MIAMI-DADE COUNTY
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)

Trane US, Inc.
1515 Mercer Road
Lexington, KY 40511

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: Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit

APPROVAL DOCUMENT: Drawing No. AIRS0704, titled "Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit", sheets 1 through 41 of 41, prepared by Wolters Engineering, Inc., dated September 10, 2013, signed and sealed by Scott Wolters, P.E., on November 06, 2013, 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 unit shall bear a permanent label with the manufacturer's name or logo, city, state 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.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
11/21/2013

NOA No. 12-0629.03
Expiration Date: 11/21/2018
Approval Date: 11/21/2013

Trane US, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No. AIRS0704, titled "Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit", sheets 1 through 41 of 41, prepared by Wolters Engineering, Inc., dated September 10, 2013, signed and sealed by Scott Wolters, P.E., on November 06, 2013.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Trane Performance Climate Changer Air Handler Size 120 Non-Stacked Unit, prepared by Hurricane Test Laboratory, Inc., Report No. 0254-0607-11, dated 04/09/2012, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS:

1. *Panel and fasteners analysis prepared by Wolters Engineering, Inc., dated July 23, 2012, signed and sealed by Scott Wolters, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *Tape properties by Butly.*
2. *Rigid Froth-Foam properties.*
3. *Industrial Polyurethane Adhesive/Sealant properties by Sikaflex.*

F. STATEMENTS

1. *FBC, 2010 conformance letter, dated July 23, 2012, signed and sealed by Scott Wolters, P.E.*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0629.03
Expiration Date: 11/21/2018
Approval Date: 11/21/2013

GENERAL NOTES, TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT.

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES. ALLOWABLE UNIT WALL DESIGN PRESSURE IS +/- 55 PSF, AND THE ROOF DESIGN PRESSURE IS +/- 41.25 PSF. THIS PRODUCT APPROVAL IS APPLICABLE TO UNIT SIZES 57 THROUGH 120; THE SIZE 120 IS SHOWN IN THIS APPROVAL.
2. THIS PRODUCT HAS BEEN TESTED TO TAS 201-94, TAS 202-94 STRUCTURAL LOADS, AND TAS 203-94 (REF. TEST REPORT HTL-0254-0607-11), AND MEETS THE THE HIGH VELOCITY HURRICANE ZONE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2010 EDITION. THIS PRODUCT IS NOT RATED FOR WATER INFILTRATION RESISTANCE AND HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN. THE TESTED PRODUCT REMAINED OPERABLE AFTER IMPACT/CYCLIC TESTS WERE COMPLETED.
3. THIS PRODUCT APPROVAL IS GENERIC IN NATURE AND DOES NOT PROVIDE INFORMATION FOR SPECIFIC PROJECTS WHERE THE CONDITIONS VARY FROM THIS DOCUMENT. THE FLORIDA LICENSED ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT SHALL BE RESPONSIBLE FOR THE DESIGN, SIZING, AND STRUCTURAL ADEQUACY OF THE PRODUCT FRAMEWORK AS WELL AS CURBING AND ATTACHMENT TO THE ROOF, OR AS ACCEPTED BY THE CORRESPONDING BUILDING DEPARTMENTS.
4. THE STRUCTURAL ADEQUACY OF THE ROOF TO SUPPORT THIS EQUIPMENT IS NOT PART OF THE SCOPE OF THIS PRODUCT APPROVAL AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENTS. ANCHORAGE SHOWN HEREIN HAS BEEN ANALYZED FOR SLIDING AND OVERTURNING LOADS FOR THE CONFIGURATION INDICATED, AND SMALLER CONFIGURATIONS ASSUMING THE HEIGHT IS NO MORE THAN TWICE THE WIDTH. OTHER CONFIGURATIONS NOT INDICATED HERE SHALL BE ANALYZED BY THE DESIGN PROFESSIONAL OF RECORD TO PREVENT SLIDING AND OVERTURNING OF THE EQUIPMENT, AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENTS. SEE PAGE 31.
5. THIS PRODUCT APPROVAL IS FOR THE STRUCTURAL AND IMPACT/CYCLIC PERFORMANCE OF THE AIR HANDLER, INCLUDES PIPE CABINET, ENCLOSURES. THESE ENCLOSURES INCLUDE THE OPTIONAL EXTERNALLY MOUNTED COMPONENTS AS SHOWN IN THE DRAWINGS, FOR EXAMPLE HOODS ATTACHED TO AIR INTAKES AND EXHAUST OPENINGS, WINDOWS/VIEWPORTS, AND DOORS, AS WELL AS THE STRUCTURAL ELEMENTS / HOUSINGS FOR MINIHELIC GAUGES, JUNCTION BOXES, UV INTENSITY METERS, DISCONNECT SWITCHES, RACEWAYS, AND GFCI INTERFACES. THIS PRODUCT APPROVAL DOES NOT INCLUDE INTERNALLY MOUNTED COMPONENTS OR ANY ELECTRICAL DEVICES OR CIRCUITRY.
6. THE PRODUCT IS CONSTRUCTED IN BUILD GROUPS. BUILD GROUPS MAY BE ASSEMBLED INTO SHIPPING SECTIONS; ASSEMBLY SHALL BE WITH SPLICE PLATES AS SHOWN HEREIN. BUILD GROUPS OR SHIPPING SECTIONS MAY BE FURTHER ASSEMBLED INTO INSTALLED UNIT; ASSEMBLY SHALL BE WITH THREADED ROD BETWEEN LIFTING LUGS AS SHOWN HEREIN.
7. PIPE CABINET (PC) SECTIONS MAY BE ADDED INTO THE ASSEMBLY. IF USED, ASSEMBLY WITH OTHER BUILD UNITS OR SHIPPING SECTIONS SHALL BE WITH THREADED ROD BETWEEN LIFTING LUGS AS SHOWN HEREIN.
8. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM.
9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC TO PREVENT GALVANIC REACTIONS.
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL FINISHES.
11. ACRONYMS USED IN THIS APPROVAL ARE AS FOLLOWS: EOU IS END OF UNIT, DOAF IS DIRECTION OF AIR FLOW, SS IS SHIPPING SPLIT, PC IS PIPE CABINET.BG IS BUILD GROUP.
12. ALL UNITS OF MEASURE ARE IN INCHES UNLESS OTHERWISE SPECIFIED
13. 2" MAX. DIAMETER CIRCULAR HOLES MAY BE FIELD DRILLED THROUGH THE EXTERIOR WALLS FOR INSTALLATION OF CONDUIT OR COMPONENTS. HOLES SHALL BE PROTECTED FROM WIND BY CONNECTED EQUIPMENT OR CONDUIT, BY OTHERS, AND PROPER SEALING TO PREVENT AIR EXCHANGE SHALL BE BY OTHERS. HOLES SHALL BE 3" MAX. FROM ANY PANEL EDGE. MAX. 4 FIELD-DRILLED HOLES PER PANEL, 12" ON CENTER MINIMUM.

Approved as complying with the
Florida Building Code
Date 11/21/2013
NOA# 12-0629.03
Miami Dade Product Control
By

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312

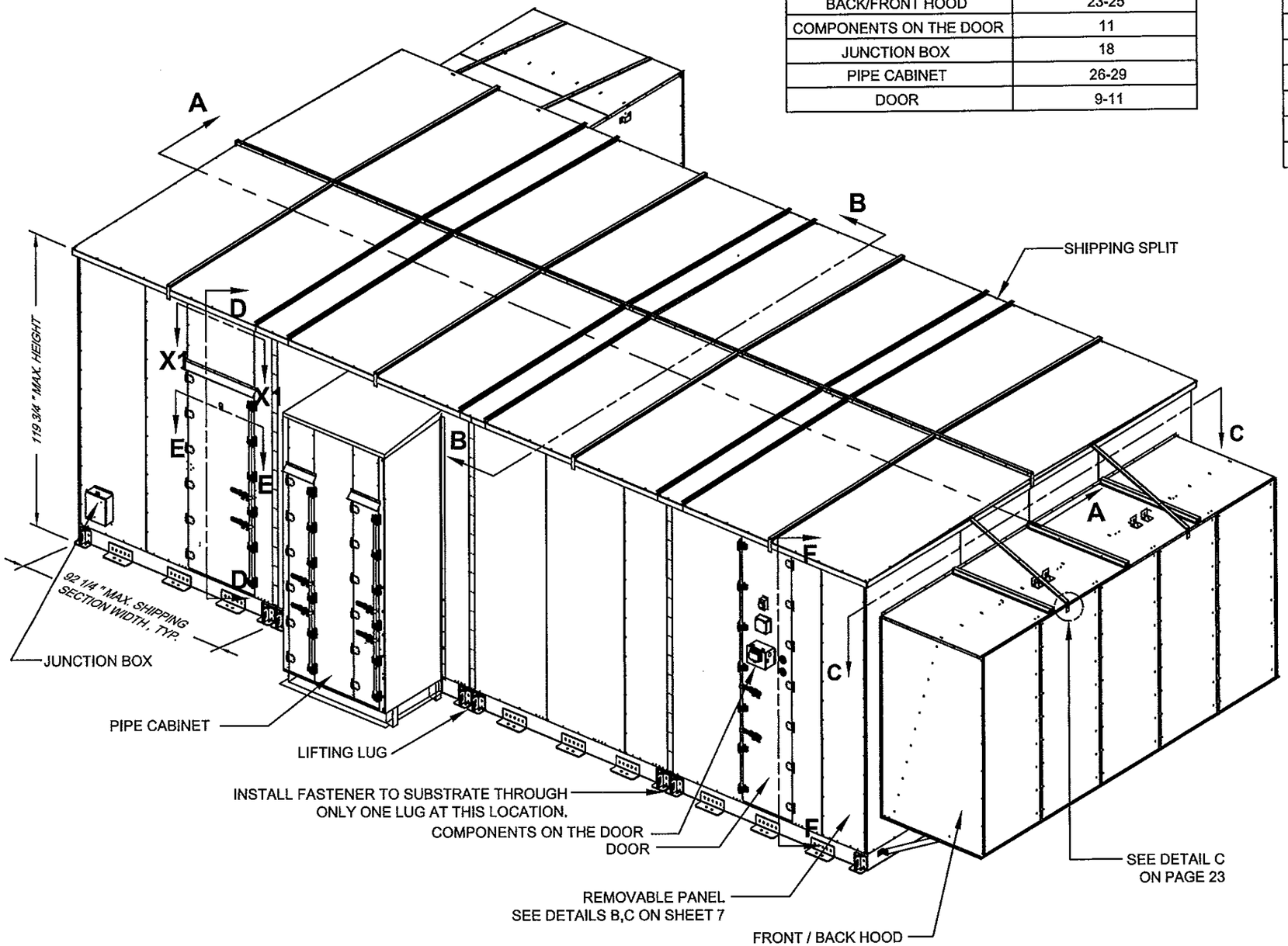
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 1 OF 41 / SECTION			MOCK UPDWG SHEET REF: ---	SCALE: NTS	DATE 10-SEP-2013

GENERIC FOAM PANEL CROSS SECTION DETAILS

COMPONENTS	DETAILS ON PAGE
BACK/FRONT HOOD	23-25
COMPONENTS ON THE DOOR	11
JUNCTION BOX	18
PIPE CABINET	26-29
DOOR	9-11

CROSS SECTION	REFERENCE PAGE
A-A	6
B-B	5
C-C	7
D-D	8
E-E	9
X1-X1	8
F-F	9



THE LIFTING LUG AND ANCHOR SIDE OF THE UNIT IS REFERED TO AS THE UNIT SIDES.

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NOV 05 2013

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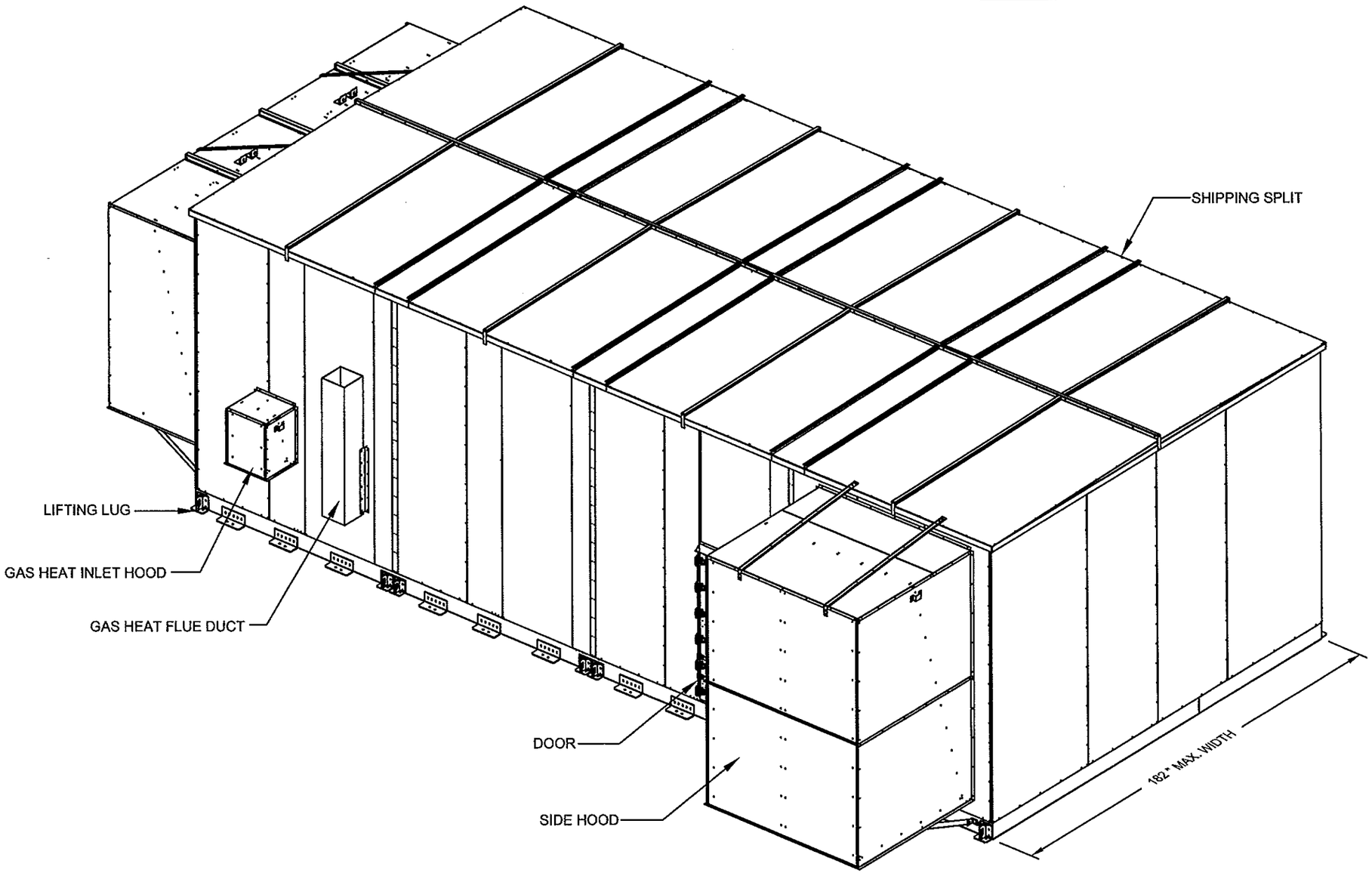
SHEET 2 OF 41 / SECTION			MOCK UPDWG SHEET REF: 2-5 OF 50	SCALE: NTS	DATE 10-SEP-2013

COMPONENTS	DETAILS ON PAGE
SIDE HOOD	23-25
GAS HEAT INLET HOOD	23-25
GAS HEAT FLUE DUCT	30



NOTE:
1. THE LIFTING LUGS ARE ATTACHED TO THE SIDES OF THE UNIT.

BACK/FRONT VIEW

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NOV 06 2013

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SHEET 3 OF 41 / SECTION			MOCK UPDWG SHEET REF: 7 OF 50	SCALE: NTS	DATE 10-SEP-2013

BILL OF MATERIALS		
1	10-16 x .75" SELF-DRILLING SCREW	GRADE 5 STEEL
2	.125" THICK x 2" WIDE TAPE	BUTYL
3	.188 (.06" COMPRESSED) x .625" GASKET	PVC/NBR
4	10-16 x 1.75" SELF-DRILLING SCREW	GRADE 5 STEEL
5	DECORATIVE COVER	GALV. STEEL
6		
7	.120" THICK x 1" WIDE TAPE	BUTYL
8	.375" THICK x .750" WIDE GASKET	PORON
9	HAT CHANNEL	GALV. STEEL
10	DOOR HINGE	GALV. STEEL
11	DOOR CAM BRACKET	GALV. STEEL
12	STRIKER PLATE	GALV. STEEL
13	.06" THICK x .5" WIDE TAPE	BUTYL
14	WINDOW 3/16" PLEXIGLASS 8 3/4" x 8 3/4"	PLEXIGLASS
15	WINDOW FRAME	GALV. STEEL
16	STRUCT. ADHESIVE SIKAFLEX 552	POLYMER
17	1/4"-14 x 3/4" SELF-DRILLING SCREW	GRADE 5 STEEL
18	UV DISCONNECT SWITCH	VARIES
19	INTENSITY MEASUREMENT METER	VARIES
20	GFCI JUNCTION BOX	GALV. STEEL
21	CONDUIT 1" RUNNING THREAD	GALV. STEEL
22	1" CONDUIT NUT	GALV. STEEL
23	1" CONDUIT BUSHING	GALV. STEEL
24	CONDUIT 1/2" RUNNING THREAD	GALV. STEEL
25	1/2" CONDUIT NUT	GALV. STEEL
26	1/2" CONDUIT BUSHING	GALV. STEEL
27	MINIHELIC GAUGE	VARIES
28	4-40 x 1 1/4" PHILLIPS PAN HEAD SCREW	GRADE 5 STEEL
29	ELBOW	GALV. STEEL
30	.06" THICK x 0.38" WIDE TAPE	BUTYL
31		
32	GANGED DOOR HANDLE ASSEMBLY	GALV. STEEL
33	DOOR VIEWER	VARIES
34		
35	PADLOCK BRACKET	GALV. STEEL
36	1/4-20 x 1/4" SET SCREW	GRADE 5 STEEL
37	10-16 x 1/2" SELF-DRILLING SCREW	GRADE 5 STEEL
38	.5" x 2.5" x 2.5" SPECIALTY GASKET	PVB/NBR
39	5/16"-18 x 7/8" SHEET METAL SCREW	GRADE 5 STEEL
40	SADDLE BRACKET	GALV. STEEL
41		
42		
43		
44	FIRST LEVEL BASE RAIL	GALV. STEEL
45		
46	FOAM COVER	GALV. STEEL
47	FOAM COVER CORNER BRACKET	GALV. STEEL
48		
49	JUNCTION BOX	GALV. STEEL
50	SEALANT, SIKAFLEX 221 CAULK	POLYMER
51		
52	DISCONNECT SWITCH ASSEMBLY	VARIES
53	DISCONNECT SWITCH BLOCKOFF	GALV. STEEL
54	.0325" THICK x 1.88" x 15.88" GASKET	POLYOLEFIN
55	.0325" THICK x 3" x 17" GASKET	POLYOLEFIN
56	DISCONNECT HANDLE KIT (NON STRUCTURAL)	VARIES
57	THREADED ROD 1/2"-13 x 10.5"	GALV. STEEL
58	NUT 1/2"-13 HEX MACHINE	GALV. STEEL
59	WASHER .563" ID x 1.375" OD	GALV. STEEL
60	SCREW 1/2"-13 x 1.2 HEX CAP HEAD	GALV. STEEL
61	LIFTING LUG (1ST LEVEL)	GALV. STEEL
62	0.06" THICK LUG GASKET	PVC/NBR
63	SPLICE PLATE	GALV. STEEL
64	0.06" THICK PLATE GASKET	PVC/NBR
65	BOLT 5/16"-18 x 6" HEX MACHINE	GALV. STEEL
66	WASHER .375" ID x .875 OD	GALV. STEEL
67	NUT 5/16"-18 HEX FLANGE (HW)	GALV. STEEL
68	WALL BOTTOM L ANGLE	GALV. STEEL
69	ROOF KEEL	GALV. STEEL
70	STRUCT. ADHESIVE SIKAFAST 3131S	POLYMER
71	ROOF BACKING PLATE	GALV. STEEL
72	.188" (.06" COMPRESSED) x 1.25" GASKET	PVC/NBR
73	DOOR FOOTER	GALV. STEEL
74	SUPPORT MULLION ASSEMBLY	GALV. STEEL
75	BASE SUPPORT CHANNEL / PC BASE L ANGLE	GALV. STEEL
76	DRIP LIP	GALV. STEEL
77	PC SHIPPING BRACKET	GALV. STEEL
78	3/8"-16 x 1 1/4" HEX CAP SCREW	GRADE 5 STEEL
79	3/8"-16 HEX NUT	GRADE 5 STEEL
80	PC BASE RAIL	GALV. STEEL
81	CHAIN GUIDE	GALV. STEEL
82	3/8"-16 x 3" BOLT	GRADE 5 STEEL
83		
84	UNIT WELD BRACKET	GALV. STEEL
85		
86	PC ROOF ANGLE	GALV. STEEL
87		
88	1/2"-13 x 1.2" HEX CAP BOLT	GRADE 5
89		
90		
91	SHIPPING SPLIT SUPPORT ANGLE PTAF	GALV. STEEL
92	SHIPPING SPLIT VERTICAL CHANNEL	GALV. STEEL
93		
94		
95		
96		
97		
98		
99		
100	.38" THICK x 2" WIDE ROLL	BUTYL
101	SEAM CAP	GALV. STEEL
102	ROOF STRIP	GALV. STEEL
103	OVERHANG	GALV. STEEL
104	A-FRAME HORIZONTAL	GALV. STEEL
105	A-FRAME VERTICAL	GALV. STEEL
106	HOOD LIFTING LUG ANGLE	GALV. STEEL
107	HOOD LIFTING LUG HAT	GALV. STEEL
108	HOOD SUPPORT	GALV. STEEL
109	HOOD SUPPORT BRACKET	GALV. STEEL
110	HOOD L-ANGLE	GALV. STEEL
111	HOOD SUPPORT TOP CHANNEL	GALV. STEEL
112	HOOD BACKING PLATE	GALV. STEEL
113	WALL ANCHOR	GALV. STEEL
114	DOUBLE SIDED TAPE 1/16 (COMPR.) x 3/4 x 216	PVC/NBR
115	PC ROOF KEEL	ALUMINUM 6063-T6
116	KEEPER/DOOR CAM	ZAMAK # 3
117		
118		
119	EOU WALL SUPPORT CHANNEL	GALV. STEEL
120	FLUE DUCT L ANGLE	GALV. STEEL
121	SHIP SPLIT SPLICE PLATE	GALV. STEEL
122	HOOD L-ANGLE FOR HOOD BOTTOM PANEL	GALV. STEEL
123	NEW DOOR HEADER	GALV. STEEL
124		
125		
126	BOTTOM CAP	STAINLESS STEEL
127	FLUE DUCT	STAINLESS STEEL
128	DOAF BEAM	GALV. STEEL
129	WALL PANEL BACKING PLATE (P.C)	GALV. STEEL
130	0.125 X 5/16" RIVET	GALV. STEEL
131	BACKING PLATE (UNIT ROOF FOR P.C)	GALV. STEEL
132		
133	DOOR HEADER	GALV. STEEL
134	EYEBROW	GALV. STEEL
135	UV VIEW PORT	GALV. STEEL
136	SUPPORT GUSSET BRACKET	GALV. STEEL
137	SUPPORT GUSSET	GALV. STEEL
138	CORNER SEAM CAP	GALV. STEEL
139	HAT CHANNAL BRACKET	GALV. STEEL
140	DOOR TUBE	STEEL
141	CORNER BLOCK FIRST LEVEL	GALV. STEEL
142	DOAF BASE SUPPORT CHANNEL	GALV. STEEL
143	PC LIFITING LUG	GALV. STEEL

NOTE: PVC/NBR IN BOM TO THE LEFT INDICATES POLYVINYL CHLORIDE / ACRYLONITRILE BUTADIENE RUBBER, SINGLE-SIDED EXCEPT ITEM 114.

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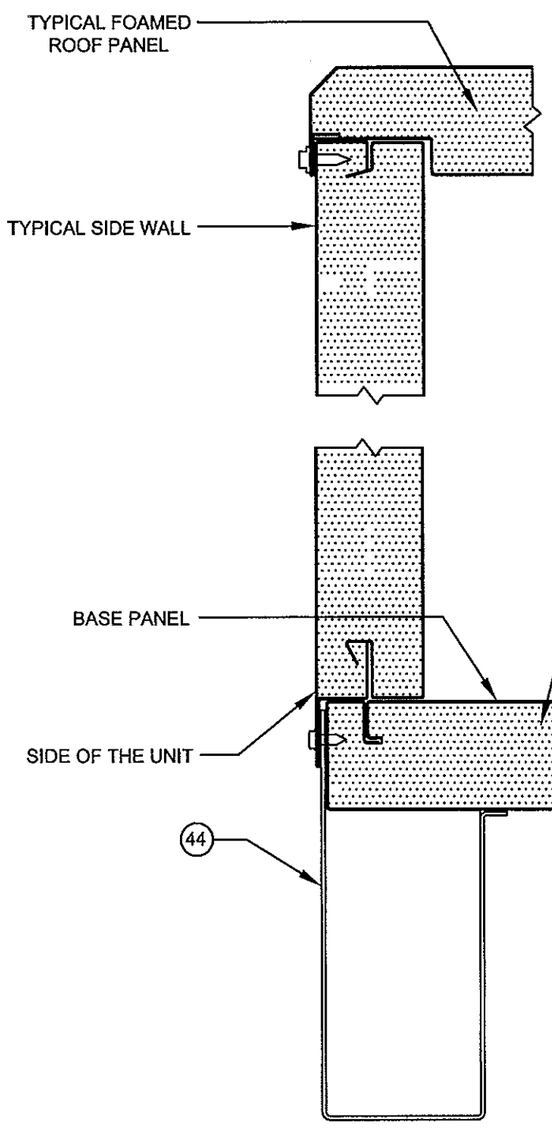
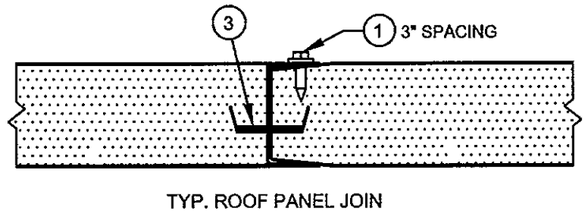
NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 4 OF 41 / SECTION			MOCK UPDWG SHEET REF: 5 OF 50	SCALE: NTS	DATE 10-SEP-2013

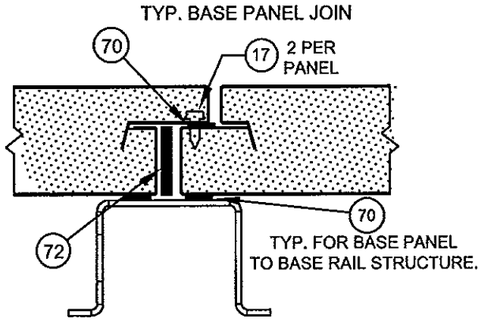
TYPICAL UNSTACKED UNIT FOAMED PANEL JOINTS AND CROSS SECTIONS
(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY.)

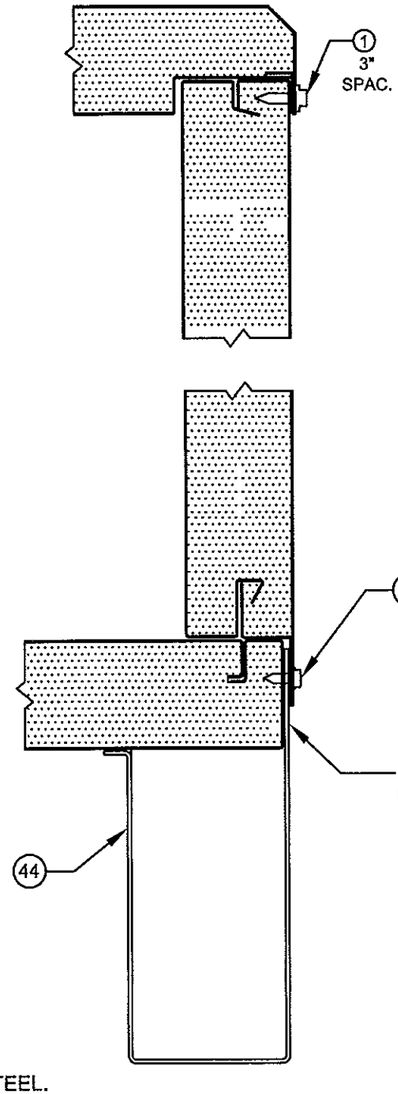
(REFER TO PAGES 12-21 FOR SUPPORT DETAILS)





TYP. ROOF PANEL JOIN





NOTES:
1. DOOR CROSS SECTION SHOWN ON PAGE 8 AND 9.

PANEL NOTES:
1. OVERALL PANEL THICKNESS IS 2".
2. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION.
3. INNER AND OUTER CASING PANEL SKINS ARE 0.028" GALVANIZED STEEL.
4. GASKET ITEM 3 IS PLACED AS A THERMAL BREAK BETWEEN ALL INNER AND OUTER CASING PANELS.

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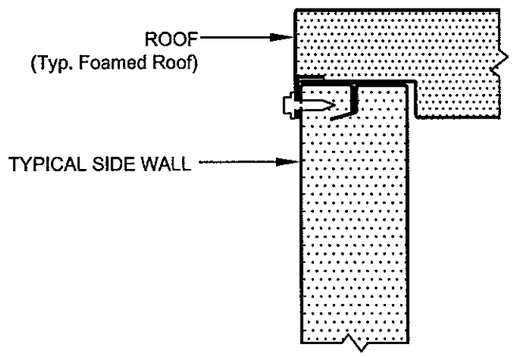
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 06 2013

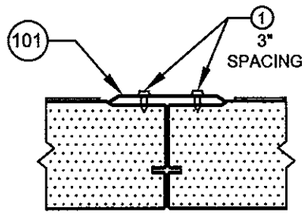
CROSS SECTION B-B

DRAWING # AIRS0704		DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 5 OF 41	SECTION			MOCK UPDWG SHEET REF: 16, 19, 25 OF 50 29 OF 63	SCALE: NTS	DATE 10-SEP-2013

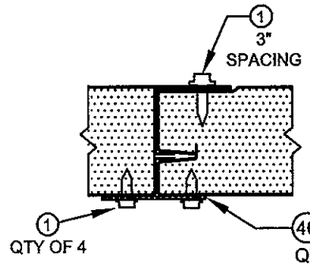
TYPICAL UNSTACKED UNIT FOAMED PANEL JOINTS AND CROSS SECTIONS
(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY)

(REFER TO PAGES 12-21 FOR SUPPORT DETAILS)



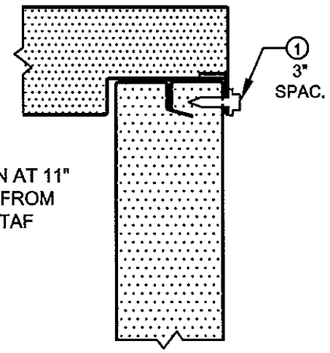


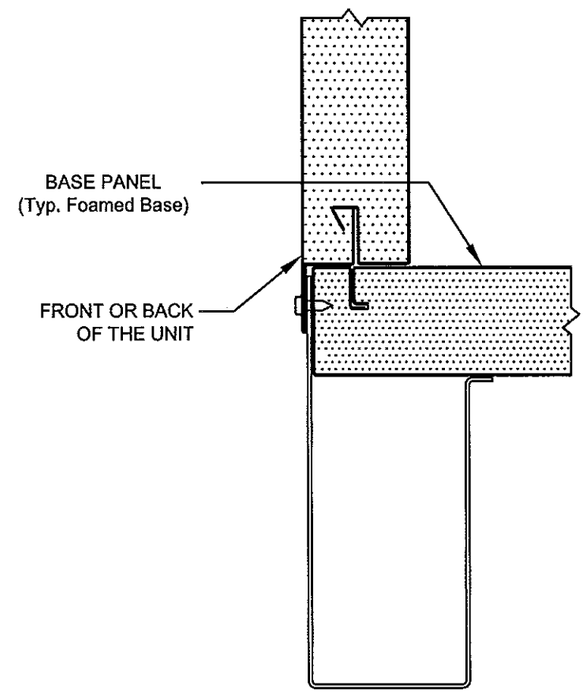
TYP. ROOF JOIN AT
SHIPPING SPLIT



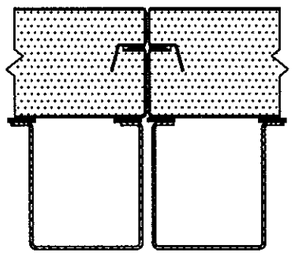
TYP. ROOF PANEL JOIN

QTY 4 PER ROOF JOIN AT 11" FROM CTR AND 11" FROM INSIDE WALL IN PTAF DIRECTION.

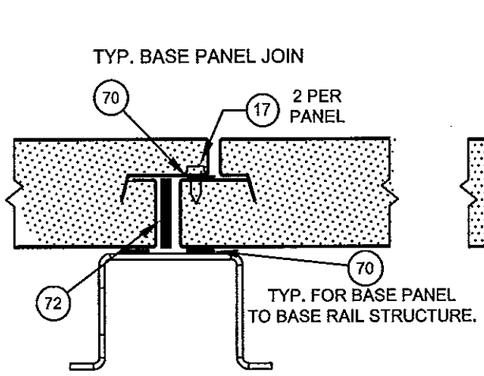




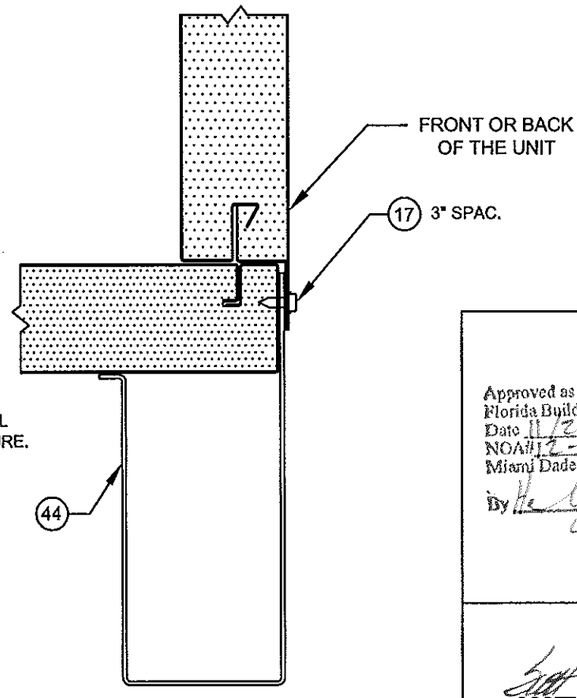
TYP. BASE JOIN AT
SHIPPING SPLIT



TYP. BASE PANEL JOIN



TYP. FOR BASE PANEL
TO BASE RAIL STRUCTURE.



PANEL NOTES:
1. OVERALL PANEL THICKNESS IS 2"
2. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION
3. INNER AND OUTER CASING PANEL SKINS ARE 0.028" GALVANIZED STEEL
4. GASKET ITEM 3 IS PLACED AS A THERMAL BREAK BETWEEN ALL INNER AND OUTER CASING PANELS

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NOA# 12-0629.03
Miami Dade Product Control
By

SCOTT WOLTERS
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(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312

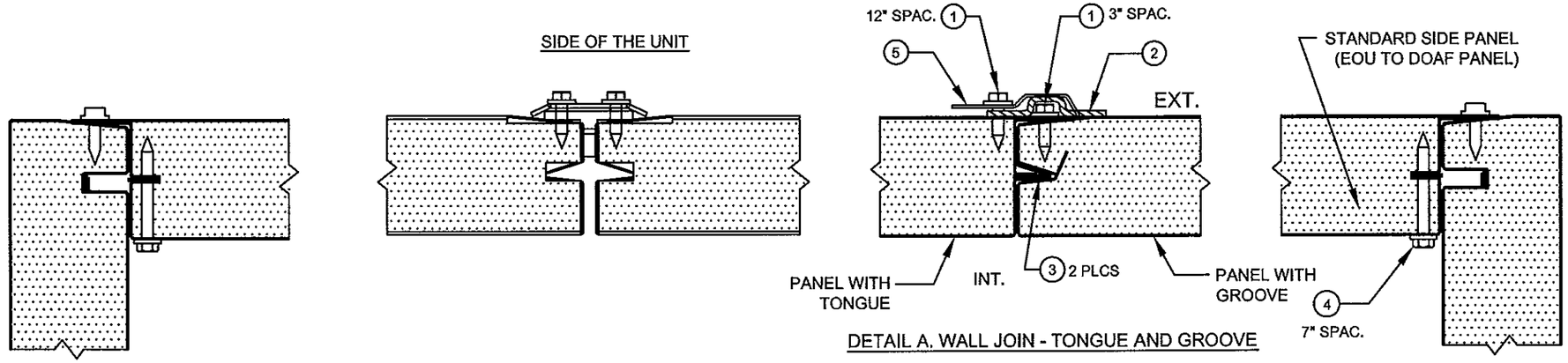
NOV 06 2013

CROSS SECTION A-A

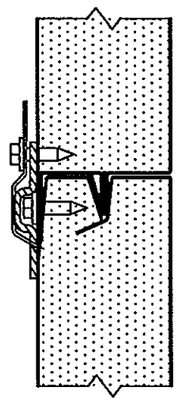
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 6 OF 41 / SECTION			MOCK UPDWG SHEET REF: 16, 17, 19, 24 OF 50 29 OF 63	SCALE: NTS	DATE 10-SEP-2013

TYPICAL UNIT CROSS SECTIONS OF FOAMED PANEL AND UNIT SPLIT JOINTS
(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY)

(REFER TO PAGES 12-21 FOR SUPPORT DETAILS)

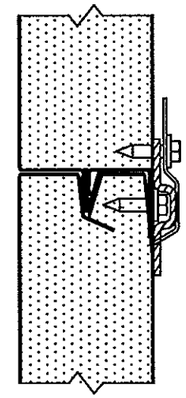


DETAIL A. WALL JOIN - TONGUE AND GROOVE



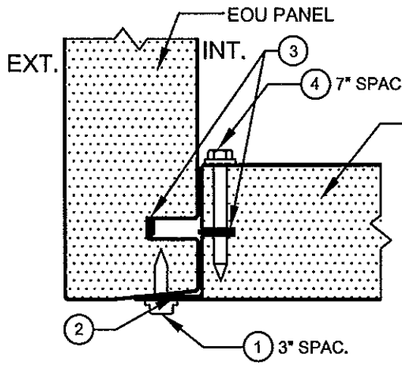
TYPICAL WALL JOIN
TONGUE AND GROOVE
SEE DETAIL A

NOTES:
1. DOOR CROSS SECTION SHOWN ON PAGE 8 AND 9.

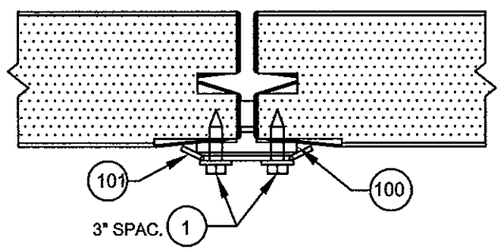


FRONT OR BACK
OF THE UNIT

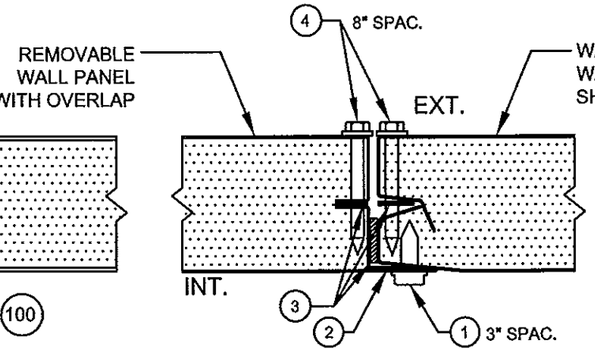
CROSS SECTION C-C



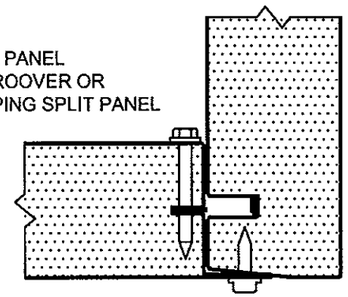
DETAIL C. EOU PANEL
TO REMOVABLE PANEL



DETAIL D. TYPICAL SHIPPING SPLIT
WALL JOINT WITH SEAM CAP



DETAIL B. REMOVABLE PANEL JOINT



SIDE OF THE UNIT

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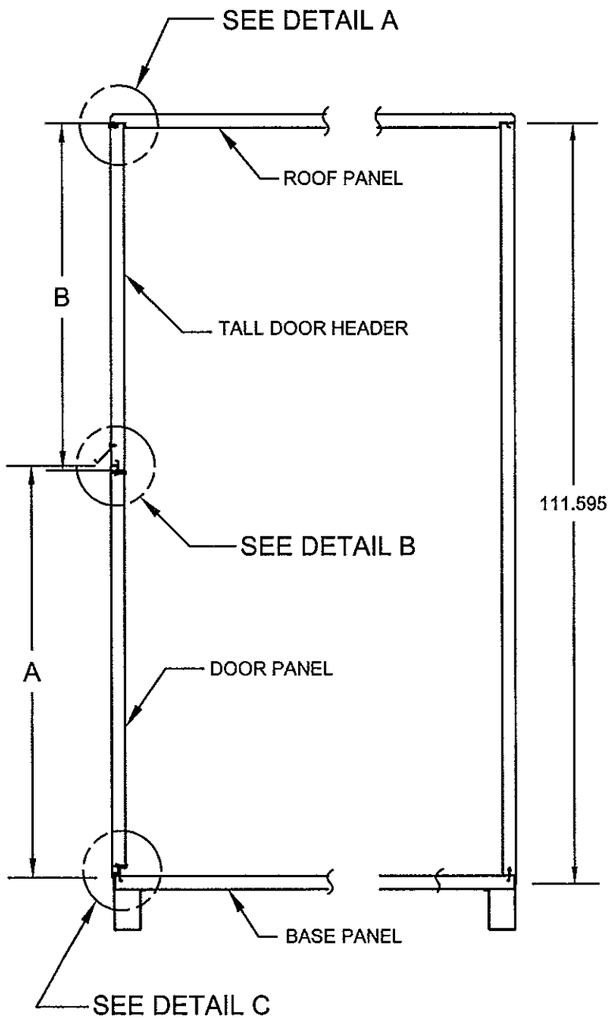
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 7 OF 41 / SECTION			MOCK UPDWG SHEET REF: 9, 15, 38 OF 50	SCALE: NTS	DATE 10-SEP-2013

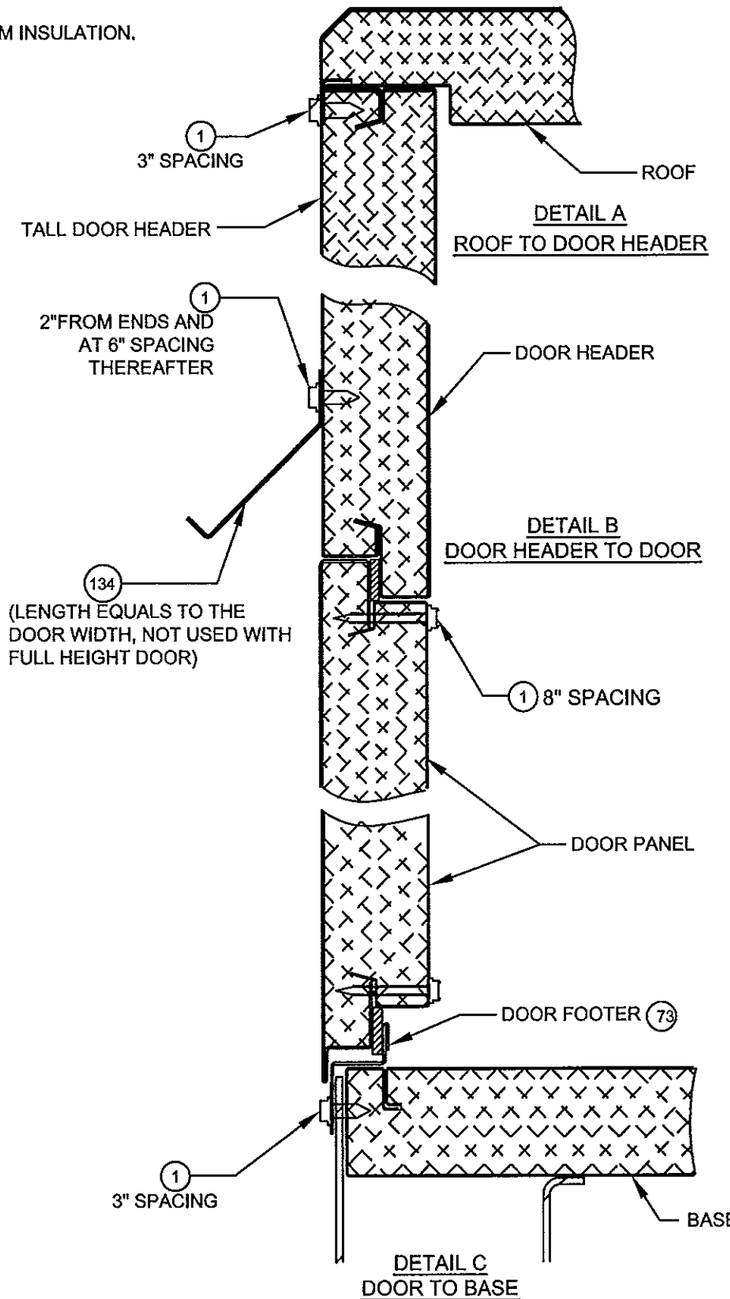
ROOF TO DOOR & DOOR TO BASE RAIL CROSS SECTION D-D (SEE PAGE 2)

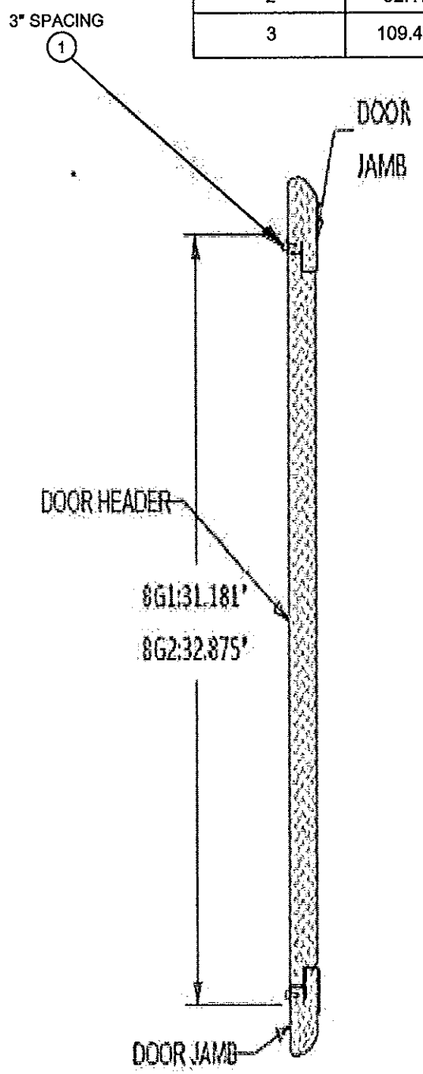
(SHORT DOOR WITH TALL HEADER)

NOTES:
1. ALL PANELS ARE 2" THICK. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION.

DOOR AND HEADER PANEL HEIGHT		
	DOOR (A)	DOOR HEADER (B)
1	60.425	50.915
2	82.175	29.165
3	109.425	STD DOOR HEADER 123. AND 133







THIS VIEW IS FOR PAGE 7. SHOWING HEADER PANEL ATTACHMENT TO JAMBS.

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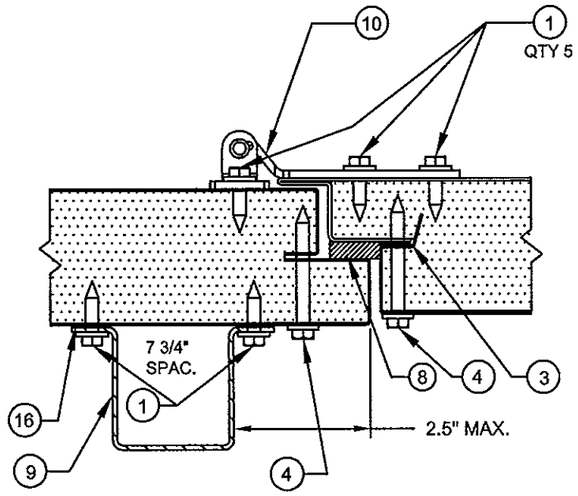
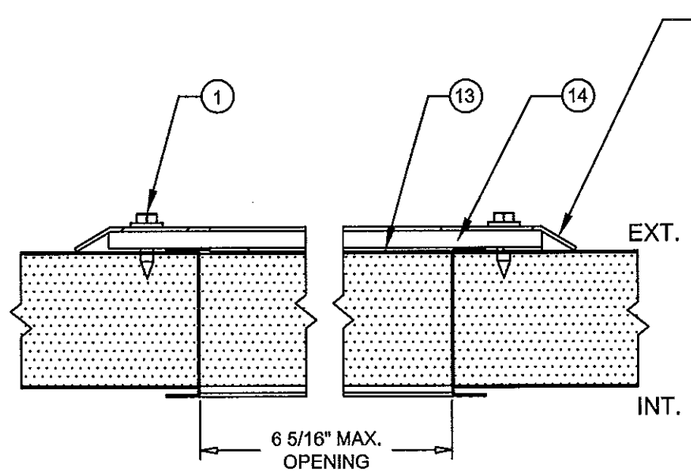
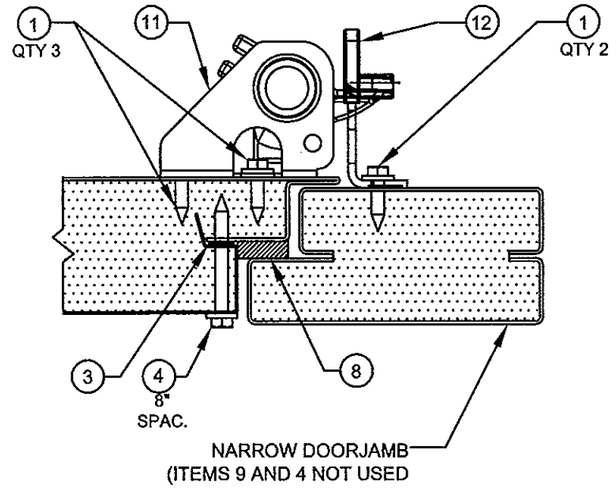
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 8 OF 41 / SECTION			MOCK UPDWG SHEET REF: 11 OF 50	SCALE: NTS	DATE 10-SEP-2013

DOOR CROSS SECTION E-E

SEE PANEL NOTES SHEET 5



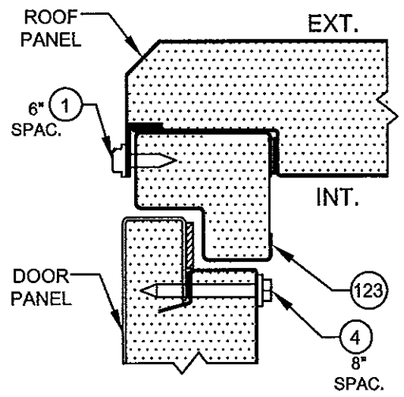




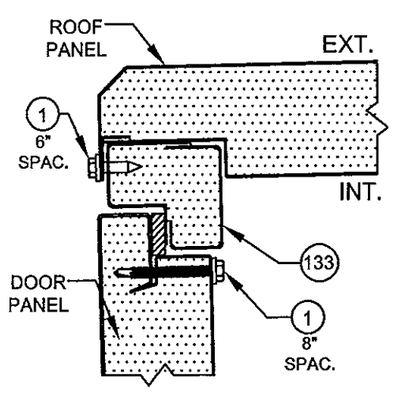
DETAIL A. DOOR HORIZONTAL CROSS-SECTION

NOTE:
1. THIS DETAILS SHALL BE APPLICABLE TO ALL DOORS IN UNIT AND PIPE CABINET.

DOOR CROSS SECTION F-F
STANDARD HEADER

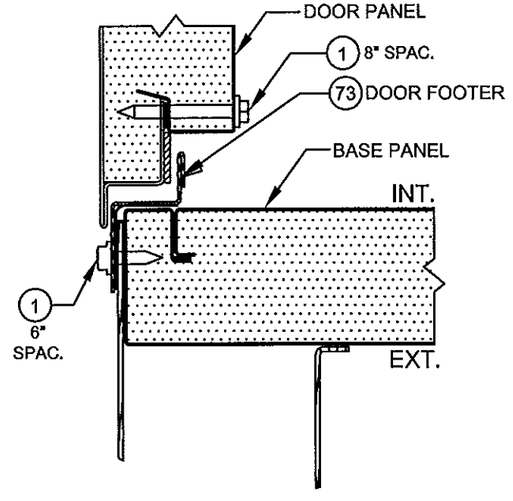


DETAIL B1. DOOR TO ROOF (TOP)
NEW-SYLE HEADER
(Tested with size 50)



DETAIL B2. DOOR TO ROOF (TOP)
OLD-STYLE HEADER

NOTE:
1. ONLY SHOWING TOP AND BOTTOM OF THE CROSS SECTION.



DETAIL C. DOOR TO BASE (BOTTOM)

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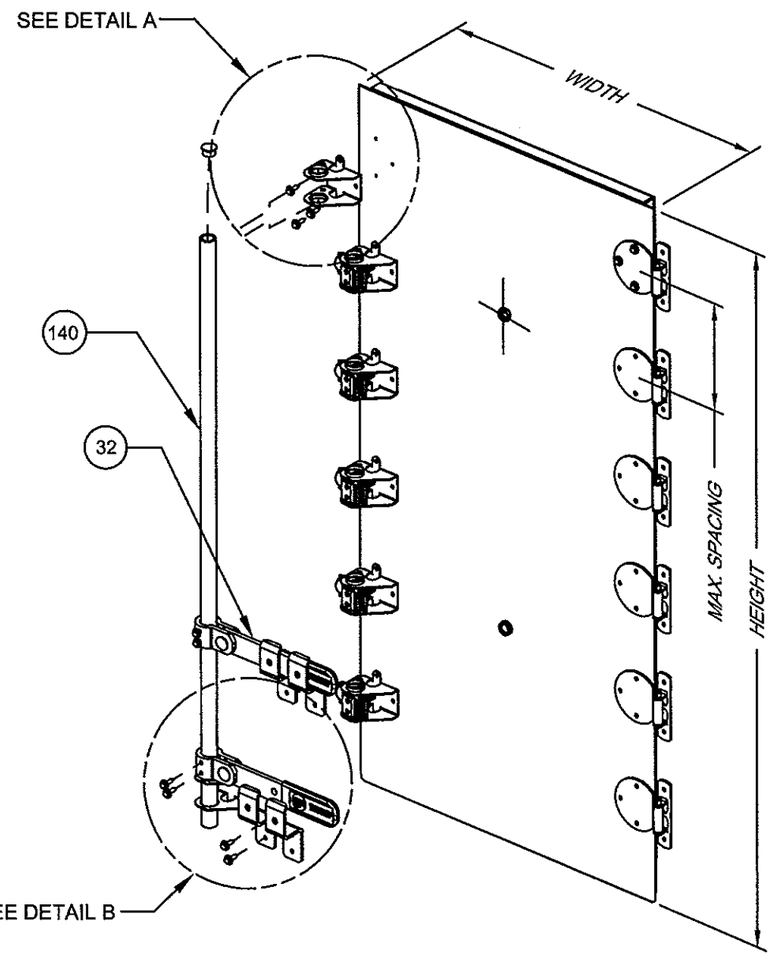
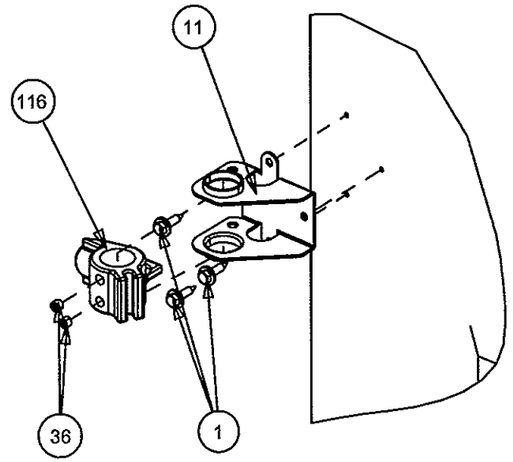
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 9 OF 41 / SECTION			MOCK UPDWG SHEET REF: 10, 11, 12 OF 50	SCALE: NTS	DATE 10-SEP-2013

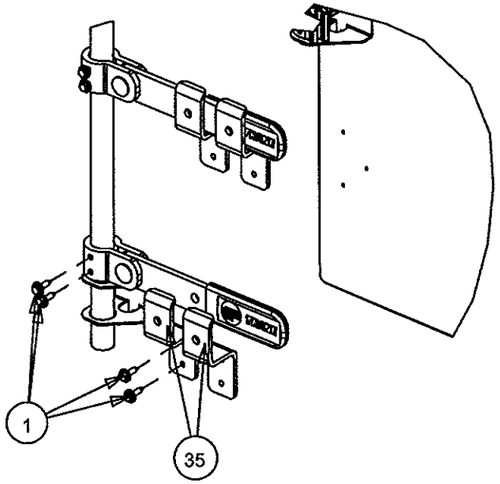
DOOR HARDWARE LAYOUT



SECTION DESCRIPTION	MAXIMUM DOOR SIZE WIDTH x HEIGHT	HINGE MAX. SPACING	HINGE QTY	PADLOCK BRACKETS PER HANDLE	HANDLE QTY
STANDARD UNIT	32.750" x 60.425"	10.160	6	2	2
STANDARD UNIT	30.875" x 82.175"	14.510	6	2	2
STANDARD UNIT	23.353" x 109.4256"	16.634	7	2	2
PIPE CABINET	30.913" x 60.425"	10.250	6	2	2



DETAIL A



DETAIL B

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FT. LAUDERDALE, FL 33312

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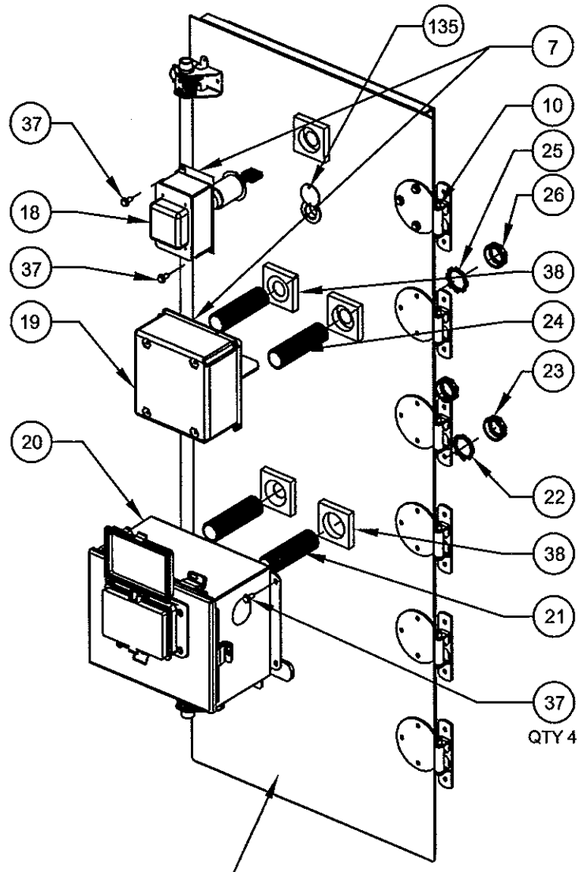
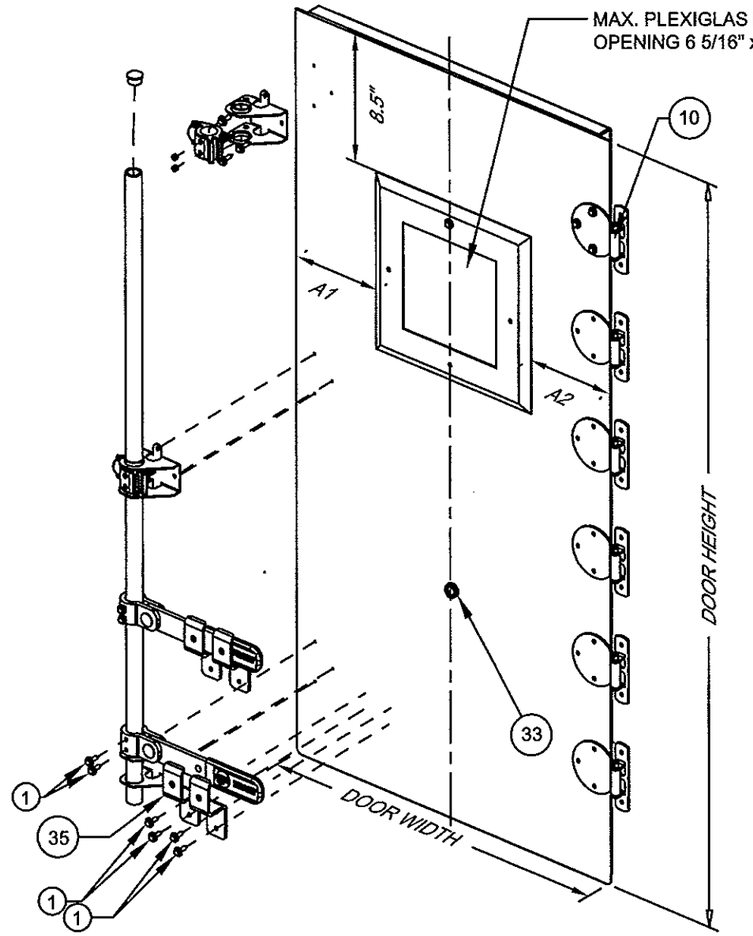
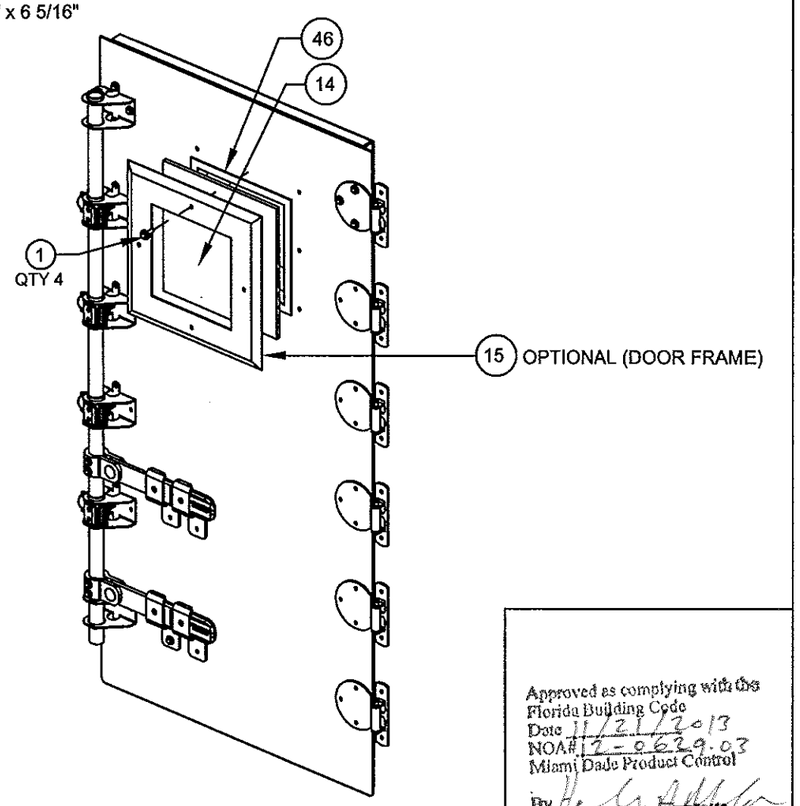
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 10 OF 41 / SECTION			MOCK UPDWG SHEET REF: 13 OF 50 AND 9 OF 19	SCALE: NTS	DATE 10-SEP-2013

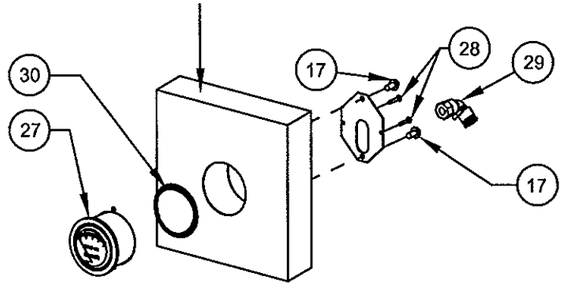
COMPONENTS ON DOOR
(TESTED WITH SIZE 50)

NOTES:
1. THIS PAGE IS SHOWING ALL THE COMPENTS ATTACHED AND TESTED WITH DOORS.
2. THESE COMPONENTS APPLICABLE TO ALL DOORS.
3. TESTED WITH SIZE 50.









DOOR HARDWARE AND OPTIONAL COMPONENTS

DOOR WIDTH	A1	A2
32.750	11.5	11.125

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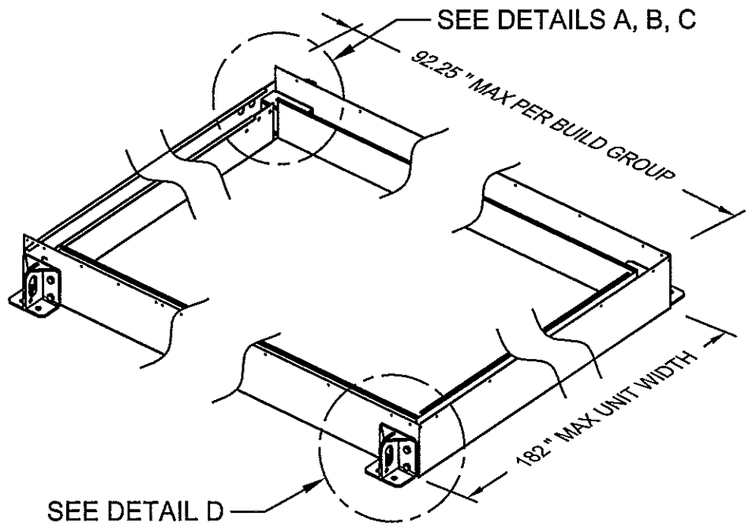
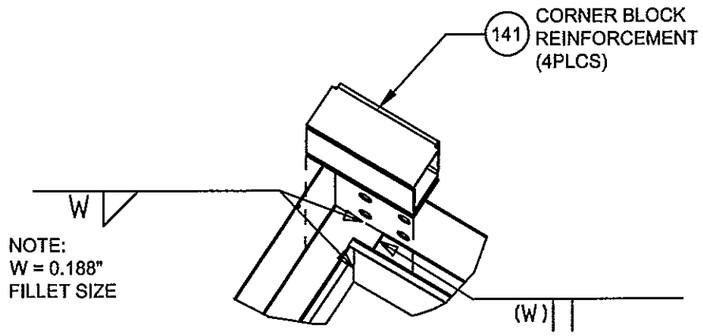
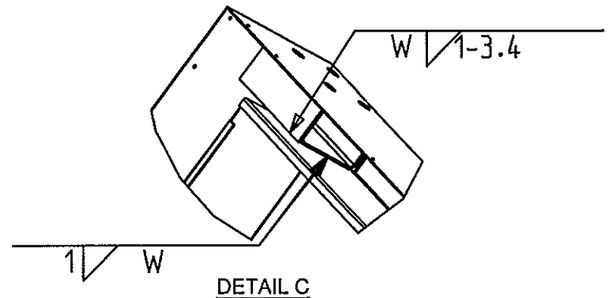
SHEET 11 OF 41 / SECTION			MOCK UPDWG SHEET REF: 13, 14 OF 50 AND 17-19 OF 63	SCALE: NTS	DATE 10-SEP-2013

BASE RAIL AND BASE PANEL

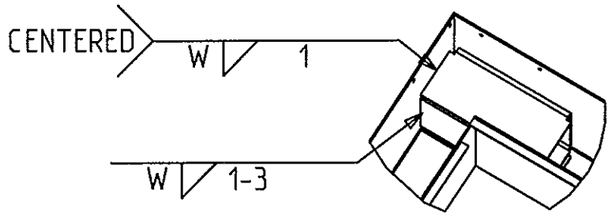




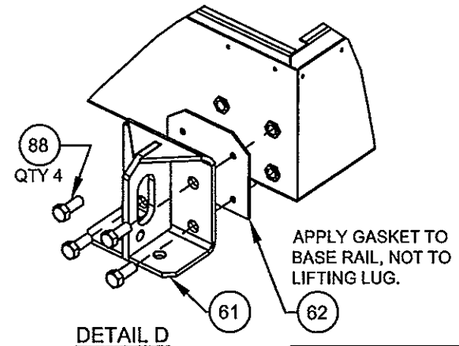
DETAIL A



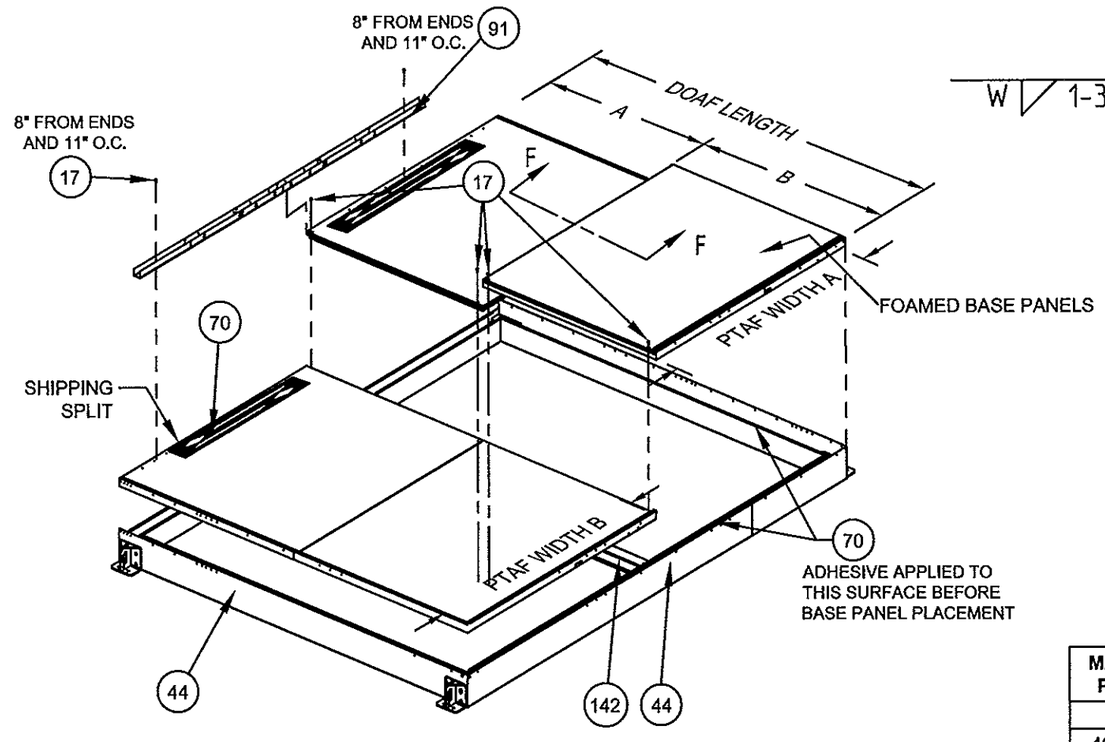
DETAIL C

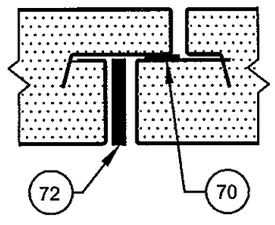


DETAIL B



DETAIL D





DETAIL F-F

MAX. DOAF BASE PANEL LENGTH		MAX. PTAF BASE PANEL LENGTH	
A	B	A	B
46.959	45.984	91.66	90.685

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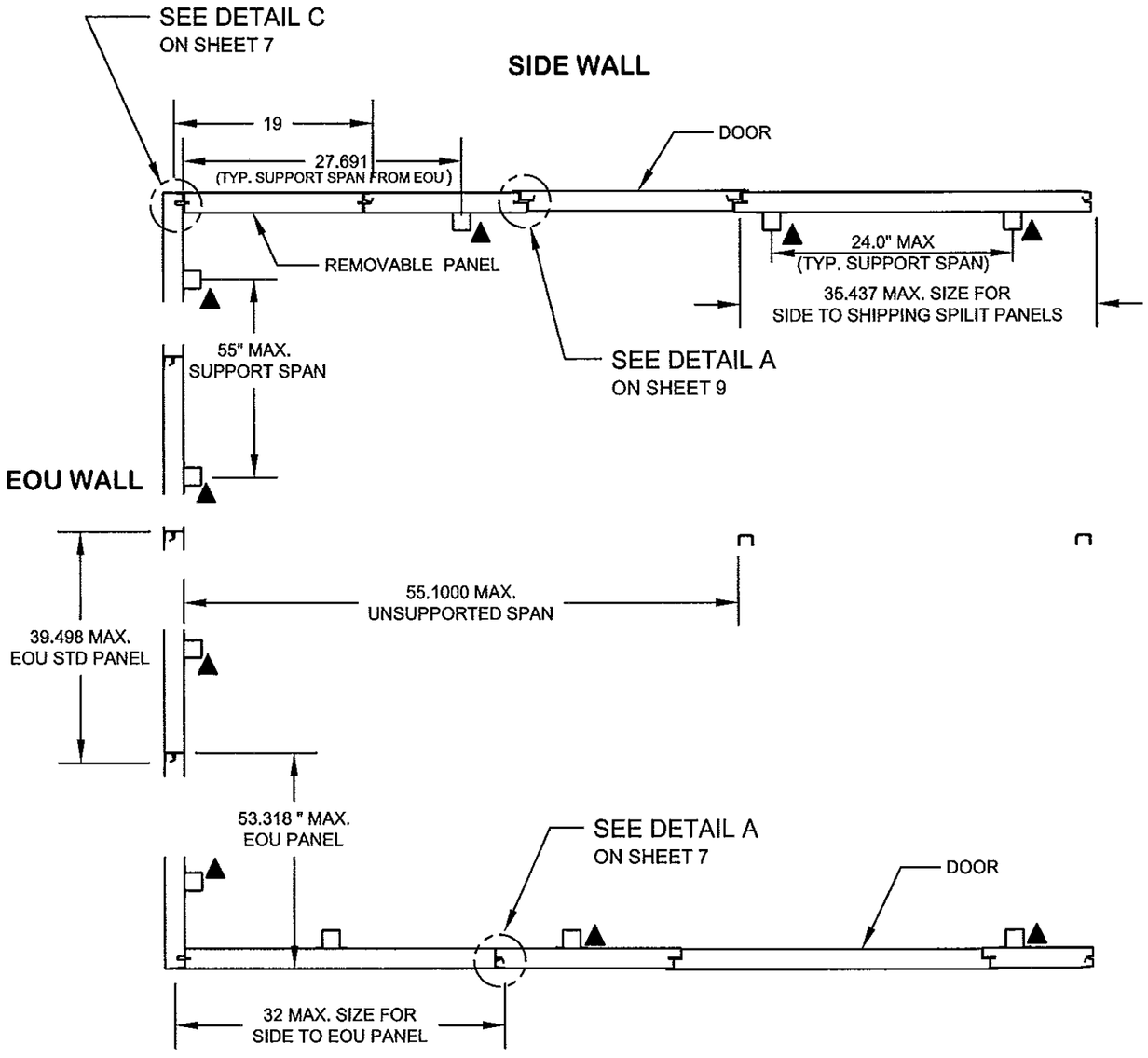
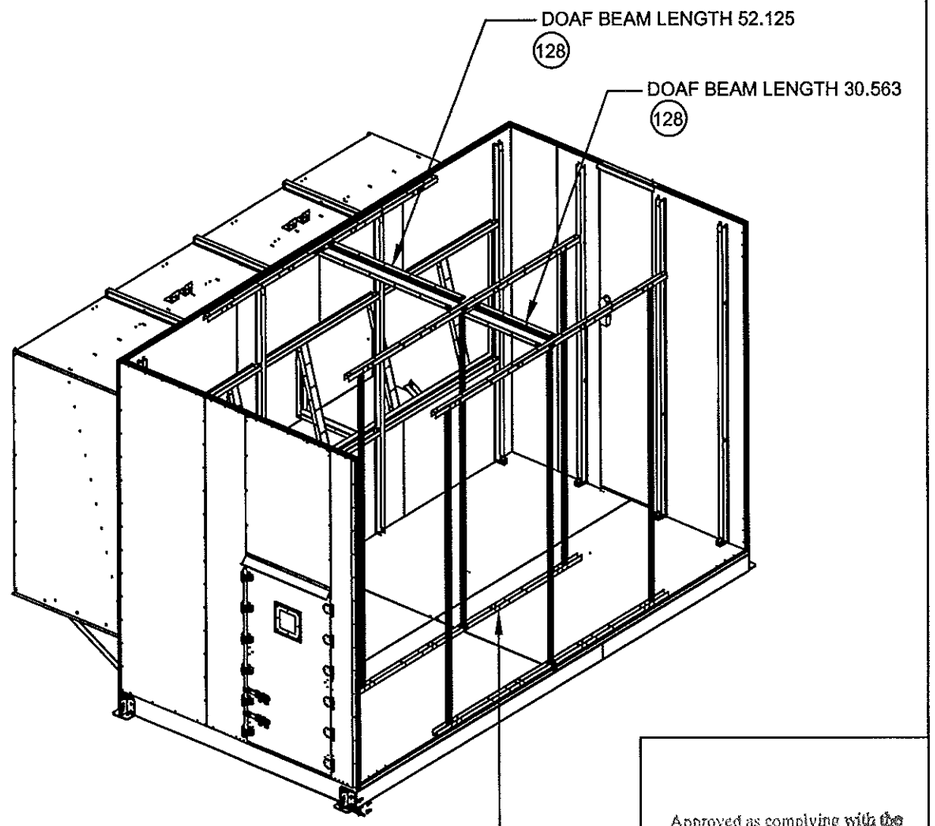
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 12 OF 41 / SECTION			MOCK UPDWG SHEET REF: 18, 19 OF 50 AND 29 OF 63	SCALE: NTS	DATE 10-SEP-2013

TYPICAL WALL PANEL LAYOUT & SUPPORT STRUCTURE (FULL HEIGHT)

(SHOWING EOU WALL STRUCTURE WITH OPENING)

SEE PAGE 17





▲ HAT CHANNEL BRACKET ATTACHED TO THE HAT CHANNEL AND THE BASE PANEL.
SEE PAGE 17 DETAIL C

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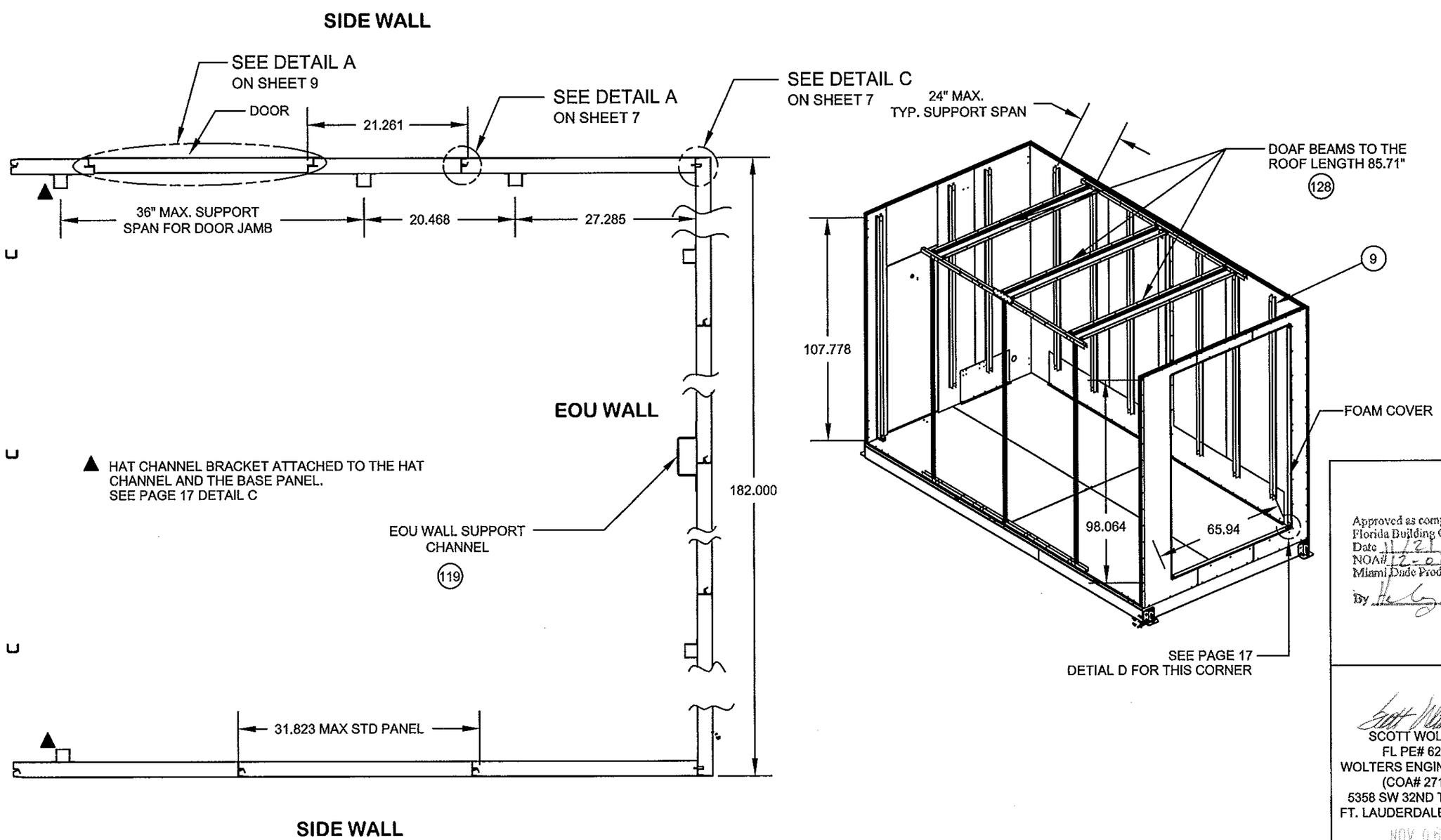
SHEET 13 OF 41 / SECTION			MOCK UPDWG SHEET REF: 6 OF 50	SCALE: NTS	DATE 10-SEP-2013

TYPICAL WALL PANEL LAYOUT & WALL SUPPORT STRUCTURE (BOTH FULL HEIGHT AND SHORT)



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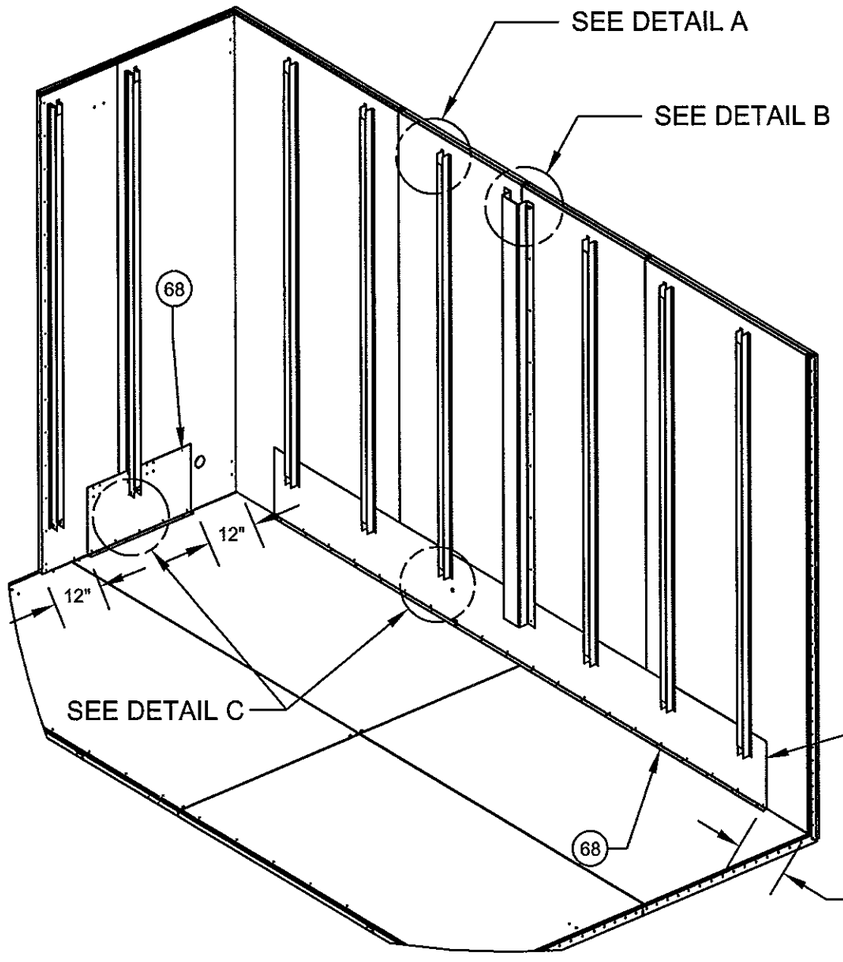
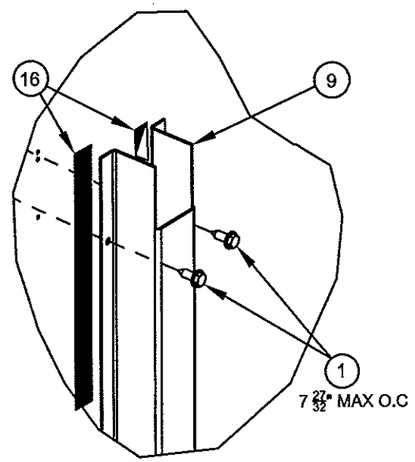
NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 14 OF 41 / SECTION			MOCK UPDWG SHEET REF: 8 OF 50	SCALE: NTS	DATE 10-SEP-2013

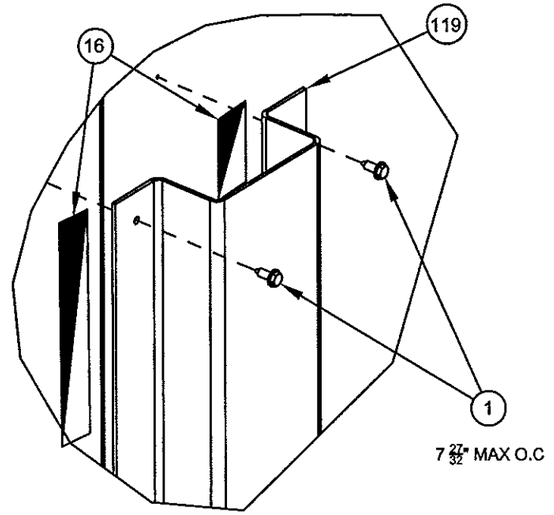
WALL SUPPORT STRUCTURE INSTALL
(SHORT HAT CHANNELS)

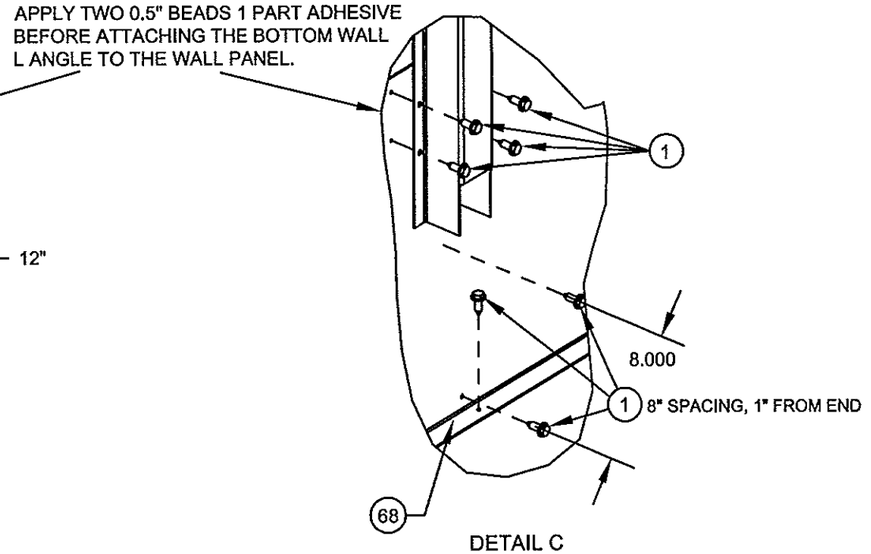


HAT CHANNEL
DETAIL A



EOU WALL SUPPORT CHANNEL
DETAIL B





DETAIL C

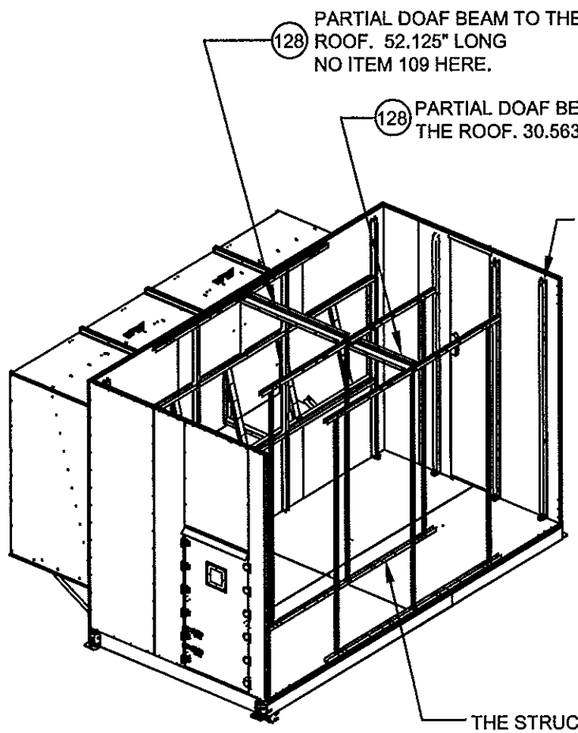
Approved as complying with the Florida Building Code
Date 11/21/2013
NOA# 12-0629.07
Miami Dade Product Control
By

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 05 2013

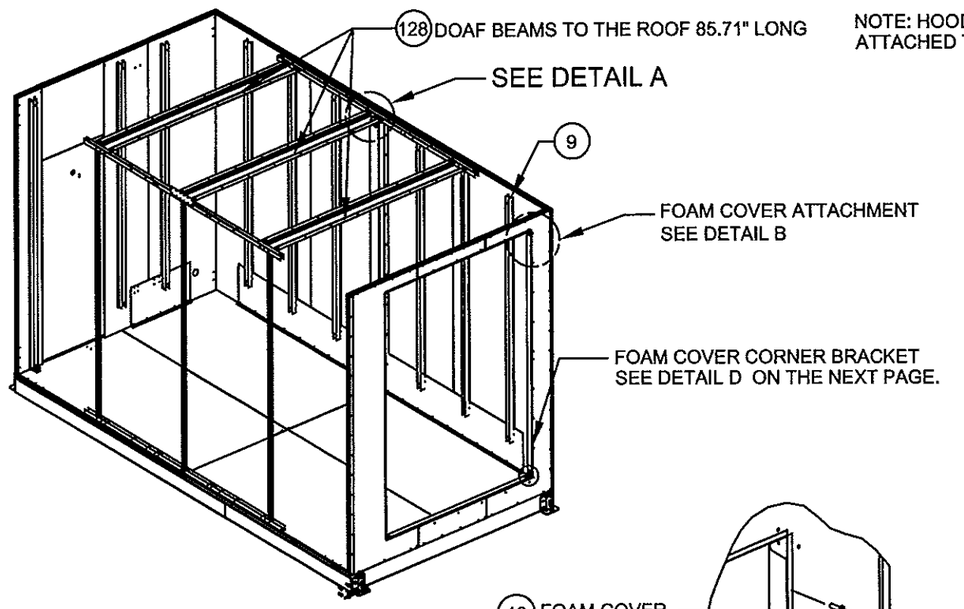
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 15 OF 41 / SECTION			MOCK UPDWG SHEET REF: 27 OF 50	SCALE: NTS	DATE 10-SEP-2013

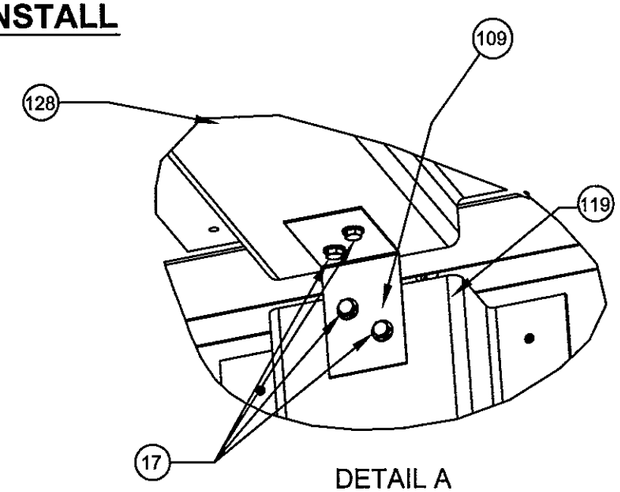
ROOF SUPPORT STRUCTURE TO WALL STRUCTURE INSTALL

BUILD GROUP 2



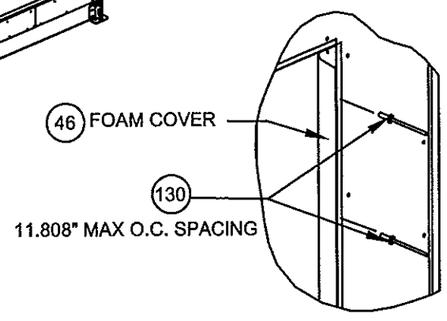
BUILD GROUP 1





DETAIL A

NOTE: HOOD SUPPORT BRACKET ANGLE IS ATTACHED TO THE MIDDLE DOAF BEAM ONLY



DETAIL B

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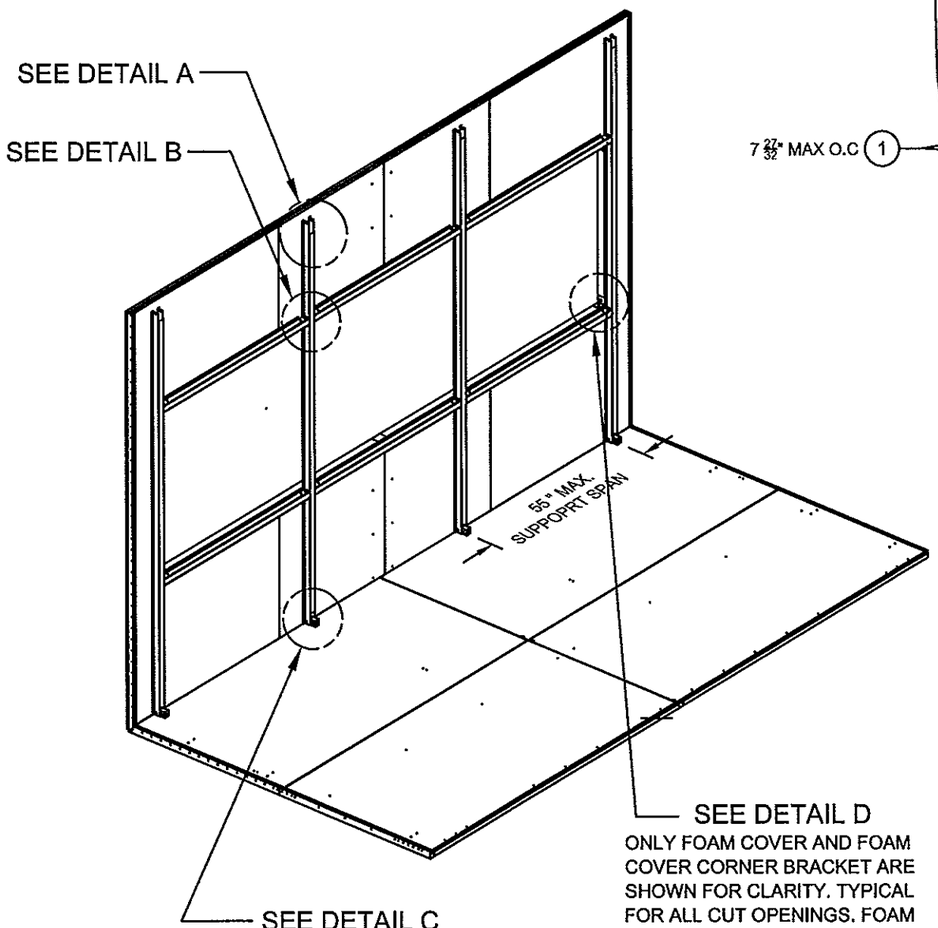
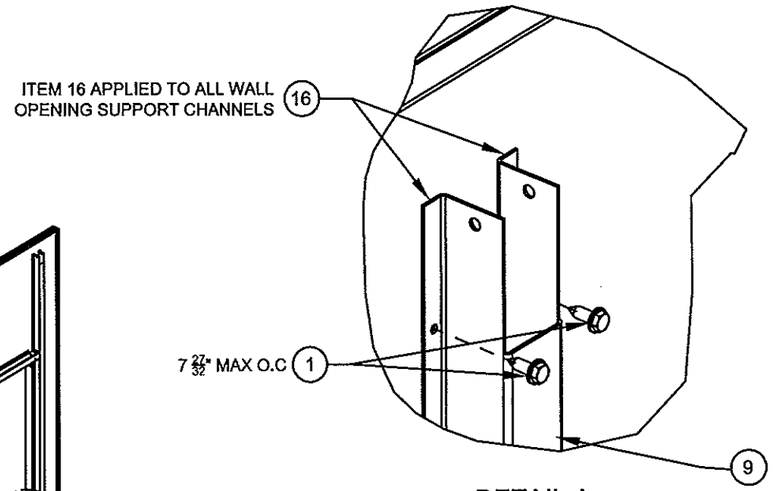
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 16 OF 41 / SECTION			MOCK UPDWG SHEET REF: 6, 8 OF 50	SCALE: NTS	DATE 10-SEP-2013

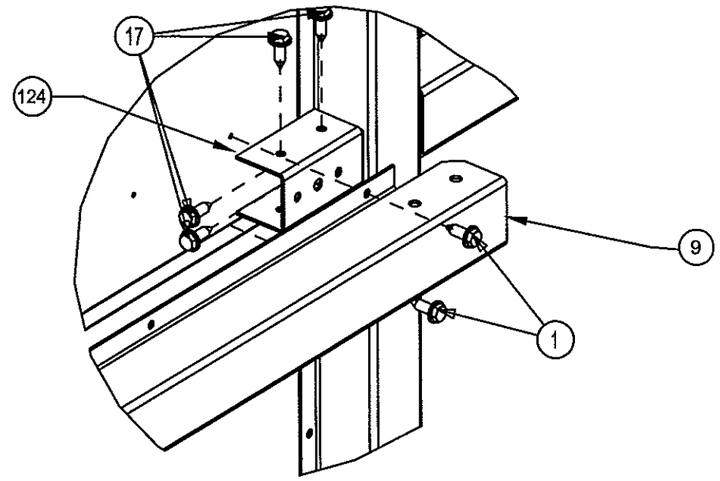
WALL AND OPENING SUPPORT STRUCTURE
(WITH FULL HEIGHT HAT CHANNEL)



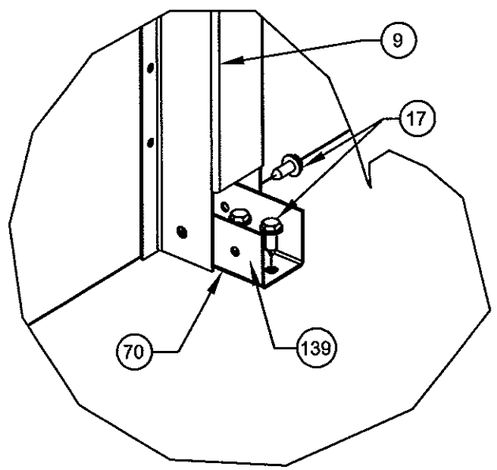
ONLY FOAM COVER AND FOAM COVER CORNER BRACKET ARE SHOWN FOR CLARITY. TYPICAL FOR ALL CUT OPENINGS. FOAM COVER CORNER BRACKET MAY NOT BE USED FOR PLUG PANEL AND WINDOWS OPENINGS.



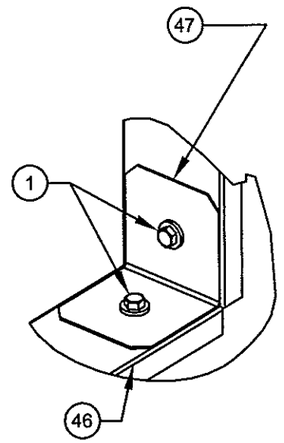
DETAIL A



DETAIL B



DETAIL C



DETAIL D

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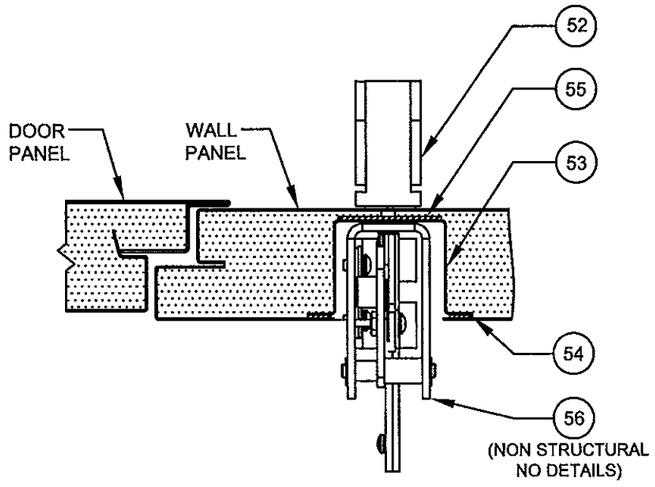
Date 11/21/2013
NOA# 12-0629.03
Miami Dade Product Control
By

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 17 OF 41 / SECTION			MOCK UPDWG SHEET REF: 28 OF 50	SCALE: NTS	DATE 10-SEP-2013

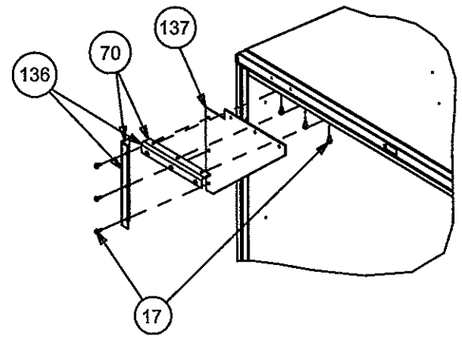
OTHER GENERIC COMPONENT



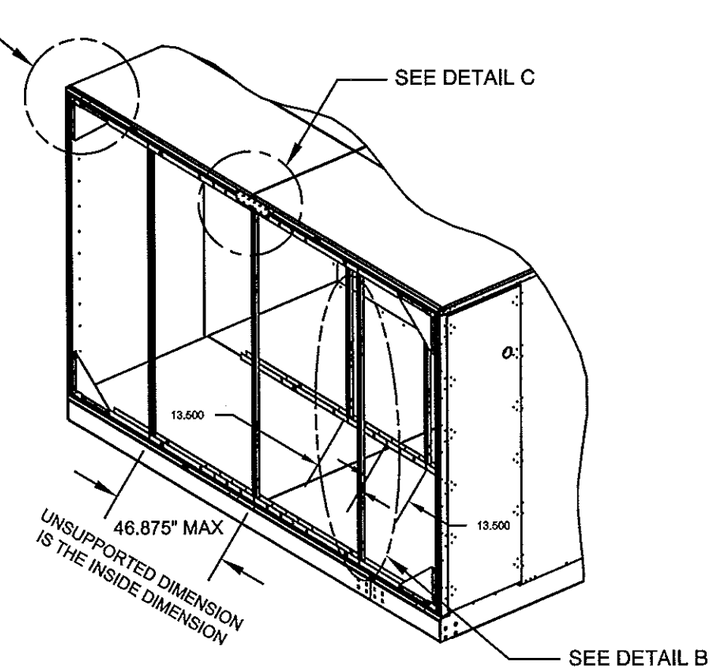
DETAIL C. DISCONNECT HANDLE

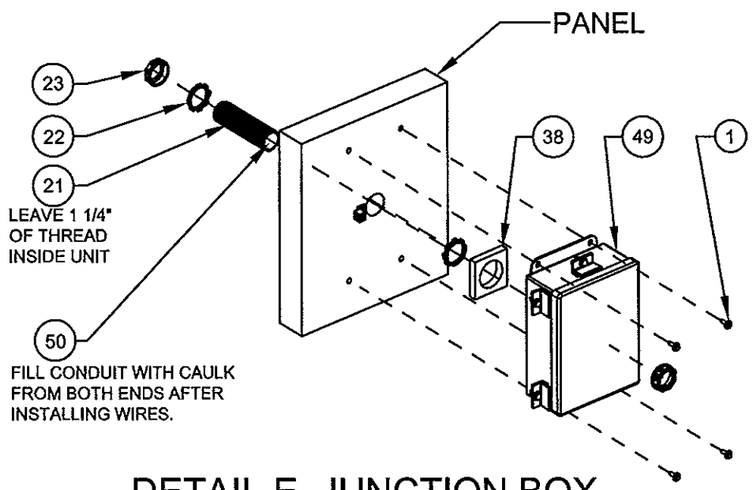
BUILD GROUP / SHIPPING SPLIT CONSTRUCTION
DETAILS FOR STANDARD UNIT

NOTES:
1. GUSSETS ARE APPLIED ON 1ST LEVEL ONLY.

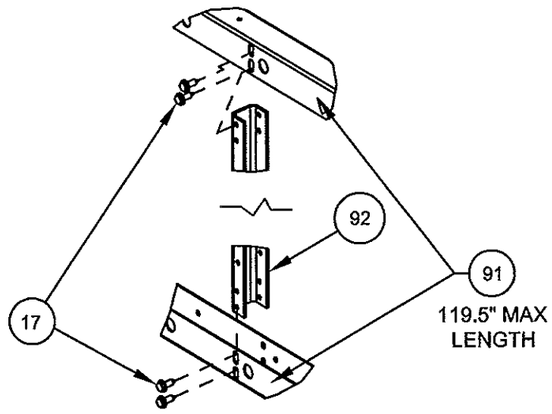


DETAIL A
GUSSET INSTALL

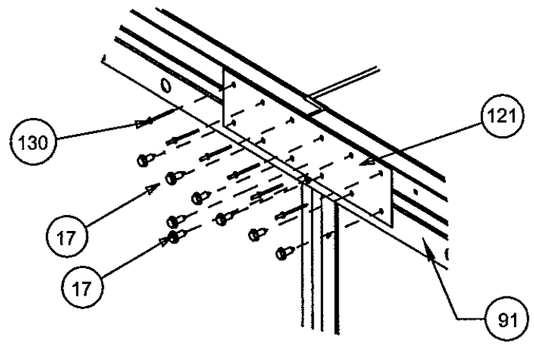




DETAIL E. JUNCTION BOX
(TESTED WITH SIZE 50)



DETAIL B
SHIP SPLIT VERT. CHANNEL INSTALL



DETAIL C
SPLICE PLATE INSTALL

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NOA# 12-0629.03
Miami Dade Product Control
By

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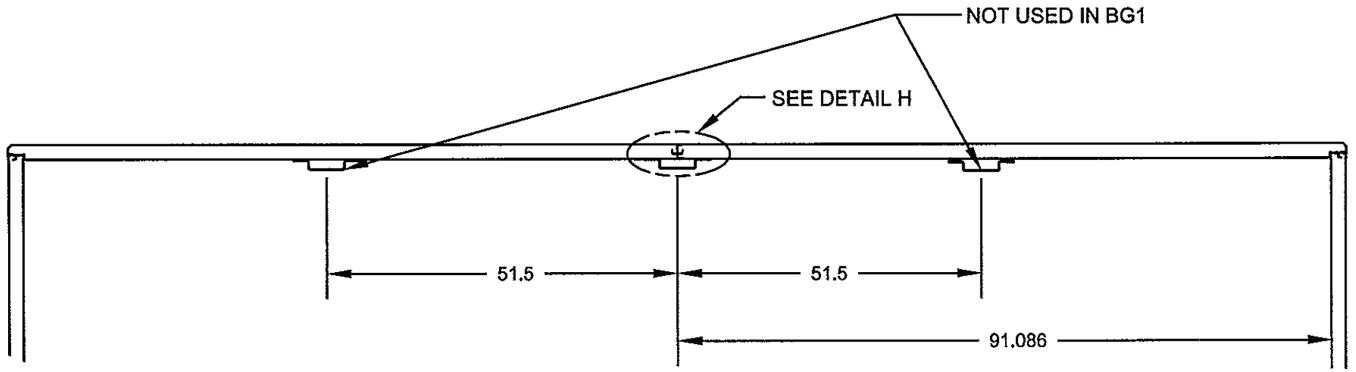
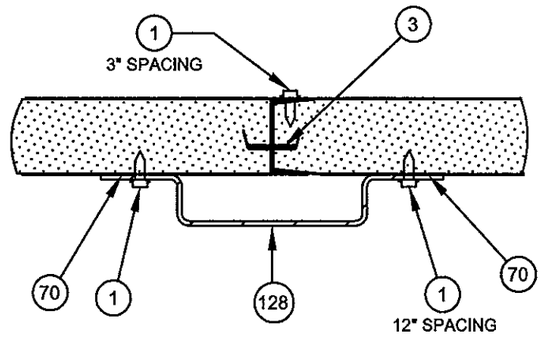
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 18 OF 41 / SECTION			MOCK UPDWG SHEET REF: 2, 7, 29 OF 50	SCALE: NTS	DATE 10-SEP-2013

ROOF PANEL CONSTRUCTION (CROSS SECTION)

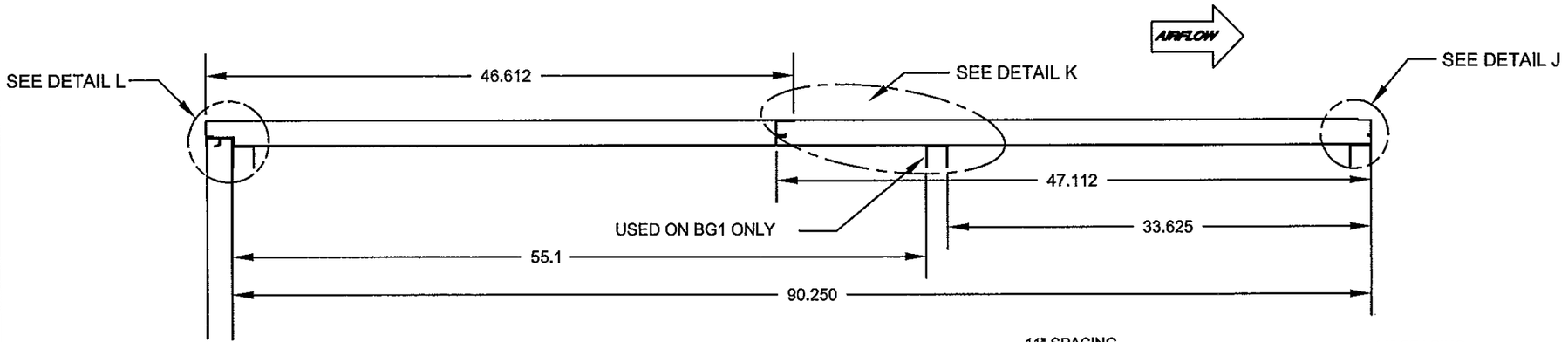
AIR FLOW DIRECTION IS INTO THE PAGE

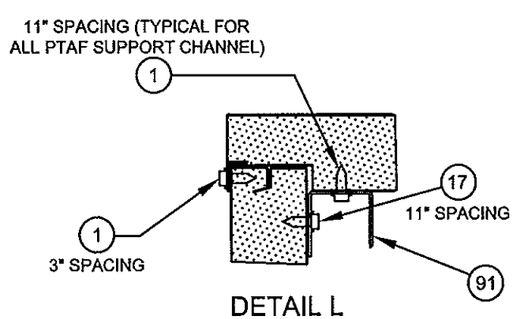




DETAIL H

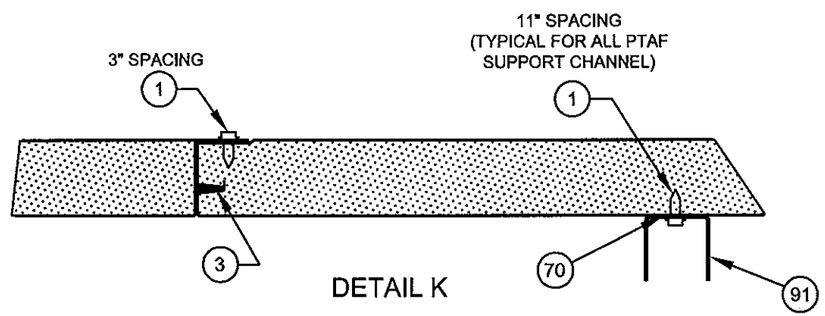
ROOF PANEL CONSTRUCTION (CROSS SECTION)





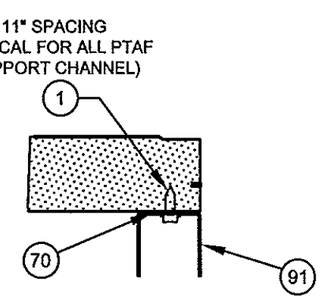
DETAIL L

PTAF SUPPORT CHANNEL ON EOU AND ROOF JOIN



DETAIL K

ITEM 91, PTAF SUPPORT CHANNEL ON THE ROOF (REPRESENTING ATTACHMENT OF INTERNAL COMPONENTS) NOT APPLICABLE TO BG 2



DETAIL J

ITEM 91, PTAF SUPPORT CHANNEL AT SHIPPING SPLIT

Approved as complying with the Florida Building Code
Date 11/21/2013
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Miami Dade Product Control
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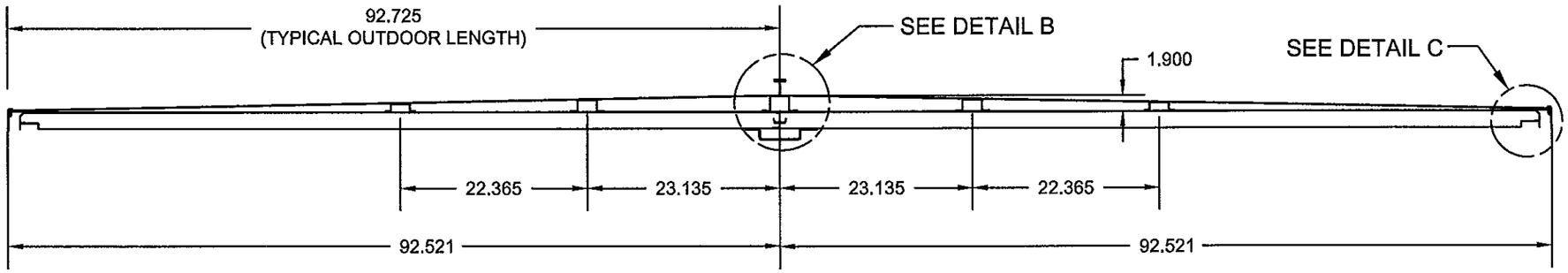
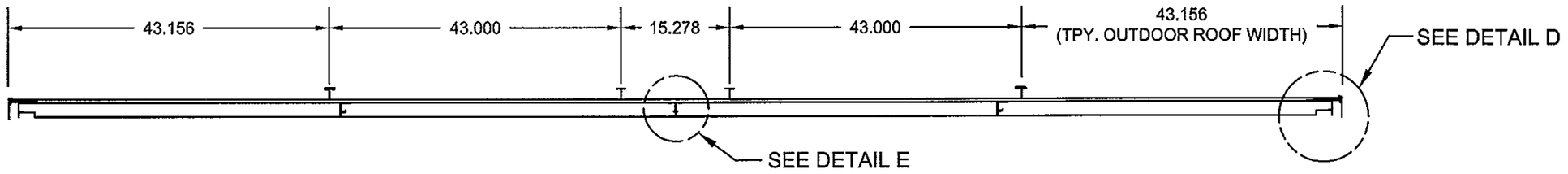
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 19 OF 41 / SECTION			MOCK UPDWG SHEET REF: 25, 26 OF 50	SCALE: NTS	DATE 10-SEP-2013

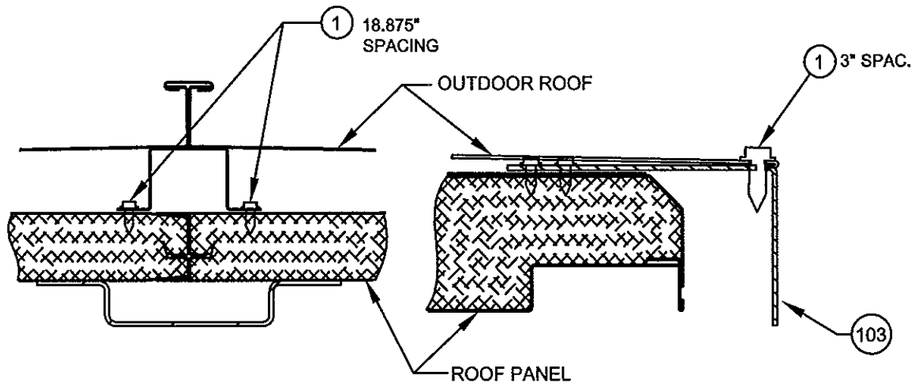
OUTDOOR ROOF TO ROOF PANEL



SECTION B-B
(ROOF PANEL WITH OUTDOOR ROOF)

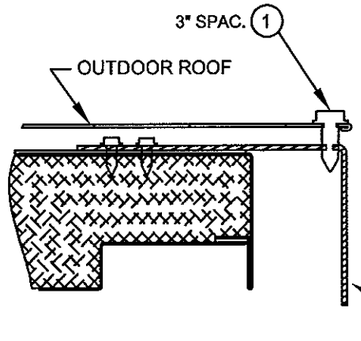


SECTION A-A
(ROOF PANEL WITH OUTDOOR ROOF)

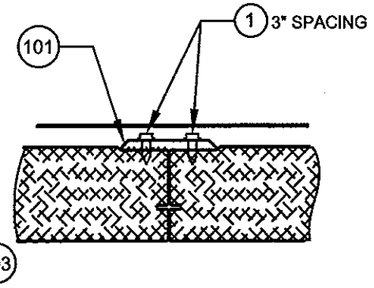


DETAIL B

DETAIL C



DETAIL D



DETAIL E
(TYPICAL SHIPPING SPLIT JOIN)

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NOA# 12-0629.03
Miami-Dade Product Control
By

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5358 SW 32ND TERRACE
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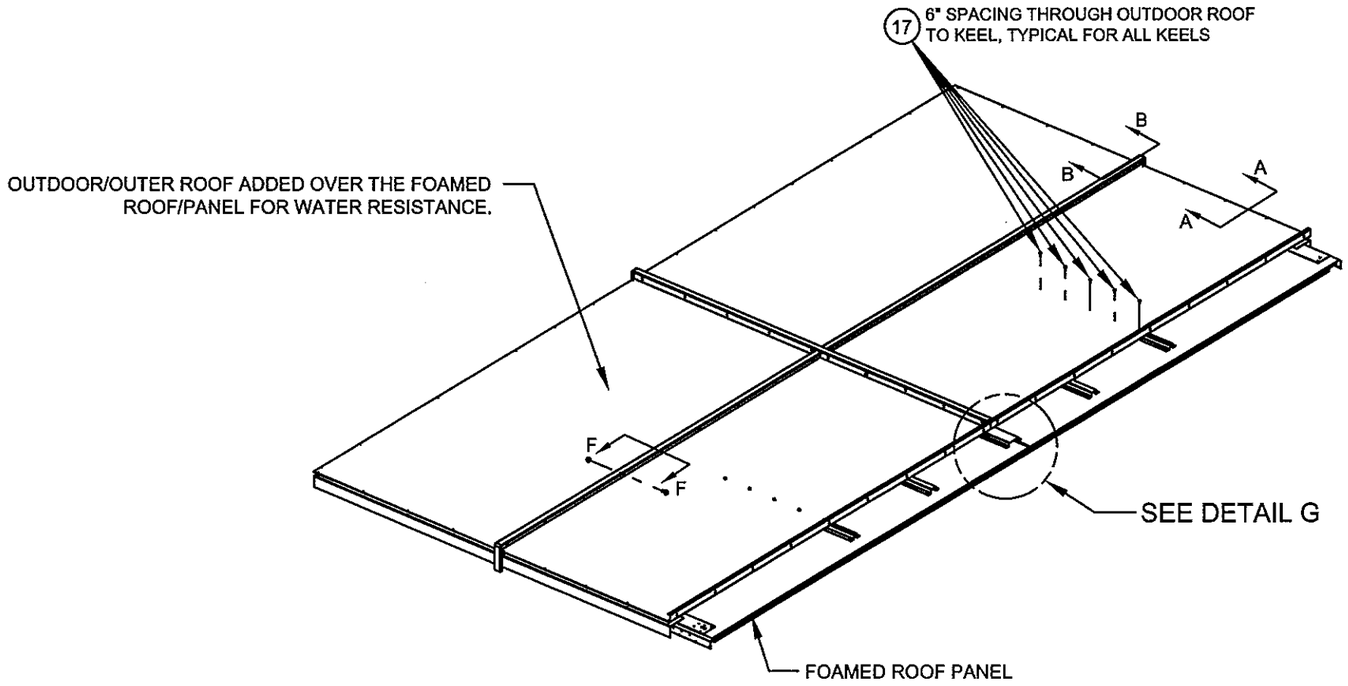
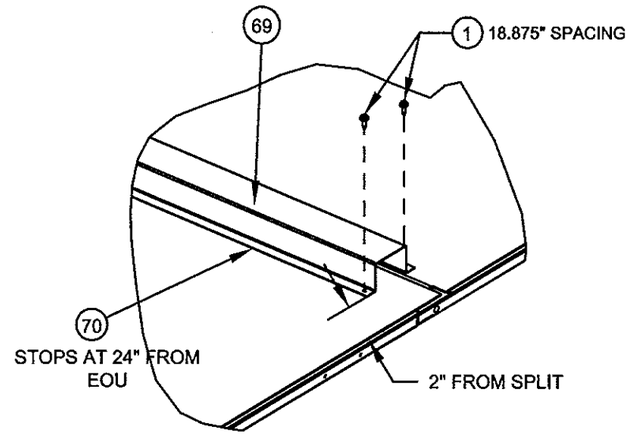
NOV 05 2013

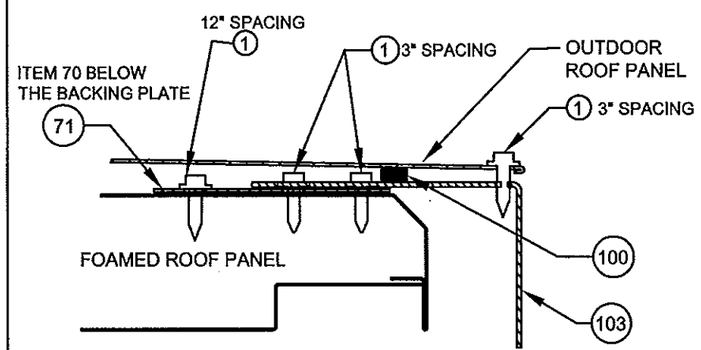
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 20 OF 41 / SECTION			MOCK UPDWG SHEET REF: 24 OF 50	SCALE: NTS	DATE 10-SEP-2013

OUTDOOR ROOF DETAILS

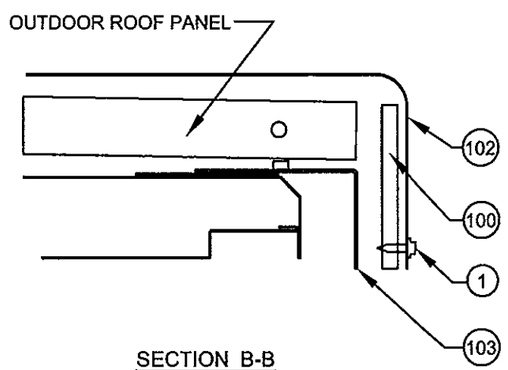




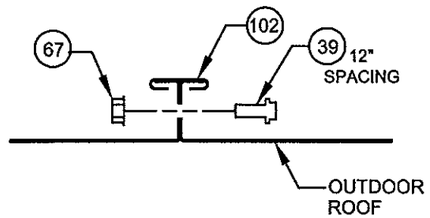
DETAIL G



SECTION A-A



SECTION B-B



SECTION F-F

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Miami Dade Product Control
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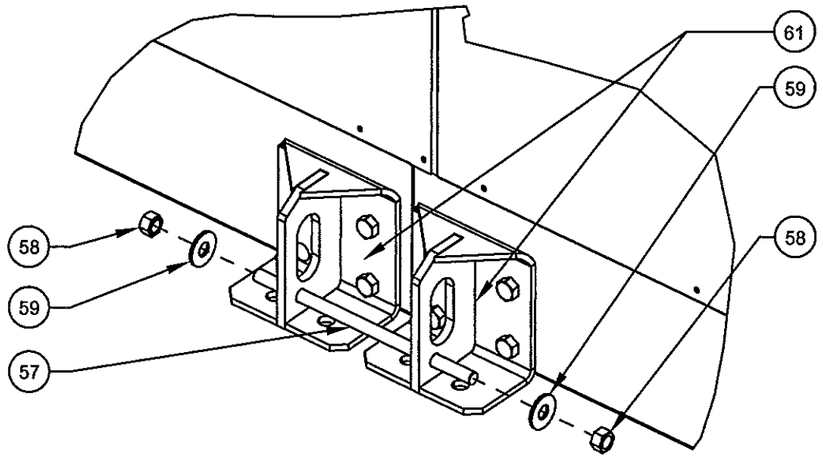
NOV 05 2013

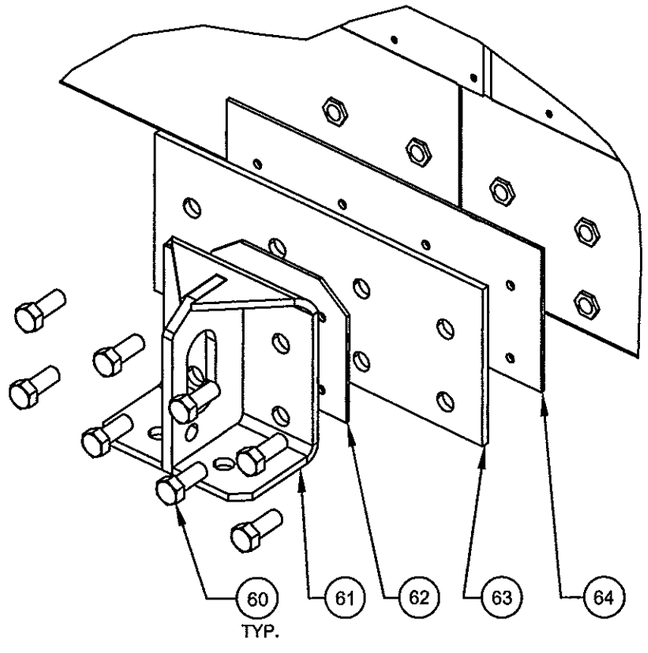
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 21 OF 41 / SECTION			MOCK UPDWG SHEET REF: 20, 22-23 OF 50	SCALE: NTS	DATE 10-SEP-2013

BUILD GROUP/ SHIPPING SPLIT JOIN DETAILS AT THE BASE RAIL.

USE THREADED ROD TO PULL AND HOLD THE BUILD GROUPS TOGETHER.



IF A SPLICE PLATE IS PREFERRED, REMOVE LIFTING LUGS AND INSTALL SPLICE PLATE TO HOLD THE BUILD GROUP BASES TOGETHER. IF A LUG IS REQUIRED AT THAT LOCATION, IT SHALL BE CENTERED ON THE SPLICE PLATE.



NOTES:
1. SECTIONS / BUILDGROUPS PULLED TOGETHER WITH THREADED ROD.

2. IF NEEDED, THIS CAN BE WITH ITEM 63 OR LEAVE IT AS IS WITH THREADED ROD.

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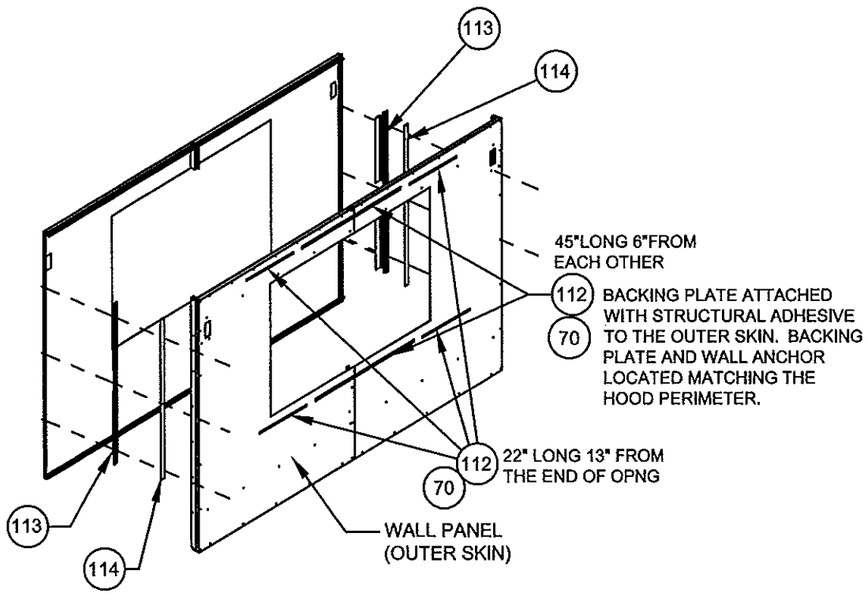
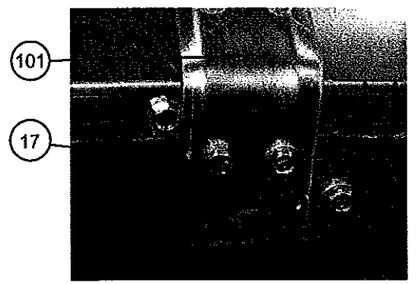
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 06 2013

DRAWING # AIRS0704		DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 22 OF 41	SECTION			MOCK UPDWG SHEET REF: 39 OF 50	SCALE: NTS	DATE 10-SEP-2013

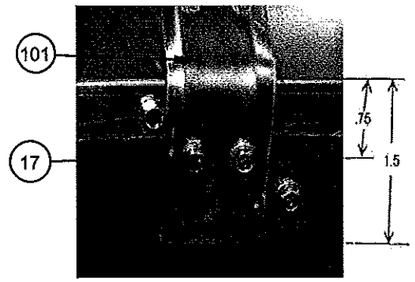
HOOD ATTACHMENT FEATURES

NOTES;
1. ALL L ANGLES ARE FASTENED AND GLUED TO PANELS PRIOR TO ATTACHING THEM TO THE A FRAME SUBASSEMBLY.
2. L ANGLE ATTACHED TO THE PANELS WITH 1/4" SCREWS, AT 18" MAX SPACING.
3. TOP PANELS ATTACHED TO EACH OTHER WITH 4 SCREWS AT 11" O.C.
4. HOOD STRAP: 53" LONG FOR FRONT/BACK HOOD, AND 67" LONG FOR SIDE HOOD.

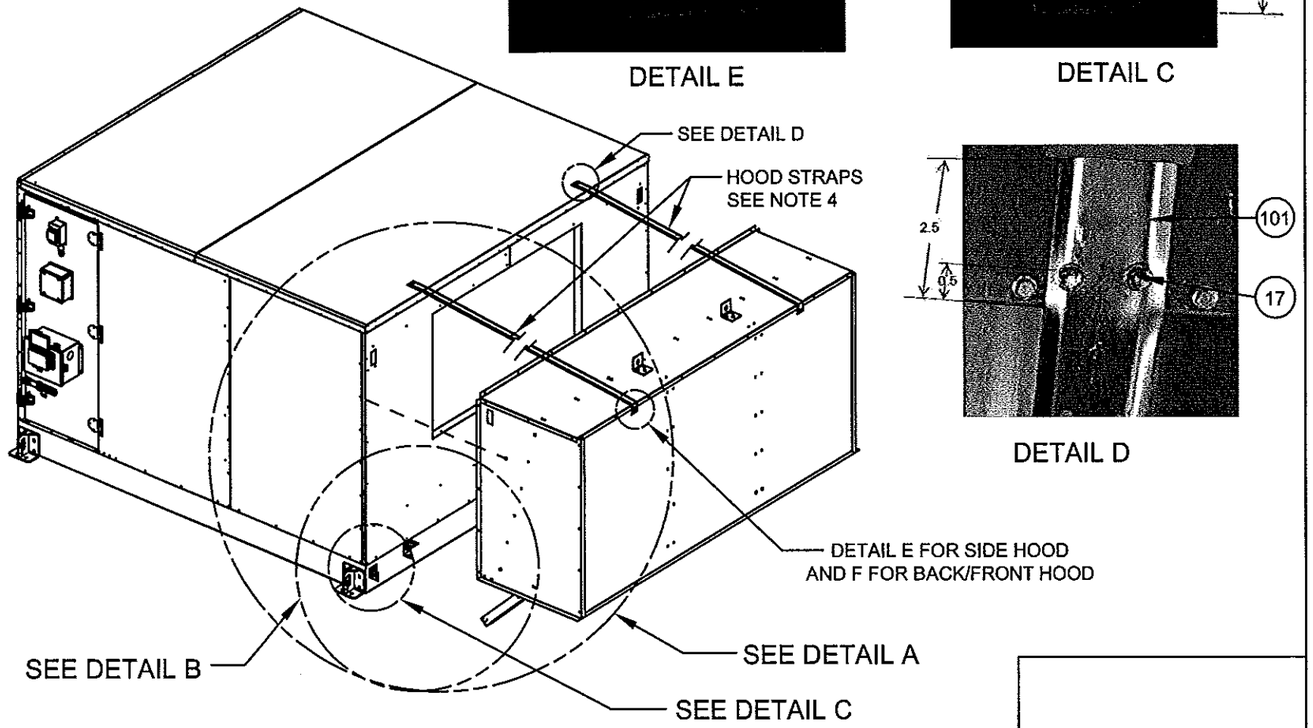




DETAIL E

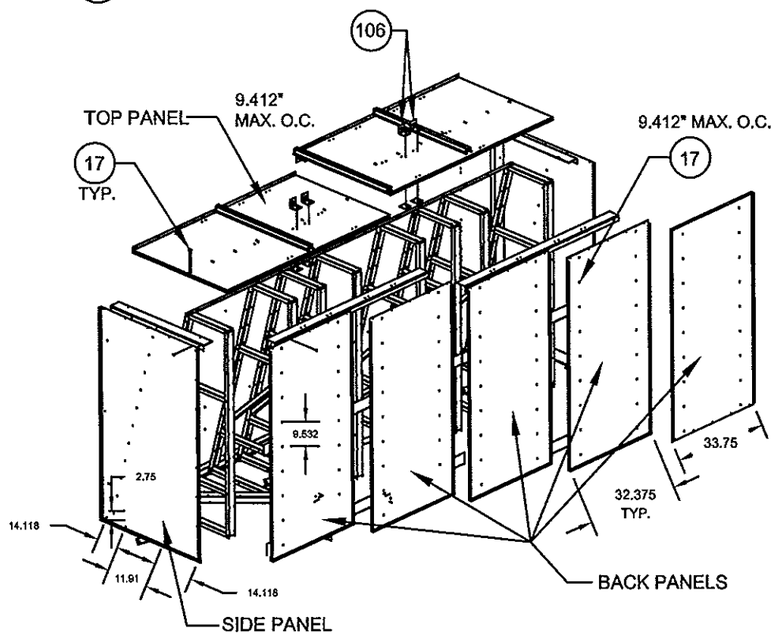


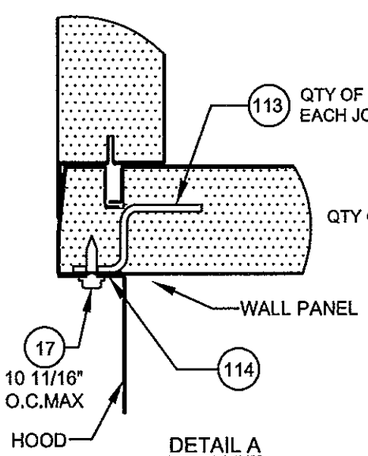
DETAIL C



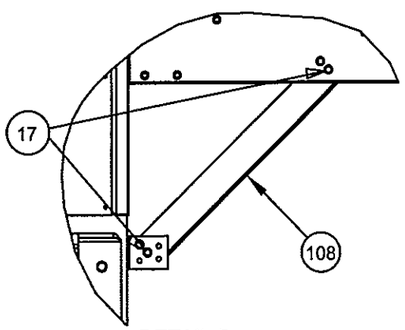
HOOD ATTACHMENT

DETAIL D

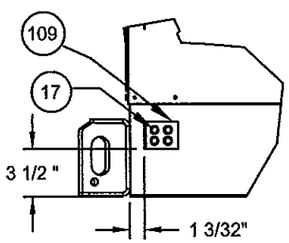




DETAIL A



DETAIL B
(QTY 4 FOR BACK /FRONT HOOD
QTY 2 FOR SIDE HOOD
EXCLUDE GAS HEAT INLET HOOD)



DETAIL C

Approved as complying with the Florida Building Code
Date 11/21/2013
NOA# 12-0629.03
Miami Dade Product Control
By

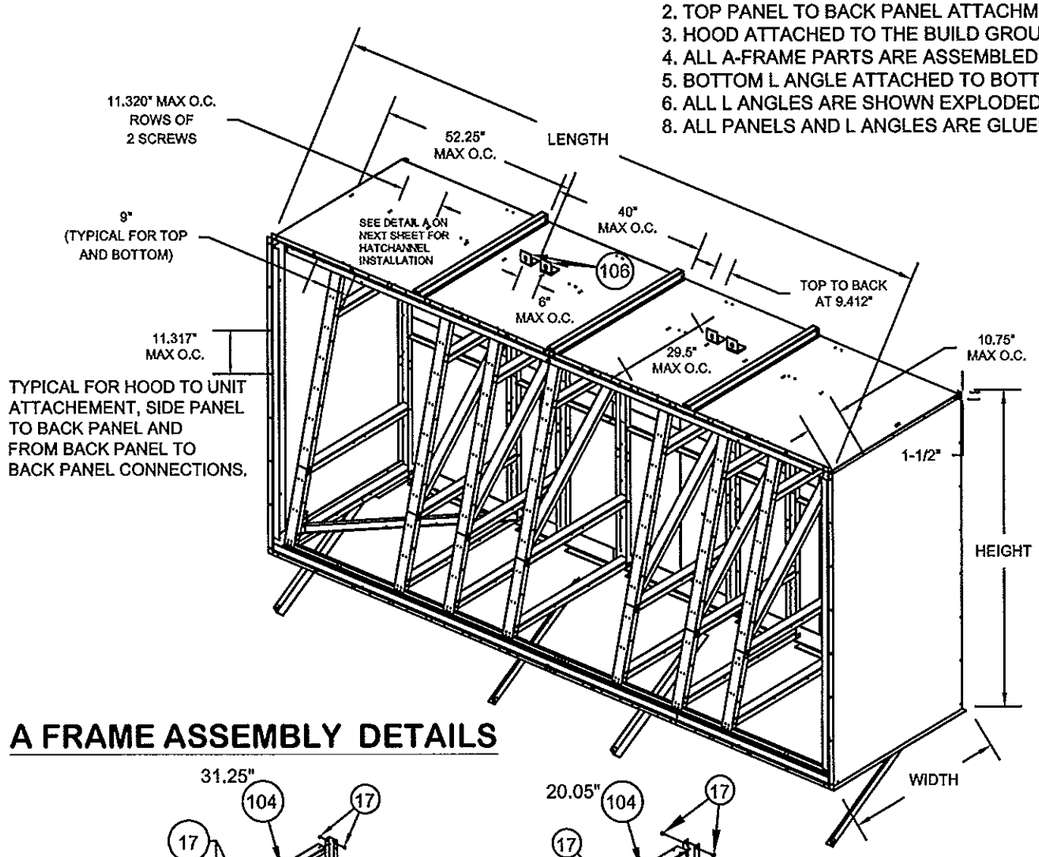
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 06 2013

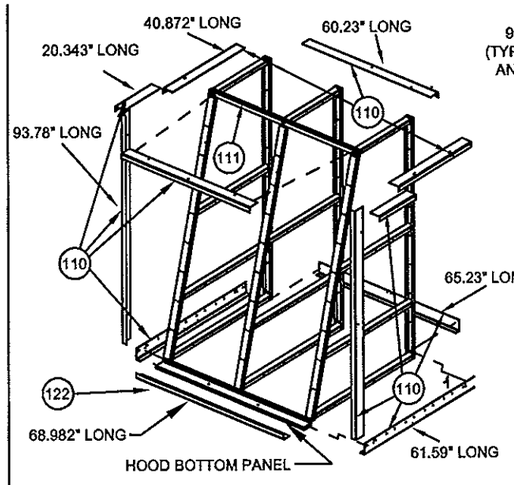
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 23 OF 41 / SECTION			MOCK UPDWG SHEET REF: 35-37 OF 50	SCALE: NTS	DATE 10-SEP-2013

HOOD ASSEMBLY DETAILS

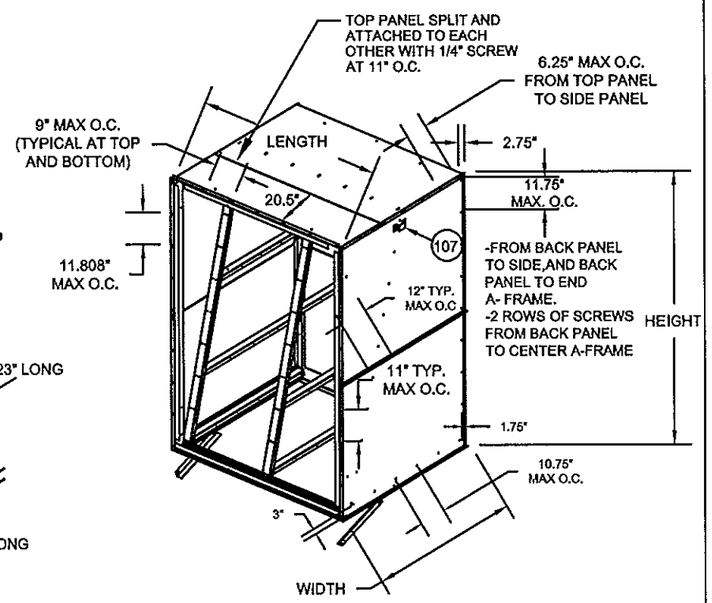
NOTES:
1. ALL METAL SKINS ARE ATTACHED WITH SCREW 0.25-14 x .75 SELF DRILLER.
2. TOP PANEL TO BACK PANEL ATTACHMENT USED 0.25-14 X 1.5 SELF DRILLER.
3. HOOD ATTACHED TO THE BUILD GROUP USING 0.25-14 X 0.75 SELF DRILLER.
4. ALL A-FRAME PARTS ARE ASSEMBLED WITH 0.25-14 X 0.75 SELF DRILLER.
5. BOTTOM L ANGLE ATTACHED TO BOTTOM PANEL WITH ITEM 17 AT 12" O.C.
6. ALL L ANGLES ARE SHOWN EXPLODED FOR DIMENSIONING PURPOSES.
8. ALL PANELS AND L ANGLES ARE GLUED TO EACH OTHER AND TO THE A FRAME.

HOOD DESCRIPTION	LENGTH	WIDTH	HEIGHT
BACK/FRONT HOOD	167 1/4"	47 1/16"	83 1/2"
SIDE HOOD	62 15/16"	72 1/4"	101 3/4"

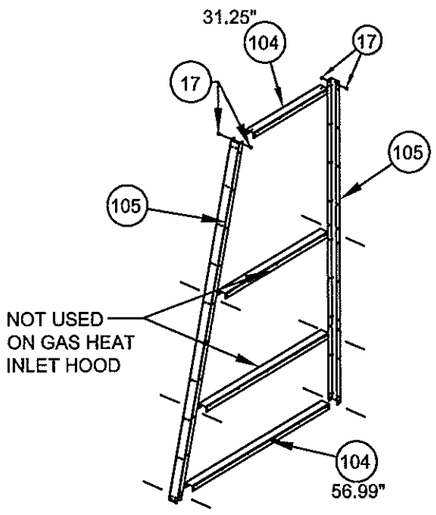




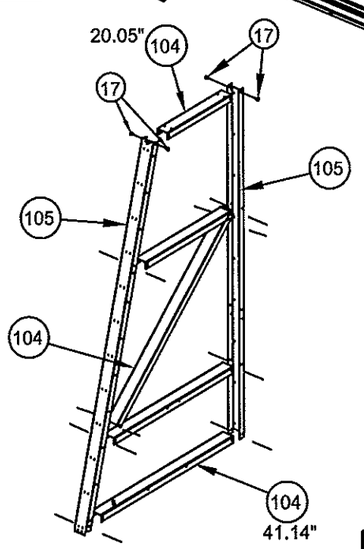
SIDE HOOD



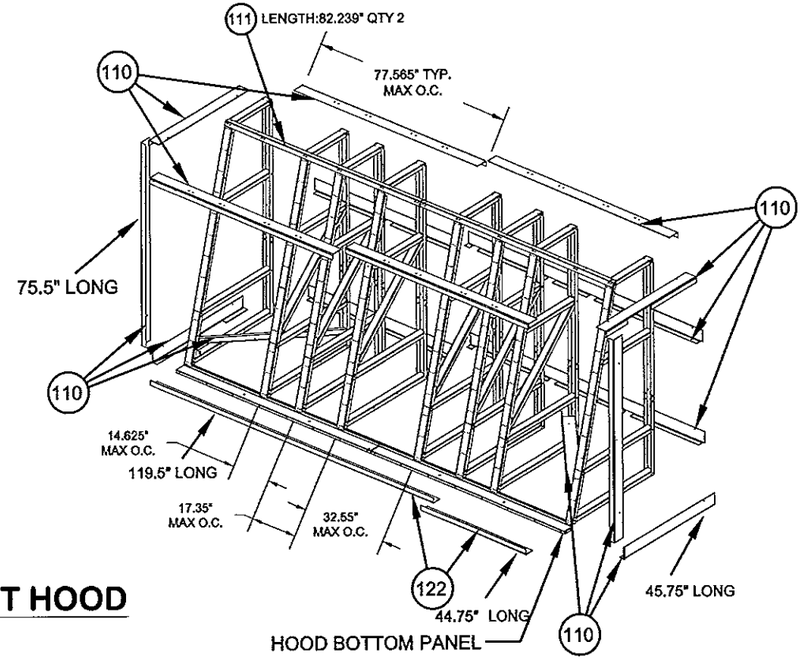
A FRAME ASSEMBLY DETAILS



SIDE HOOD



FRONT/BACK HOOD



BACK / FRONT HOOD

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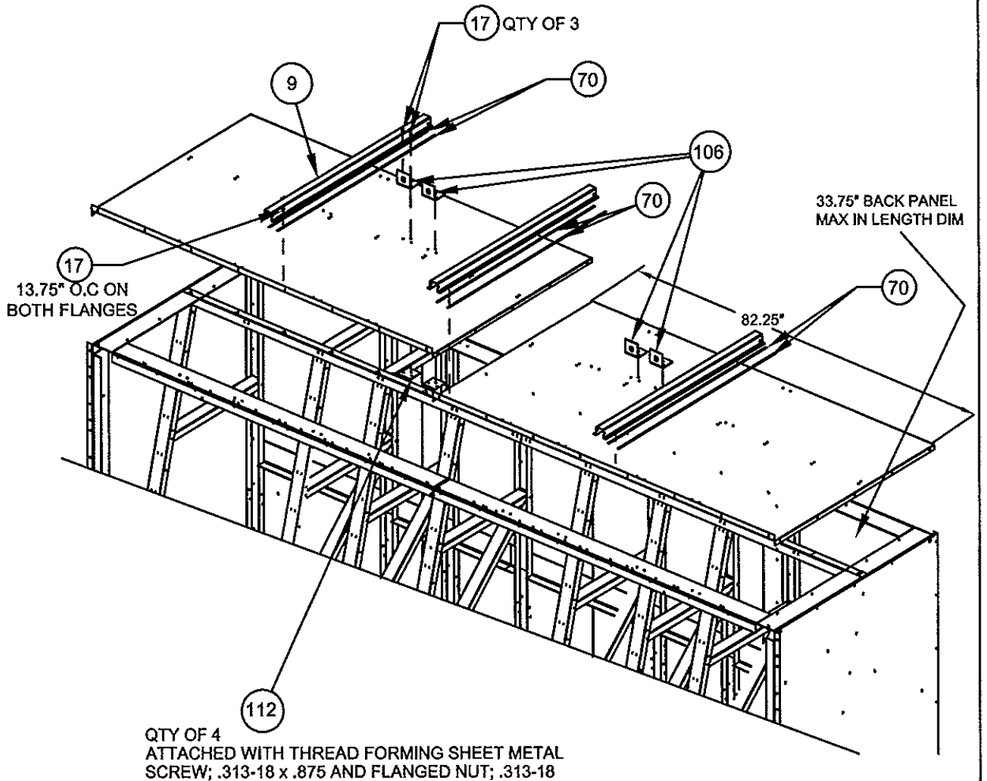
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 24 OF 41	SECTION		MOCK UPDWG SHEET REF: 43 OF 63 31-36 OF 50	SCALE: NTS	DATE 10-SEP-2013

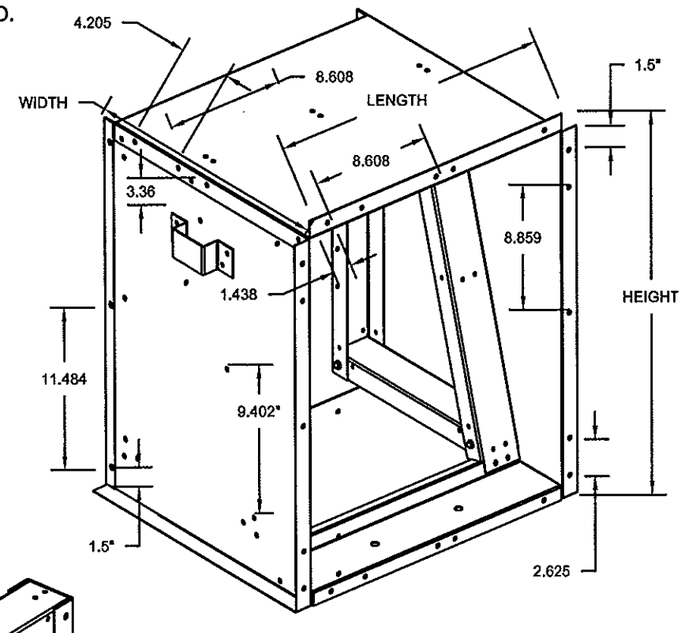
DETAIL A

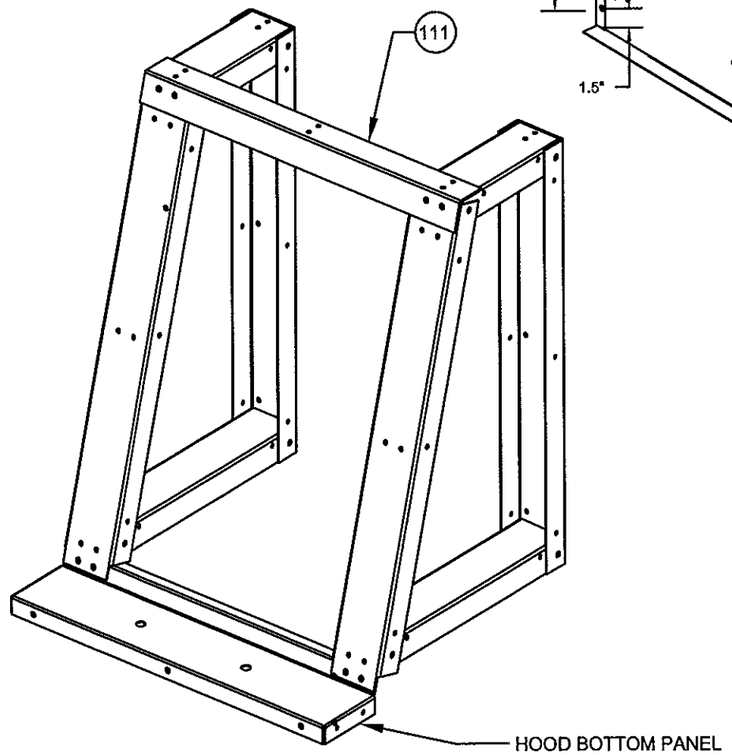
LIFTING LUG AND SUPPORT CHANNEL (HAT CHANNEL) INSTALLATION



GAS HEAT INTAKE HOOD ASSEMBLY DETAILS
(TESTED WITH SIZE 50)

NOTES:
1. SKINS ARE ADHERED WITH STRUCTURAL GLUE.
2. ALL METAL SKINS ARE ATTACHED WITH 1/4" SCREWS.
3. ALL A-FRAME PARTS ARE ASSEMBLED WITH 1/4" SCREWS.
4. NO BACKING PLATE REQUIRED WHEN INLET IS ATTACHED TO DOOR.
5. NO ITEM 110 (L ANGLE) USED FOR THIS HOOD.





A FRAME ASSEMBLY

HOOD DESCRIPTION	LENGTH	WIDTH	HEIGHT
GAS HEAT INLET HOOD	22.780"	19.646"	27.250"

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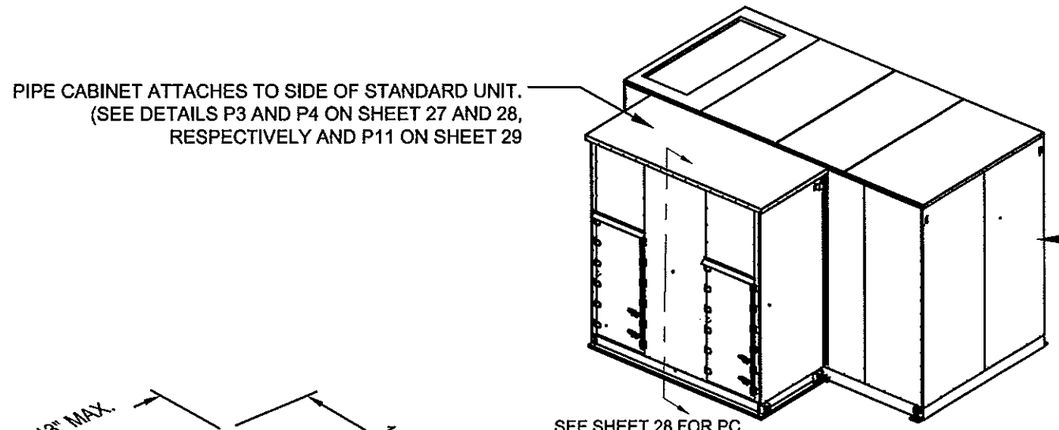
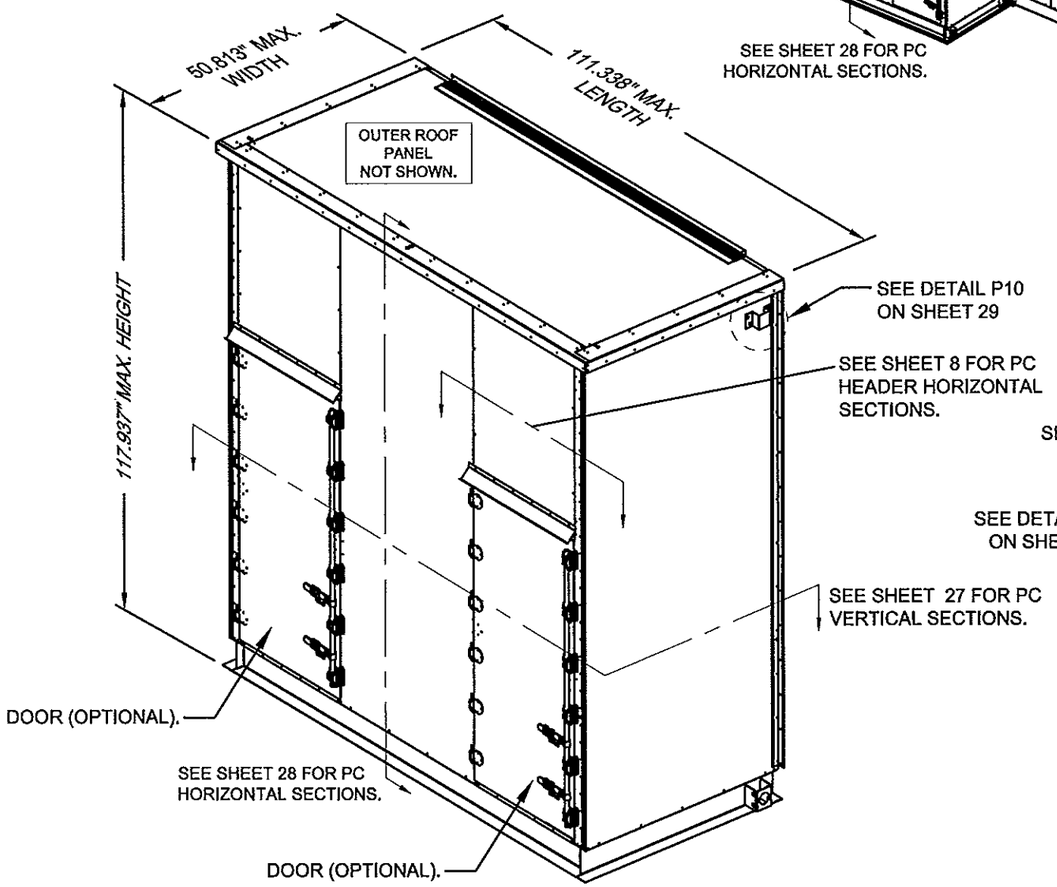
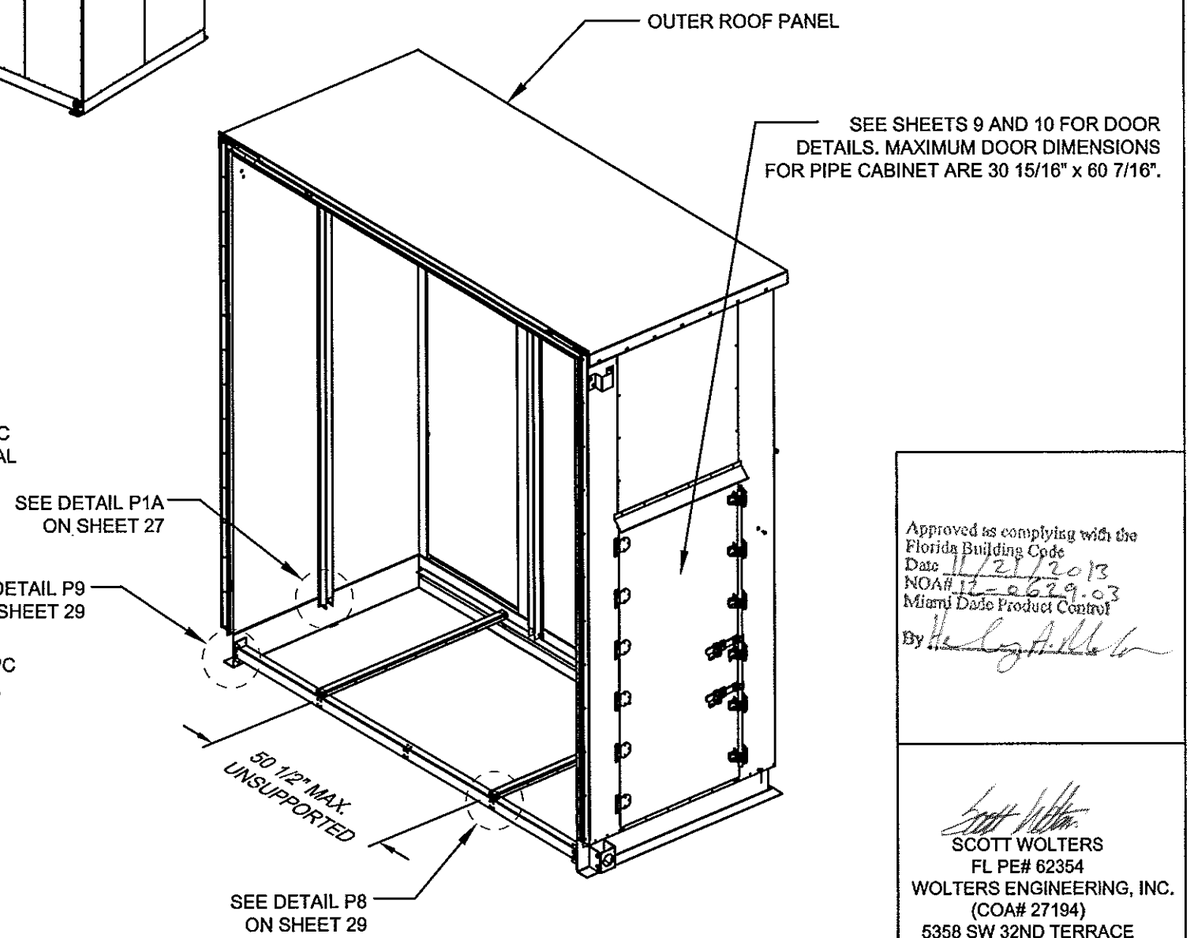
NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 25 OF 41 / SECTION			MOCK UPDWG SHEET REF: 35,36 OF 50 AND 47 OF 63 STACK 50 DWG	SCALE: NTS	DATE 10-SEP-2013

PIPE CABINET







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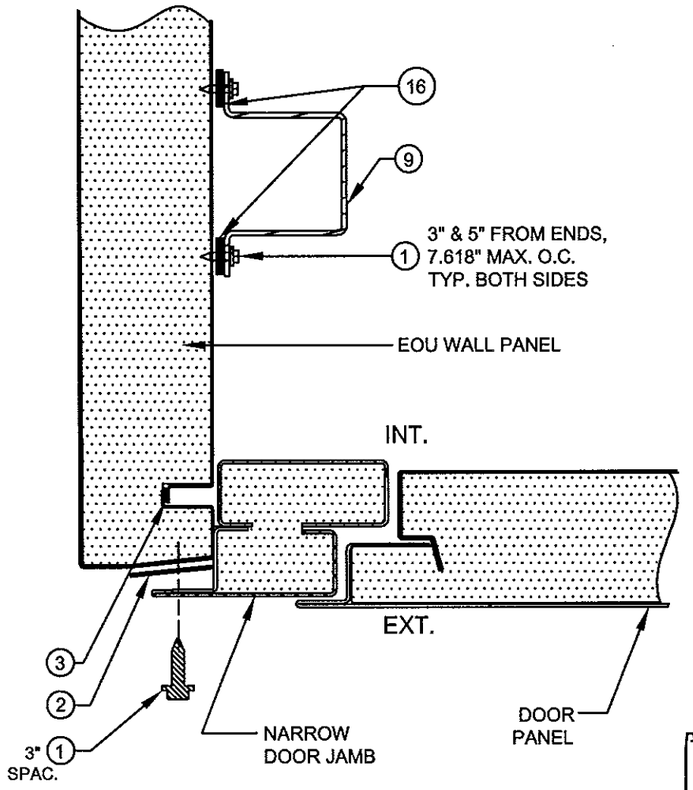
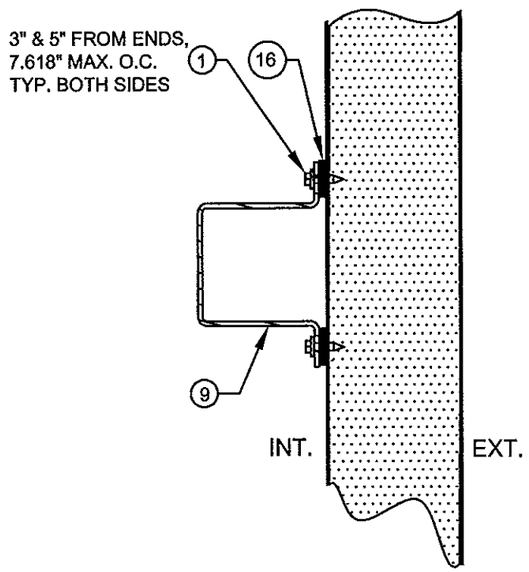
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 26 OF 41 / SECTION			MOCK UPDWG SHEET REF: 1, 2, 4, 5 OF 19	SCALE: NTS	DATE 10-SEP-2013

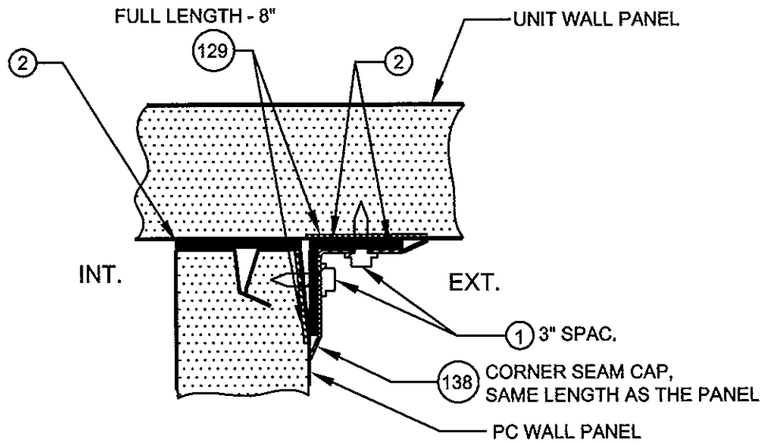
PIPE CABINET DETAILS



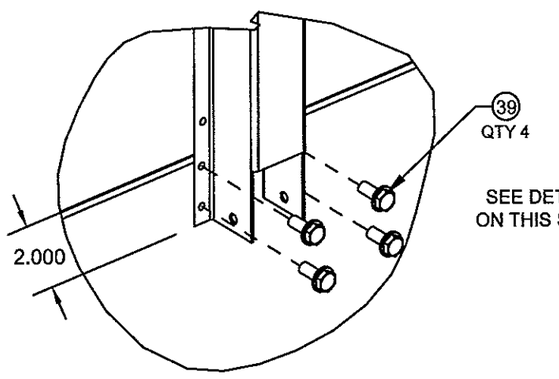
DETAIL P1. DOOR TO EOU



DETAIL P2. HAT CHANNEL TO WALL



DETAIL P3. PC WALL TO UNIT WALL



DETAIL P1A.
(HAT CHANNEL ATTACHED TO BASE RAIL)

NOTES:
1. DOORS ARE OPTIONAL .

PC VERTICAL SECTIONS

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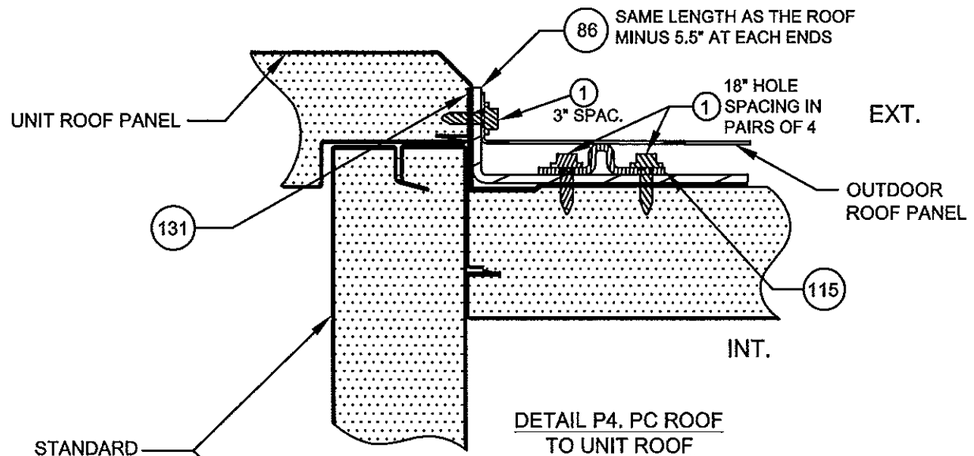
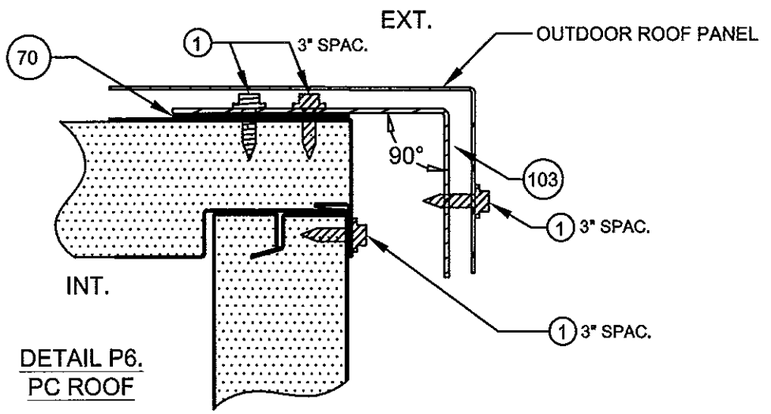
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 27 OF 41 / SECTION			MOCK UPDWG SHEET REF: 3, 7 OF 19	SCALE: NTS	DATE 10-SEP-2013

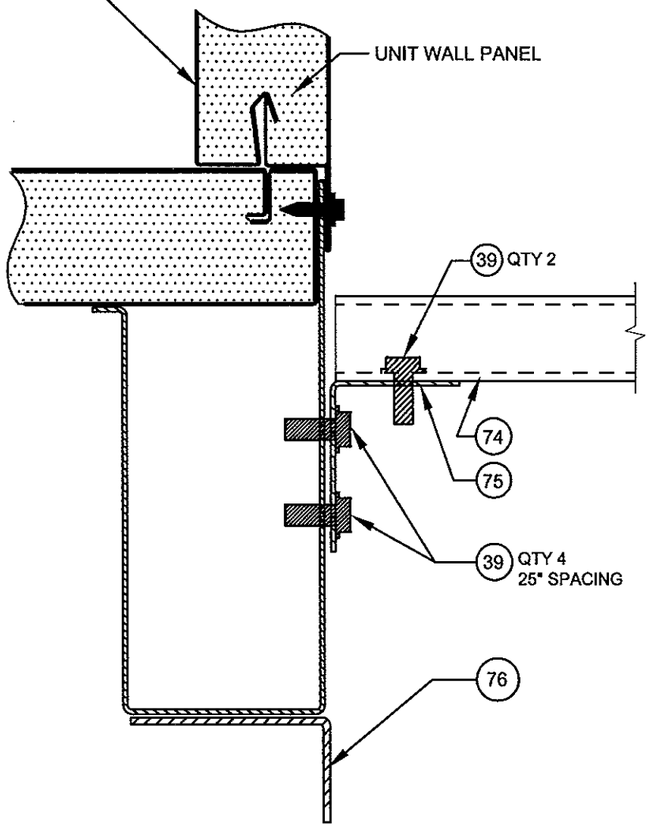
PIPE CABINET DETAILS



DETAIL P4. PC ROOF
TO UNIT ROOF

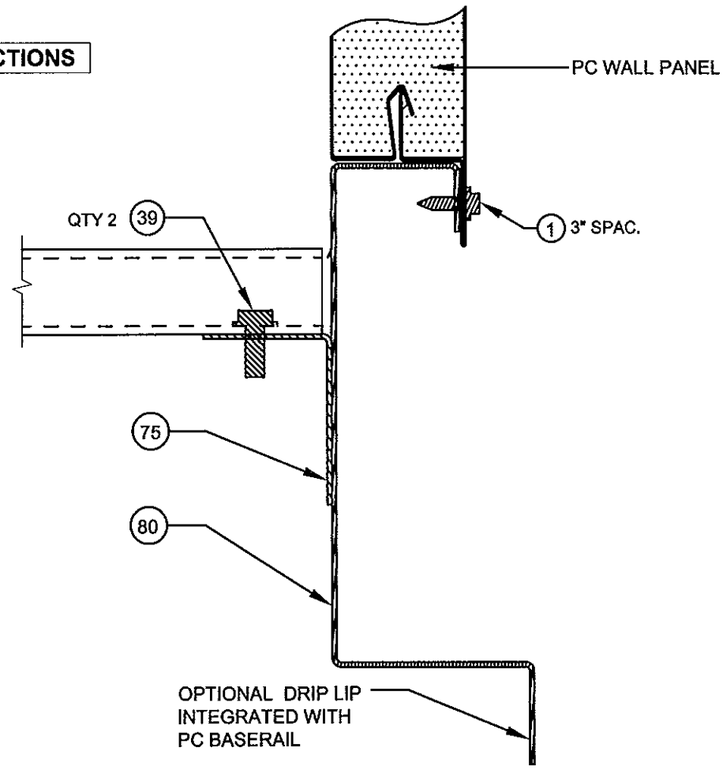


DETAIL P6.
PC ROOF



DETAIL P5. PC TO UNIT BASE

PC HORIZONTAL SECTIONS



DETAIL P7. PC BASE

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Miami Dade Product Control
By

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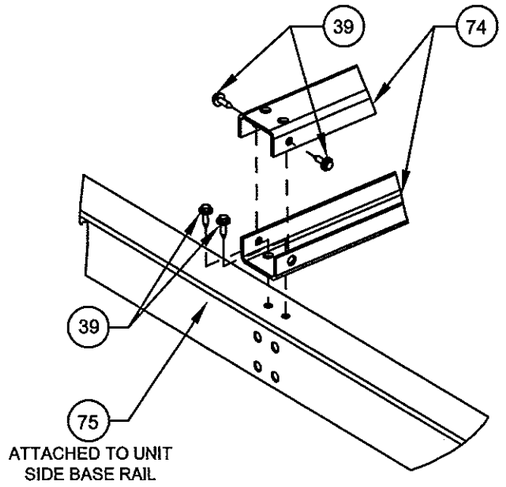
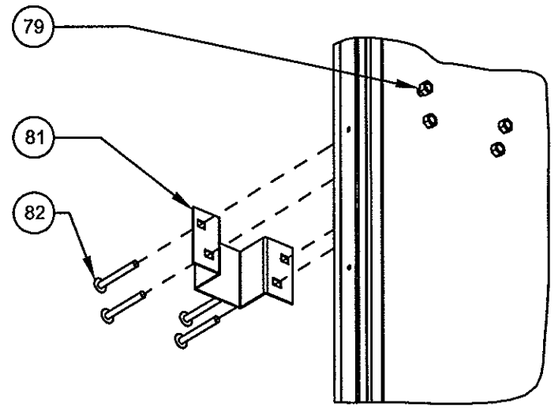
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 28 OF 41 / SECTION			MOCK UPDWG SHEET REF: 11, 12 OF 19	SCALE: NTS	DATE 10-SEP-2013

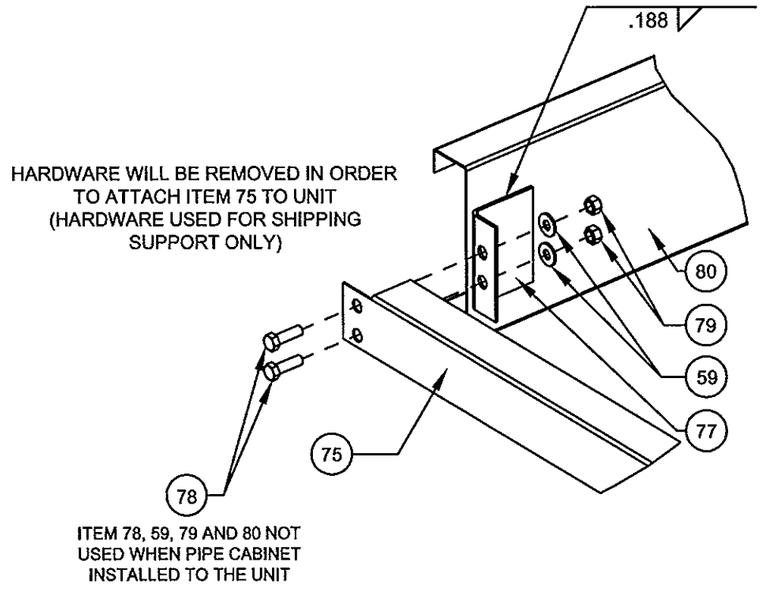
PIPE CABINET DETAILS



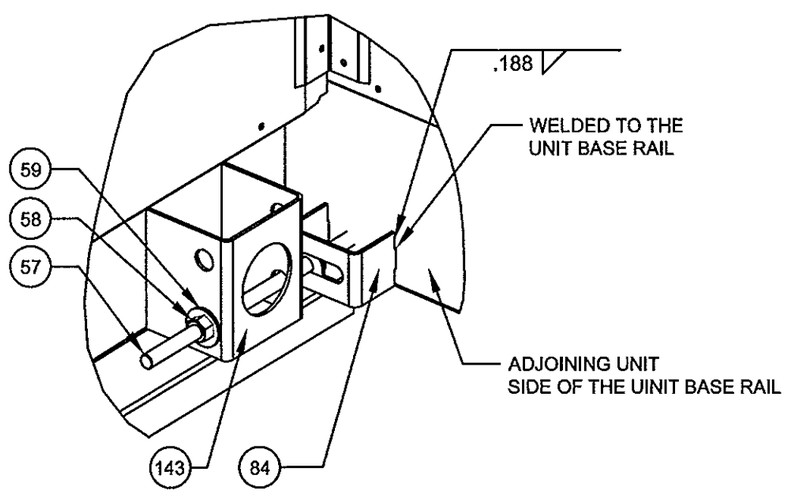
DETAIL P8. MULLION ASSEMBLY ATTACHMENT



DETAIL P10. CHAIN GUIDE/GUARD ATTACHMENT



DETAIL P9. SHIPPING CORNER



DETAIL P11. LUG CONNECTION

Approved as complying with the
Florida Building Code
Date 1/28/2013
NOA# 12-0629.03
Miami Dade Product Control
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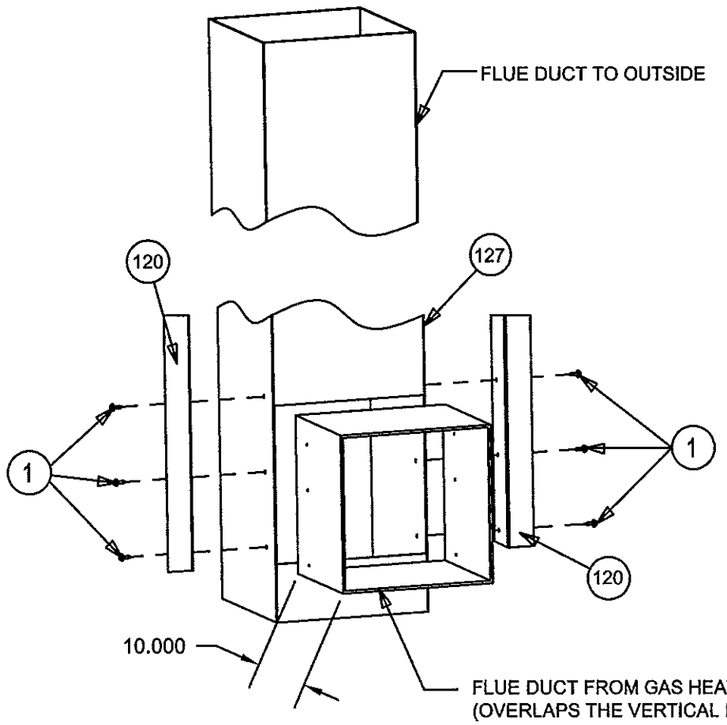
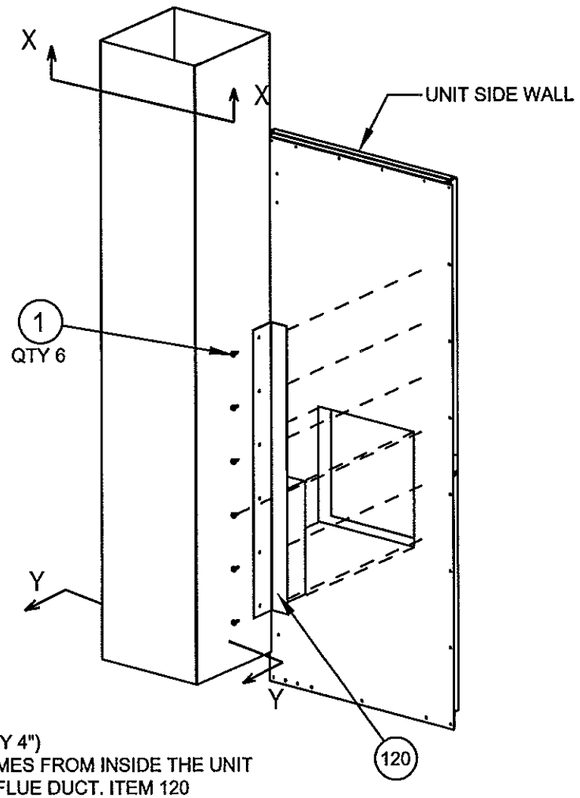
NOV 06 2013

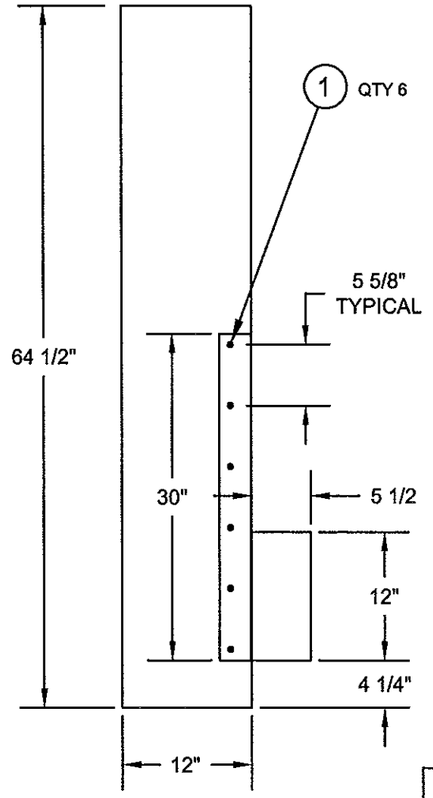
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 29 OF 41 / SECTION			MOCK UPDWG SHEET REF: 3, 6 OF 19	SCALE: NTS	DATE 10-SEP-2013

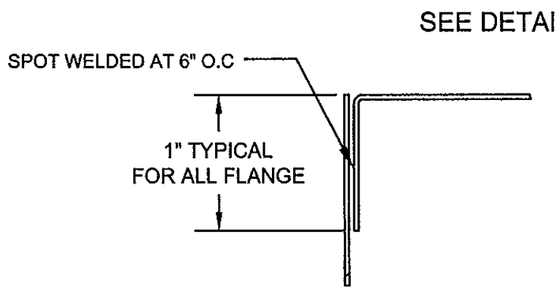
GAS HEAT FLUE DUCT DETAILS

(TESTED WITH SIZE 50)

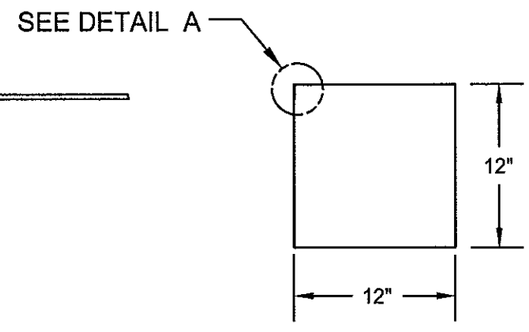




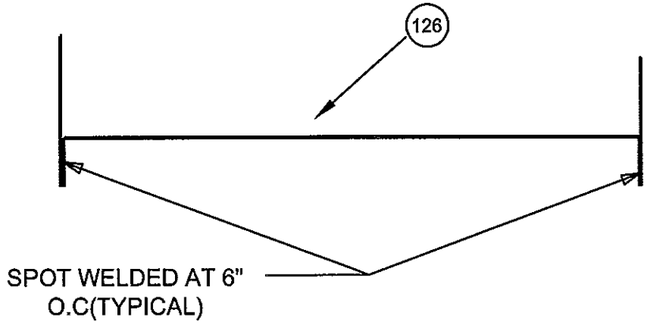




DETAIL A



SECTION X-X



SECTION Y-Y

Approved as complying with the
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Date 11/21/2013
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Miami Dade Product Control
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FL PE# 62354
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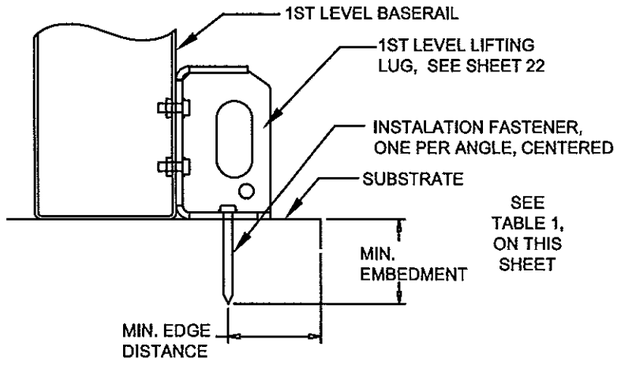
FT. LAUDERDALE, FL 33312
NOV 06 2013

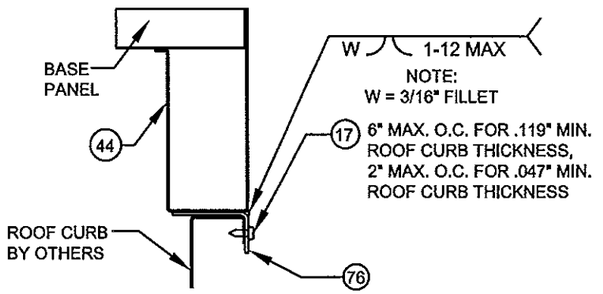
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 30 OF 41 / SECTION			MOCK UPDWG SHEET REF: 21 OF 63 50 STACK DWG	SCALE: NTS	DATE 10-SEP-2013

NOTE:
1. UNIT MAY BE INSTALLED ONTO CONCRETE (3.2 KSI MIN. COMPRESSIVE STRENGTH) OR 1/4" THICK STEEL (36 KSI MIN YIELD) SUBSTRATES WITH ANCHORS THROUGH LIFTING LUGS AND ANGLE CLIPS ATTACHED TO FIRST LEVEL BASE RAIL AS SHOWN IN THIS SHEET. UNIT MAY ALSO BE INSTALLED ONTO A 36KSI YIELD STEEL CURB BY OTHERS, WITH ITEM 17 SMS AS SHOWN IN DETAIL B. FOR PIPE CABINET ANCHORAGE SEE DETAILS P12 AND P13.

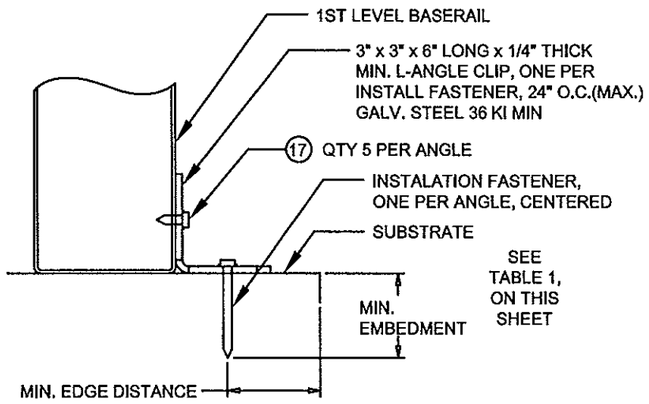
ANCHORAGE DETAILS



DETAIL A. TYPICAL ANCHORAGE AT LUGS



DETAIL B. TYPICAL INSTALLATION BASE RAIL TO CURB

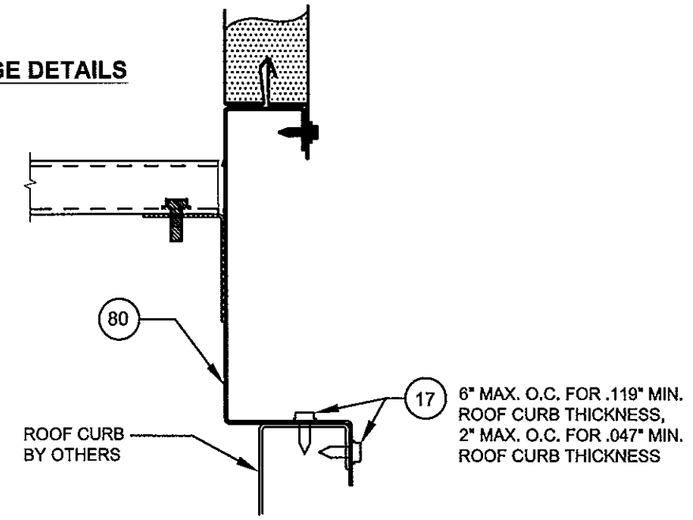


DETAIL C: TYPICAL ANCHORAGE AT ANGLE CLIPS

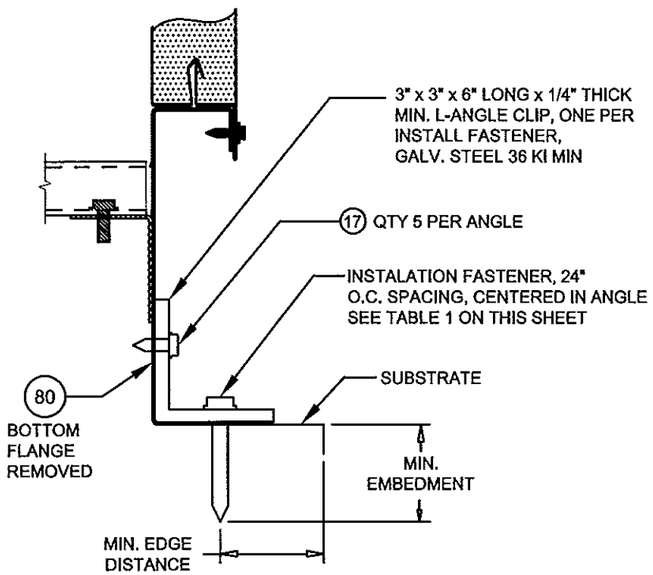
TABLE 1. INSTALLATION ANCHOR INFORMATION

ANCHOR / SUBSTRATE	MIN. EMBED.	MIN. EDGE DIST.
1/2" POWERS CHEM- STUD THREADED ROD INSTALLED WITH CHEM-STUD ADHESIVE CAPSULE IN 3.2 KSI MIN CONCRETE SUBSTRATE	1 1/2"	6"
1/2" HH. F-TYPE THREAD CUTTING SCREW INSTALLED IN 36 KSI MIN STEEL 1/4" THICK MIN. (FULL THREAD ENGAGEMENT)	1/4"	1 1/4"

PIPE CABINET ANCHORAGE DETAILS



DETAIL P12. ANCHORAGE TO ROOF CURB



DETAIL P13. DIRECT ANCHORAGE TO SUBSTRATE

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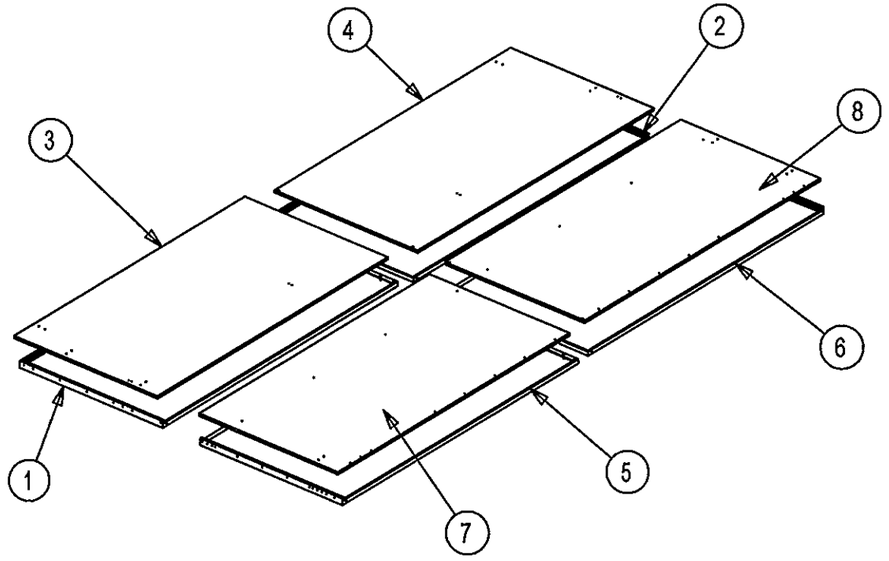
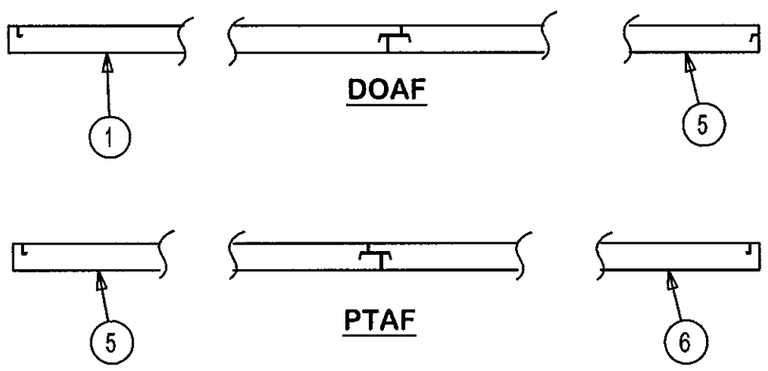
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 31 OF 41 / SECTION			MOCK UPDWG SHEET REF: ---	SCALE: NTS	DATE 10-SEP-2013

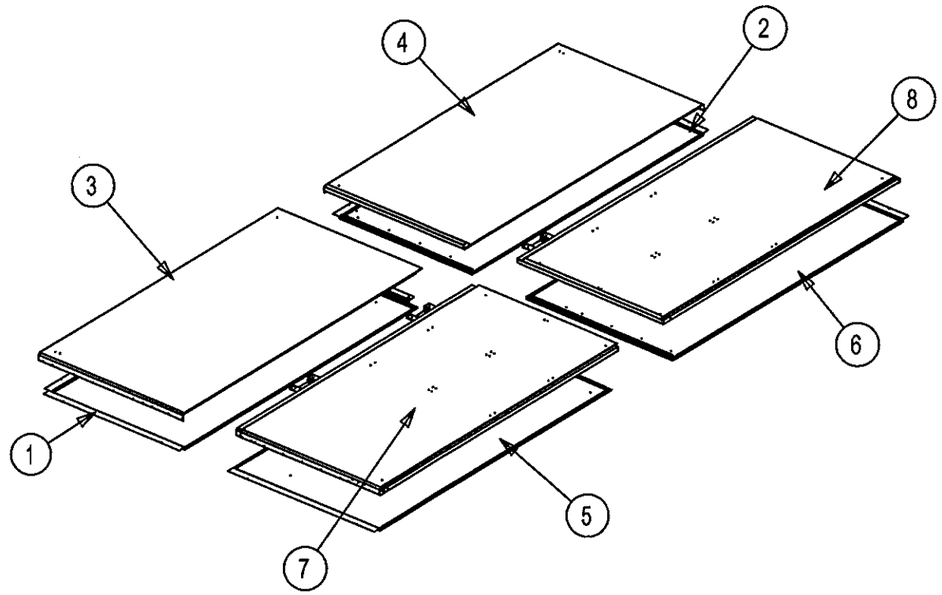
BASE PANEL



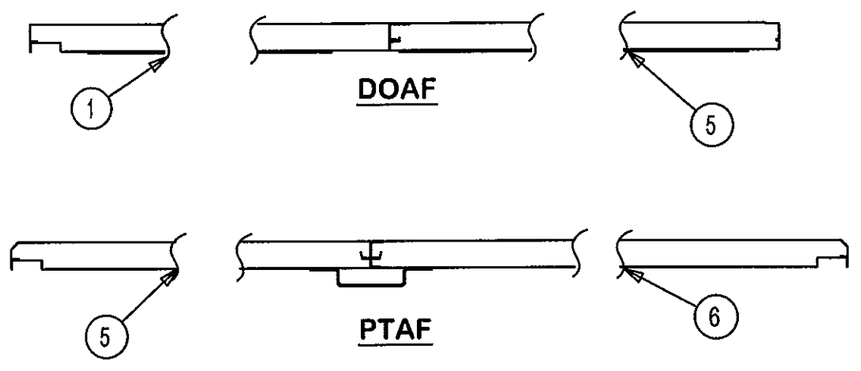
SEE DETAILS ON PAGE 33



ROOF PANEL



SEE DETAILS ON PAGE 34



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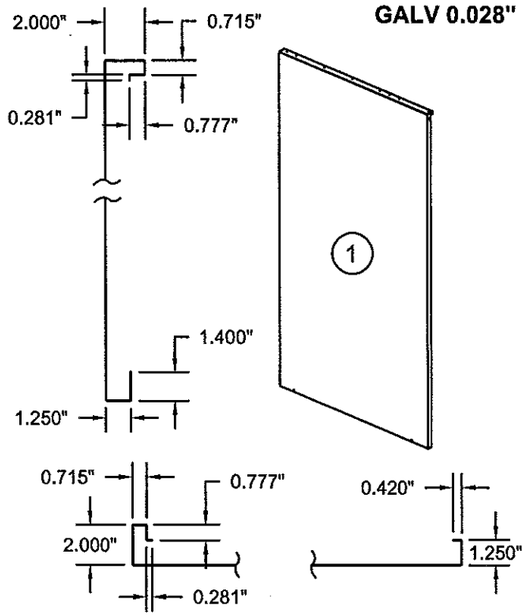
Miami-Dade Product Control
By

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312
NOV 06 2013

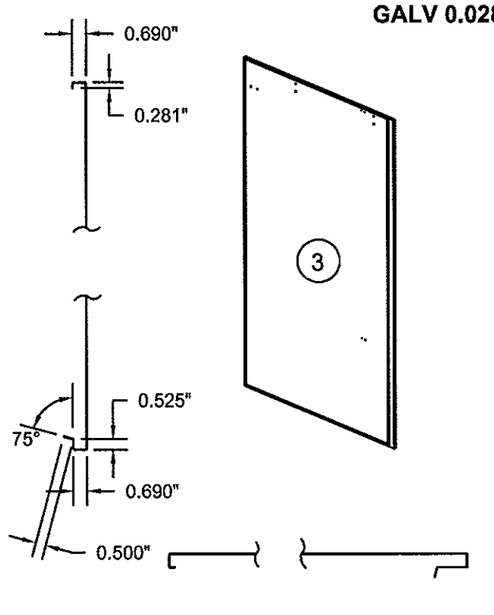
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 32 OF 41 / SECTION			MOCK UPDWG SHEET REF: 40 OF 50	SCALE: NTS	DATE 10-SEP-2013

BASE PANEL DETAIL

EOU OUTER
GALV 0.028"



EOU INNER
GALV 0.028"



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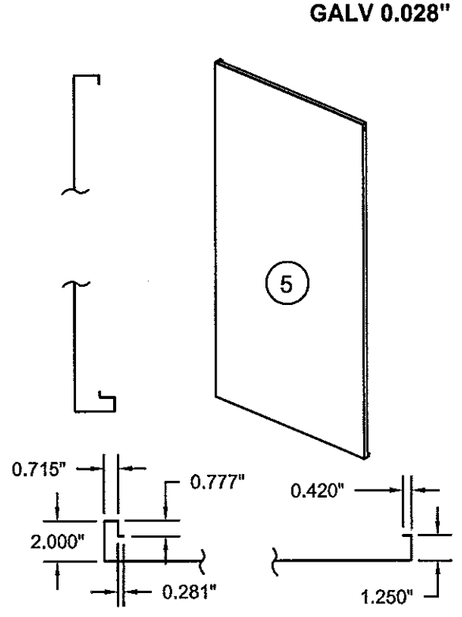

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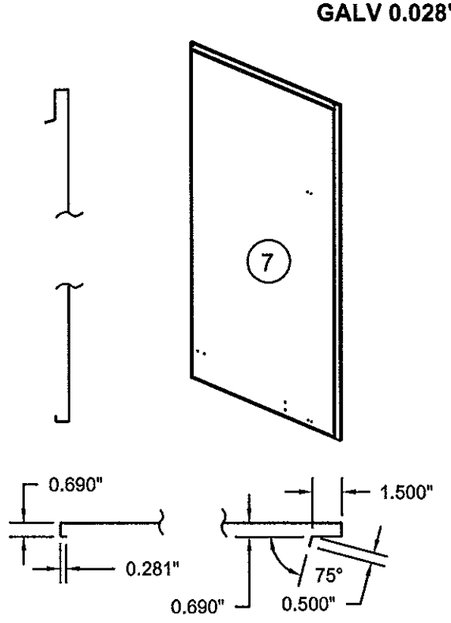

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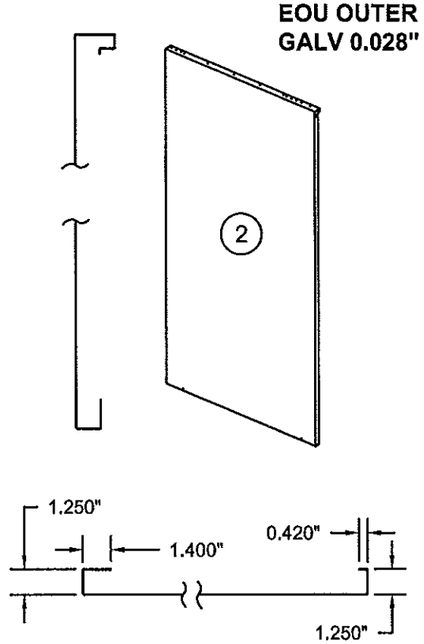

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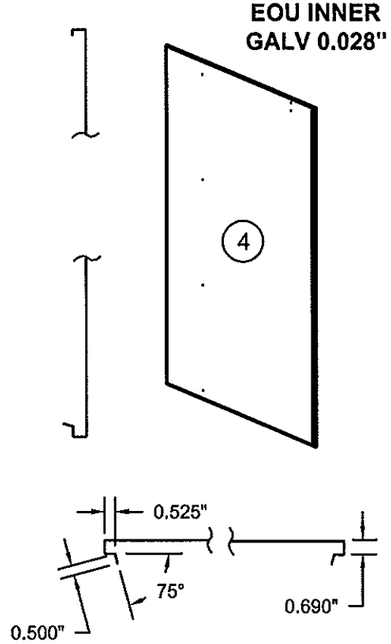

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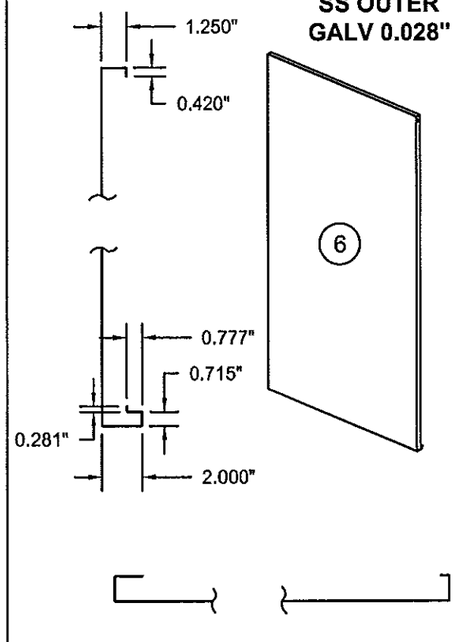

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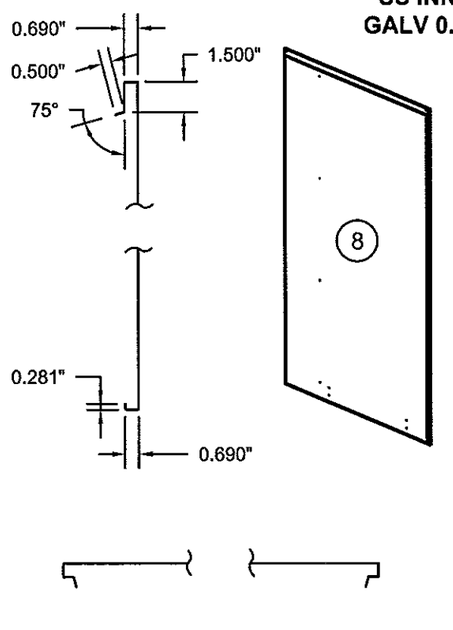
GALV 0.028"



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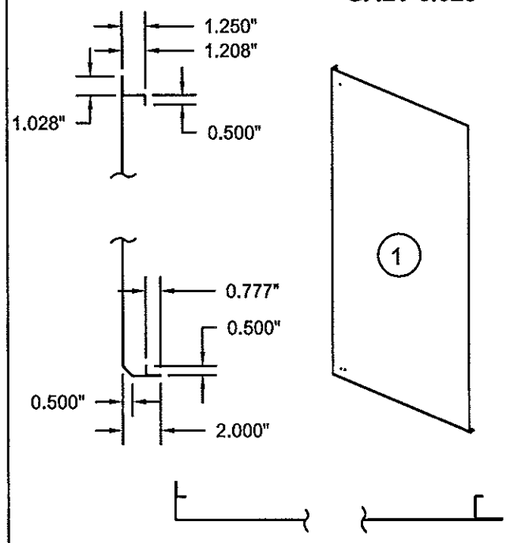
NOV 06 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 33 OF 41 / SECTION			MOCK UPDWG SHEET REF: 41 OF 50	SCALE: NTS	DATE 10-SEP-2013

ROOF PANEL DETAIL

EOU OUTER
GALV 0.028"



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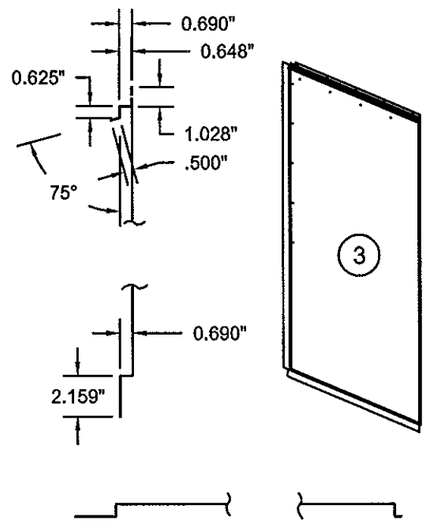
GALV 0.028"



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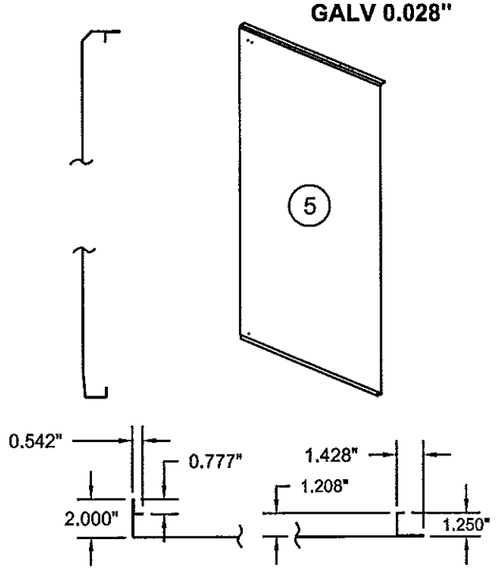

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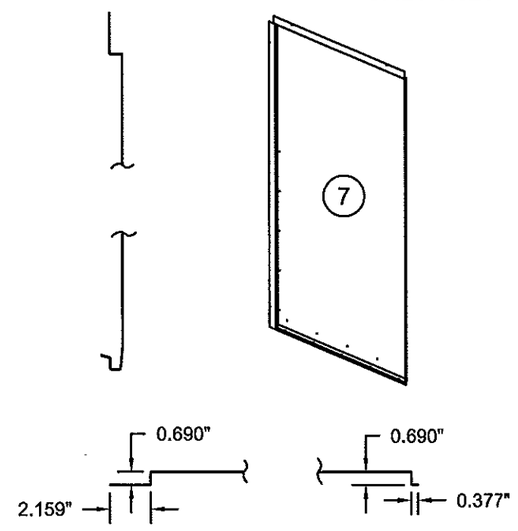

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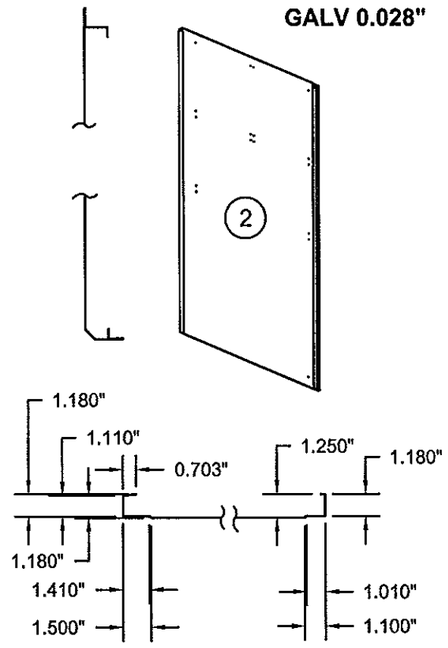

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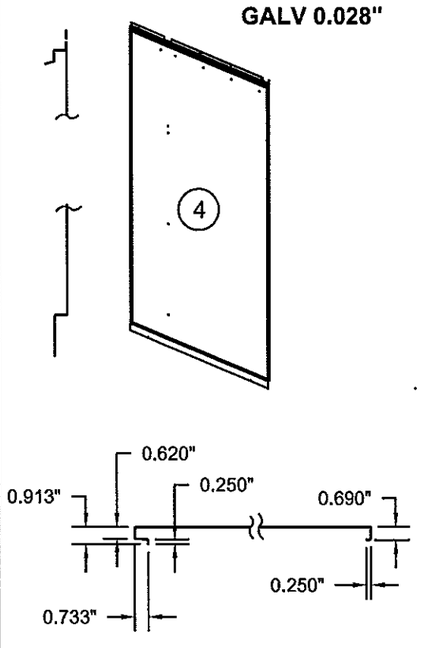

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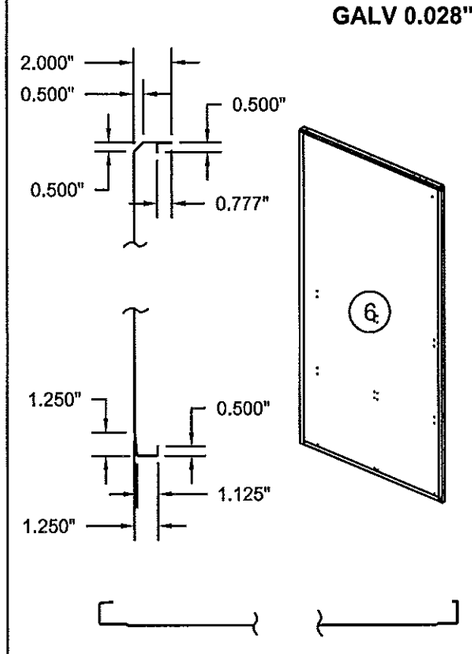
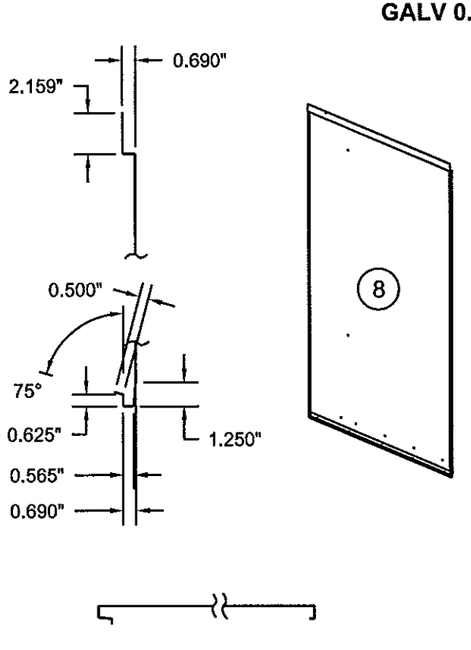


SS INNER
GALV 0.028"



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NOV 05 2013

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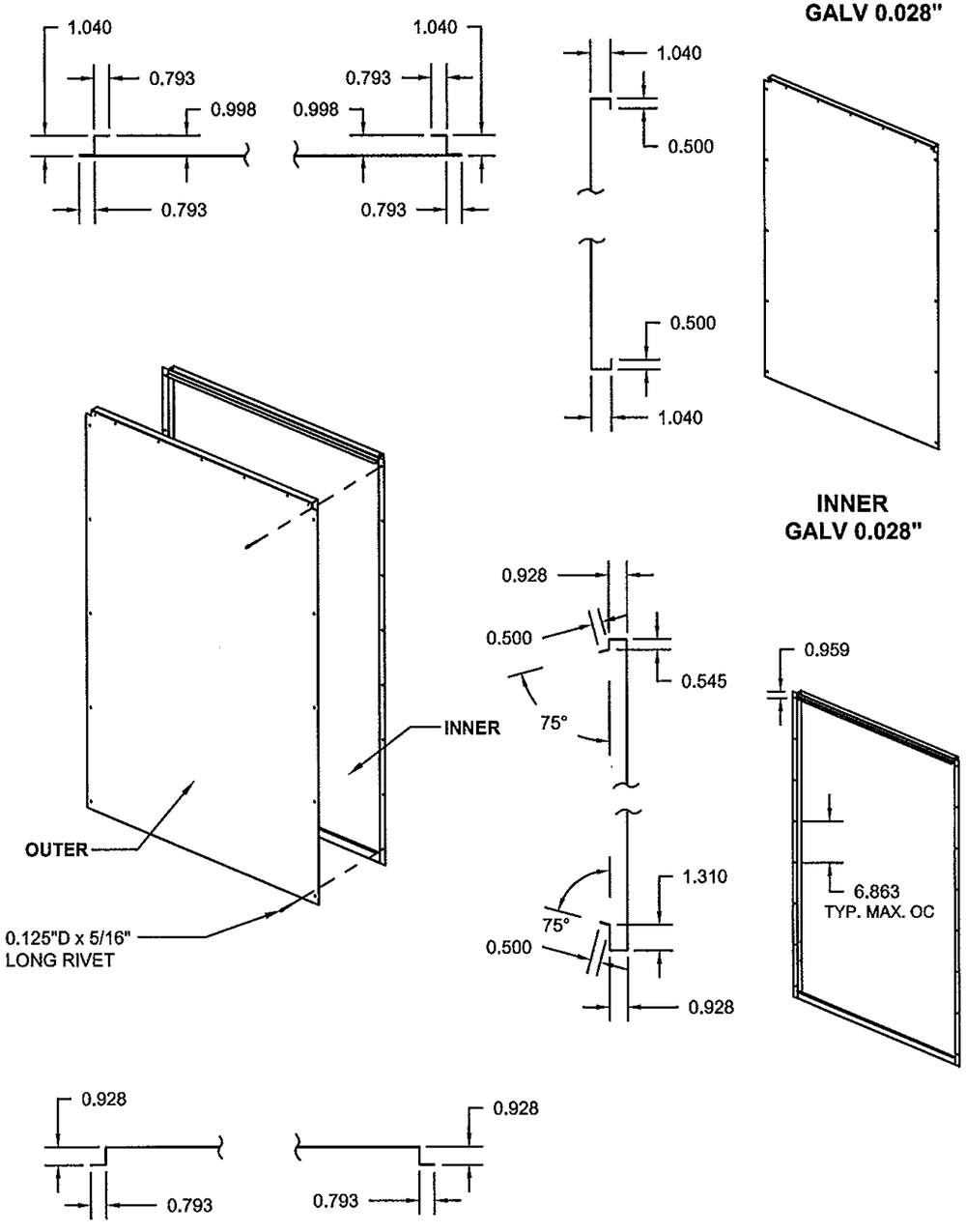
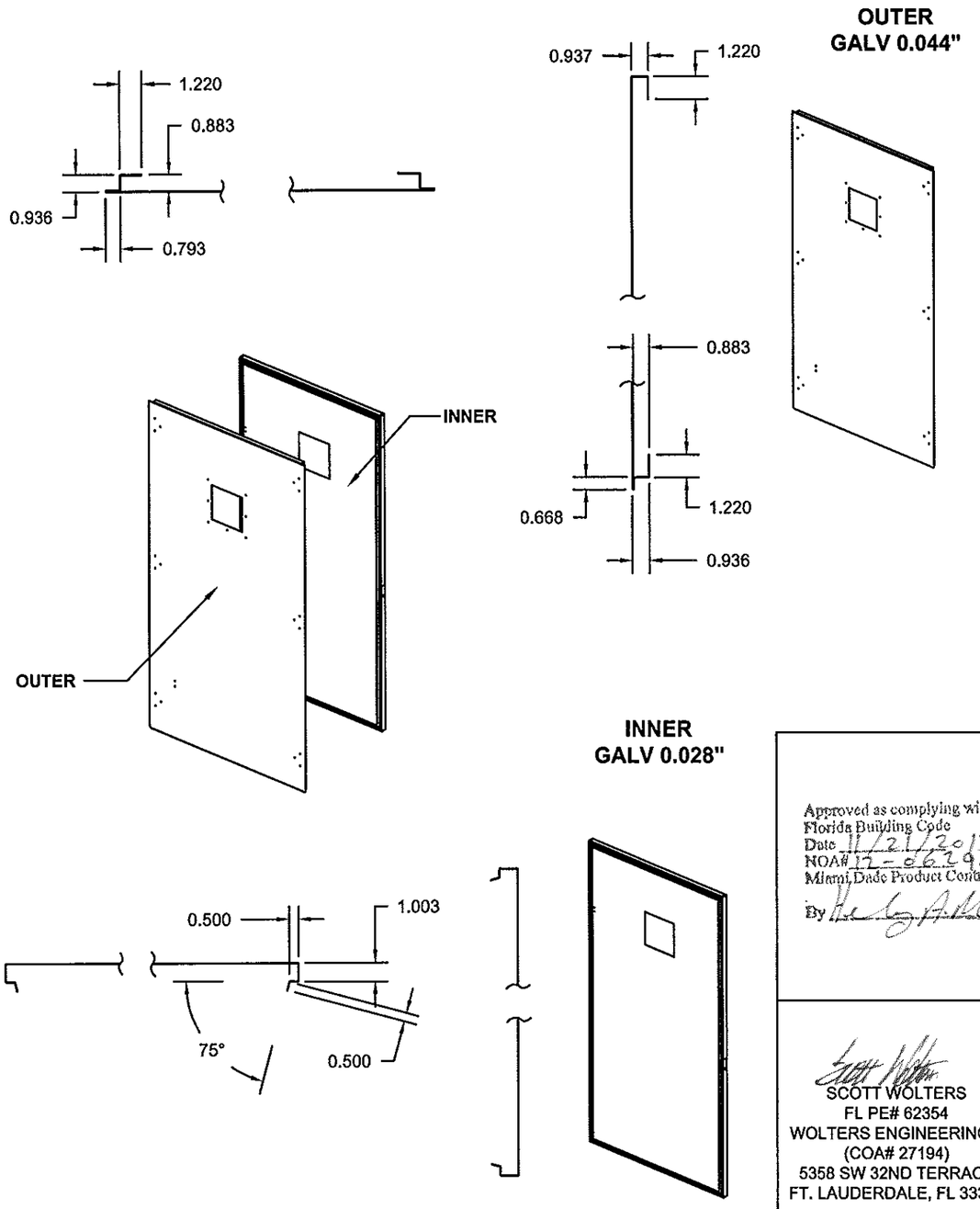
SHEET 34 OF 41 / SECTION			MOCK UPDWG SHEET REF: 42 OF 50	SCALE: NTS	DATE 10-SEP-2013

TALL, DOOR HEADER DETAIL



DOOR DETAIL



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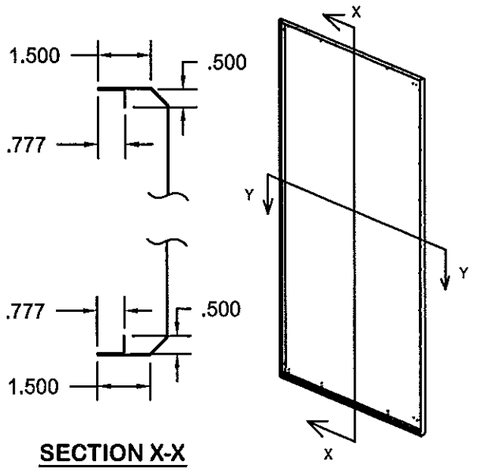
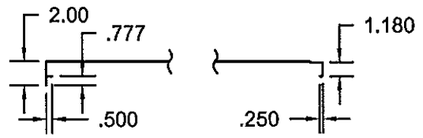
SHEET 35 OF 41 / SECTION			MOCK UPDWG SHEET REF: 43 OF 50	SCALE: NTS	DATE 10-SEP-2013

DETAIL OF P.C ROOF

OUTER
GALV 0.028

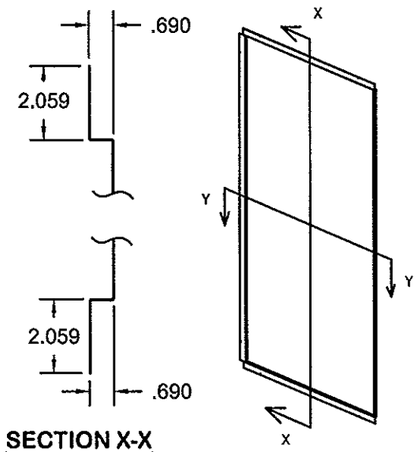


SECTION X-X

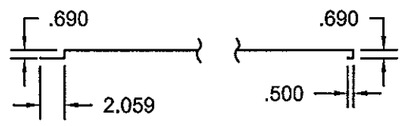


SECTION Y-Y

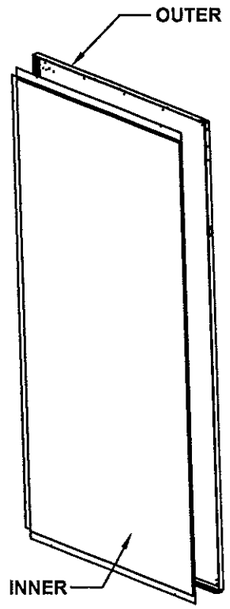
INNER
GALV 0.028



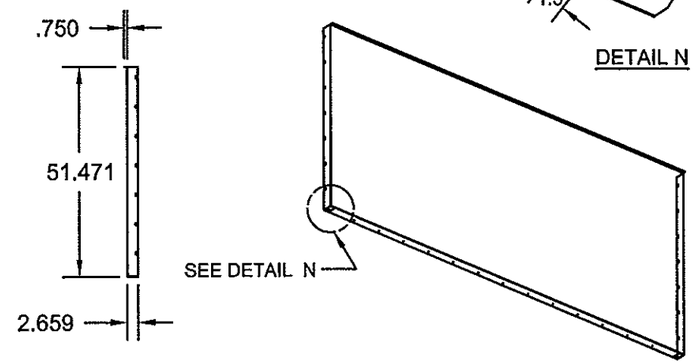
SECTION X-X

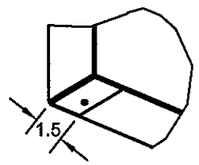


SECTION Y-Y

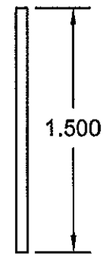


P.C OUTER ROOF
GALV 0.043

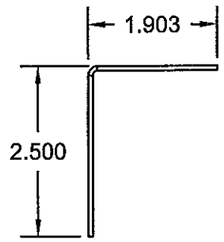




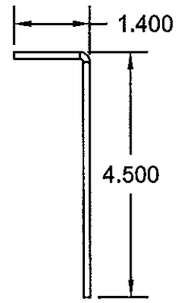
DETAIL N



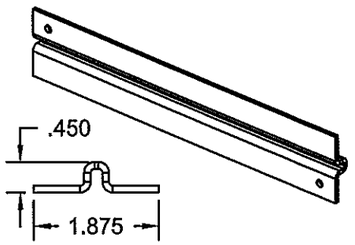
129. WALL PANEL
BACKING PLATE
(P.C) STEEL .043



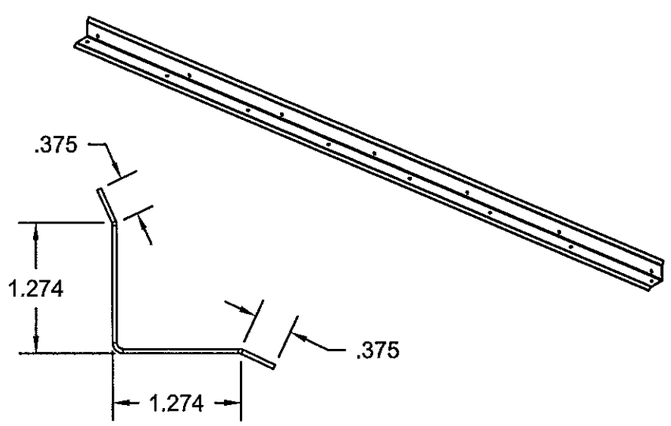
75.UNIT BASE SUPPORT
CHANNEL / PC BASE L
ANGLE STEEL .070



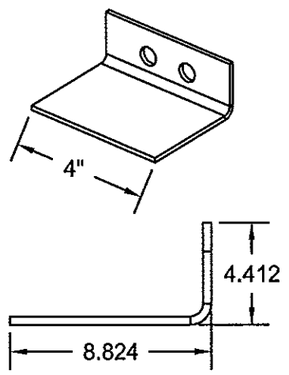
86. PC ROOF L
ANGLE STEEL .122



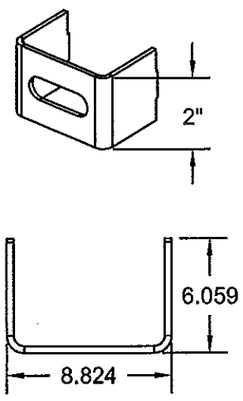
115. PC ROOF KEEL
ALUMINUM 0.100
ALUMINUM ALLOY 6063. T6



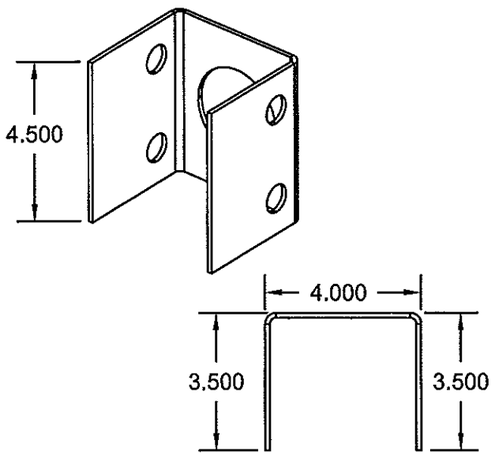
138.CORNER SEAM CAP
GALV .070



77. PC SHIPPING BRACKET
GALV .124



84. UNIT WELD BRACKET
GALV .124



143. PC LIFTING LUG STEEL 0.124

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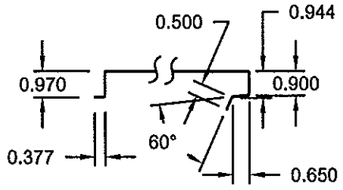
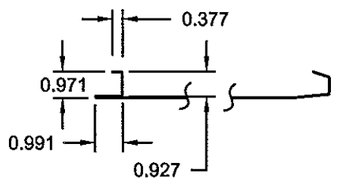
SHEET 36 OF 41 / SECTION			MOCK UPDWG SHEET REF: 17, 18, 19 OF 19	SCALE: NTS	DATE 10-SEP-2013

TYPICAL WALL PANEL HORIZONTAL CROSS SECTION DETAIL

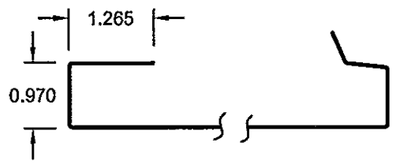
SHIPPING SPLIT TO TONGUE INNER GALV. 028



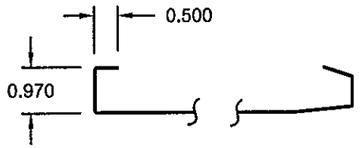
SHIPPING SPLIT TO TONGUE OUTER GALV .028



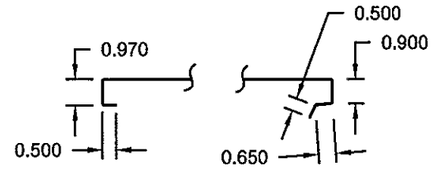
SS TO JAMB INNER GALV .028



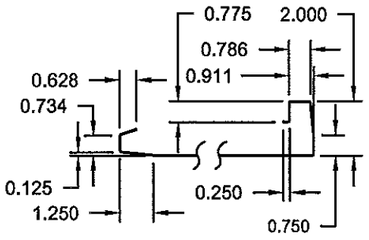
SS TO JAMB OUTER GALV .028



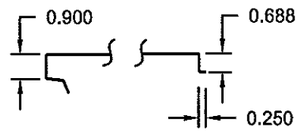
SIDE TO EOU, STANDARD, OR REMOVEABLE INNER GALV. .028



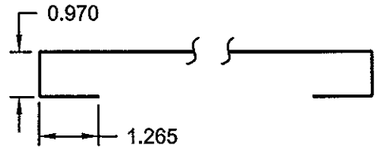
EOU OUTER GALV .028



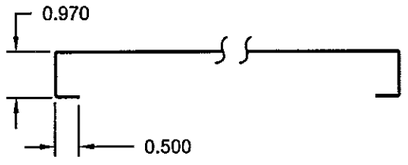
EOU INNER GALV .028



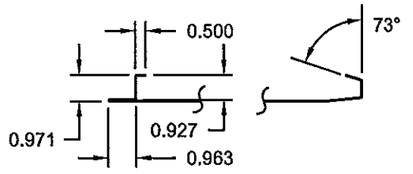
WALL INNER P.C. GALV .028



WALL OUTER P.C. GALV .028

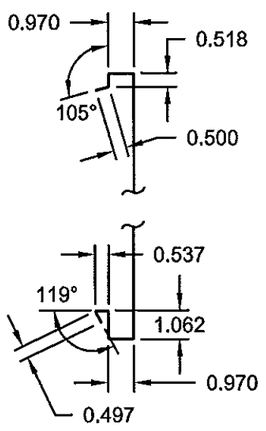


SIDE TO EOU , STANDARD ,OR REMOVEABLE OUTER GALV. .028

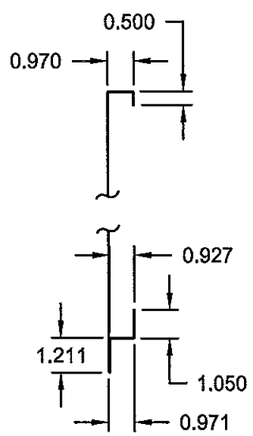


TYPICAL WALL PANEL VERTICAL CROSS SECTION DETAIL

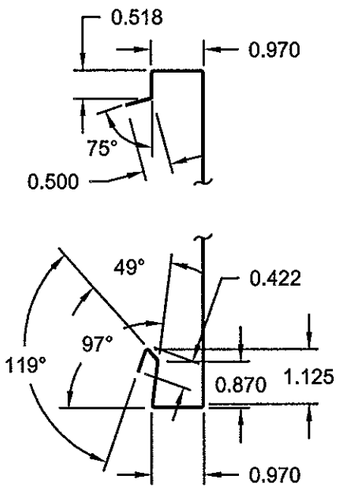
WALL PANEL INNER METAL EDGES GALV. .028



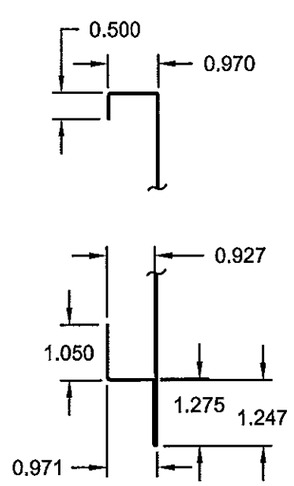
WALL PANEL OUTER METAL EDGES GALV. .028



WALL INNER P.C. GALV .028

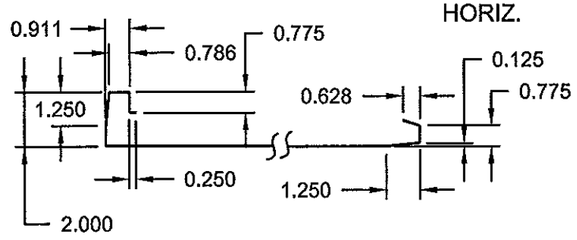


WALL OUTER P.C. GALV .028

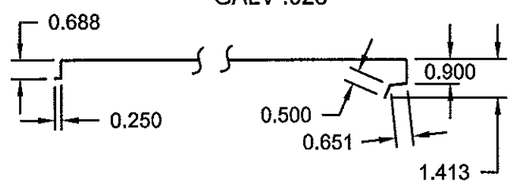


WALL OUTER P.C. GALV .028

HORIZ.



WALL INNER P.C. GALV .028



HORIZ.

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WOLTERS ENGINEERING, INC.
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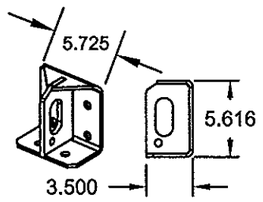
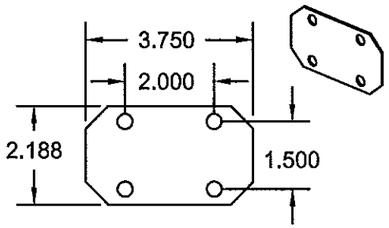
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312

NOV 06 2013

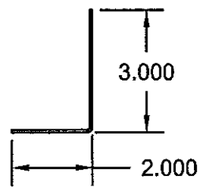
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 37 OF 41 / SECTION			MOCK UPDWG SHEET REF: 46 OF 50 AND 15, 16, 17, 18 OF 19	SCALE: NTS	DATE 10-SEP-2013



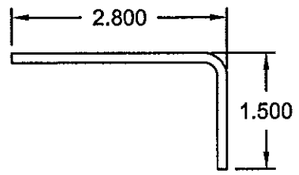
61. LIFTING LUG (1ST LEVEL) GALV .025



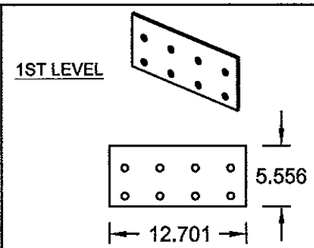
40. SADDLE BRACKET GALV .068



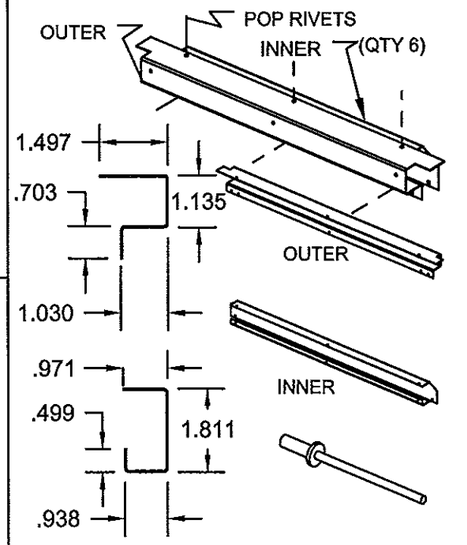
120. FLUE DUCT L ANGLE GALV .068



76. DRIP LIP GALV .124

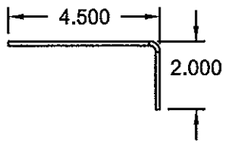


63. BASE RAIL SPLICE GALV .250

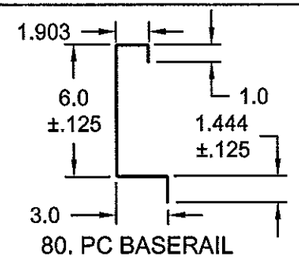


133. DOOR HEADER GALV .028

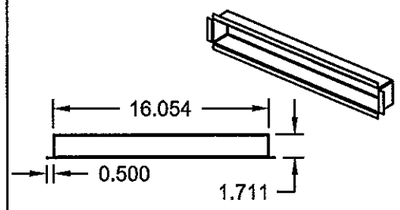
MATERIAL THICKNESS IS.028" FOR DOOR HEADER INNER AND OUTER.



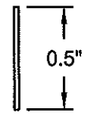
110. HOOD L ANGLE GALV .124



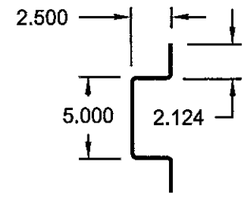
80. PC BASERAIL GALV. .070



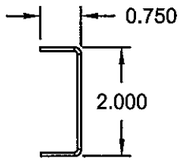
53. DISCONNECT BLOCK OFF GALV .028



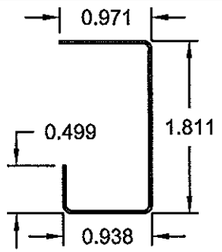
131. BACKING PLATE (UNIT ROOF FOR P.C) GALV .043



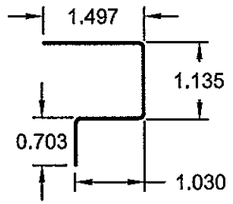
119. EOU WALL SUPPORT CHANNEL GALV .124



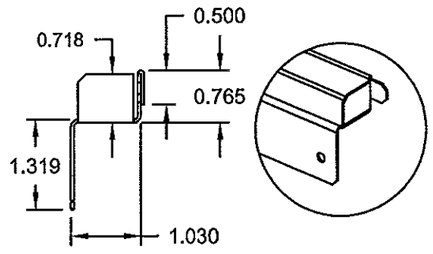
92. SHIPPING STRUCTURE VERTICAL GALV .068



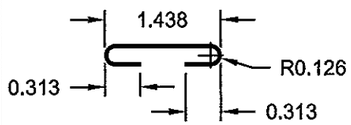
133. INNER DOOR HEADER (OLDER STYLE) GALV .028



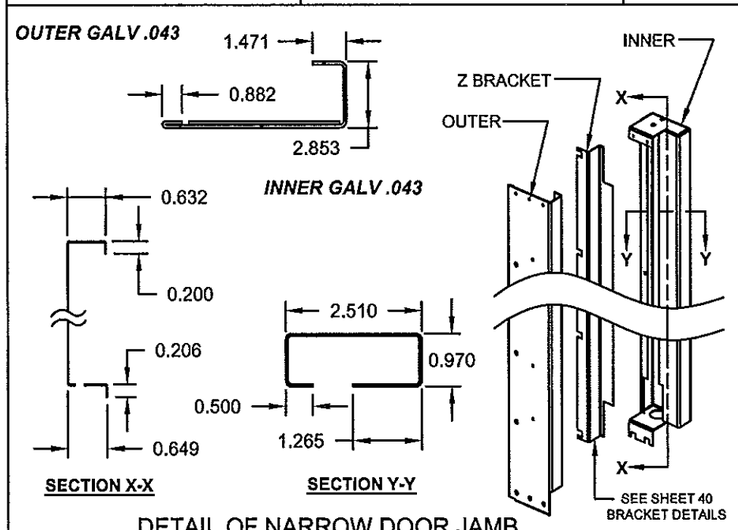
133. OUTER DOOR HEADER (OLDER STYLE) GALV .028



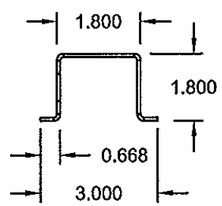
73. DOOR FOOTER GALV .045



102. ROOFSTRIP GALV .027



DETAIL OF NARROW DOOR JAMB



9. WALL OPENING SUPPORT CHANNEL GALV .068

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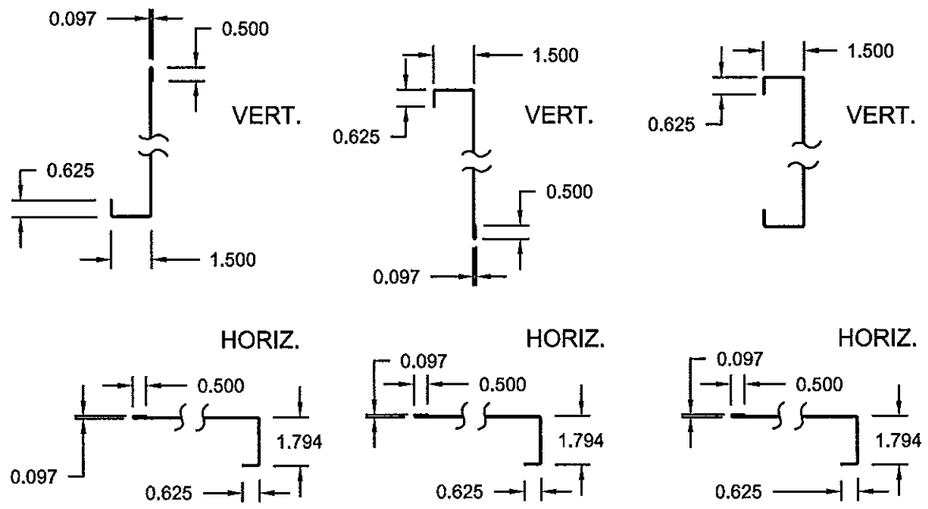
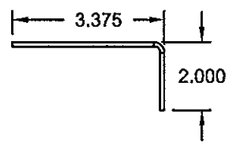
FT. LAUDERDALE, FL 33312
NOV 06 2013

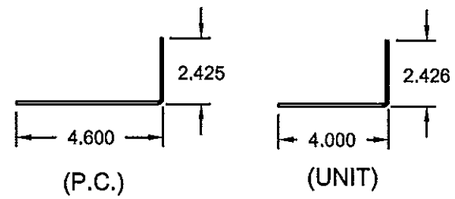
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 38 OF 41 / SECTION			MOCK UPDWG SHEET REF: 45, 48, 49 OF 50 AND 19 OF 19	SCALE: NTS	DATE 10-SEP-2013

OUTDOOR ROOF DETAILS (ALL .043 GALV.)



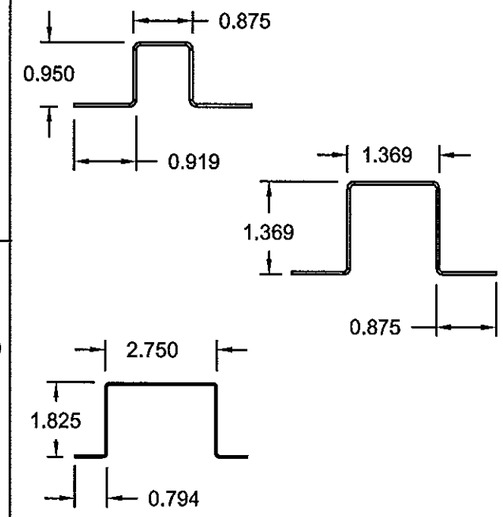
122.HOOD L ANGLE FOR BOTTOM PANEL GALV .124



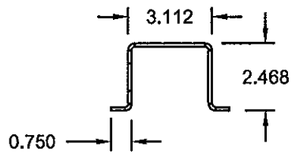


103. OVERHANG STEEL 0.070

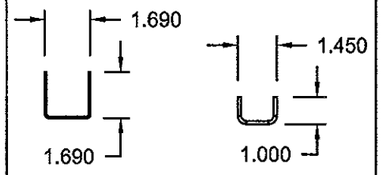
69. ROOF KEEL GALV .044



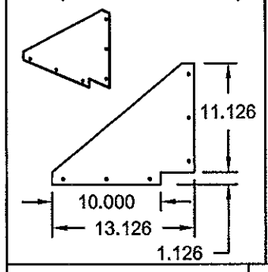
118. DOAF BASE SUPPORT CHANNEL GALV .068



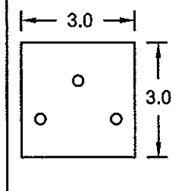
SHIPPING SPLIT SUPPORT CHANNEL

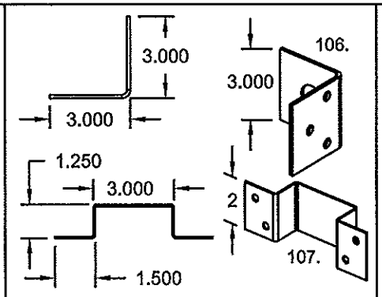


137. SUPPORT GUSSET (ALL .124 GALV.)

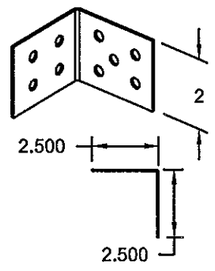


112.LIFTING LUG BACKING PLATE (HOOD) GALV .122

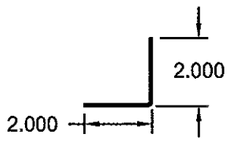




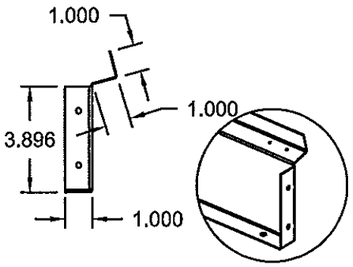
106 AND 107. HOOD LIFTING LUGS GALV .124



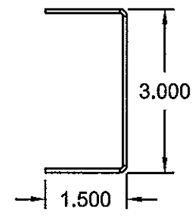
109. HOOD SUPPORT BRACKET GALV .070



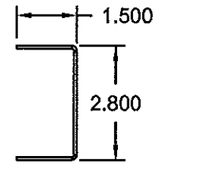
108. HOOD SUPPORT GALV .070



BOTTOM PANEL GALV .043

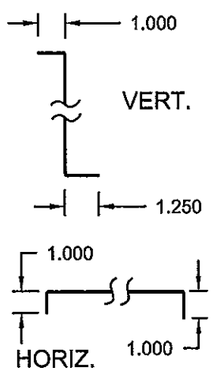


105. A FRAME VERTICAL GALV .070

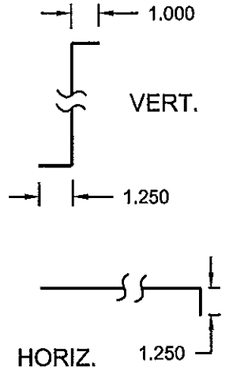


104. A FRAME HORIZONTAL GALV .070

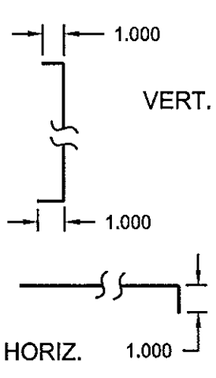
FR/BK HOOD TOP PANEL GALV .043



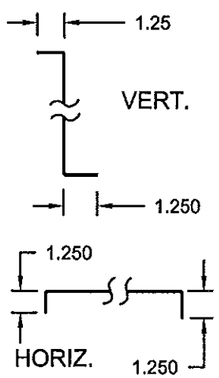
FR/BK HOOD SIDE PANEL GALV .043



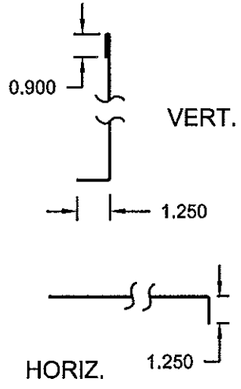
FR/BK HOOD BACK PANEL GALV .043



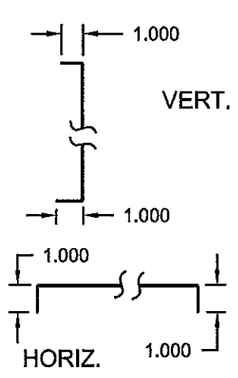
SIDE HOOD TOP PANEL GALV .043



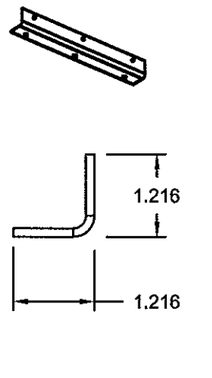
SIDE HOOD SIDE PANEL GALV .043



SIDE HOOD BACK PANEL GALV .043



136. SUPPORT GUSSET BRACKET (ALL .124 GALV.)



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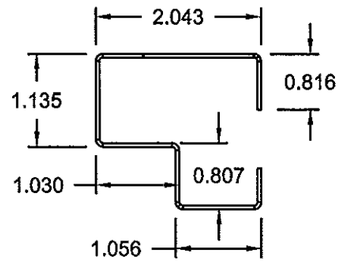
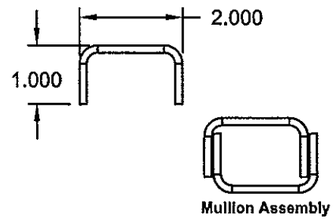
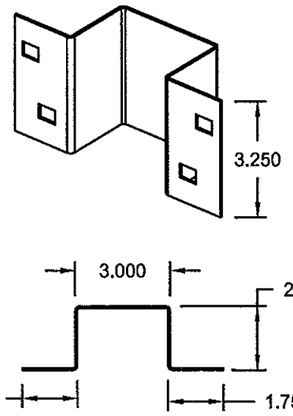
SHEET 39 OF 41 / SECTION			MOCK UPDWG SHEET REF: 44, 45, 47, 49 OF 50 AND 13 OF 19	SCALE: NTS	DATE 10-SEP-2013



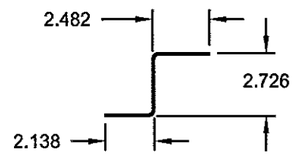
123. DETAIL OF NEW DOOR HEADER GALV .043



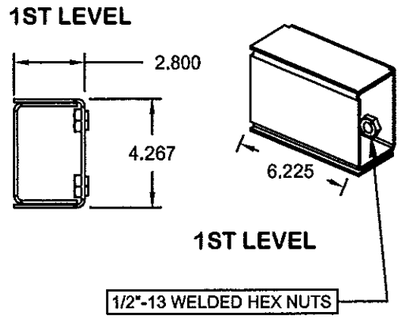
74. PIPE CABINET MULLION ASSEMBLY (2 MULLION NESTED) GALV. 0.122



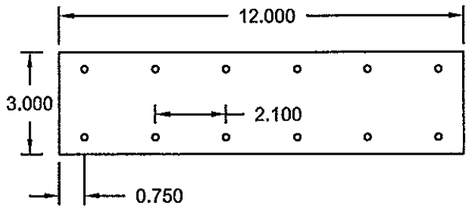
81. CHAIN GUIDE / GUARD STEEL 0.067



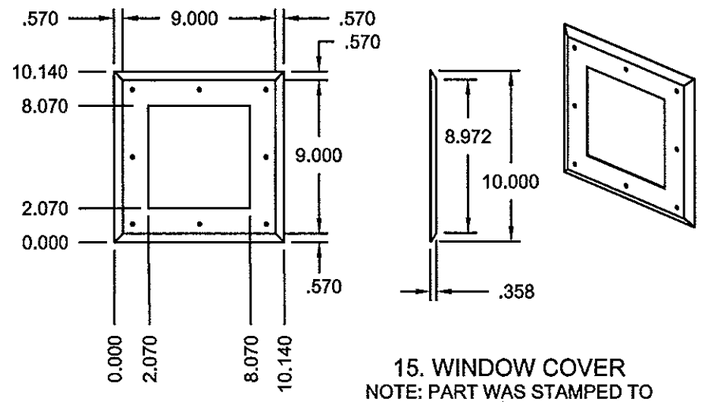
Z BRACKET(NARROW DOOR JAMB) GALV .028



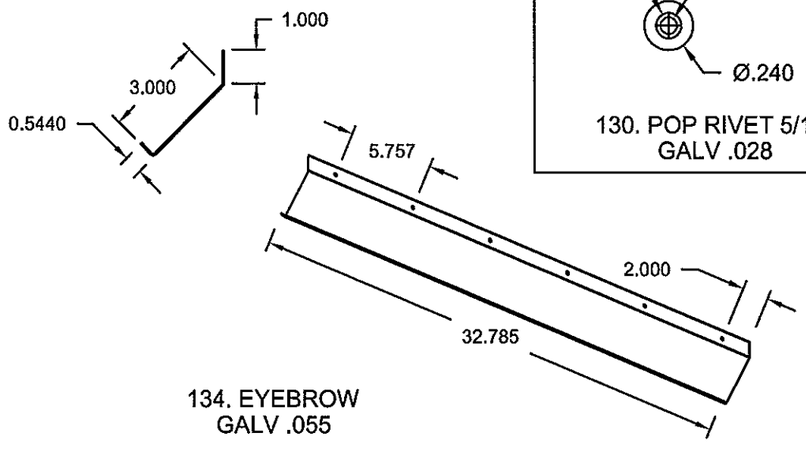
141. CORNER BLOCK GALV .124



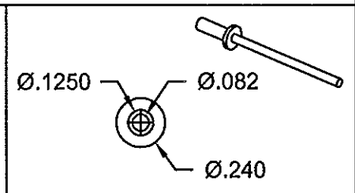
121. ROOF SPLICE PLATE GALV .044



15. WINDOW COVER
NOTE: PART WAS STAMPED TO CREATE THE EDGE OFFSET



134. EYEBROW GALV .055



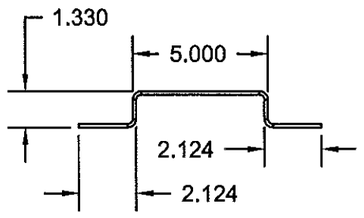
130. POP RIVET 5/16" GALV .028

Approved as complying with the Florida Building Code
Date 11/21/2013
NOA# 12-0629.03
Miami Dade Product Control
By

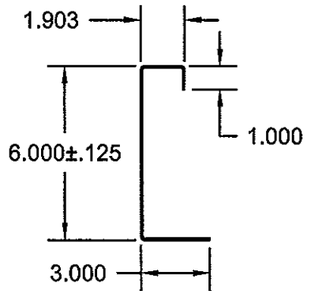
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312

NOV 06 2013

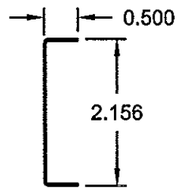
DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 40 OF 41 / SECTION			MOCK UPDWG SHEET REF: 41, 42, 45 OF 50	SCALE: NTS	DATE 10-SEP-2013



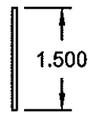
128. DOAF BEAM
GALV .124



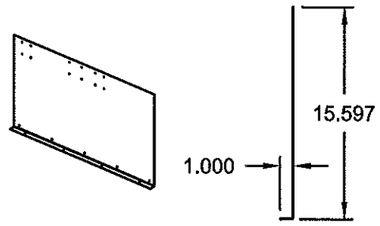
85. PC BASERAIL
STEEL 0.070



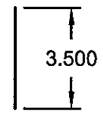
46. FOAM COVER
GALV .027



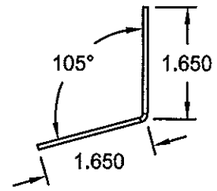
112. BACKING
PLATE (HOOD)
GALV .070



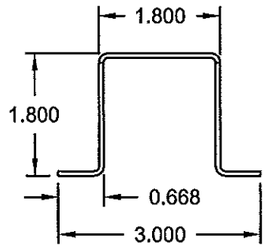
68. WALL BOTTOM L ANGLE
GALV .068
LENGTH:77"(QTY 2) & 27.13"



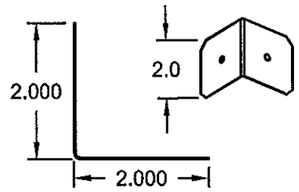
71. BACKING
PLATE (ROOF)
GALV .046



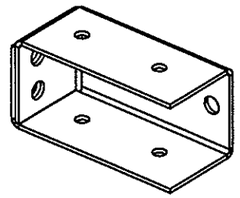
111. HOOD SUPPORT
TOP CHANNEL
GALV .068



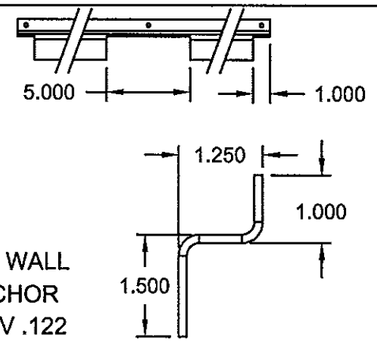
9. HAT CHANNEL
GALV .070



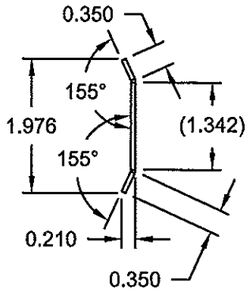
47. FOAM COVER CORNER
GALV .027



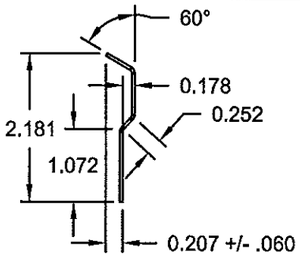
139. HAT CHANNEL
BRACKET 3" X 1.5" X 1.5"
STEEL .067



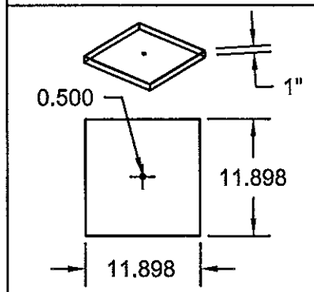
113. WALL
ANCHOR
GALV .122



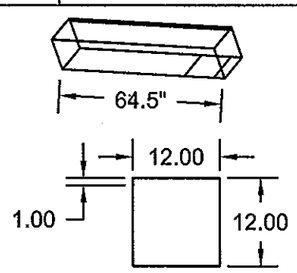
101. SEAM CAP
GALV .068



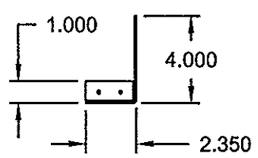
5. DECORATIVE
COVER
GALV .044



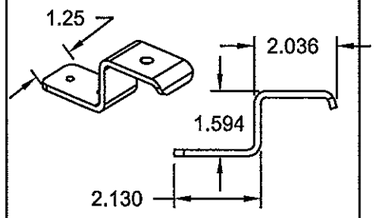
126. BOTTOM CAP
STAINLESS STEEL 0.034



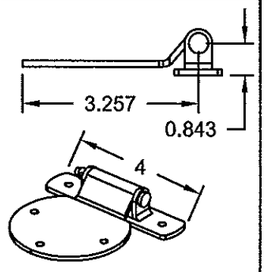
127. FLUE DUCT
STAINLESS STEEL 0.034



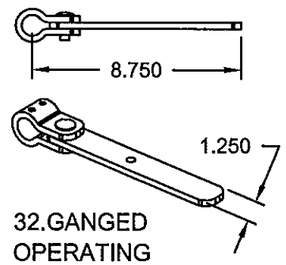
103. OVERHANG
GALV .068



35. PADLOCK BRACKET
GALV 0.156 MIN

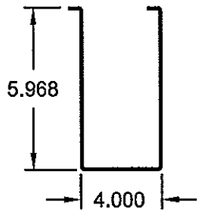


10. DOOR HINGE
GALV 0.110

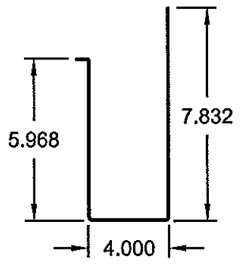


32.GANGED
OPERATING
HANDLE
GALV 0.250

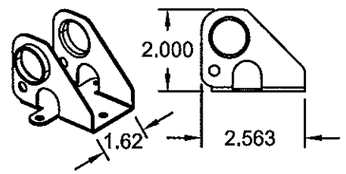
Approved as complying with the Florida Building Code
Date 11/21/2013
NOA# 12-0629.07
Miami Dade Product Control
By



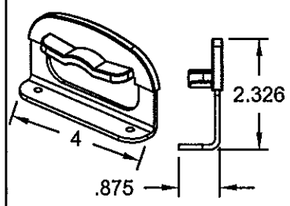
44. 1ST LEVEL
BASE RAIL
GALV .070



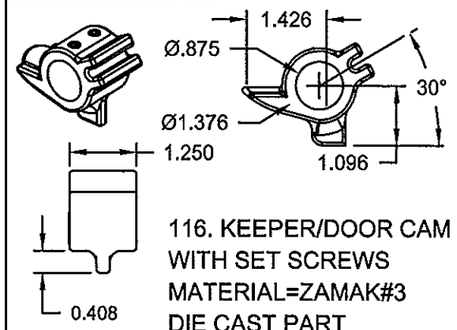
44. 1ST LEVEL
BASE RAIL
GALV .070



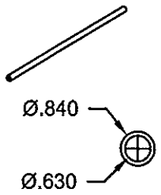
11. DOOR CAM
BRACKET GALV 0.060



12. STRIKER PLATE
GALV 0.110 MIN



116. KEEPER/DOOR CAM
WITH SET SCREWS
MATERIAL=ZAMAK#3
DIE CAST PART



140. DOOR TUBE
STEEL

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
5358 SW 32ND TERRACE
FT. LAUDERDALE, FL 33312

NOV 05 2013

DRAWING # AIRS0704	DESC. TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET 41 OF 41	SECTION		MOCK UPDWG SHEET REF: 49, 50 OF 50	SCALE: NTS	DATE 10-SEP-2013