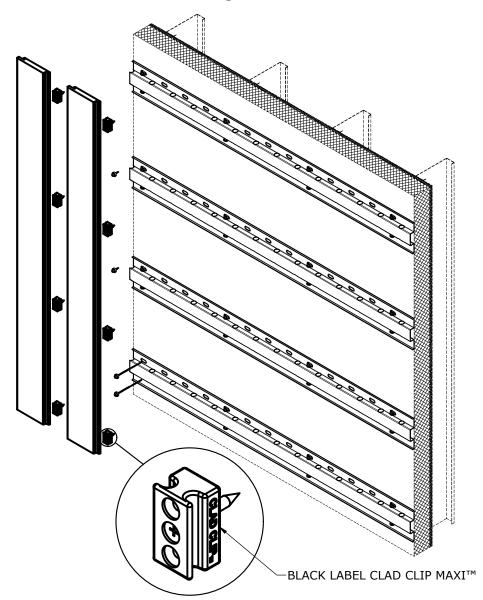
info@wearetropical.com

# 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 $^{\text{TM}}$  & BLACK LABEL CLAD CLIP $^{\text{TM}}$ : W/ HCI GIRT: 1" RAINSCREEN = 1.875", 5/4" RAINSCREEN = 2" (FACE OF RIGID INSULATION TO FACE OF RAINSCREEN)







- 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 GLAVANIC REACTION ALWAYS EXISTS AT SOME LEVEL WHEN DISSIMILAR MATALS 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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PLEASE FEEL FREE TO CONTACT TROPICAL FOREST PRODUCTS FOR PROJECT SPECIFIC ASSISTANCE WITH TFP® CLADDING OPTIONS AND SPECIFIC ASSISTANCE.

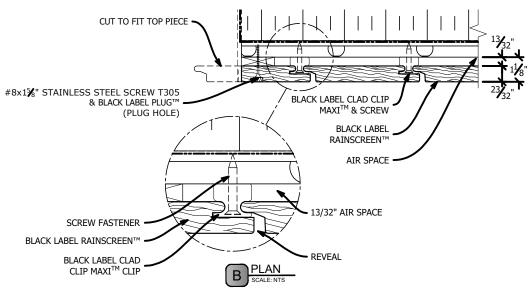
905.672.8000 OR 855.344.4500

info@wearetropical.com



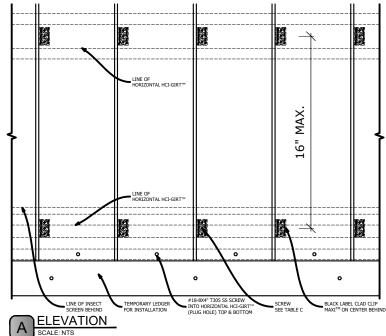






#### **NOTES**

- 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 INSTALATION
- USE #10 X 1.25" 410 STAINLESS STEEL SELF DRILLING FLAT HEAD SCREW SUPPLIED BY TFP
- 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.
- 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.
- 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 APPROVED 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

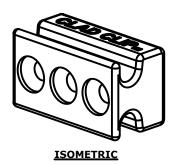


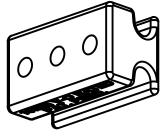




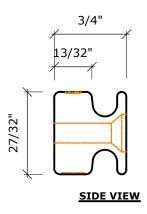


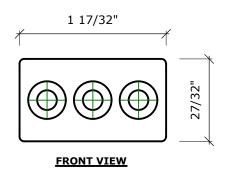
### BLACK LABEL CLAD CLIP™ DETAILS SCALE: FULL





**REAR ISOMETRIC** 





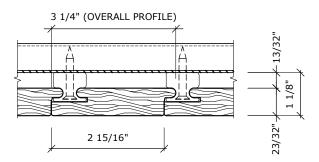
BLACK LABEL CLAD CLIP MAXI - BLCCMAX10MMVO





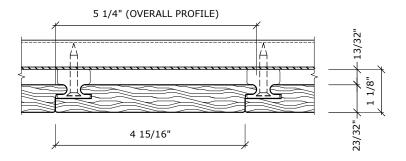


#### LAYUP DIMENSIONS - 1" WITH NO REVEAL SCALE: NTS

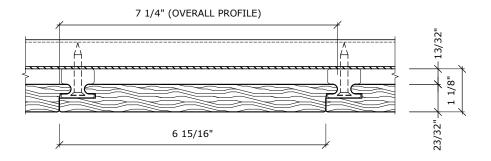


BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" NO REVEAL RAINSCREEN

SCALE: NTS



BLACK LABEL CLAD CLIP MAXI w/ 1" X 6" NO REVEAL RAINSCREEN



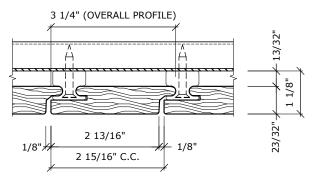
BLACK LABEL CLAD CLIP MAXI w/ 1" X 8" NO REVEAL RAINSCREEN
SCALE: NTS



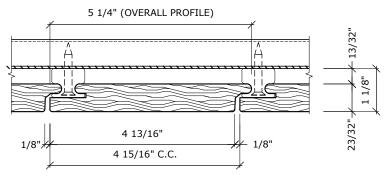




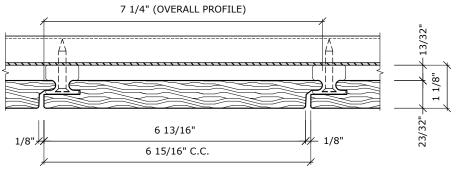
### LAYUP DIMENSIONS - 1" WITH $\frac{1}{8}$ " REVEAL SCALE: NTS



BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" 1/8 REVEAL RAINSCREEN



BLACK LABEL CLAD CLIP MAXI w/ 1" X 6" 1/8 REVEAL RAINSCREEN



BLACK LABEL CLAD CLIP MAXI w/ 1" X 8" 1/8 REVEAL RAINSCREEN

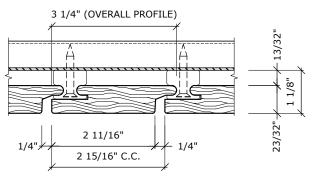
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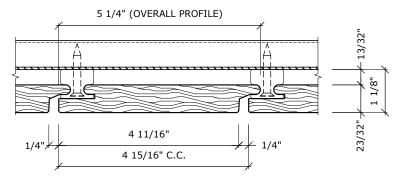




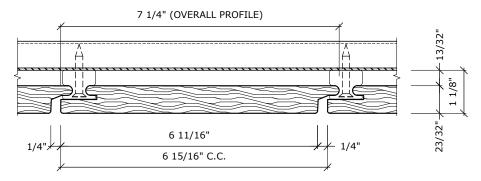
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A BLACK LABEL CLAD CLIP MAXI w/ 1" X 4" 1/4 REVEAL RAINSCREEN



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



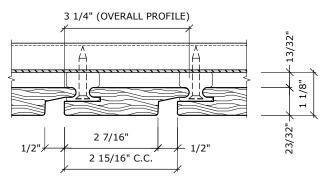
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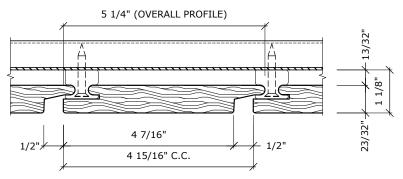




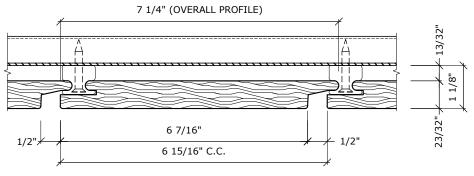
### LAYUP DIMENSIONS - 1" WITH ½" REVEAL SCALE: NTS



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



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



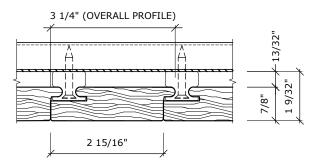
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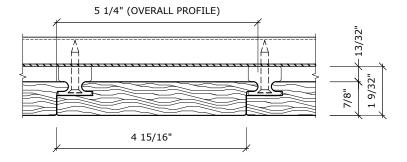




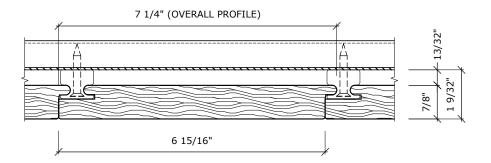
#### LAYUP DIMENSIONS - 5/4" WITH NO REVEAL SCALE: NTS



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



BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 6" NO REVEAL RAINSCREEN



BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 8" NO REVEAL RAINSCREEN

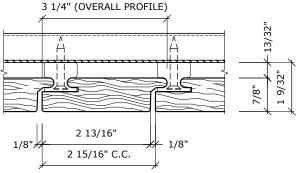
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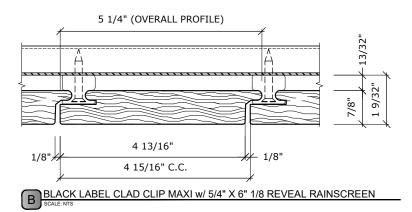


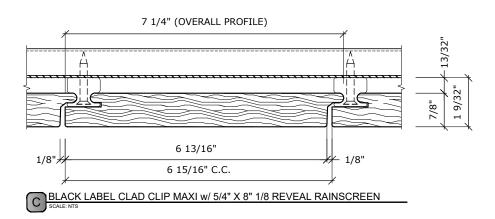


### LAYUP DIMENSIONS - 5/4" WITH $\frac{1}{8}$ " REVEAL SCALE: NTS



BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 4" 1/8 REVEAL RAINSCREEN



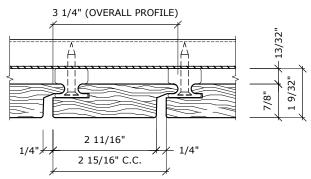




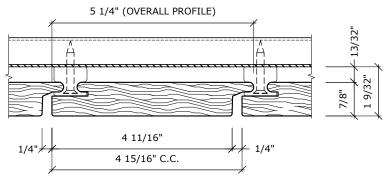




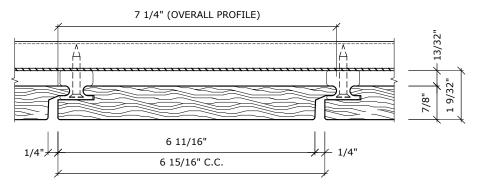
### LAYUP DIMENSIONS - 5/4" WITH $\frac{1}{4}$ " REVEAL SCALE: NTS



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



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



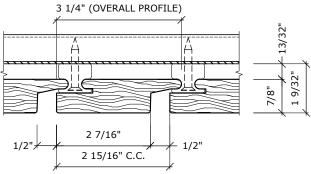
BLACK LABEL CLAD CLIP MAXI w/ 5/4" X 8" 1/4 REVEAL RAINSCREEN
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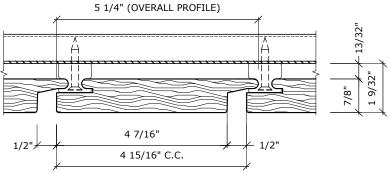




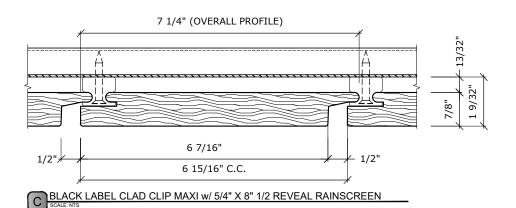
### LAYUP DIMENSIONS - 5/4" WITH ½" REVEAL SCALE: NTS



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



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



OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE)

ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

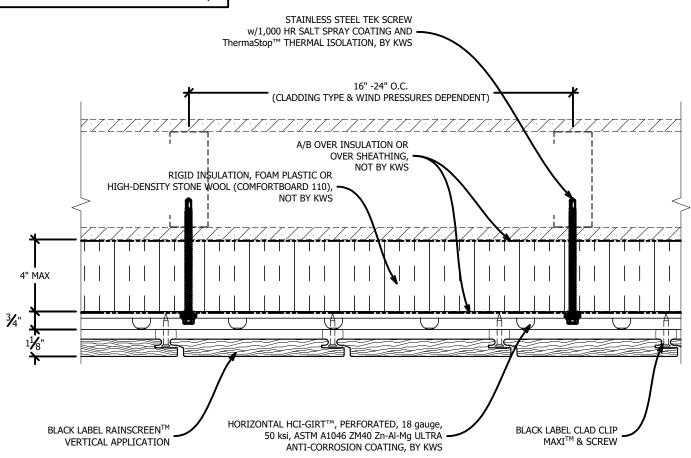




(WITH USE OF APPROPRIATE WALL ANCHORS).

#### **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) ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS

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.



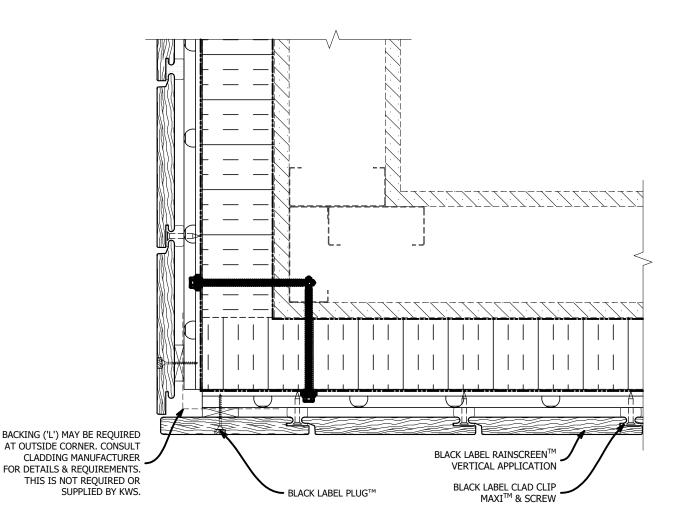
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#### TYPICAL OUTSIDE CORNER CONDITION SCALE: 3"=1'-0"



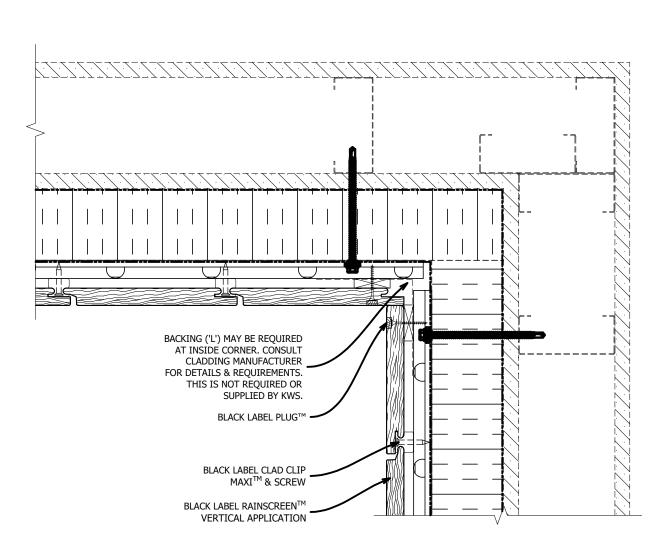
16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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









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

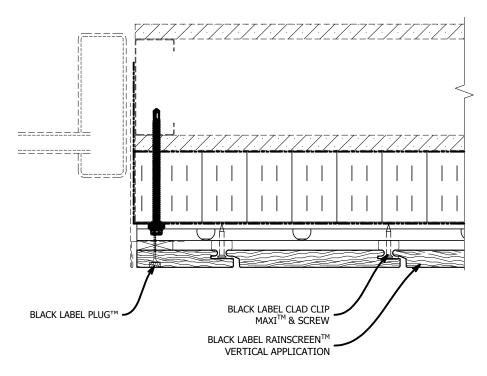
\*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE) ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS







#### 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.

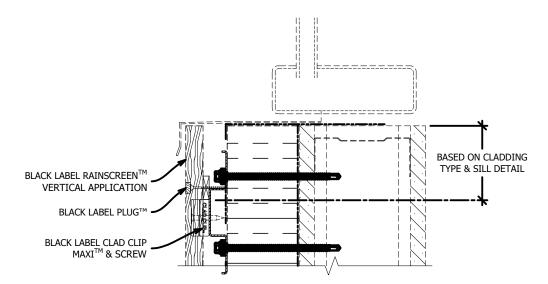
16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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









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

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

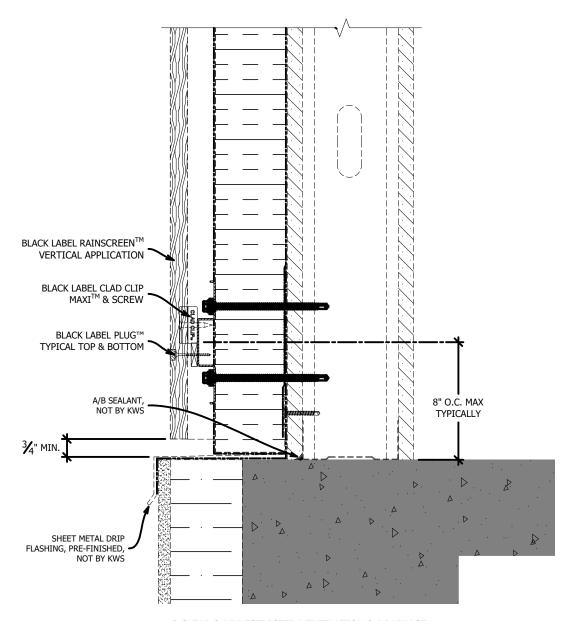
\*MAXIMUM ALLOWABLE SPACING AND DEAD LOAD (WEIGHT OF CLADDING) IS BASED ON THE TOTAL LOAD (DEAD + LIVE) ACTING ON THE ASSEMBLY, BRACKETS AND CONNECTIONS \* FLASHING DETAILS VARY BASED ON WINDOW TYPE, POSITION (INSET VS FLUSH) AND CLADDING TYPE. FLASHING IS NOT BY KWS.







#### 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

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

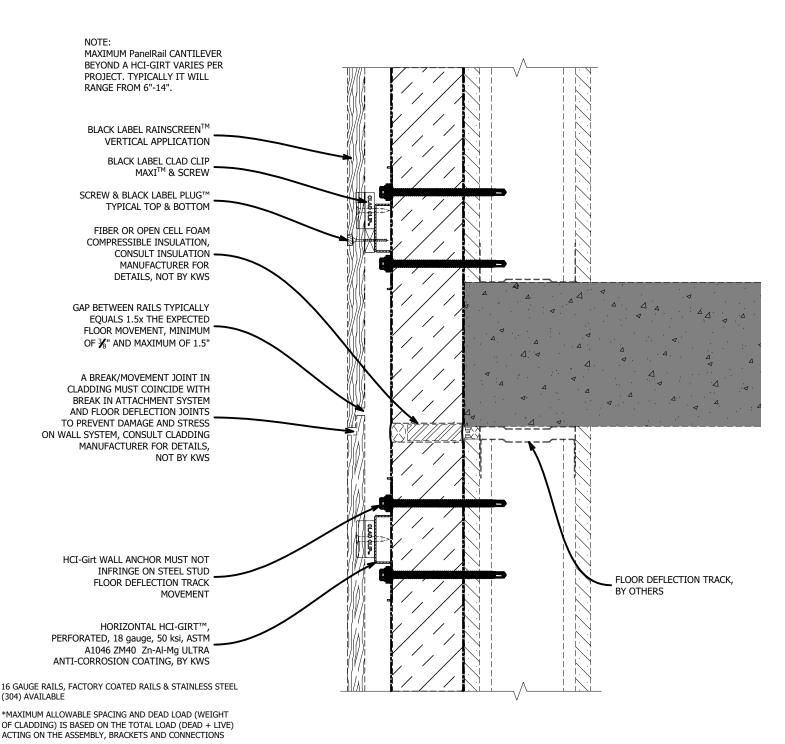






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#### TYPICAL FLOOR DEFLECTION JOINT SCALE: 3"=1'-0"









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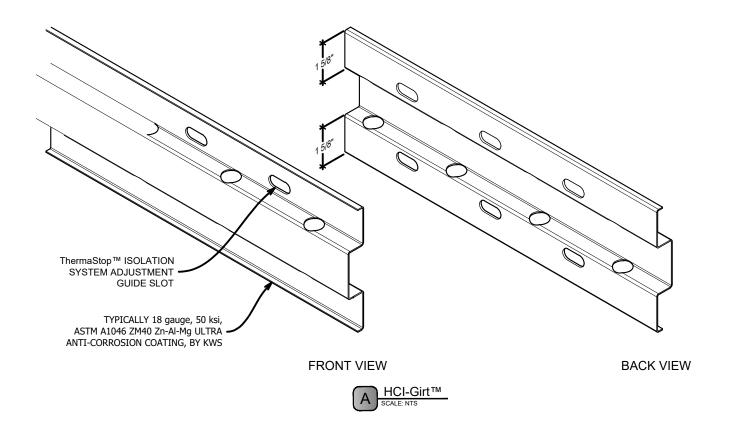
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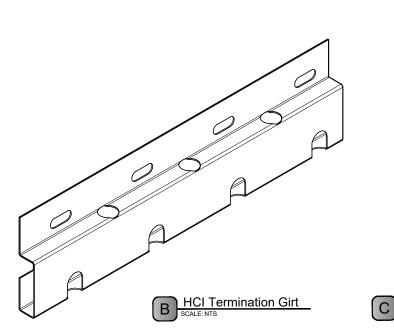
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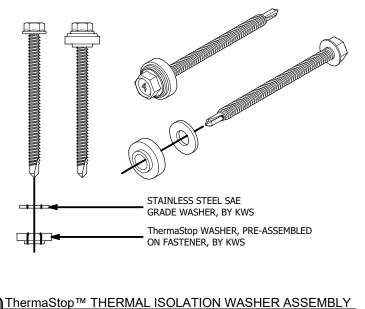
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16 GAUGE RAILS, FACTORY COATED RAILS & STAINLESS STEEL (304) AVAILABLE

\*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

10/16/2016

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