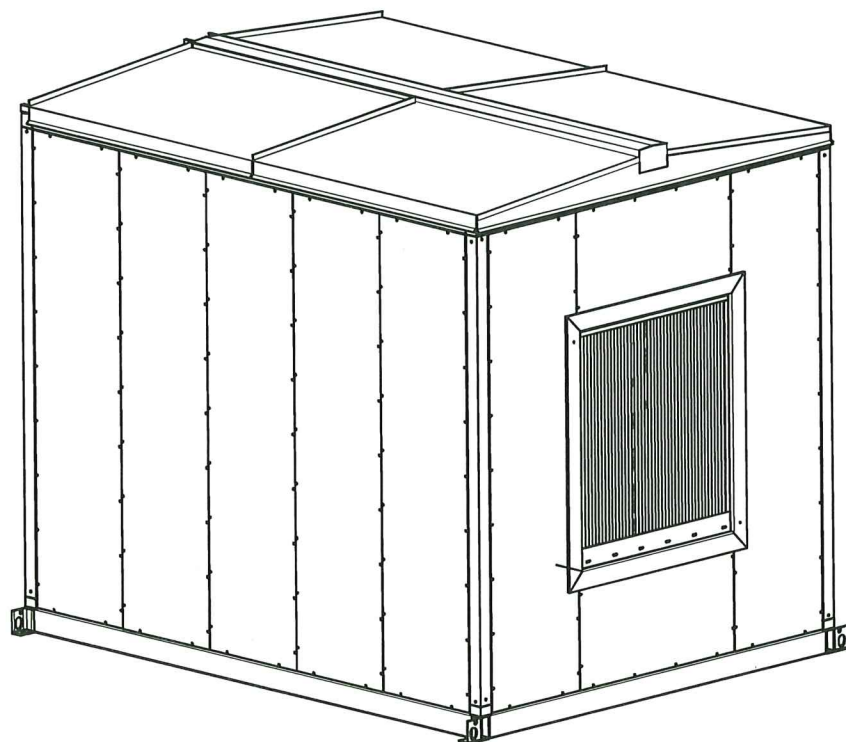
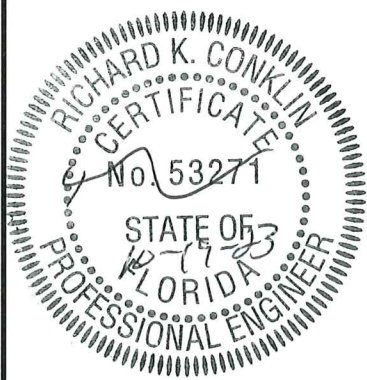
NOTE(S):

- USE ONLY MIAMI DADE APPROVED LOUVER INSTALLED IN OCCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NOA APPROVED NAILOR LOUVER 1675WDVM (#20-0909.05 OR LATER).
- LOUVER IS ATTACHED TO THE FRAME OF THE NOA CERTIFIED UNIT USING 1/4\"-14 x 2.50\" TEK SCREWS RATED AT 1,162 LBS PULL OUT STRENGTH EACH.

Approved as complying with the
Florida Building Code
Date 7-3 NOV 2023
NOA# 23-1024-08
Miami Dade Product Control -
By H. J. Miller

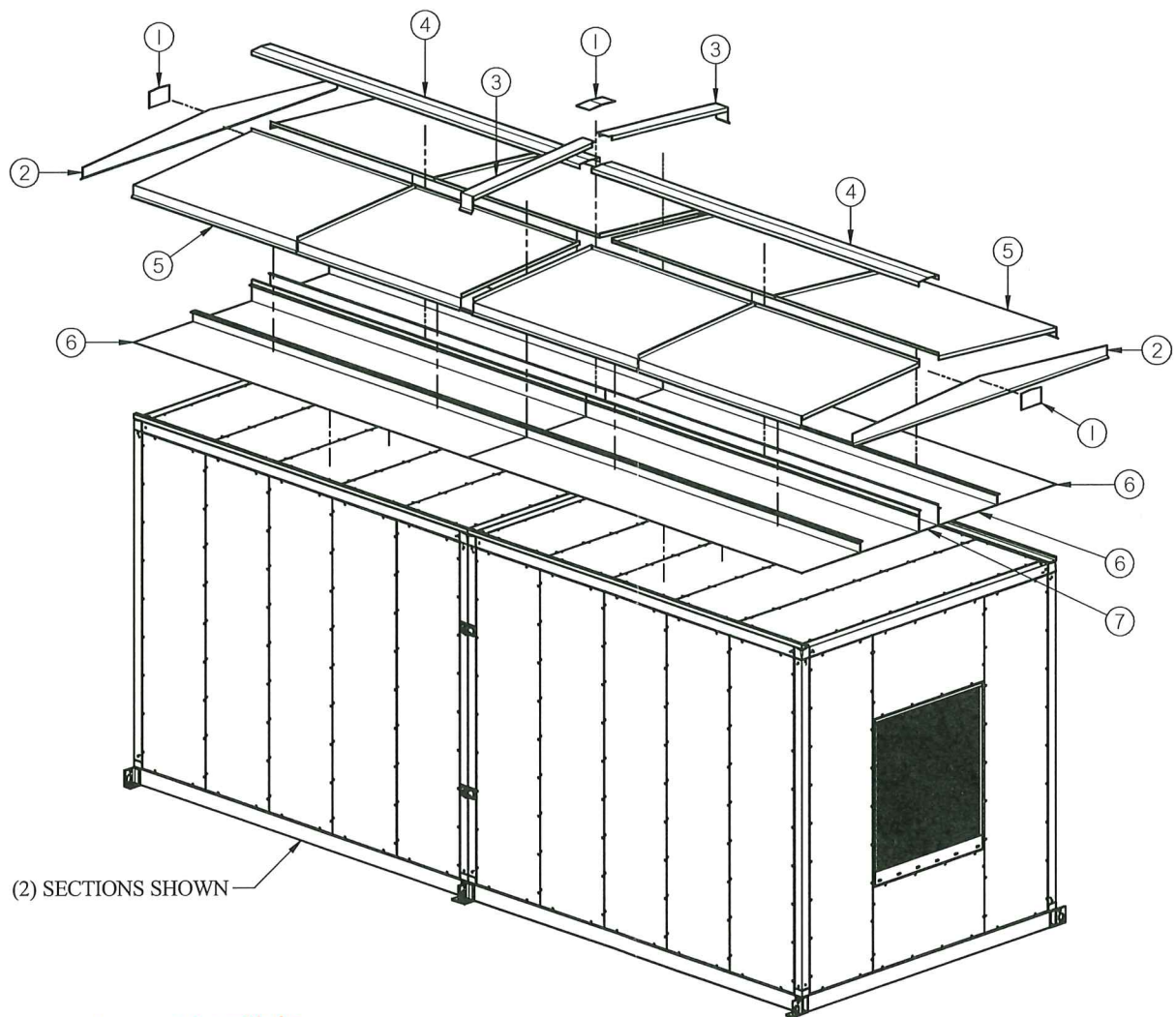
S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	THERMAL CORPORATION
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		3\" F-SERIES UNIT LAYOUT & DETAIL DRAWING(S)
SHEET 7 OF 10		10/17/2023 REV: 0.0

RICHARD K. CONKLIN
FL. P.E. NO. 35271



PARTS LIST

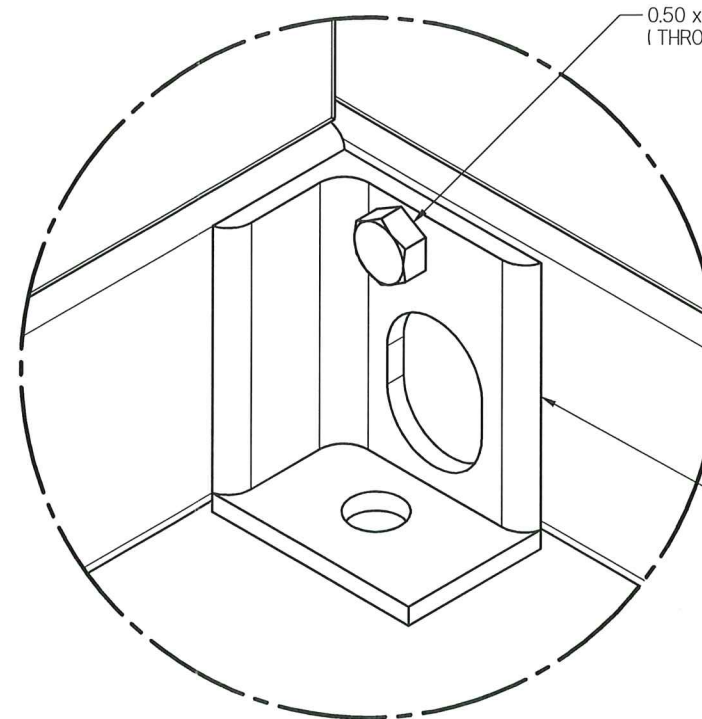
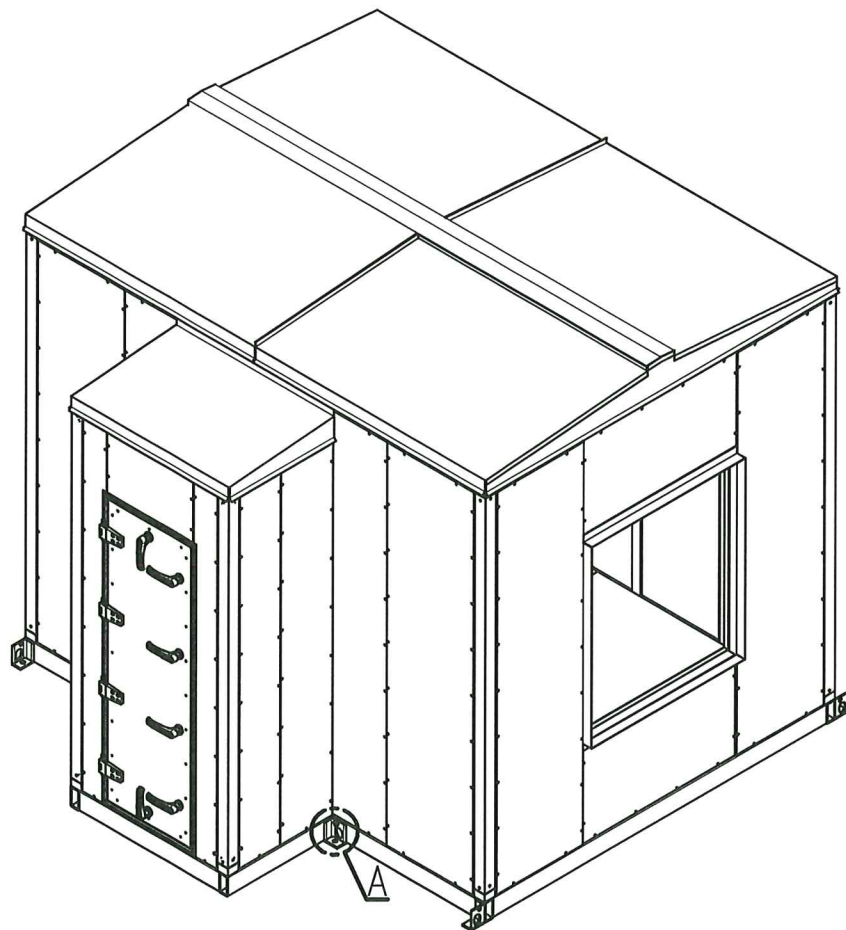
ITEM #	ITEM DESCRIPTION	MATERIAL/REFERENCE
1	ROOF END CAP(S) - SHEETMETAL	20 GAGE GALV. STEEL
2	ROOF END PART(S) - SHEETMETAL	16 GAGE GALV. STEEL
3	ROOF CAP SECTION SPLIT COVER(S) - SHEETMETAL	20 GAGE GALV. STEEL
4	ROOF RIDGE CAP COVER(S) - SHEETMETAL	20 GAGE GALV. STEEL
5	ROOF OUTER PANEL(S) - SHEETMETAL	16 GAGE GALV. STEEL
6	ROOF INNER LINER(S) - SHEETMETAL	20 GAGE GALV. STEEL
7	ROOF CENTER LINER - SHEETMETAL	20 GAGE GALV. STEEL



(2) SECTIONS SHOWN

Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-1024-08
Miami Dade Product Control
By H. J. A. M. W.

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		3" F-SERIES UNIT LAYOUT & DETAIL DRAWING(S) SHEET 8 OF 10 10/17/2023 REV: 0.0

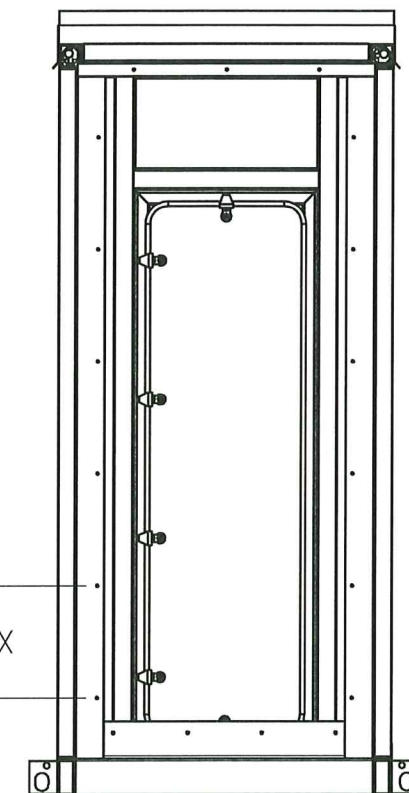


0.50 x 1.00 - HEX HEAD LAG SCREW
(THROUGH 1/4" BASE RAIL SIDE WALL)

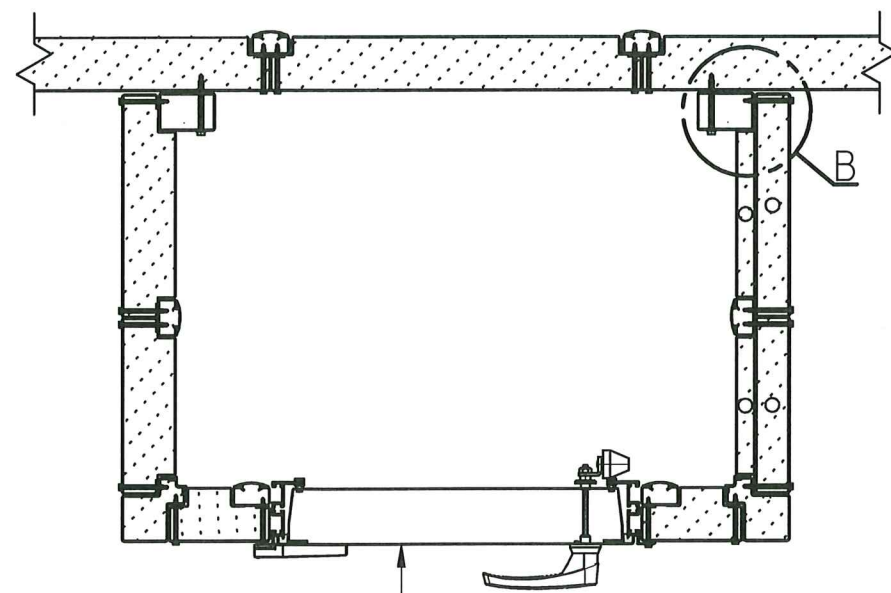
LIFTING LUG - STEEL ANGLE
(2 x 3 x 0.25)

**DETAIL A
ISO VIEW**

12" O.C. MAX

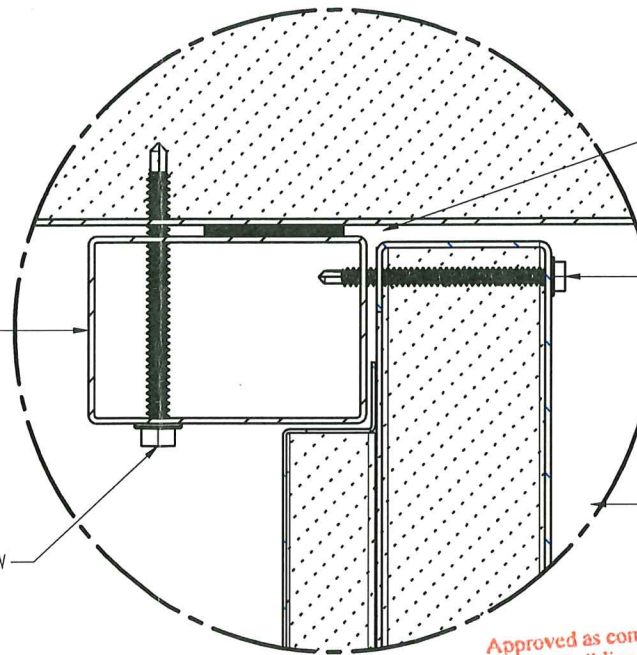


**VESTIBULE SECTION
BACK SIDE VIEW**



RECTANGULAR TUBING
2 x 3 x 0.63

0.25" x 3.00" SELF DRILLING SCREW



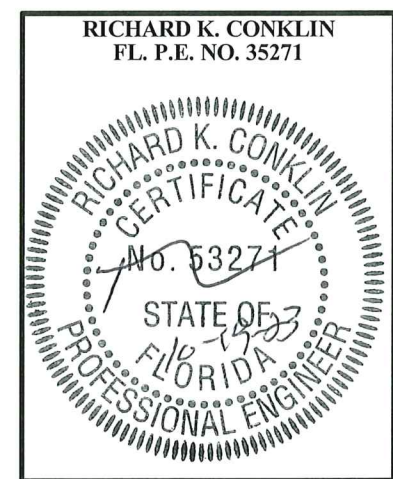
GASKET

0.25" x 2.50" SELF DRILLING SCREW

VESTIBULE - SIDE WALL PANEL

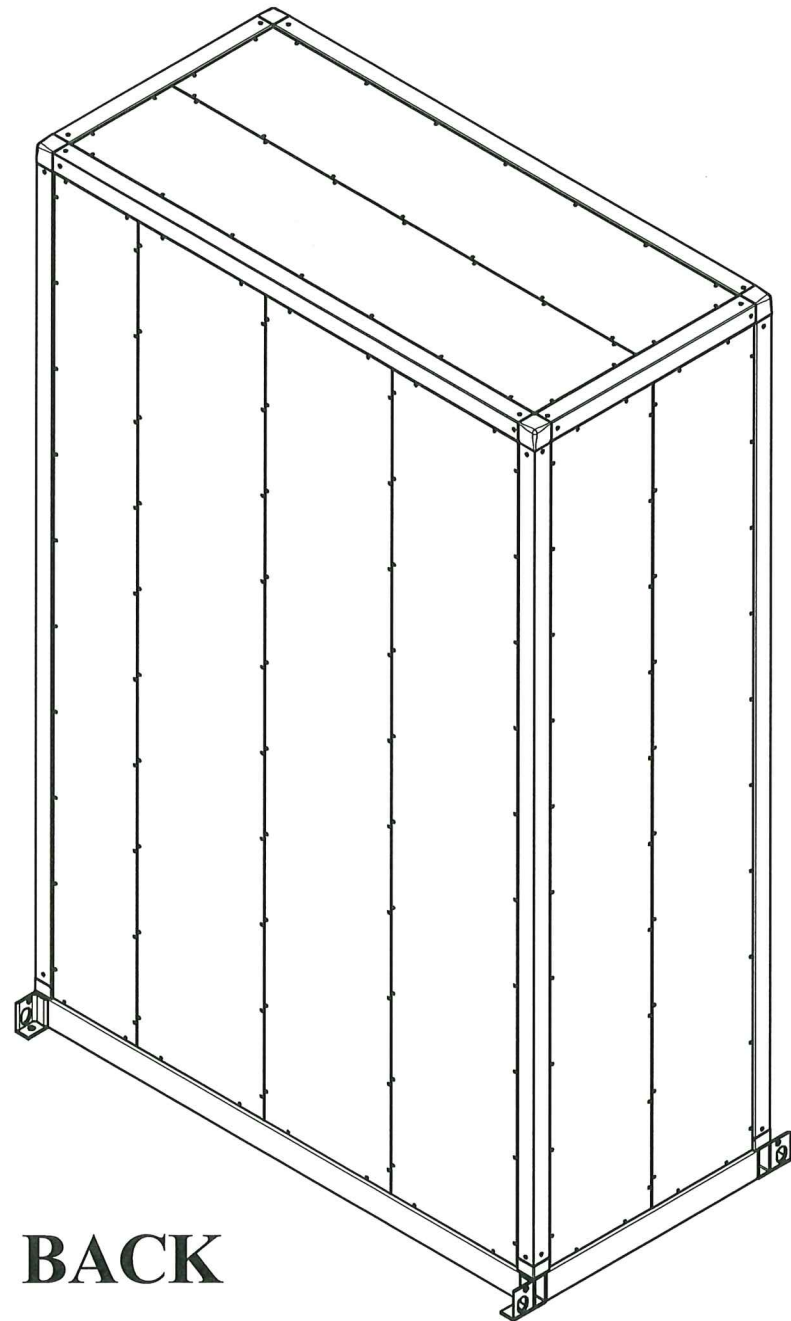
**DETAIL B
PLAN VIEW**

Approved as complying with the
Florida Building Code
Date 23 NOV 2023
NOA# 23-1024-08
Miami Dade Product Control
By H. A. Miller

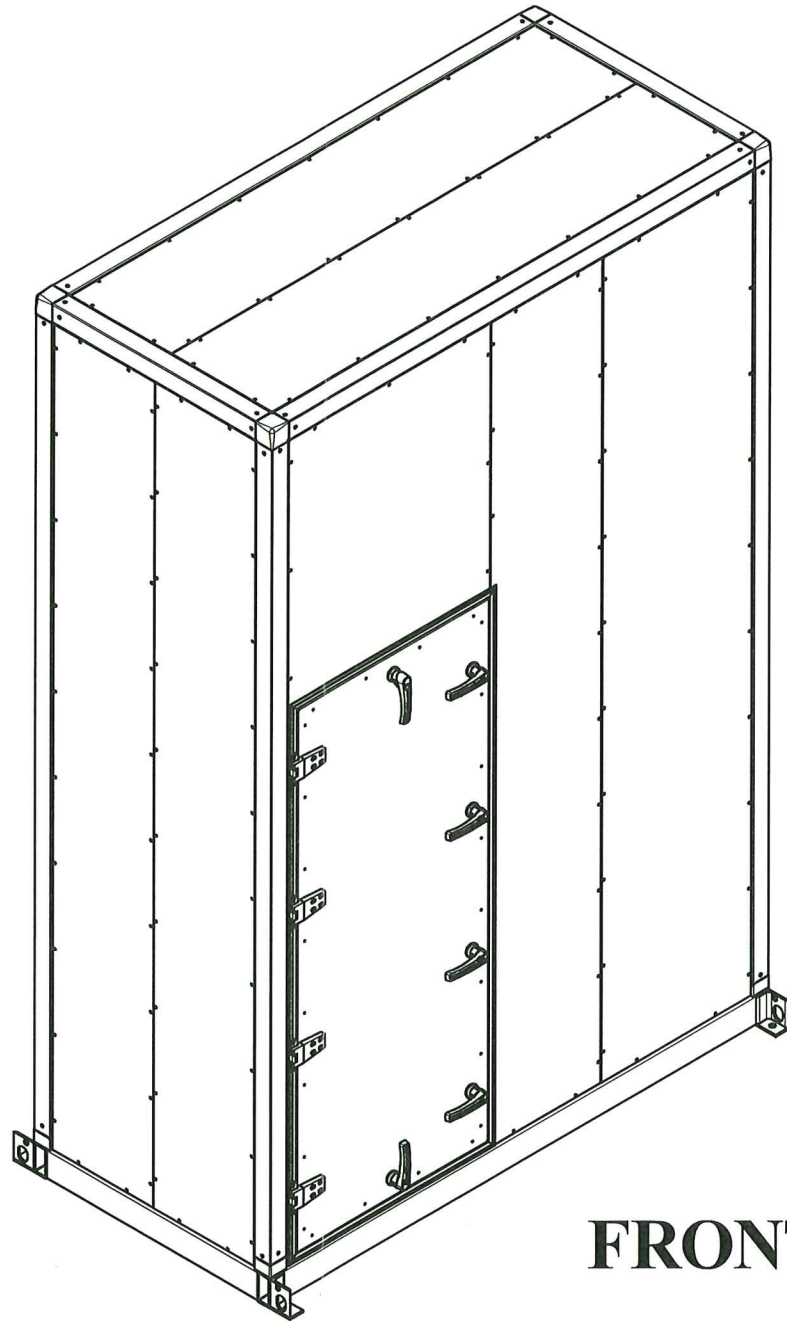


MAX DOOR SIZE - 30"W x 72"H

S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	THERMAL CORPORATION
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		
3" F-SERIES UNIT		LAYOUT & DETAIL DRAWING(S)
SHEET 9 OF 10	10/17/2023	REV: 0.0

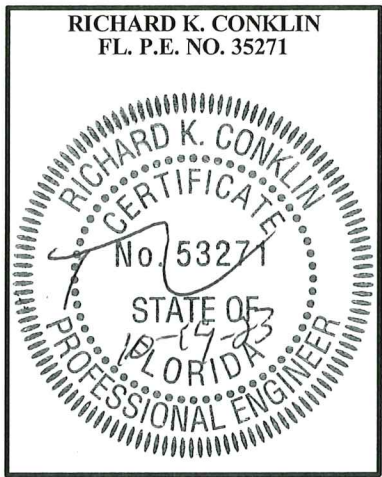


BACK



FRONT

Approved as complying with the
 Florida Building Code
 Date 23 NOV 2023
 NOA# 23-1024-08
 Miami Dade Product Control
 By H. A. M. M.



S.O.#: 00-739725-00	DRAWN BY: KCLAUSON	THERMAL CORPORATION
TEST PROPOSAL UNIT	CHECKED BY: APOURARYAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±0° 2 PL ±0.05 3 PL ±0.005		
3" F-SERIES UNIT		
LAYOUT & DETAIL DRAWING(S)		
SHEET 10 OF 10	10/17/2023	REV: 0.0