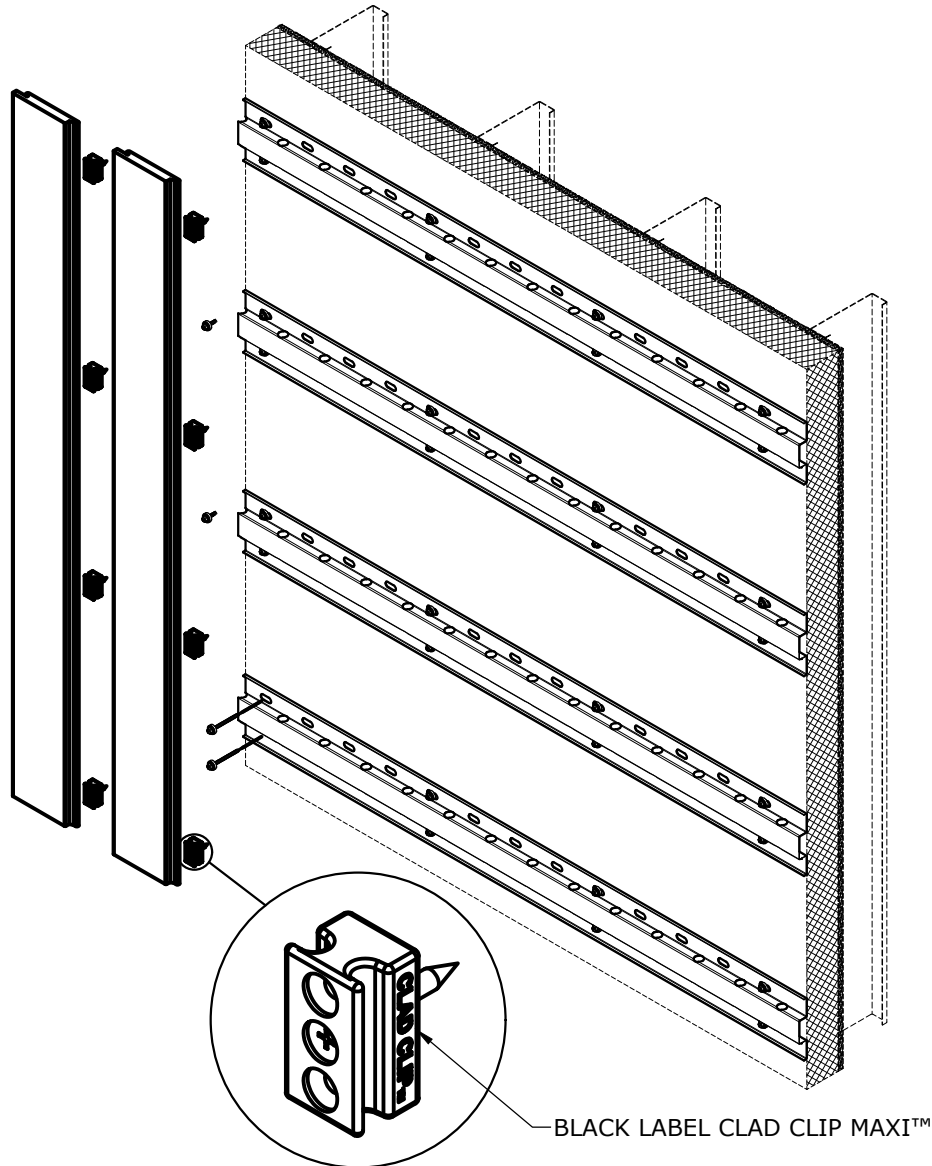


BLACK LABEL CLAD CLIP™ GUIDE DETAILS: VERTICAL RAINSCREEN ATTACHMENT W/ KNIGHT WALL HCI™ SYSTEM (HORIZONTAL HCI-GIRT ONLY)



BLACK LABEL VERTICAL APPLICATION HORIZONTAL ORIENTATED GIRT ONLY

SYSTEM DEPTH W/ BLACK LABEL RAINSCREEN™ & BLACK LABEL CLAD CLIP™:
W/ HCI GIRT - 1.875"
(FACE OF RIGID INSULATION TO FACE OF RAINSCREEN)

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING WILL ADDRESS STRUCTURAL ATTACHMENT (I.E. FASTENING PATTERN, ETC.). CONTACT KWS FOR FURTHER DETAILS. ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY & FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

BLACK LABEL RAINSCREEN GENERAL NOTES:

- TROPICAL FOREST PRODUCTS IS NOT RESPONSIBLE FOR INFORMATION SHOWN ON ALL DETAILS BEYOND SPECIFIC SCOPE OF WORK (INDICATED AS TFP RAIN SCREEN OR CLAD CLIPS).
- CONSULT TFP MASTER PLAN SHEET FOR ENGINEER SEALED SYSTEM DETAILS
- DETAILS ARE ONLY TO COMMUNICATE HOW TFP RAIN SCREEN CAN BE USED WITH KNIGHT WALL SYSTEMS.
- DETAILS OF ADJACENT WORK ARE SHOWN FOR COMPLETENESS, CLARITY AND CONVENIENCE AS AN EXAMPLE BUILT ENVIRONMENT ONLY.
- THE STRUCTURAL SUPPORT, BACK-UP WALL AND SUPER STRUCTURE DESIGN IS WITH OTHER PARTIES NOT LIMITED TO, STEEL STUD WALL, etc.). THE RESPONSIBILITY FOR THESE OTHER ASSEMBLIES TO ACCOMMODATE ALL LOADS IMPOSED UPON THEM BY TFP RAIN SCREEN, SHOULD BE CONSIDERED.
- SOFT JOINTS, SEALANT AND FLASHING SPECIFICATIONS, DESIGN AND INSTALLATION ARE WITH OTHER PARTIES
- WEATHER RESISTANT/AIR BARRIER AND INSULATION SPECIFICATIONS, DETAILING AND INSTALLATION, PENETRATIONS, ARE WITH OTHER PARTIES.
- TFP HAS SELECTED FASTENER AND CLIP METAL GRADES DESIGNED TO REDUCE GALVANIC REACTION. POTENTIAL GALVANIC REACTION ALWAYS EXISTS AT SOME LEVEL WHEN DISSIMILAR METALS ARE IN CONTACT. POTENTIAL GALVANIC REACTION MUST ALSO BE CONSIDERED WHEN METALS ARE IN CONTACT WITH CHEMICALLY TREATED LUMBER
- USE FINISH WOOD BLADES FOR CUTTING WOOD RAIN SCREEN COMPONENTS.
- APPLY ANCHORSEAL TO ALL FRESHLY CUT ENDS OF RAIN SCREEN BOARDS.
- USE OF IMPACT DRIVERS IS NOT RECOMMENDED WHEN DRIVING ANY FASTENER FOR THE SYSTEM.
- THE DETAILS WITHIN THIS DRAWING PACKAGE ARE NOT INTENDED TO REPLACE PROJECT SPECIFIC ENGINEERING CALCULATIONS OR THE DESIGN SERVICES OF A REGISTERED PROFESSIONAL DESIGNER AND ARE SUBJECT CHANGE AT ANY TIME. PROJECT SPECIFIC ENGINEERING PROVIDED BY OTHERS.
- NO FREEDOM FROM ANY PATENT OWNED BY TFP OR OTHERS IS TO BE INFERRED. BECAUSE USE CONDITIONS AND APPLICABLE DIFFER FROM ONE LOCATION TO ANOTHER AND MAY CHANGE WITH TIME, CUSTOMER IS RESPONSIBLE FOR DETERMINING WHETHER PRODUCTS AND THE INFORMATION DOCUMENT ARE APPROPRIATE FOR CUSTOMER'S USE AND FOR ENSURING THAT THE CUSTOMER'S WORKPLACE AND DISPOSAL PRACTICES ARE IN COMPLIANCE WITH APPLICABLE AND OTHER GOVERNMENT ENACTMENTS. TFP ASSUMES NO OBLIGATION OR LIABILITY FOR THE INFORMATION CONTAINED IN THIS DOCUMENT
- NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN LIMITED WARRANTIES SPECIFICALLY PROVIDED BY TFP. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED
- BUILDING AND/OR CONSTRUCTION PRACTICES UNRELATED TO BUILDING MATERIALS COULD GREATLY AFFECT MOISTURE AND THE POTENTIAL FOR MOLD FORMATION. NO MATERIAL SUPPLIER INCLUDING TFP CAN GIVE ASSURANCE THAT MOLD WILL NOT DEVELOP.

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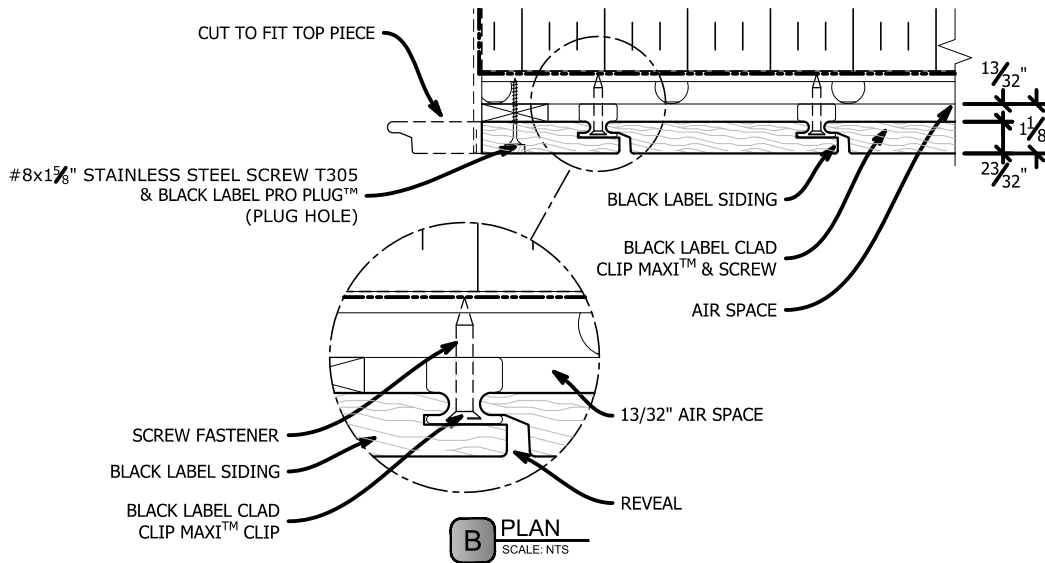
1. TITLE PAGE
2. BLACK LABEL RAINSCREEN GENERAL NOTES
3. TABLE OF CONTENTS
4. BLACK LABEL RAINSCREEN VERTICAL ATTACHMENT TO KNIGHTWALL
5. BLACK LABEL RAINSCREEN CLAD CLIP DETAILS
6. LAYUP DIMENSIONS TFP RAINSCREEN
7. TYPICAL SECTION VIEW - VERTICAL RAINSCREEN / HORIZONTAL HCI-Girt ONLY
8. TYPICAL PLAN VIEW - VERTICAL RAINSCREEN / HORIZONTAL HCI-Girt ONLY
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15. KNIGHT WALL GENERAL NOTES
16. ISOMETRIC VIEW OF COMPONENTS BY KNIGHT WALL (KWS)

PLEASE FEEL FREE TO CONTACT TROPICAL FOREST PRODUCTS FOR PROJECT SPECIFIC ASSISTANCE
WITH TFP® CLADDING OPTIONS AND SPECIFIC ASSISTANCE.

905.672.8000 OR 855.344.4500

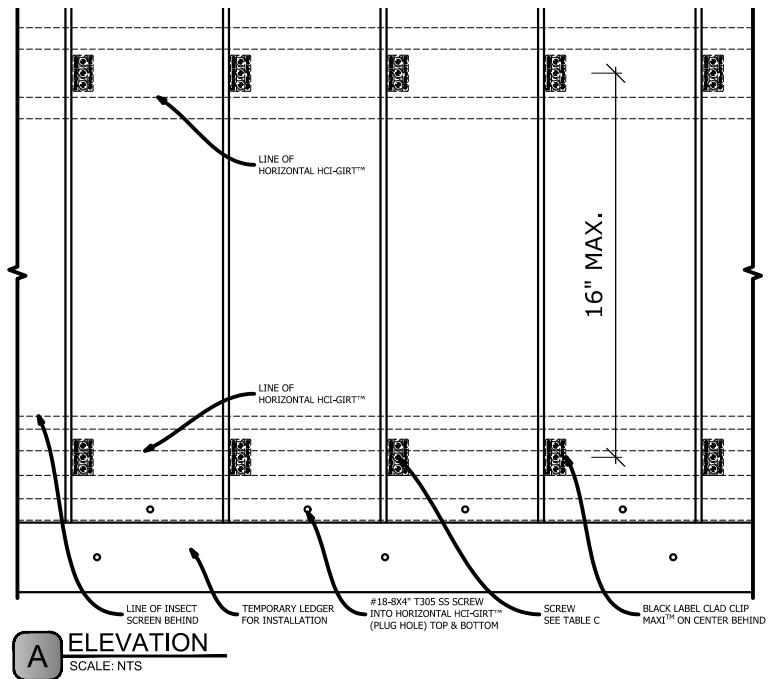
info@wearetropical.com

CLAD CLIP SPECS



NOTES

1. BASIS OF DESIGN - TFP® RAINSCREEN SYSTEM - ADDRESS: 4301 DORCHESTER RD. NORTH CHARLESTON SC 29405 / PHONE: 888-932-9663
2. TFP® CLADDING - WOOD SPECIES AS DENOTED IN PLANS AND SPECIFICATIONS
3. IF METAL FURRING STRIPS ARE USED, USE #10 X 3/4" SCREW WITH 'QUICK GUARD' COATING OR MANUFACTURER-RATED EQUIVALENT FOR CAPACITY AND CORROSION RESISTANCE. ATTACHMENT AND INTEGRITY OF FURRING STRIP IS BY OTHERS AND SHALL MEET ALL IMPOSING LOADS, METAL FURRING MUST BE 18 GA MINIMUM.
4. NOTE: IF A LESSER DIAMETER SCREW OR OTHER THAN MANUFACTURE'S SCREW TYPE IS DESIRED TO BE USED, THE RESULTING PRESSURES AND SPACING WILL CHANGE. THE PERMUTATIONS OF THESE OPTIONS IS OUTSIDE THE SCOPE OF THIS PLAN.
5. ALL WORK SPECIFIED HEREIN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014)
6. ALL MATERIALS USED & FABRICATION METHODS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED AND APPROVED REQUIREMENTS .
7. ALL FASTENERS TO BE CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL UNLESS NOTED OTHERWISE AND SHALL COMPLY WITH 5.5.5C, SPECIFICATIONS FOR ALUM. STRUCTURES - SECTION 1, THE ALUMINUM ASSOCIATION, INC. & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
8. ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 U.N.O.

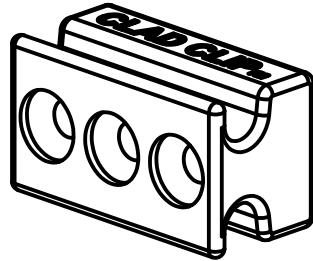


SIDING SIZES	TYPE OF CONNECTION	PANEL/FURRING THICKNESS	CLIP SPACING	CLIP TYPE	SCREWS PER CLIP	SCREW DIAMETER	ALLOWABLE PRESSURE
1" X 6"	CLIP TO STEEL FURRING	20 GA.	16"	MAXI/MINI	1 PCS.	#10	110.0 PSF
1" x 4"	CLIP TO STEEL FURRING	20 GA.	16"	MAXI/MINI	1 PCS.	#10	110.0 PSF

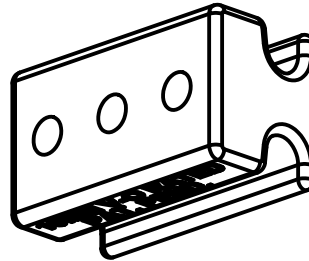
C RAINSCREEN ATTACHMENT TABLE

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING WILL ADDRESS STRUCTURAL ATTACHMENT (I.E. FASTENING PATTERN, ETC.). CONTACT KWS FOR FURTHER DETAILS. ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY & FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

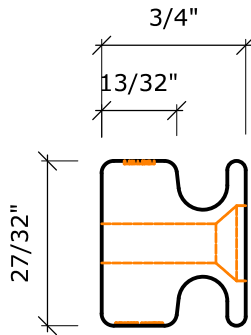
BLACK LABEL CLAD CLIP™ DETAILS SCALE: FULL



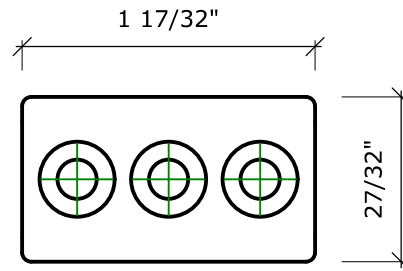
ISOMETRIC



REAR ISOMETRIC

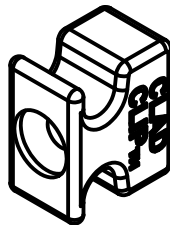


SIDE VIEW



FRONT VIEW

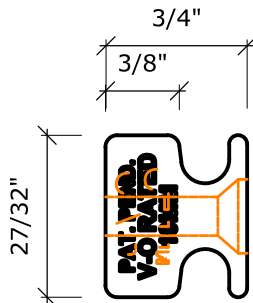
A BLACK LABEL CLAD CLIP MAXI - BLCCMAX10MMVO SCALE: NTS



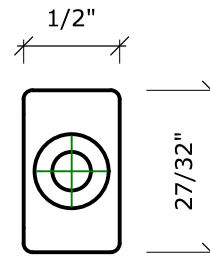
ISOMETRIC



REAR ISOMETRIC



SIDE VIEW

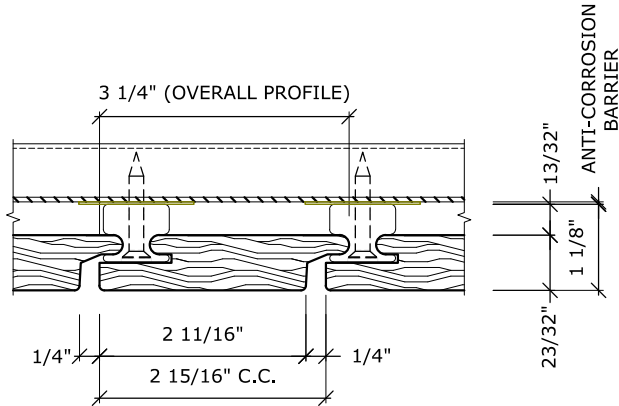


FRONT VIEW

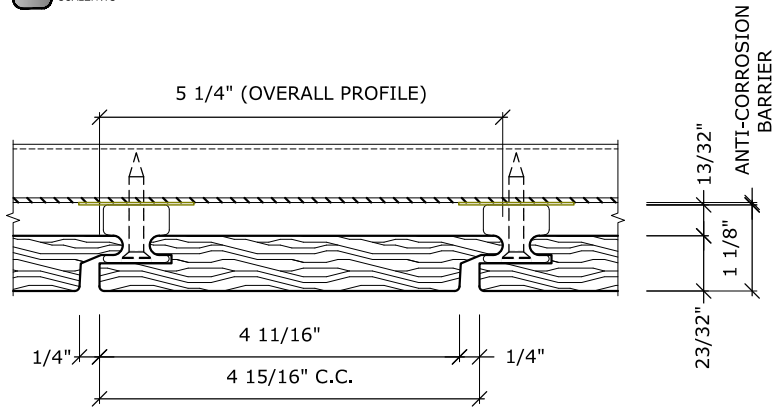
B BLACK LABEL CLAD CLIP MINI - BLCCMIN10MMVO SCALE: NTS

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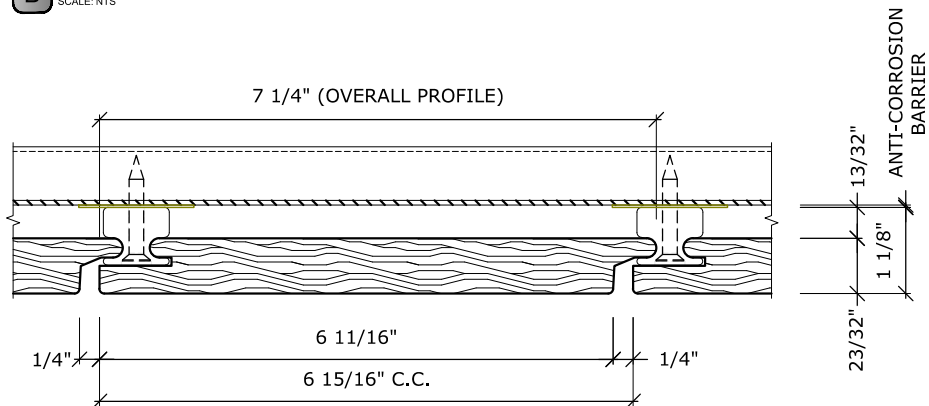
LAYUP DIMENSION SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" 1/4 REVEAL RAINSCREEN
SCALE: NTS



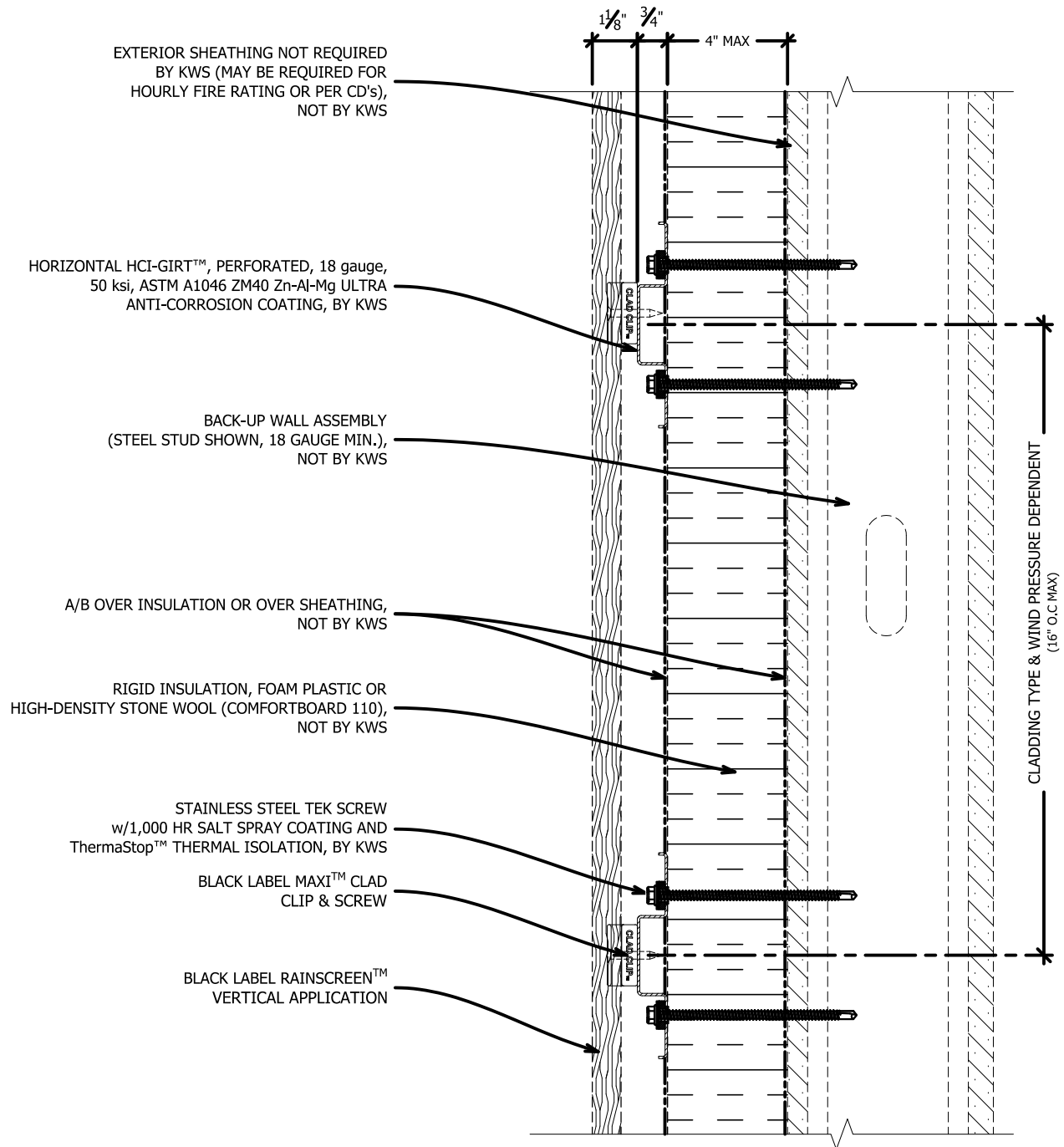
B BLACK LABEL CLAD CLIP MAXI w/ 1" X 6" 1/4 REVEAL RAINSCREEN
SCALE: NTS



C BLACK LABEL CLAD CLIP MAXI w/ 1" X 8" 1/4 REVEAL RAINSCREEN
SCALE: NTS

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TYPICAL SECTION VIEW SCALE: 3"=1'-0"



16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

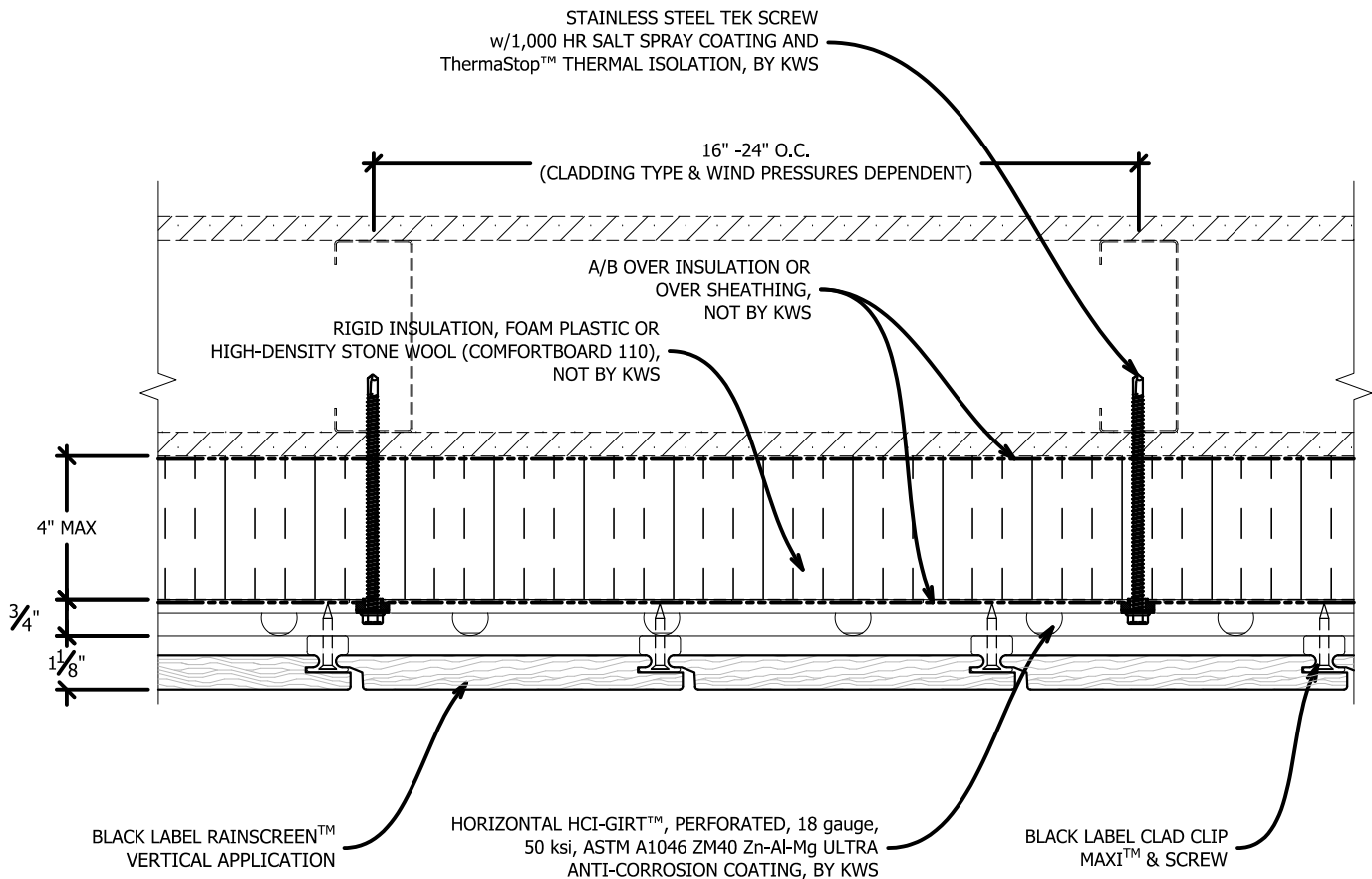
*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE) ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING WILL ADDRESS STRUCTURAL ATTACHMENT (I.E. FASTENING PATTERN, ETC.). CONTACT KWS FOR FURTHER DETAILS. ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY & FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

TYPICAL PLAN VIEW SCALE: 3"=1'-0"

SYSTEM MAY BE INSTALLED OVER STEEL STUDS,
WOOD STUDS, CMU OR CONCRETE SUBSTRATES
(WITH USE OF APPROPRIATE WALL ANCHORS).

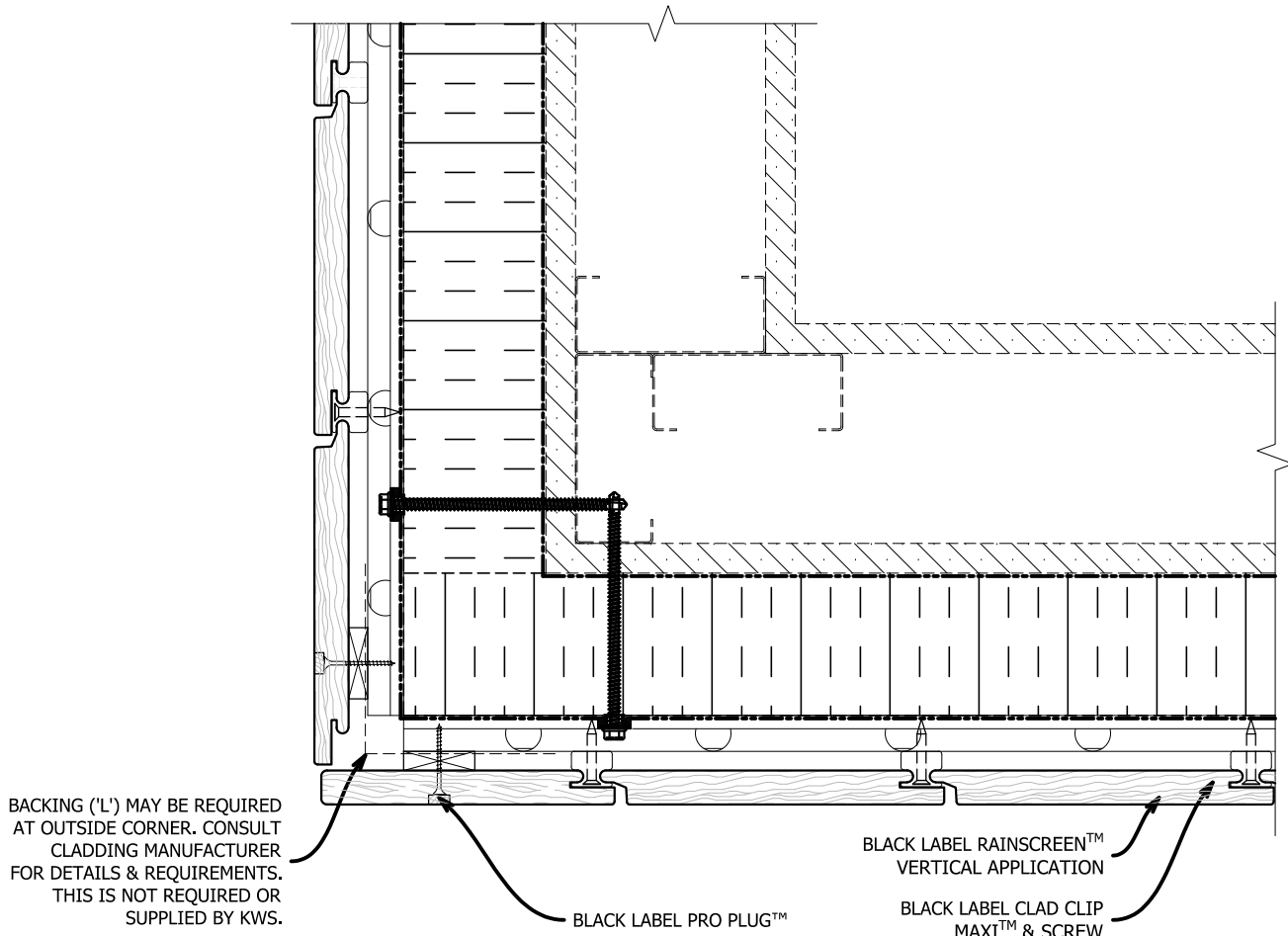


16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT
OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE)
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TYPICAL OUTSIDE CORNER CONDITION SCALE: 3"=1'-0"

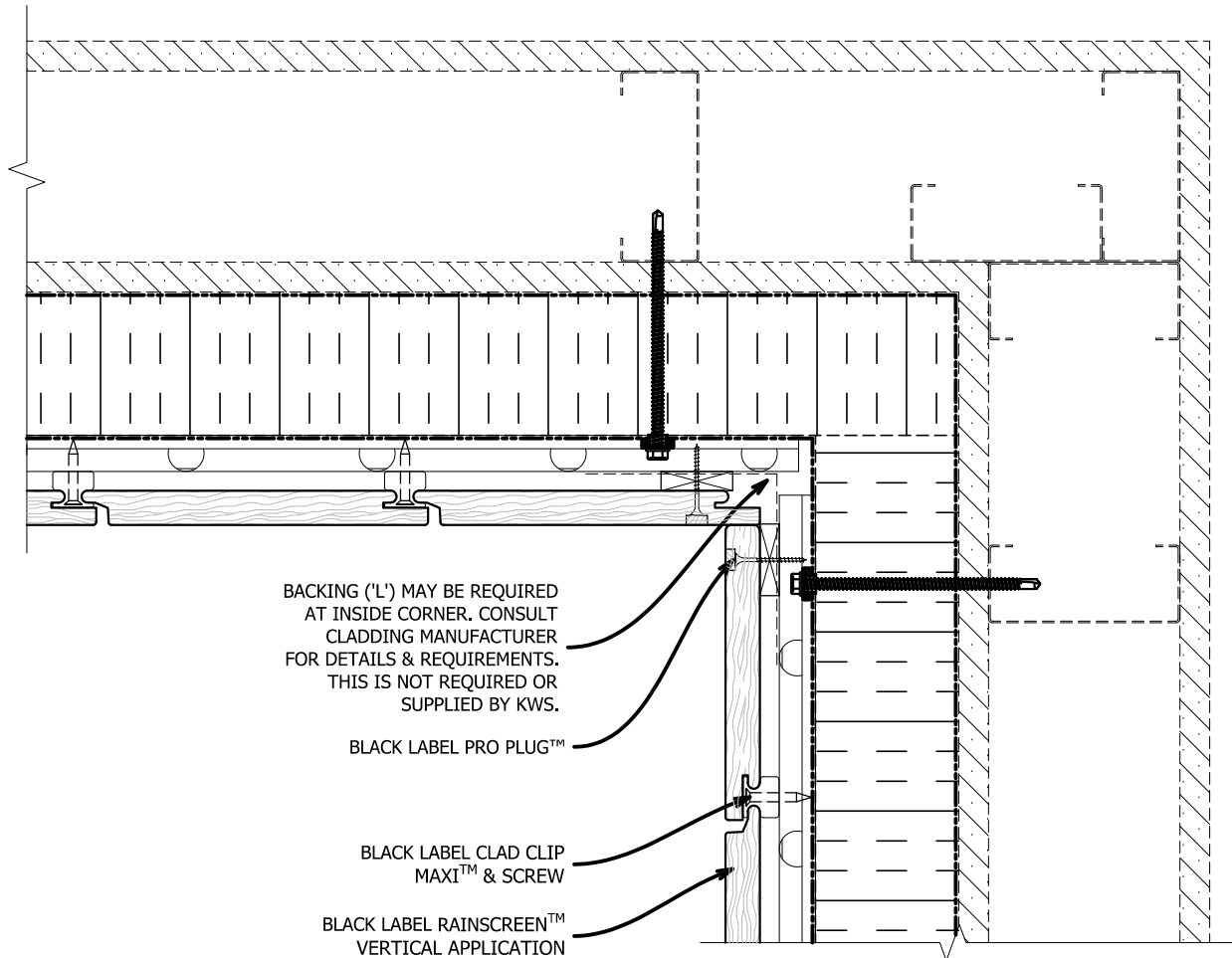


16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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TYPICAL INSIDE CORNER CONDITION SCALE: 3"=1'-0"



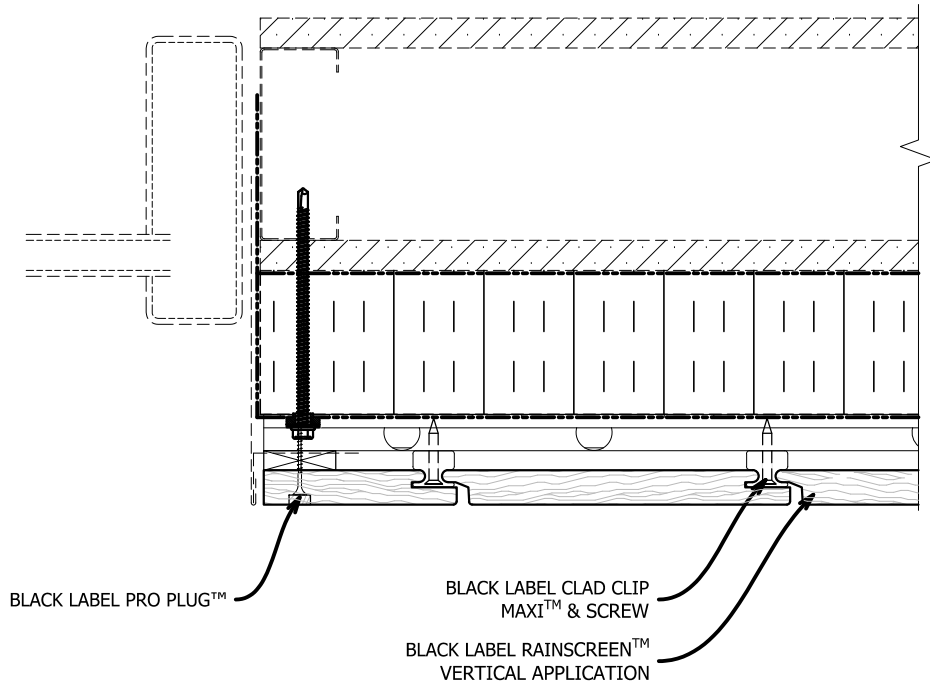
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16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

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TYPICAL JAMB CONDITION SCALE: 3"=1'-0"



DO NOT ALLOW HCI-Girt TO OVERHANG INSULATION.

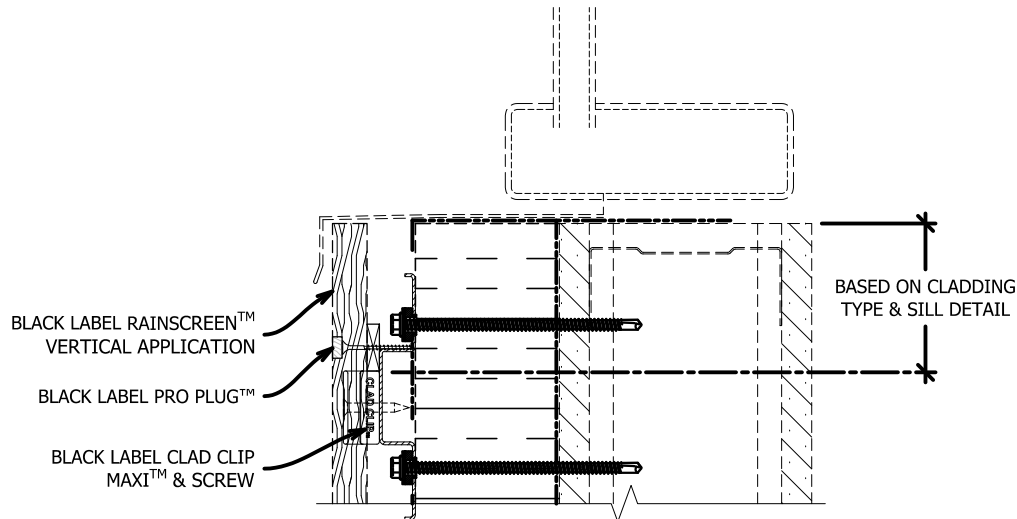
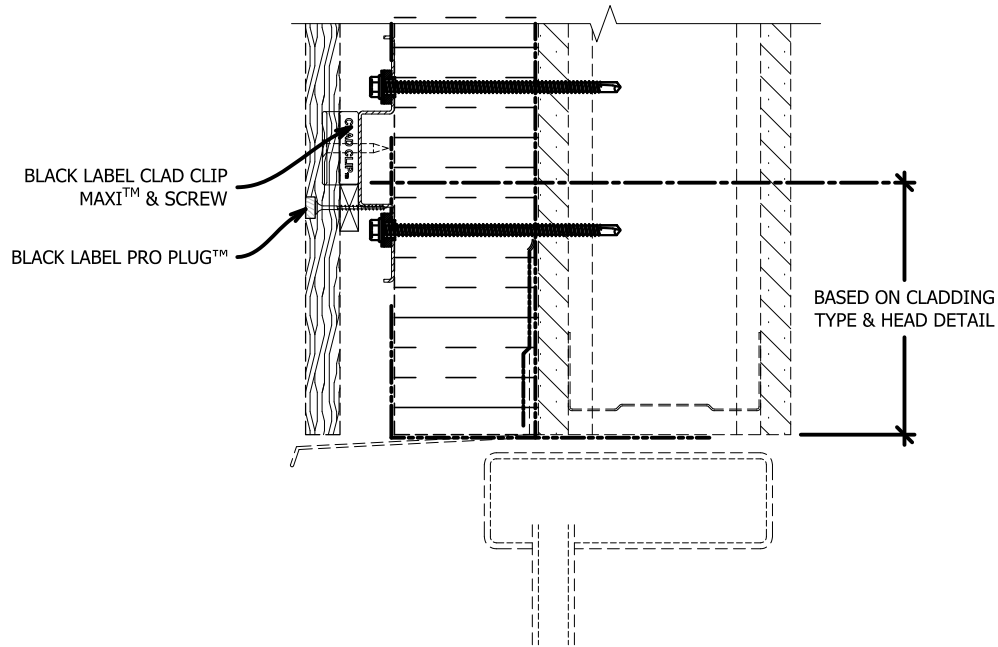
* FLASHING DETAILS VARY BASED ON WINDOW TYPE,
POSITION (INSET VS FLUSH) AND CLADDING TYPE.
FLASHING IS NOT BY KWS.

16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

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TYPICAL HEAD & SILL CONDITION SCALE: 3"=1'-0"



ENSURE THE CI-Girt DOES NOT EXTEND/CANTILEVER PAST INSULATION.

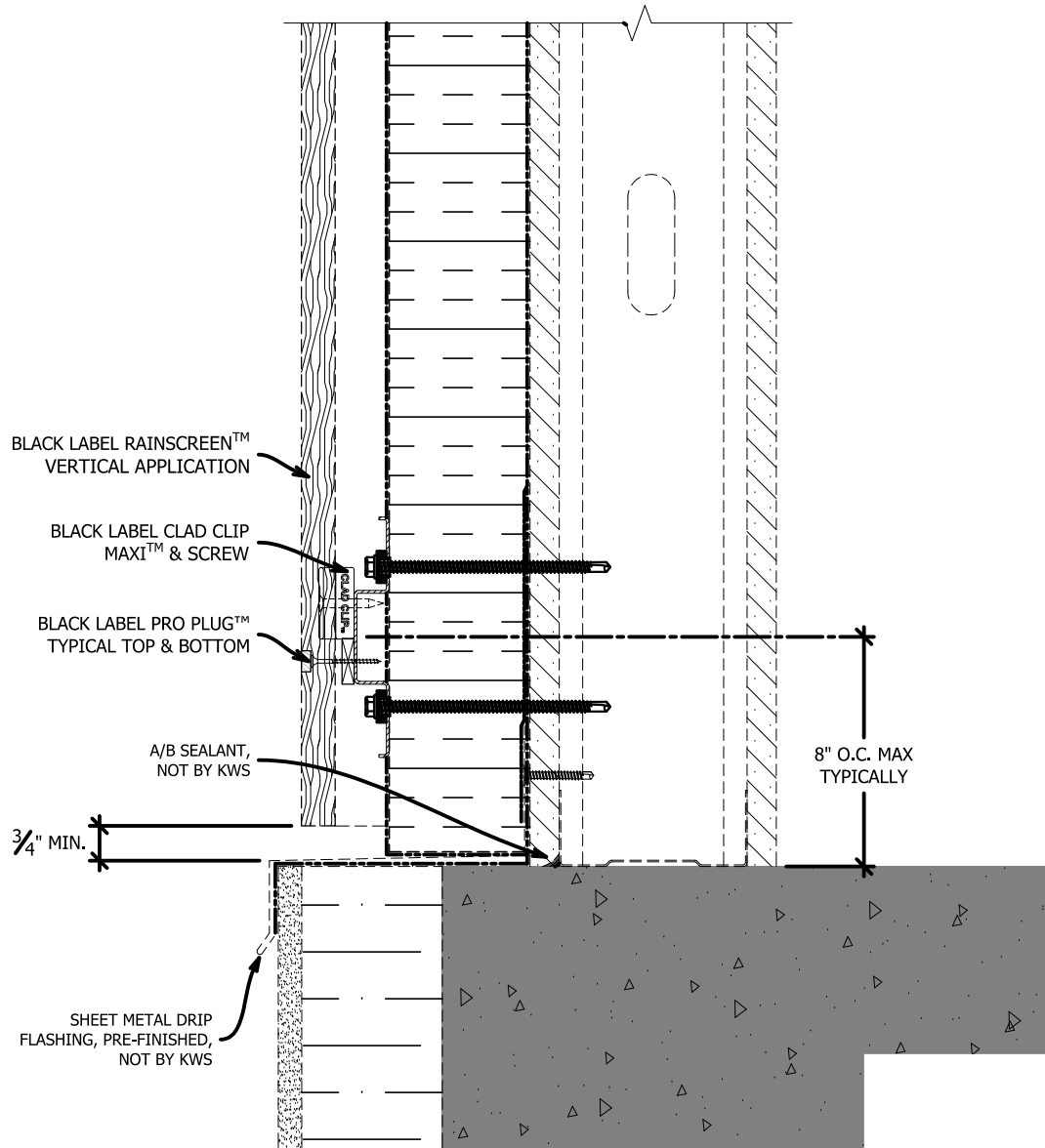
16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE) ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

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TYPICAL BASE OF WALL CONDITION SCALE: 3"=1'-0"



* CLEAR & UNRESTRICTED VENTILATION & DRAINAGE
REQUIRED AT BASE OF WALL

16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

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TYPICAL FLOOR DEFLECTION JOINT SCALE: 3"=1'-0"

NOTE:

MAXIMUM PanelRail CANTILEVER
BEYOND A HCI-GIRT VARIES PER
PROJECT. TYPICALLY IT WILL
RANGE FROM 6"-14".

BLACK LABEL RAINSCREEN™
VERTICAL APPLICATION

BLACK LABEL CLAD CLIP
MAXI™ & SCREW

SCREW & BLACK LABEL PRO PLUG™
TYPICAL TOP & BOTTOM

FIBER OR OPEN CELL FOAM
COMPRESSIBLE INSULATION,
CONSULT INSULATION
MANUFACTURER FOR
DETAILS, NOT BY KWS

GAP BETWEEN RAILS TYPICALLY
EQUALS 1.5x THE EXPECTED
FLOOR MOVEMENT, MINIMUM
OF 3/8" AND MAXIMUM OF 1.5"

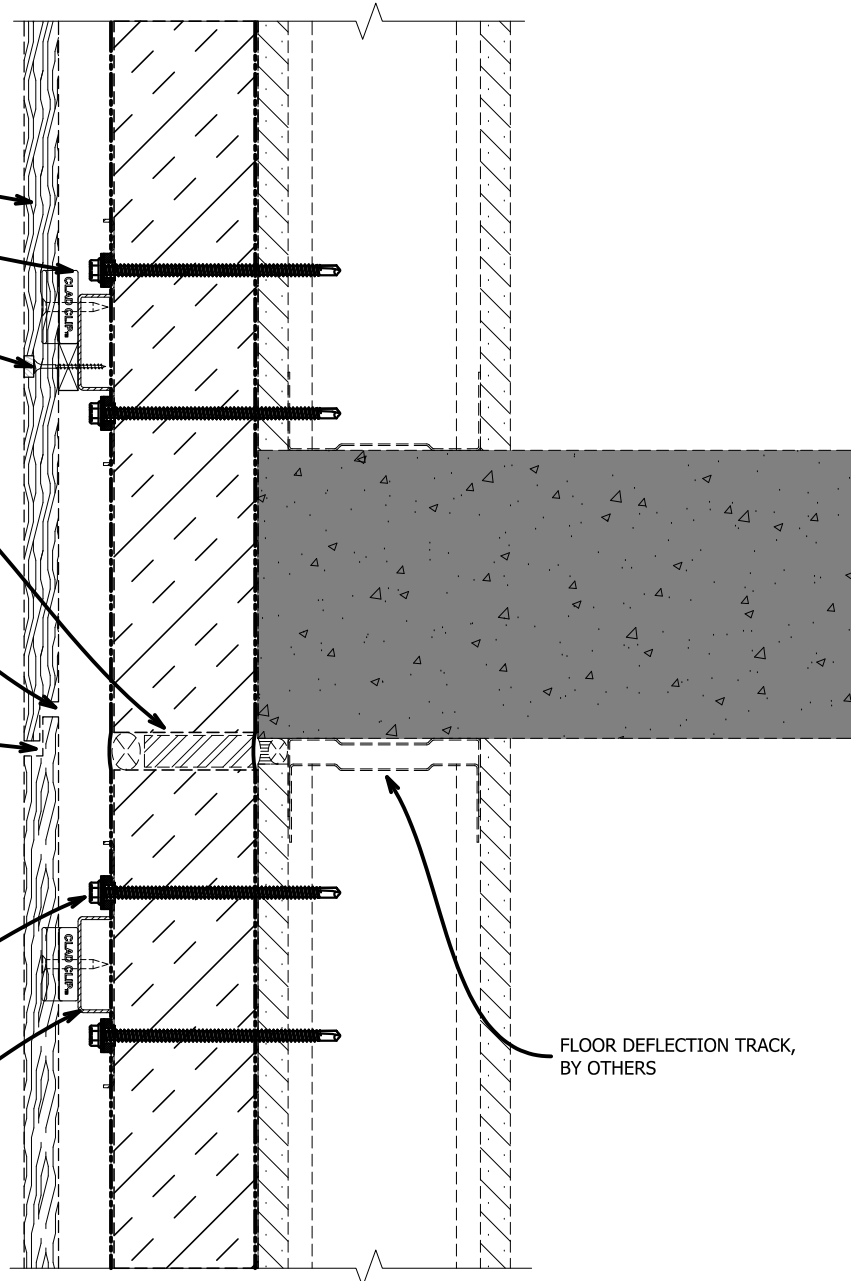
A BREAK/MOVEMENT JOINT IN
CLADDING MUST COINCIDE WITH
BREAK IN ATTACHMENT SYSTEM
AND FLOOR DEFLECTION JOINTS
TO PREVENT DAMAGE AND STRESS
ON WALL SYSTEM, CONSULT CLADDING
MANUFACTURER FOR DETAILS,
NOT BY KWS

HCI-Girt WALL ANCHOR MUST NOT
INFRINGE ON STEEL STUD
FLOOR DEFLECTION TRACK
MOVEMENT

HORIZONTAL HCI-GIRT™,
PERFORATED, 18 gauge, 50 ksi, ASTM
A1046 ZM40 Zn-Al-Mg ULTRA
ANTI-CORROSION COATING, BY KWS

16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

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KNIGHT WALL SYSTEMS GENERAL NOTES:

- KNIGHT WALL SYSTEMS (KWS) IS NOT RESPONSIBLE FOR INFORMATION SHOWN ON ALL DETAILS BEYOND KWS SPECIFIC SCOPE OF WORK (INDICATED AS "BY KWS").
- ALWAYS CONSULT THE PANELS INSTALLATION & DESIGN MANUAL FOR FURTHER INFORMATION AND THE LATEST REQUIREMENTS ON ANY PANEL INSTALLATION. THESE DETAILS ARE ONLY TO COMMUNICATE HOW KWS ATTACHMENT SYSTEMS CAN BE USED WITH CLADDING PANELS/SIDING, NOT NECESSARILY THE PANEL/SIDING REQUIREMENTS AS THEY VARY FROM MANUFACTURER TO MANUFACTURER.
- SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).
- PROJECT SPECIFIC ENGINEERING CAN BE PROVIDED BY KWS AND IS REQUIRED FOR A 10 YEAR LIMITED WRITTEN WARRANTY. KWS PROJECT SPECIFIC ENGINEERING, IF SUPPLIED, IS LIMITED TO THE LOAD CARRYING COMPONENTS OF THE PRODUCTS AND FASTENERS SUPPLIED BY KWS. THE BACK-UP WALL, WALL CLADDING PANELS AND/OR RAILS SUPPLIED BY OTHERS ARE WITH OTHER PARTIES.
- PLEASE READ OUR INSTALLATION AND DESIGN RECOMMENDATIONS DOCUMENT FOR FURTHER INFORMATION THAT IS IMPORTANT FOR YOUR SPECIFIC PROJECT AND PROPER INSTALLATION.
- DETAILS OF ADJACENT WORK ARE SHOWN FOR COMPLETENESS, CLARITY AND CONVENIENCE AS AN EXAMPLE OF A BUILT ENVIRONMENT ONLY.
- THE STRUCTURAL SUPPORT, BACK-UP WALL AND SUPER STRUCTURE DESIGN IS WITH OTHER PARTIES (SUCH AS, BUT NOT LIMITED TO, STEEL STUD WALL, etc.). THE RESPONSIBILITY FOR THESE OTHER ASSEMBLIES TO ACCOMMODATE ALL LOADS IMPOSED UPON THEM BY KWS PRODUCTS, OR ANY ATTACHMENT OR PANEL SYSTEM, SHOULD BE CONSIDERED.
- SOFT JOINTS, SEALANT AND FLASHING SPECIFICATIONS, DESIGN AND INSTALLATION ARE WITH OTHER PARTIES.
- WEATHER RESISTANT/AIR BARRIER AND INSULATION SPECIFICATIONS, DETAILING AND INSTALLATION, INCLUDING PENETRATIONS, ARE WITH OTHER PARTIES.
- INTERACTION BETWEEN DISSIMILAR MATERIALS, SUCH AS ALUMINUM AND STEEL, CAN BE SEPARATED VIA PLASTIC SHIMS, TAPE OR COATING TO PREVENT GALVANIC REACTION.
- USE SHEARING INSTRUMENTS FOR CUTTING METAL FRAMING COMPONENTS. SAWS ARE NOT RECOMMENDED, AS THE SPARKS PRODUCED DURING CUTTING WILL DAMAGE THE ANTI-CORROSION COATING. IF SPARKS ARE GENERATED DURING CUTTING, BE SURE THE PORTION OF THE COMPONENT TO BE INSTALLED ON THE BUILDING IS PROTECTED FROM SPARKS. THE SYSTEMS COMPONENTS MUST NOT BE CUT WHILE INSTALLED ON THE BUILDING UNLESS USING A SHEARING INSTRUMENT (I.E. SNIPS, etc.).
- USE OF IMPACT DRIVERS IS NOT RECOMMENDED WHEN DRIVING ANY FASTENER FOR THE SYSTEM.
- EXTERIOR INSULATION CAN BE RIGID FOAM PLASTIC OR HIGH-DENSITY STONE WOOL (COMFORTBOARD 110).
- CI, CI-Girt, HCI, HCI-Girt, RevealRail, Reveal-Girt, PanelRail and ThermaStop are trademarks of Knight Wall Systems, inc.
- THE DETAILS WITHIN THIS DRAWING PACKAGE ARE NOT INTENDED TO REPLACE PROJECT SPECIFIC ENGINEERING CALCULATIONS OR THE DESIGN SERVICES OF A REGISTERED PROFESSIONAL DESIGNER AND ARE SUBJECT TO CHANGE AT ANY TIME.

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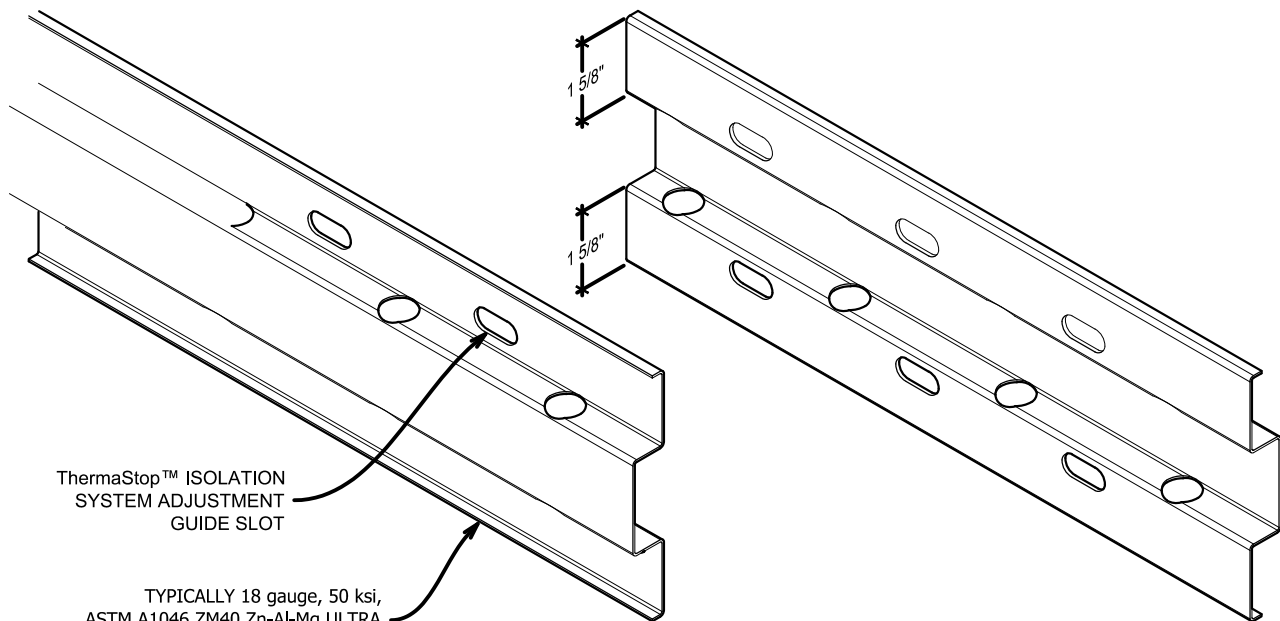
10/08/2018

PLEASE FEEL FREE TO CONTACT KWS OR A LOCAL KWS REPRESENTATIVE FOR
PROJECT SPECIFIC ASSISTANCE WITH DETAILS AND SPECIFYING
1.855.KWS.WALL
Info@knightwallsystems.com
www.knightwallsystems.com

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PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN

KNIGHT WALL HCI™ System (HCI-Girt ONLY)
RAINSOON ATTACHMENT



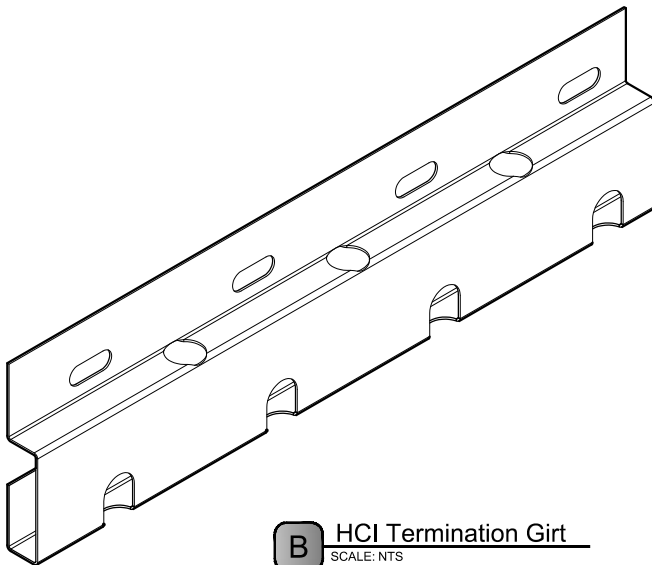
ThermaStop™ ISOLATION
SYSTEM ADJUSTMENT
GUIDE SLOT

TYPICALLY 18 gauge, 50 ksi,
ASTM A1046 ZM40 Zn-Al-Mg ULTRA
ANTI-CORROSION COATING, BY KWS

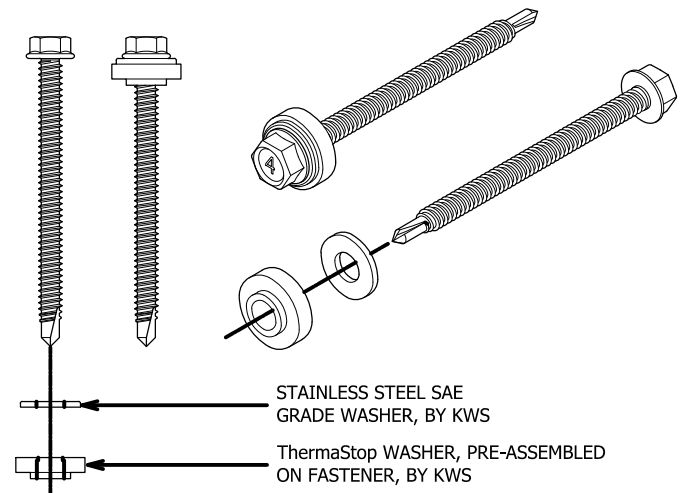
FRONT VIEW

BACK VIEW

A HCI-Girt™
SCALE: NTS



B HCI Termination Girt
SCALE: NTS



C ThermaStop™ THERMAL ISOLATION WASHER ASSEMBLY
SCALE: NTS

16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
(304) AVAILABLE

*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT
OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE)
ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

16

ISOMETRIC VIEW OF COMPONENTS BY KWS

SCALE: NTS

10/16/2016

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**KNIGHT WALL HCI™ System (HCI-Girt ONLY)
RAINSCREEN ATTACHMENT**