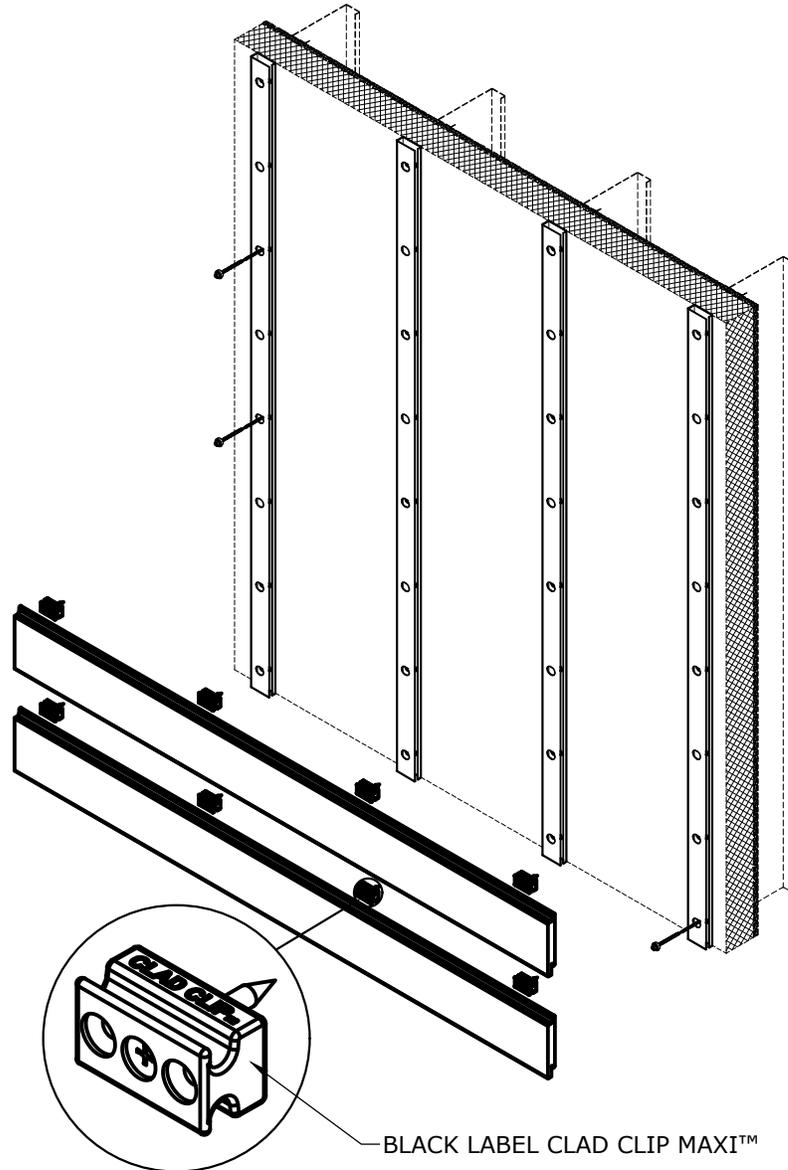


BLACK LABEL CLAD CLIP™ GUIDE DETAILS: HORIZONTAL RAINSCREEN ATTACHMENT W/ KNIGHT WALL CI™ SYSTEM (VERTICAL CI-GIRT ONLY)



BLACK LABEL HORIZONTAL APPLICATION VERTICAL ORIENTATED GIRT ONLY

SYSTEM DEPTH W/ BLACK LABEL RAINSCREEN™ & BLACK LABEL CLAD CLIP™:

W/ CI GIRT: 1" RAINSCREEN = 1.875", 5/4" RAINSCREEN = 2"

W/ CI GIRT 150: 1" RAINSCREEN = 2.625", 5/4" RAINSCREEN = 2.75"

(FACE OF RIGID INSULATION TO FACE OF RAINSCREEN)

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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 VANISH RAIN SCREEN 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.
- TROPICAL FOREST PRODUCTS 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 TROPICAL FOREST PRODUCTS 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. TROPICAL FOREST PRODUCTS 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 TROPICAL FOREST PRODUCTS. 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 TROPICAL FOREST PRODUCTS CAN GIVE ASSURANCE THAT MOLD WILL NOT DEVELOP.

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25. ISOMETRIC VIEW OF COMPONENTS BY KNIGHT WALL (KWS)

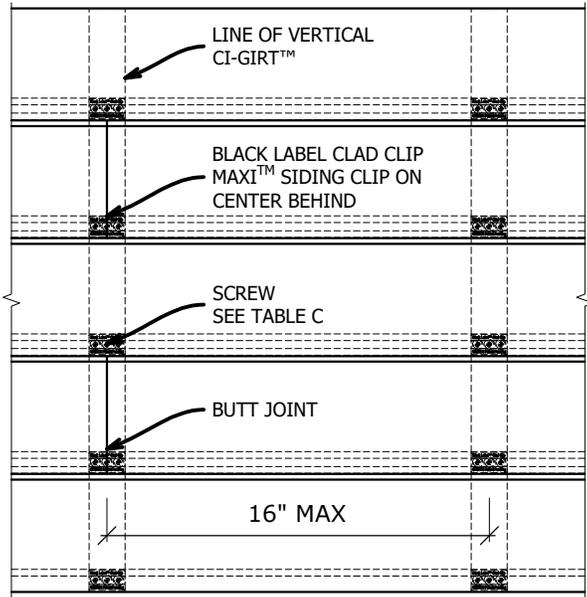
PLEASE FEEL FREE TO CONTACT TROPICAL FOREST DUCTS FOR PROJECT SPECIFIC ASSISTANCE WITH TFP® CLADDING OPTIONS AND SPECIFIC ASSISTANCE.

905.672.8000 OR 855.344.4500

info@wearetropical.com

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CLAD CLIP SPECS



A ELEVATION
SCALE: NTS

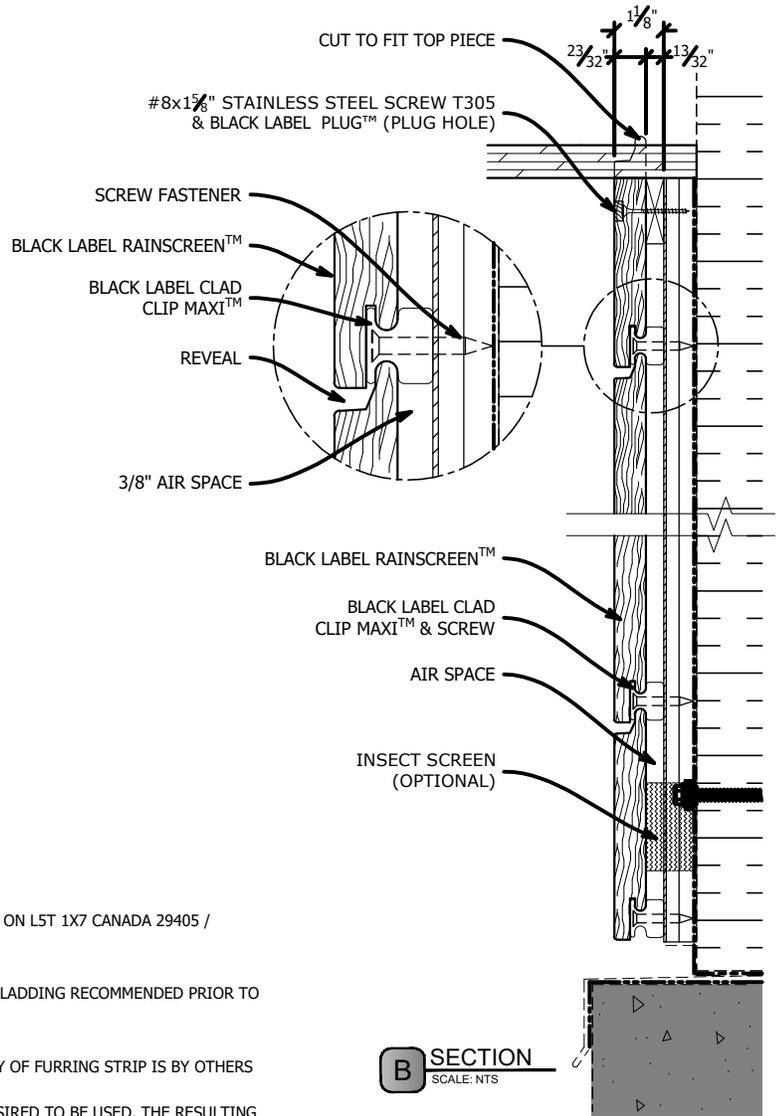
NOTES

1. BASIS OF DESIGN - TFP® RAINSCREEN SYSTEM - ADDRESS: 6200 TOMKEN RD, MISSISSAUGA, ON L5T 1X7 CANADA 29405 / PHONE: 905.672.8000
2. TFP® CLADDING - WOOD SPECIES AS DENOTED IN PLANS AND SPECIFICATIONS
3. APPLICATION OF FIRST COAT OF BLACK LABEL IPE + MARINE OIL TO ALL FACES OF WOOD CLADDING RECOMMENDED PRIOR TO CLADDING INSTALLATION
4. USE #10 X 1.25" 410 STAINLESS STEEL SELF DRILLING FLAT HEAD SCREW SUPPLIED BY TFP
5. IF METAL FURRING STRIPS ARE USED, USE #10 X 3/4" SCREW. ATTACHMENT AND INTEGRITY OF FURRING STRIP IS BY OTHERS AND SHALL MEET ALL IMPOSING LOADS, METAL FURRING MUST BE 18 GA MINIMUM.
6. 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.
7. ALL WORK SPECIFIED HEREIN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014)
8. ALL MATERIALS USED & FABRICATION METHODS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED AND APVED REQUIREMENTS.
9. ALL FASTENERS TO BE STAINLESS STEEL.

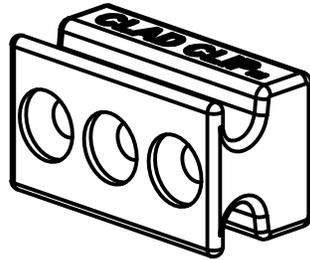
SIDING SIZES	TYPE OF CONNECTION	PANEL/FURRING THICKNESS	CLIP SPACING	CLIP TYPE	SCREWS PER CLIP	SCREW	ALLOWABLE PRESSURE
1" X 6"	CLIP TO STEEL FURRING	16 GA	16"	MAXI	1 PCS.	#10 X 1.25	110.0 PSF
1" x 4"	CLIP TO STEEL FURRING	16 GA.	16"	MAXI	1 PCS.	#10 X 1.25	110.0 PSF

C RAINSCREEN ATTACHMENT TABLE
SCALE: NTS

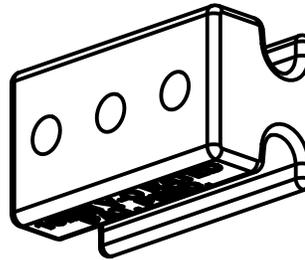
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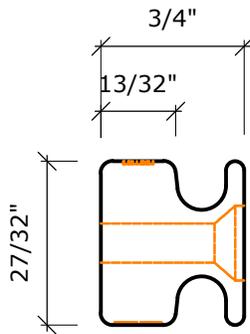
BLACK LABEL CLAD CLIP™ DETAILS SCALE: FULL



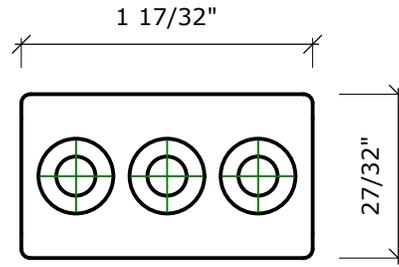
ISOMETRIC



REAR ISOMETRIC



SIDE VIEW



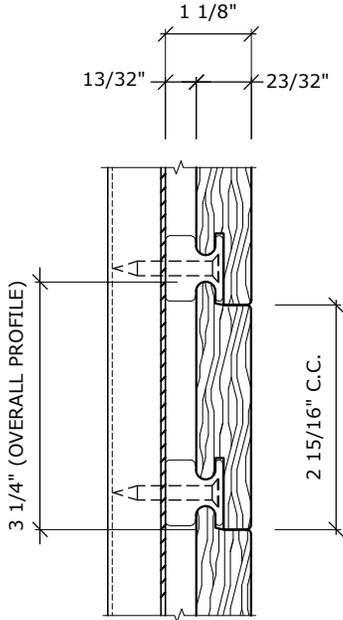
FRONT VIEW

A BLACK LABEL CLAD CLIP MAXI - BLCCMAX10MMVO
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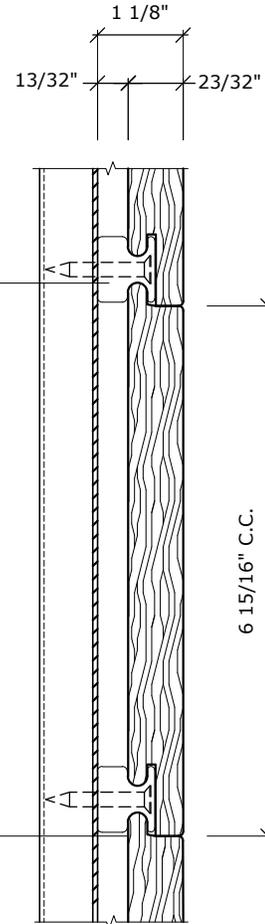
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LAYUP DIMENSIONS - 1" WITH NO REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" 1/4 NO REVEAL RAINSCREEN
 SCALE: NTS



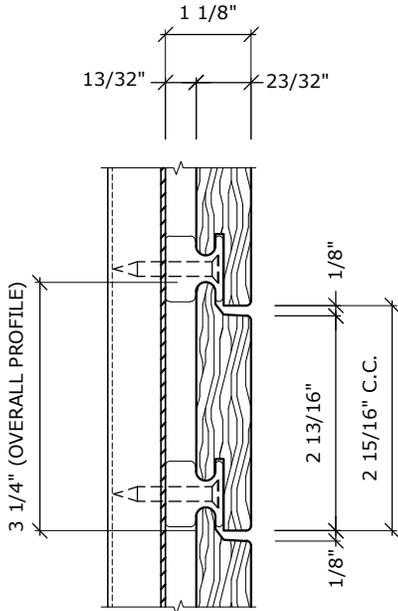
B BLACK LABEL CLAD CLIP MAXI w/ 1" X 6" 1/4 NO REVEAL RAINSCREEN
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C BLACK LABEL CLAD CLIP MAXI w/ 1" X 8" 1/4 NO REVEAL RAINSCREEN
 SCALE: NTS

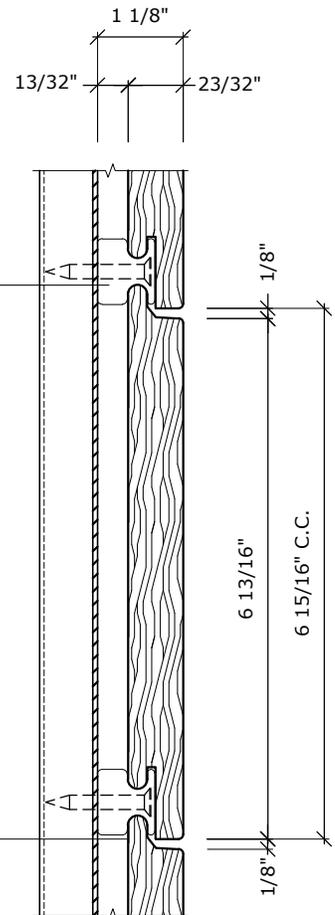
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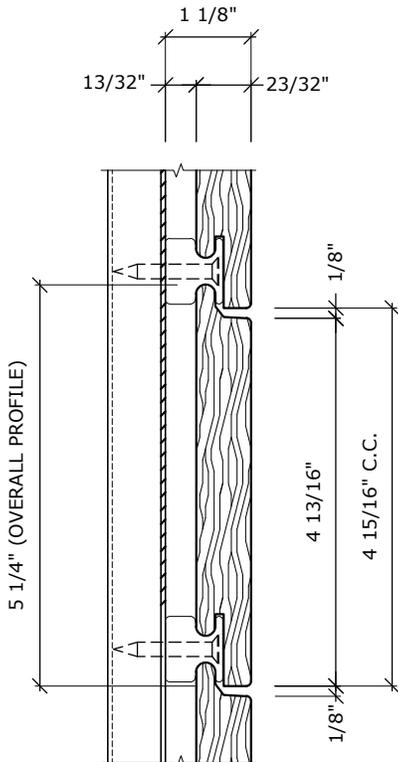
LAYUP DIMENSIONS - 1" WITH 1/8" REVEAL
SCALE: NTS



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



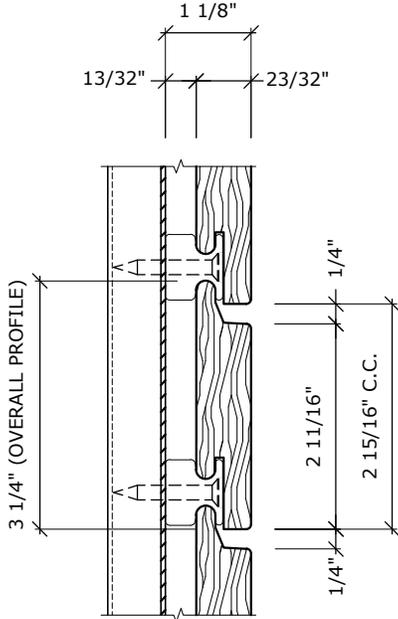
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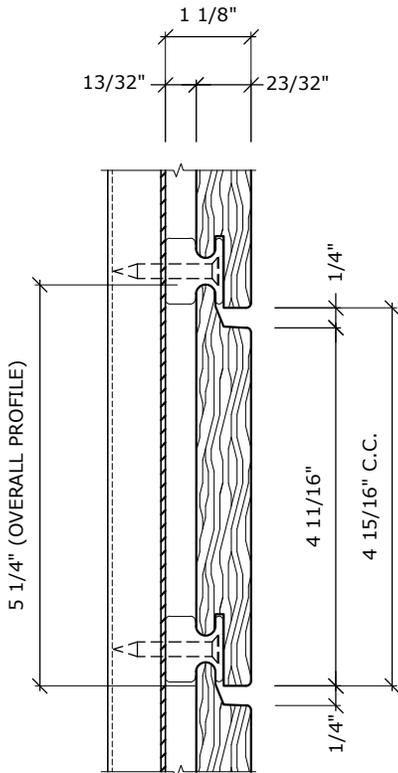
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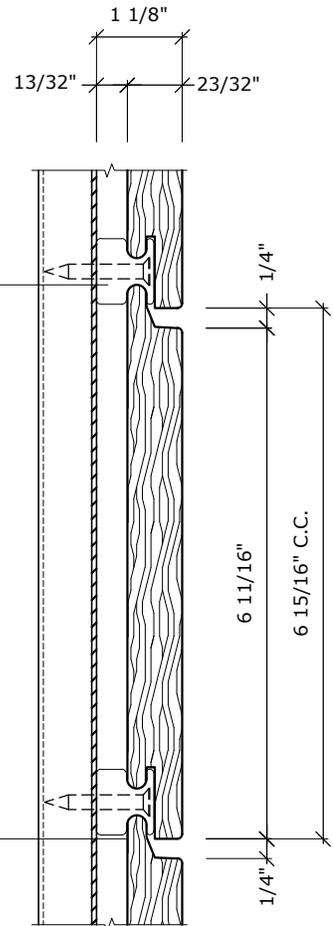
LAYUP DIMENSIONS - 1" WITH 1/4" REVEAL
SCALE: NTS



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



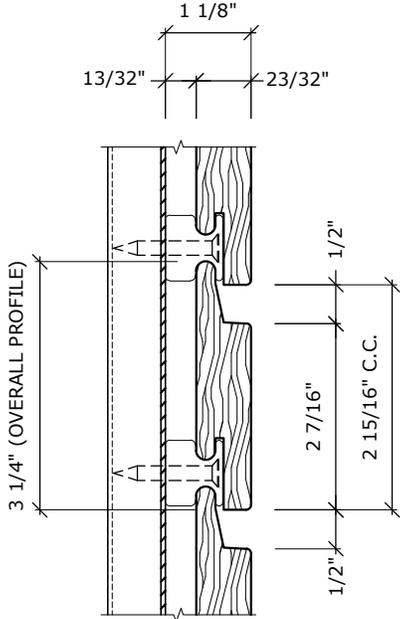
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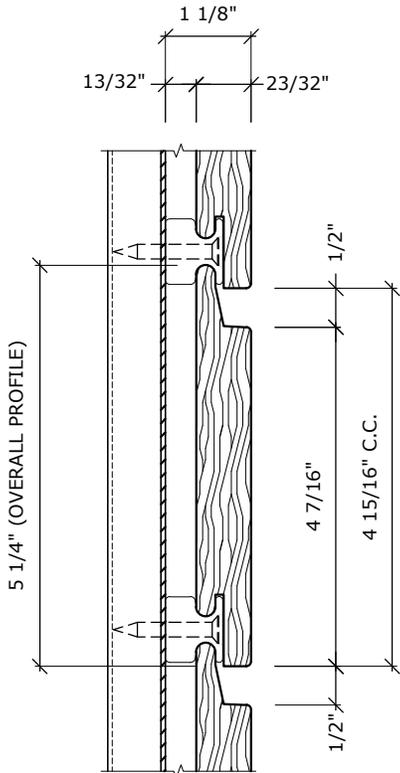
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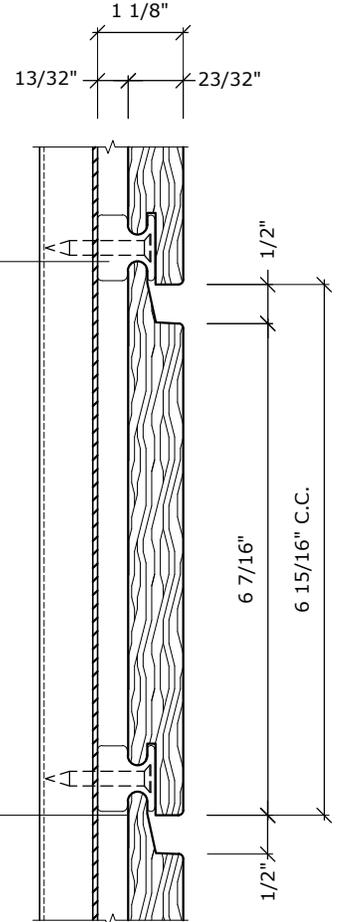
LAYUP DIMENSIONS - 1" WITH 1/2" REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" 1/2 REVEAL RAINSCREEN
 SCALE: NTS



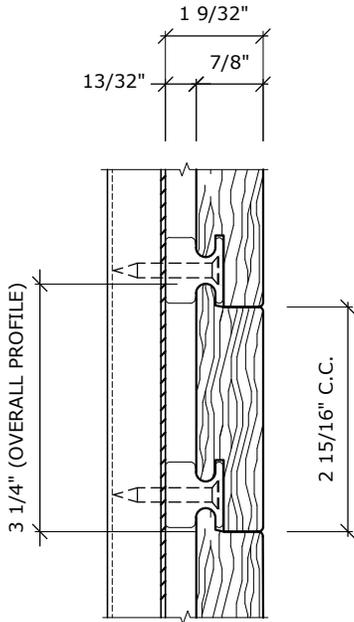
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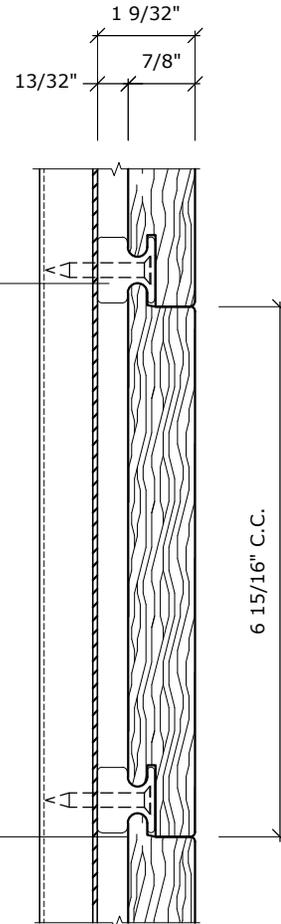
C BLACK LABEL CLAD CLIP MAXI w/ 1" X 8" 1/2 REVEAL RAINSCREEN
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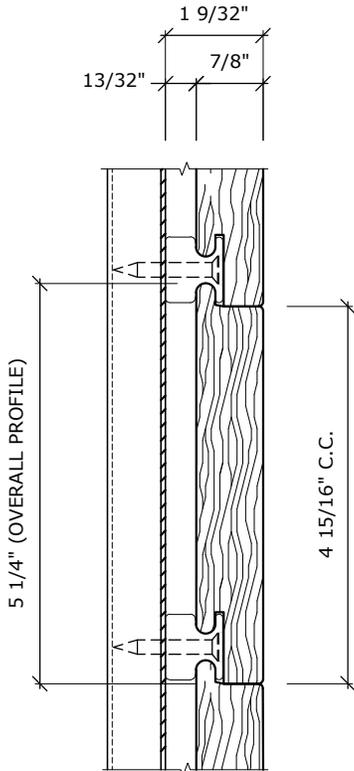
LAYUP DIMENSIONS - 5/4" WITH NO REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 4" 1/4 NO REVEAL RAINSCREEN
 SCALE: NTS



C BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 8" 1/4 NO REVEAL RAINSCREEN
 SCALE: NTS

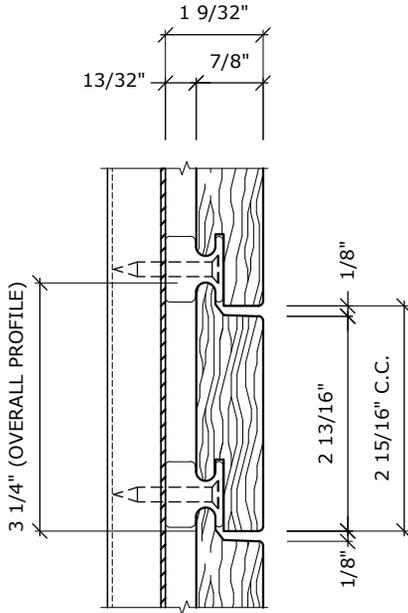


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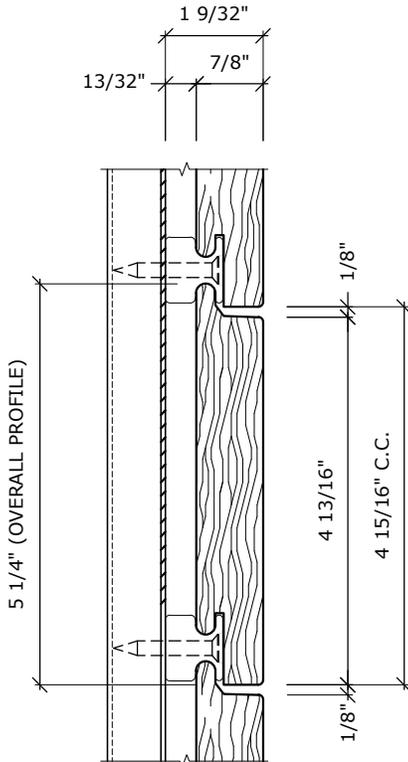
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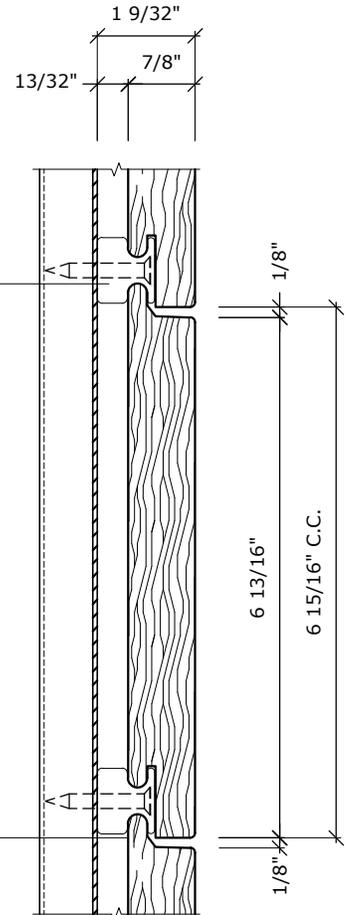
LAYUP DIMENSIONS - 5/4" WITH 1/8" REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 4" 1/8 REVEAL RAINSCREEN
 SCALE: NTS



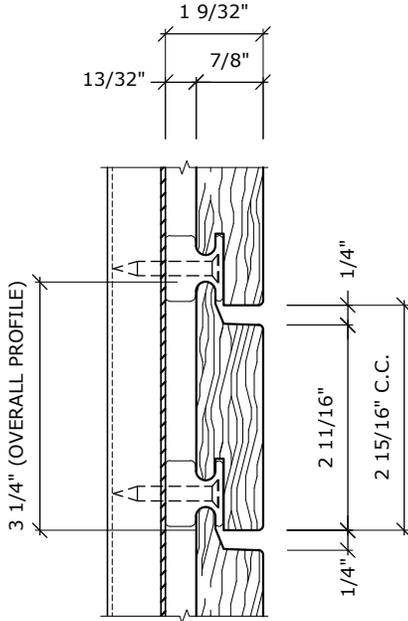
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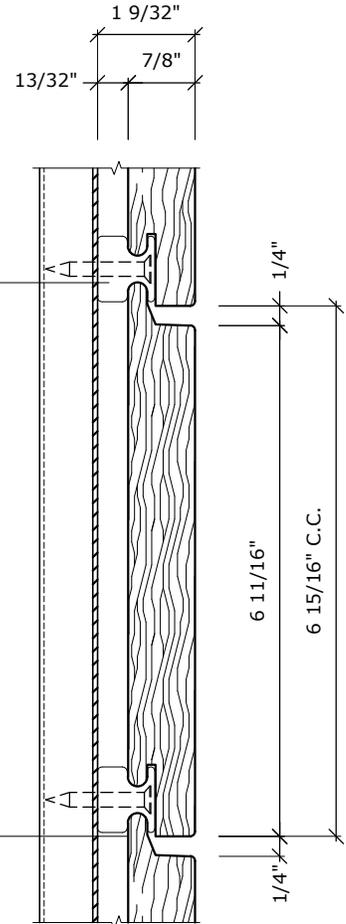
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 SCALE: NTS

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LAYUP DIMENSIONS - 5/4" WITH 1/4" REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 4" 1/4 REVEAL RAINSCREEN
 SCALE: NTS

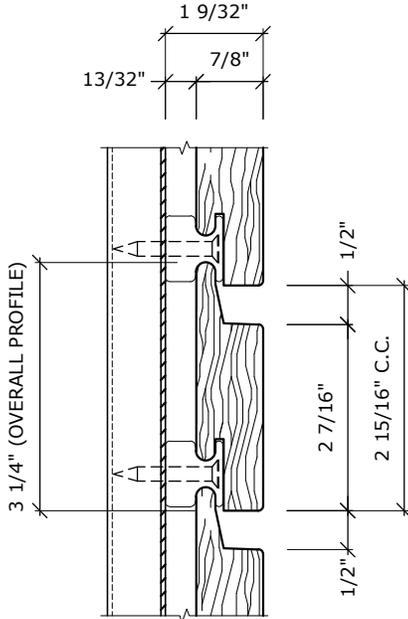


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 SCALE: NTS

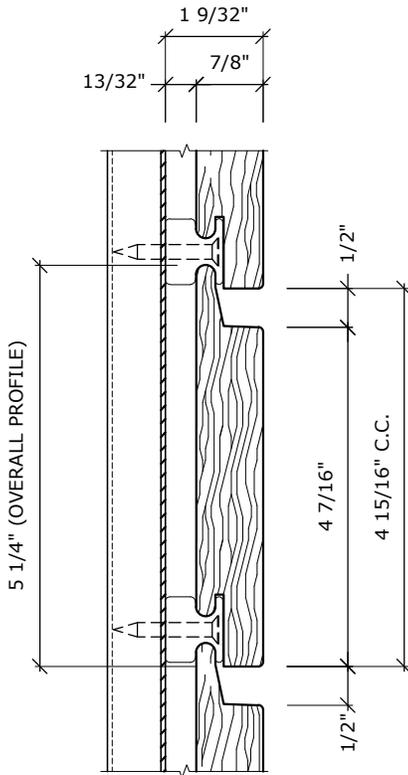
C BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 8" 1/4 REVEAL RAINSCREEN
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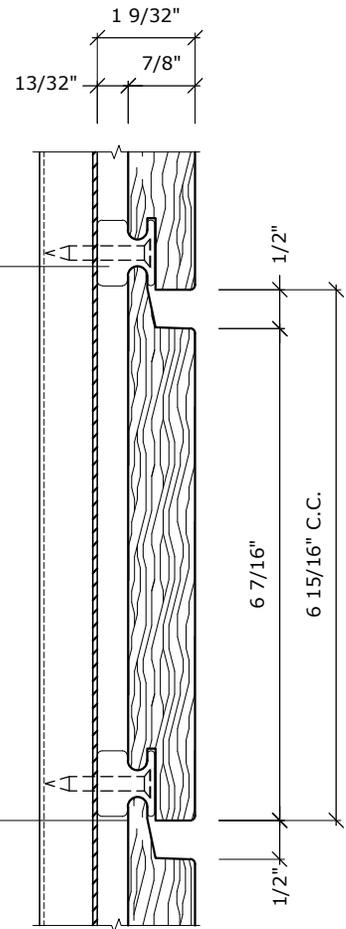
LAYUP DIMENSIONS - 5/4" WITH 1/2" REVEAL
SCALE: NTS



A BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 4" 1/2 REVEAL RAINSCREEN
 SCALE: NTS



B BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 6" 1/2 REVEAL RAINSCREEN
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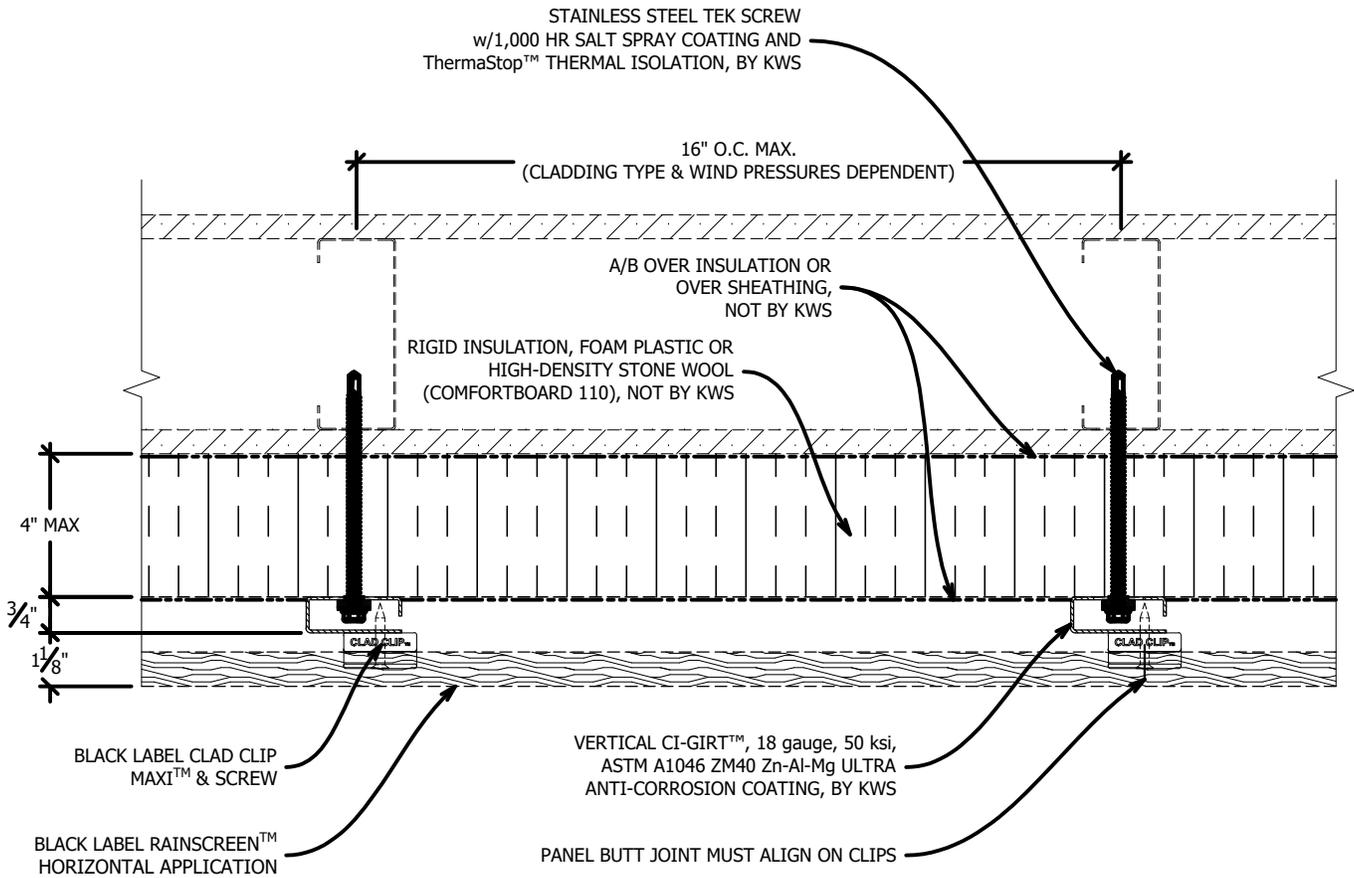


C BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 8" 1/2 REVEAL RAINSCREEN
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TYPICAL PLAN VIEW: CI GIRT ONLY
SCALE: 3"=1'-0"

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

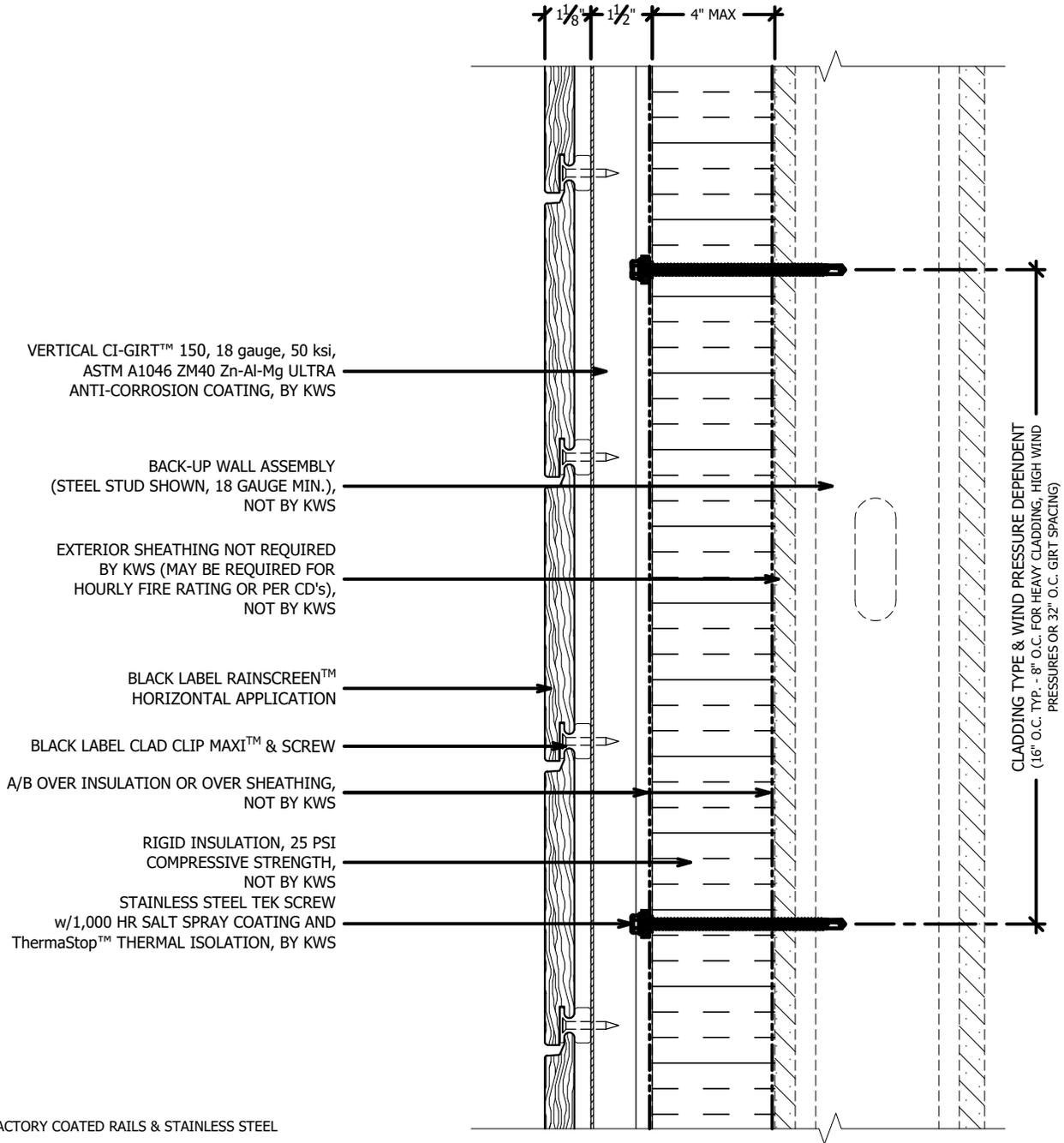


16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
 (304) AVAILABLE

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

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TYPICAL SECTION VIEW: CI GIRT 150 ONLY
SCALE: 3"=1'-0"



VERTICAL CI-GIRT™ 150, 18 gauge, 50 ksi,
 ASTM A1046 ZM40 Zn-Al-Mg ULTRA
 ANTI-CORROSION COATING, BY KWS

BACK-UP WALL ASSEMBLY
 (STEEL STUD SHOWN, 18 GAUGE MIN.),
 NOT BY KWS

EXTERIOR SHEATHING NOT REQUIRED
 BY KWS (MAY BE REQUIRED FOR
 HOURLY FIRE RATING OR PER CD'S),
 NOT BY KWS

BLACK LABEL RAINSCREEN™
 HORIZONTAL APPLICATION

BLACK LABEL CLAD CLIP MAXI™ & SCREW

A/B OVER INSULATION OR OVER SHEATHING,
 NOT BY KWS

RIGID INSULATION, 25 PSI
 COMPRESSIVE STRENGTH,
 NOT BY KWS

STAINLESS STEEL TEK SCREW
 w/1,000 HR SALT SPRAY COATING AND
 ThermoStop™ THERMAL ISOLATION, BY KWS

CLADDING TYPE & WIND PRESSURE DEPENDENT
 (16" O.C. TYP. - 8" O.C. FOR HEAVY CLADDING, HIGH WIND
 PRESSURES OR 32" O.C. GIRT SPACING)

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

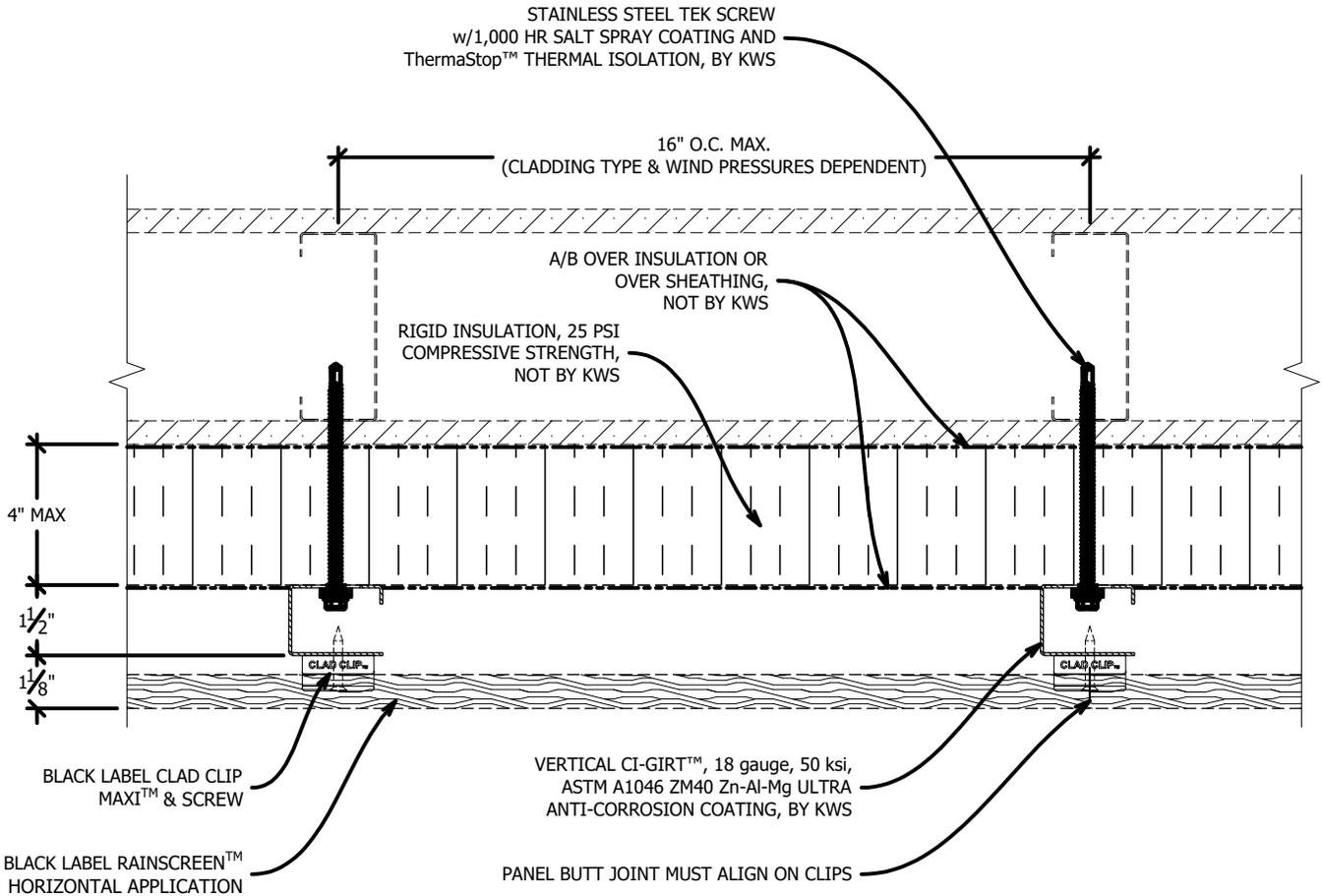
*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT
 OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE)
 ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

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: CI GIRT 150 ONLY
SCALE: 3"=1'-0"

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

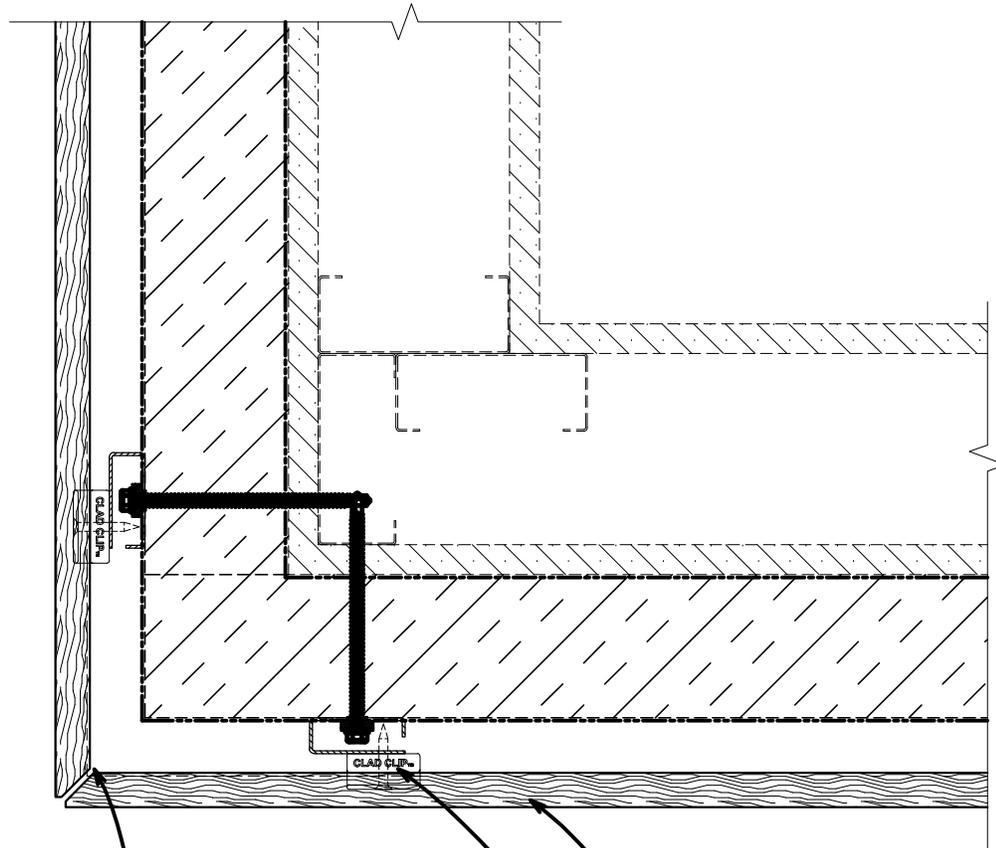


16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL
 (304) AVAILABLE

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



BACKING ('L') MAY BE REQUIRED
AT OUTSIDE CORNER. CONSULT
CLADDING MANUFACTURER
FOR DETAILS & REQUIREMENTS.
THIS IS NOT REQUIRED OR
SUPPLIED BY KWS.

BLACK LABEL RAINSCREEN™
HORIZONTAL APPLICATION

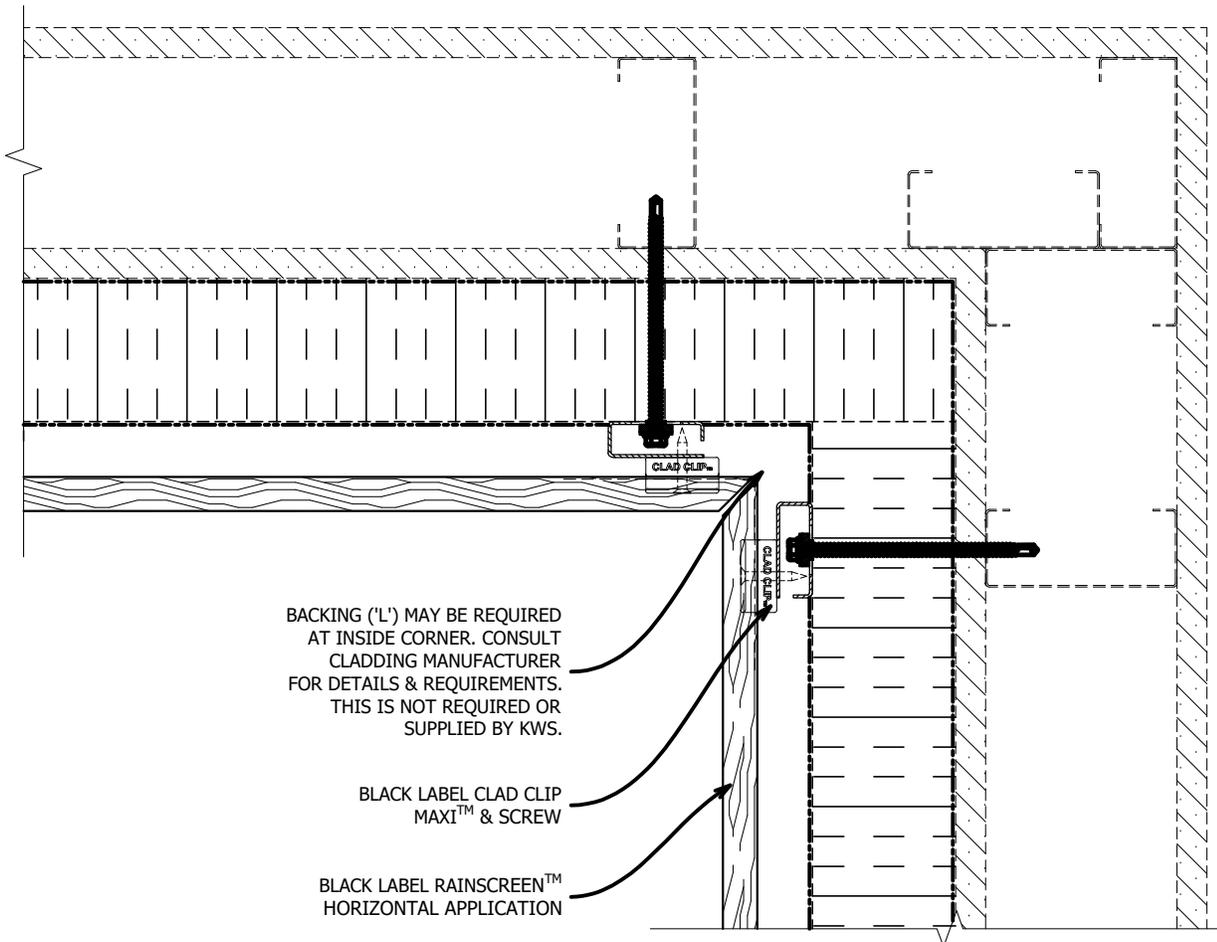
BLACK LABEL CLAD CLIP
MAXI™ & SCREW

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

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

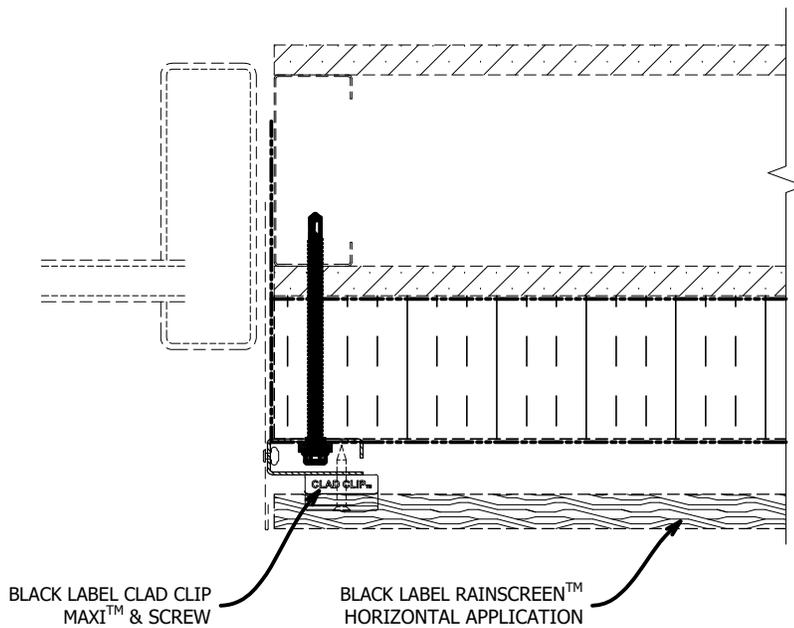


16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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



ENSURE THE FULL WIDTH OF THE CI-Girt RESTS ON INSULATION. DO NOT ALLOW CI-Girt TO OVERHANG INSULATION.

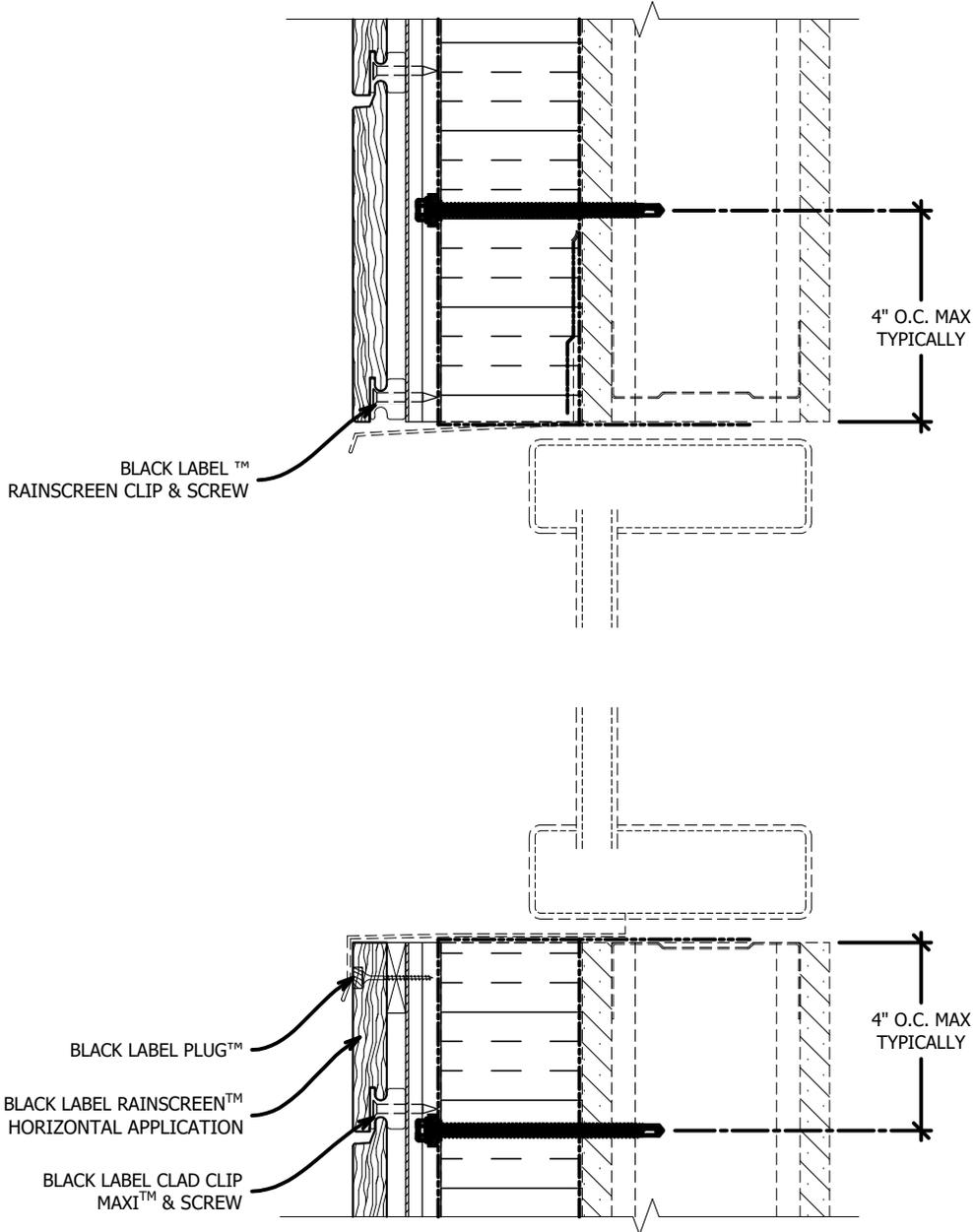
* FLASHING DETAILS VARY BASED ON WINDOW TYPE, POSITION (INSET VS FLUSH) AND CLADDING TYPE. FLASHING IS NOT BY KWS.

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.

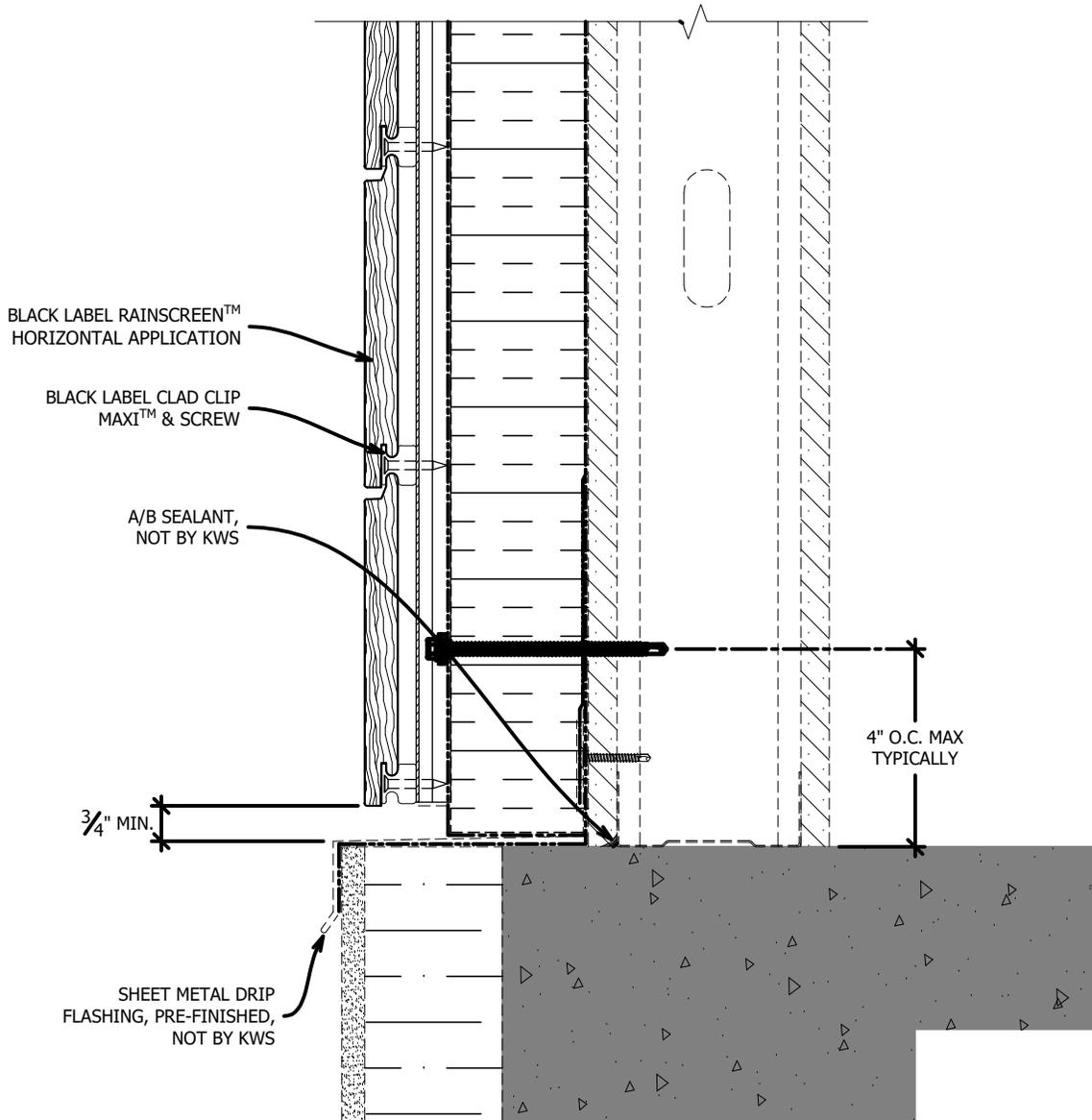
16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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



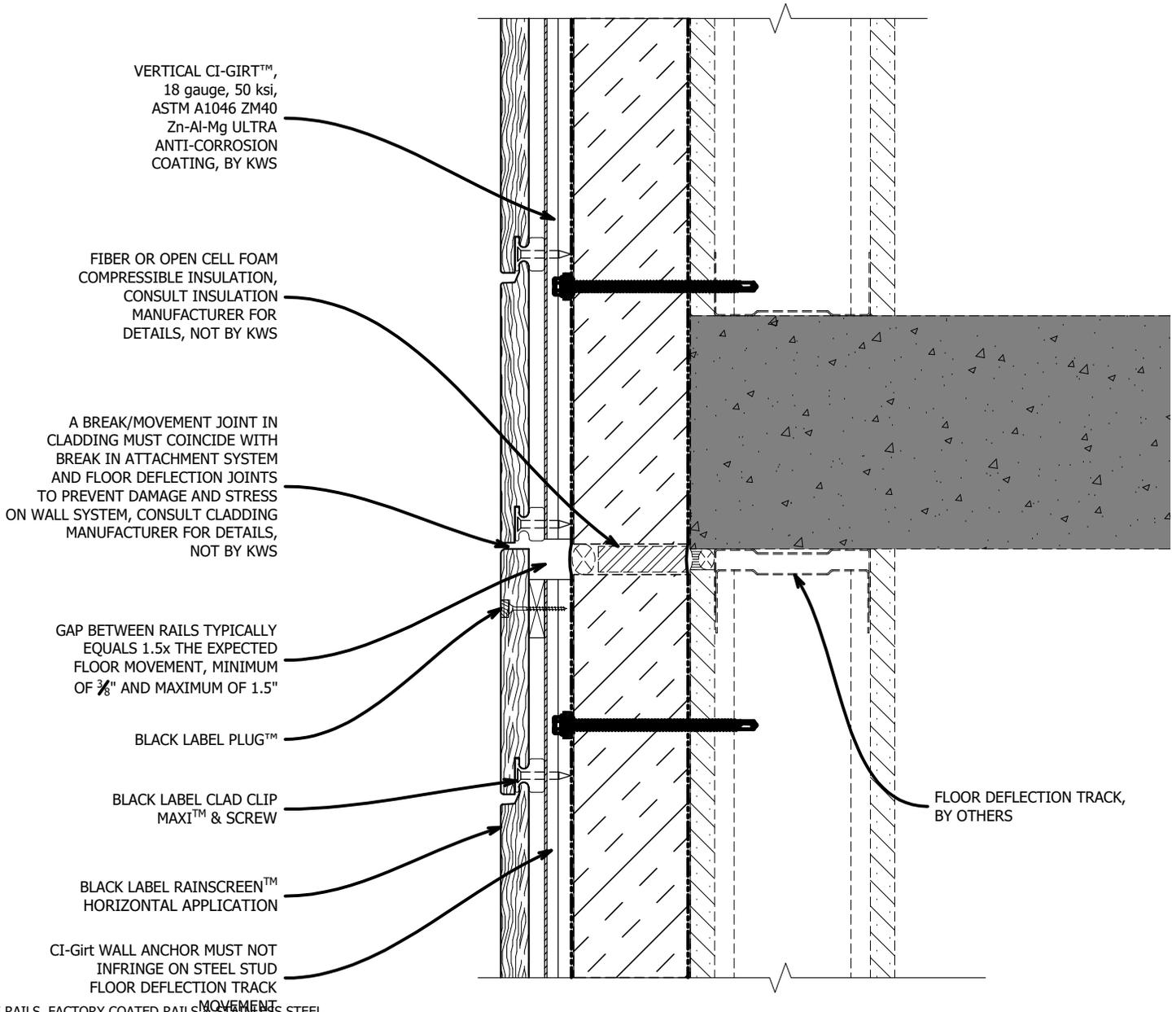
* CLEAR & UNRESTRICTED VENTILATION & DRAINAGE
REQUIRED AT BASE OF WALL

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

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



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

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- 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, MUST 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.
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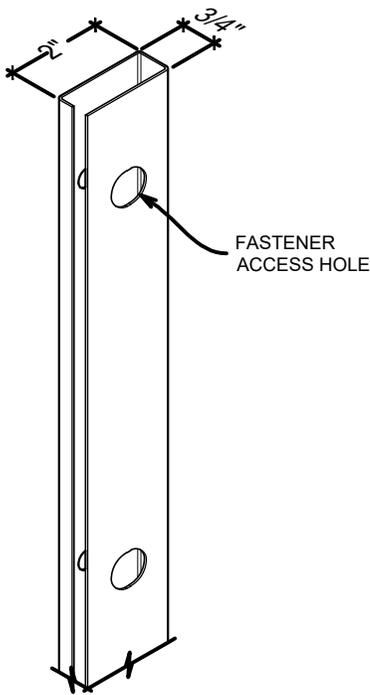
10/08/2018

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)
RAINSCREEN ATTACHMENT



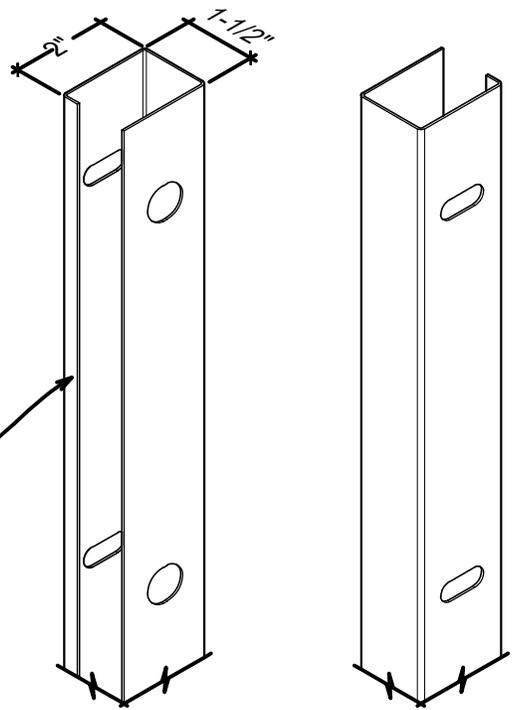
FRONT VIEW

BACK VIEW

A CI-Girt™ (STANDARD)
SCALE: NTS

ThermaStop™
ISOLATION
SYSTEM
ADJUSTMENT
GUIDE SLOT

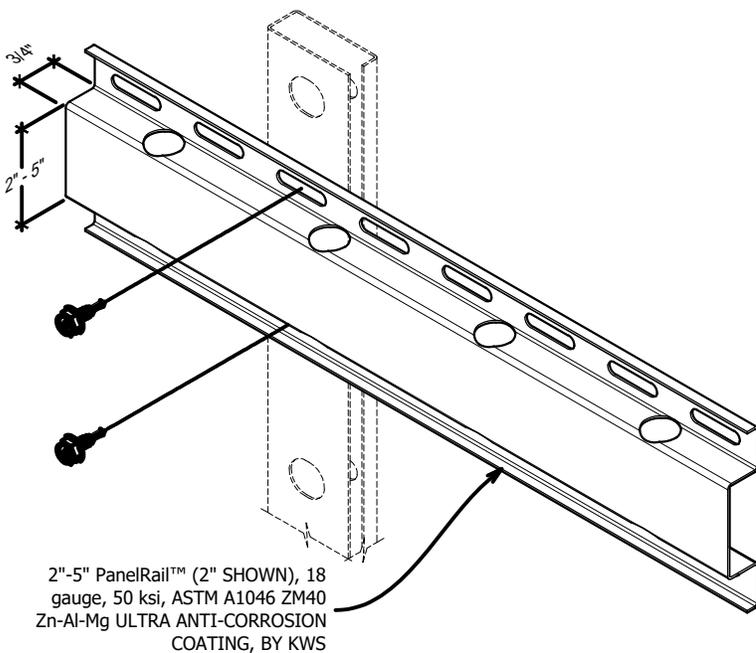
TYPICALLY
18 gauge, 50 ksi,
ASTM A1046 ZM40
Zn-Al-Mg ULTRA
ANTI-CORROSION
COATING, BY KWS



FRONT VIEW

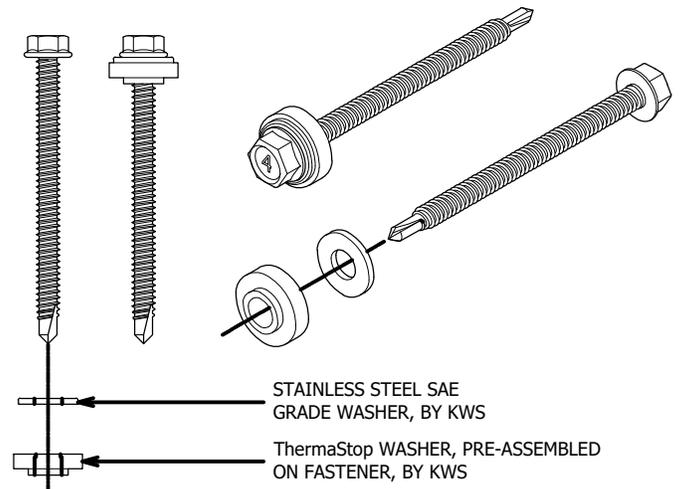
BACK VIEW

B CI-Girt™ 150
SCALE: NTS



2"-5" PanelRail™ (2" SHOWN), 18
gauge, 50 ksi, ASTM A1046 ZM40
Zn-Al-Mg ULTRA ANTI-CORROSION
COATING, BY KWS

C PanelRail™
SCALE: NTS



STAINLESS STEEL SAE
GRADE WASHER, BY KWS

ThermaStop WASHER, PRE-ASSEMBLED
ON FASTENER, BY KWS

C ThermaStop™ THERMAL ISOLATION WASHER ASSEMBLY
SCALE: NTS

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

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18 ISOMETRIC VIEW OF COMPONENTS BY KWS
SCALE: NTS

10/16/2016

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