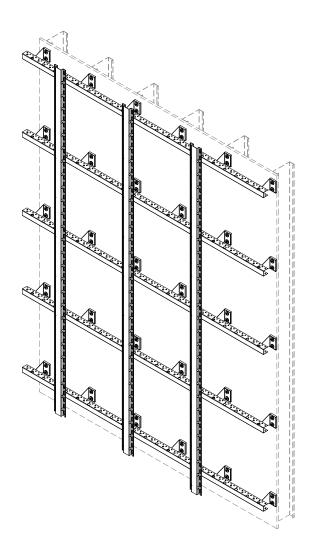
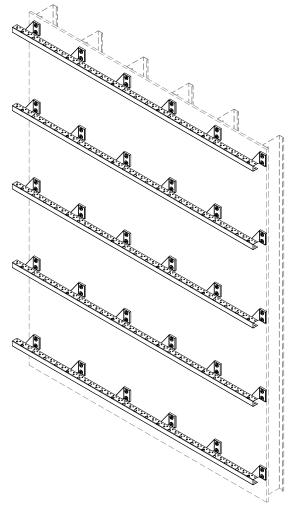
## **KNIGHT WALL SYSTEMS GUIDE DETAILS:** MFI™ System - D-Series (HORIZONTAL)

RAINSCREEN ATTACHMENT for CLADDING PANELS





## HORIZONTAL ORIENTED SYSTEM WITH OPTIONAL VERTICAL PanelRails™

(EXTERIOR INSULATION OMITTED FOR CLARITY)

MINIMUM DEPTH: 4.25 INCHES MAXIMUM DEPTH: 8.25 INCHES (FACE OF SHEATHING TO FACE OF RAIL)

QUICK LINK: SECTION VIEW PLAN VIEW

## HORIZONTAL ORIENTED SYSTEM

(EXTERIOR INSULATION OMITTED FOR CLARITY)

MINIMUM DEPTH: 3.5 INCHES MAXIMUM DEPTH: 7.5 INCHES (FACE OF SHEATHING TO FACE OF RAIL)

QUICK LINK: SECTION VIEW PLAN VIEW

02/01/2016

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KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION)
RAINSCREEN ATTACHMENT

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## **GENERAL NOTES:**

- KNIGHT WALL SYSTEMS (KWS) IS NOT RESPONSIBLE FOR INFORMATION SHOWN ON ALL DETAILS BEYOND KWS SPECIFIC SCOPE OF WORK QUOTED AND AS INDICATED ON CONTRACT DOCUMENTS.
- 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 IS RECOMMENDED TO BE MINERAL FIBER INSULATION (MFI) FOR USE WITH THE MFI
  SYSTEM. RIGID FOAM INSULATION MAY BE USED, BUT IS NOT RECOMMENDED DUE TO BRACKET BASE DESIGN
  AND EXCESS LABOR FOR TRIMMING OR CUTTING OF RIGID FOAM. MINERAL FIBER INSULATION DOES NOT
  TYPICALLY REQUIRE ANY CUTTING AROUND THE BRACKET BASE FOR PROPER INSTALLATION.
- MFI, RevealRail, 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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PLEASE FEEL FREE TO CONTACT KWS OR A LOCAL KWS REPRESENTATIVE FOR PROJECT SPECIFIC ASSISTANCE WITH DETAILS AND SPECIFYING.

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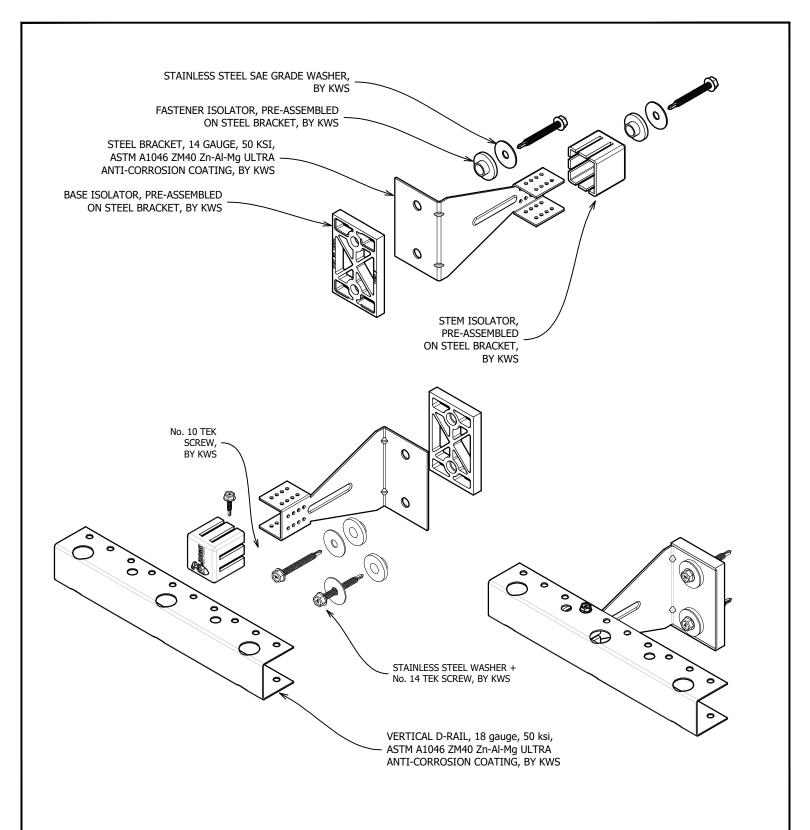
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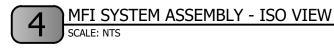
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LAYER) SYSTEM



\*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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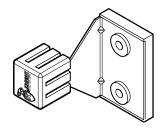
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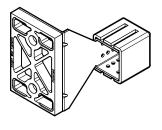
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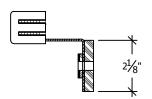


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RAINSCREEN ATTACHMENT

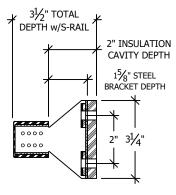
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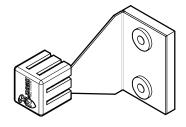
## TOP/PLAN VIEW

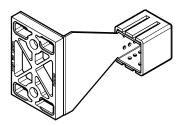


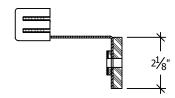
## SIDE/SECTION VIEW

### 2" ThermaBracket-D

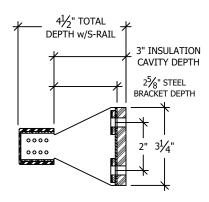
OVERALL DEPTH w/D-Rail ONLY: 3.5" w/D-Rail + PanelRail: 4.25"







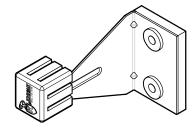
## TOP/PLAN VIEW

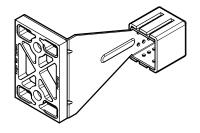


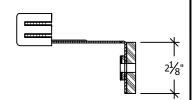
## SIDE/SECTION VIEW

### 3" ThermaBracket-D

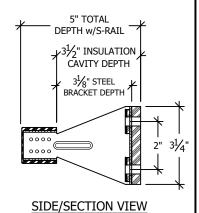
**OVERALL DEPTH** w/D-Rail ONLY: 4.5" w/D-Rail + PanelRail: 5.25"







## TOP/PLAN VIEW



### 3.5" ThermaBracket-D

**OVERALL DEPTH** w/D-Rail ONLY: 5" w/D-Rail + PanelRail: 5.75"

\*16 GAUGE RAILS, FACTORY BLACK 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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ThermaBracket SIZES - 2"-3.5" SCALE: 3" = 1'-0"

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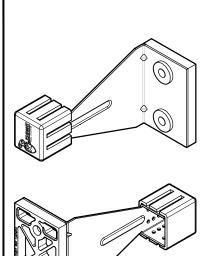
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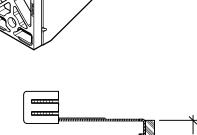
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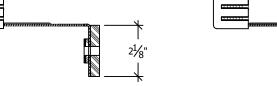


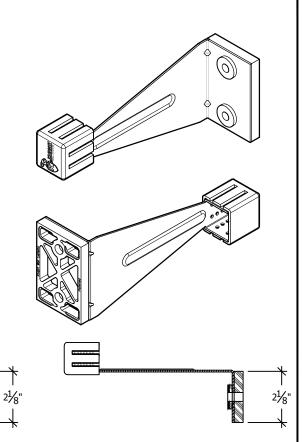
KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION) RAINSCREEN ATTACHMENT

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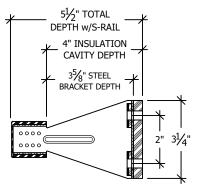








TOP/PLAN VIEW



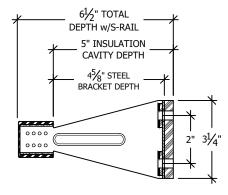
SIDE/SECTION VIEW

## 4" ThermaBracket-D

OVERALL DEPTH w/D-Rail ONLY: 5.5" w/D-Rail + PanelRail: 6.25"

## TOP/PLAN VIEW

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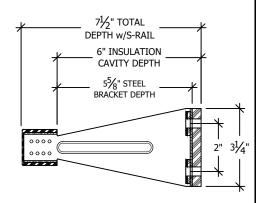


SIDE/SECTION VIEW

### **5" ThermaBracket-D**

OVERALL DEPTH w/D-Rail ONLY: 6.5" w/D-Rail + PanelRail: 7.25"

TOP/PLAN VIEW



SIDE/SECTION VIEW

### 6" ThermaBracket-D

OVERALL DEPTH w/D-Rail ONLY: 7.5" w/D-Rail + PanelRail: 8.25"

\*16 GAUGE RAILS, FACTORY BLACK 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.



ThermaBracket SIZES - 4"-6"

SCALE: 3" = 1'-0"

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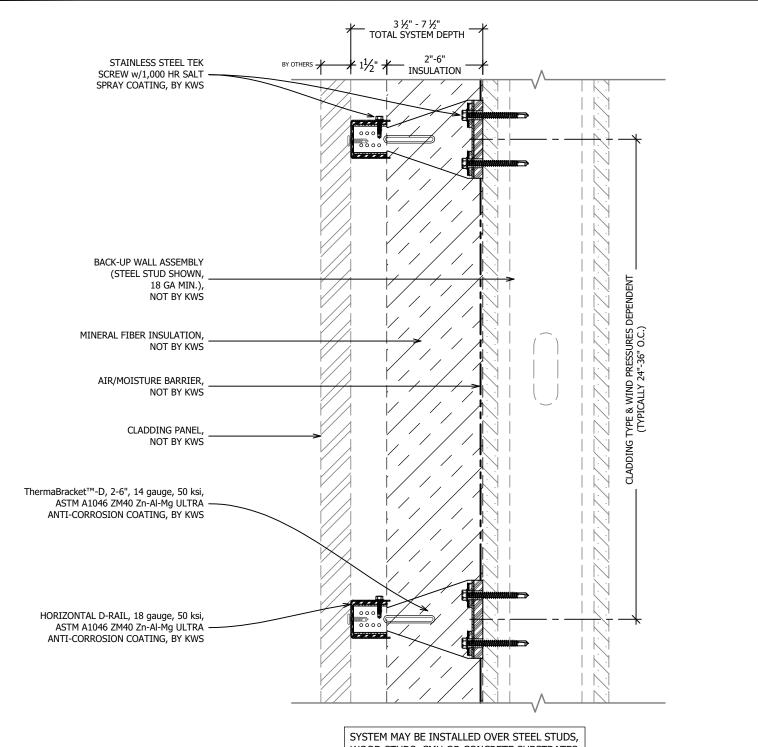
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RAINSCREEN ATTACHMENT

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WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).

\*16 GAUGE RAILS, FACTORY BLACK 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 SECTION VIEW - D-Rail ONLY

SCALE: 3" = 1'-0"

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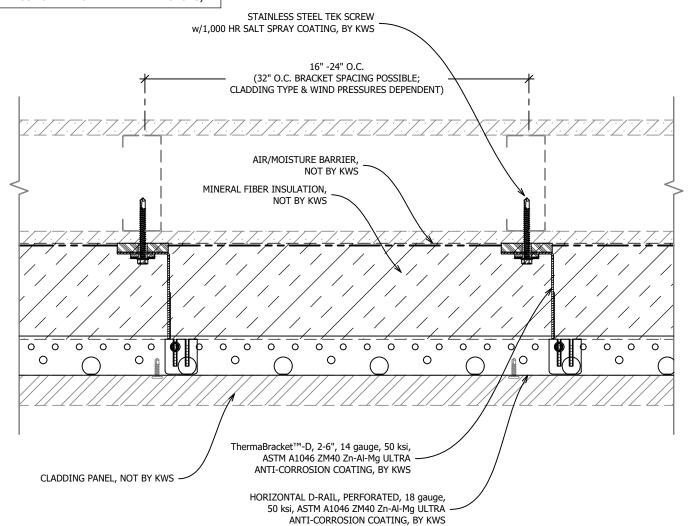
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SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).



\*16 GAUGE RAILS, FACTORY BLACK 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 PLAN VIEW - D-Rail ONLY

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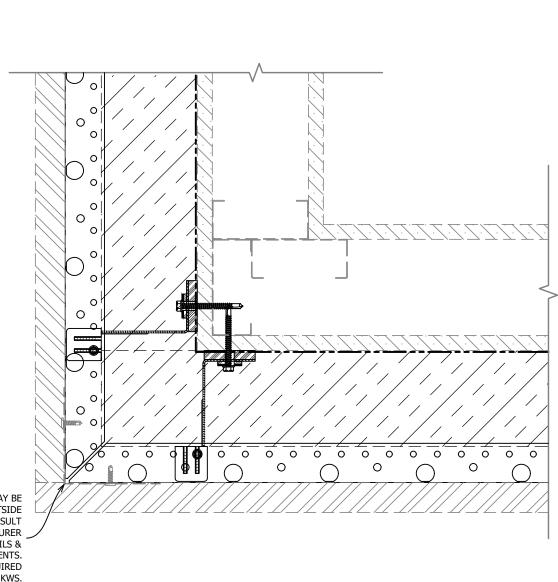
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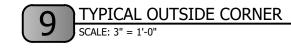
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BACKING ('L') MAY BE
REQUIRED AT OUTSIDE
CORNER. CONSULT
CLADDING MANUFACTURER
FOR DETAILS &
REQUIREMENTS.
THIS IS NOT REQUIRED
OR SUPPLIED BY KWS.

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

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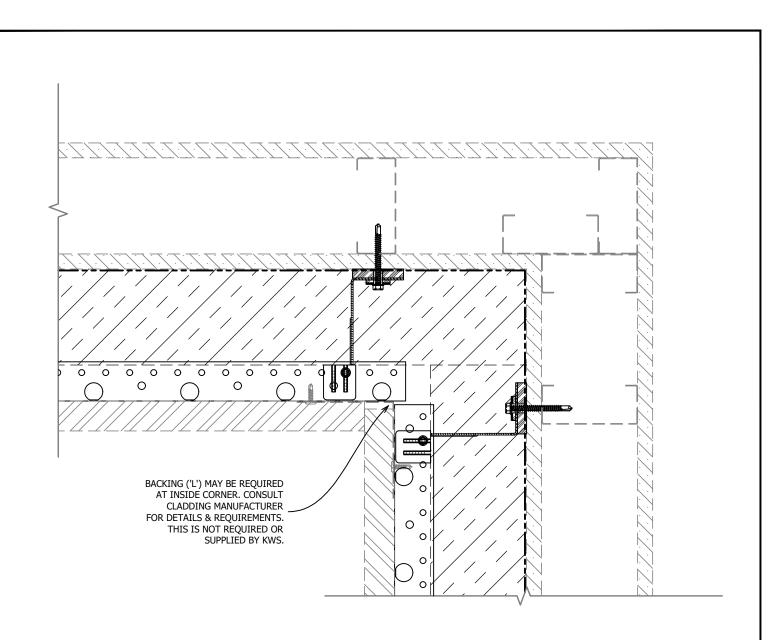
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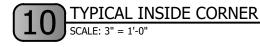


KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION)
RAINSCREEN ATTACHMENT

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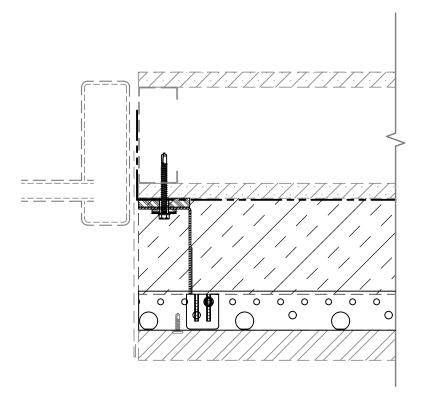


# KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION) RAINSCREEN ATTACHMENT

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

\*16 GAUGE RAILS, FACTORY BLACK 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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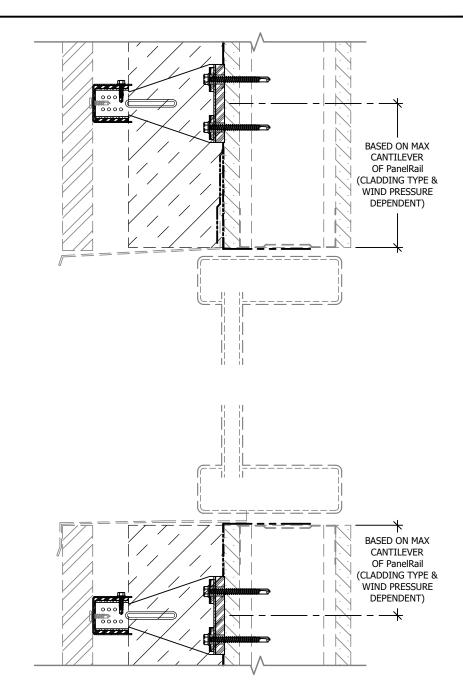
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KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION)
RAINSCREEN ATTACHMENT

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

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

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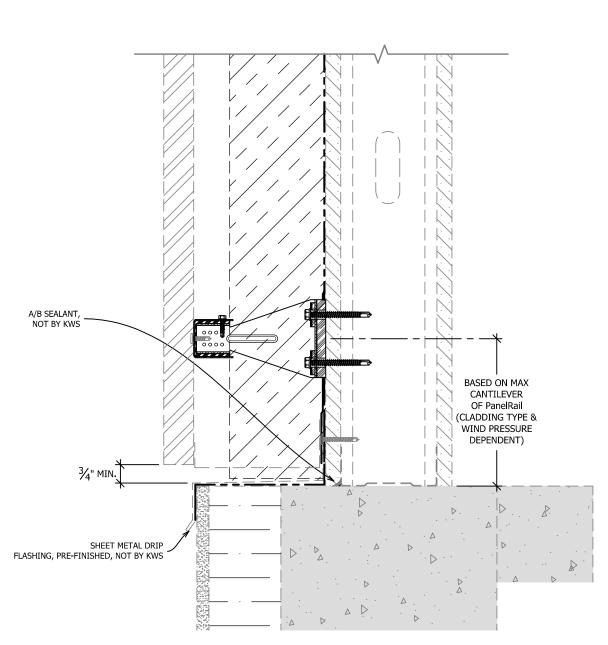
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KNIGHT MFI™ System D-SERIES (HORIZONTAL ORIENTATION)
RAINSCREEN ATTACHMENT

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

\*16 GAUGE RAILS, FACTORY BLACK 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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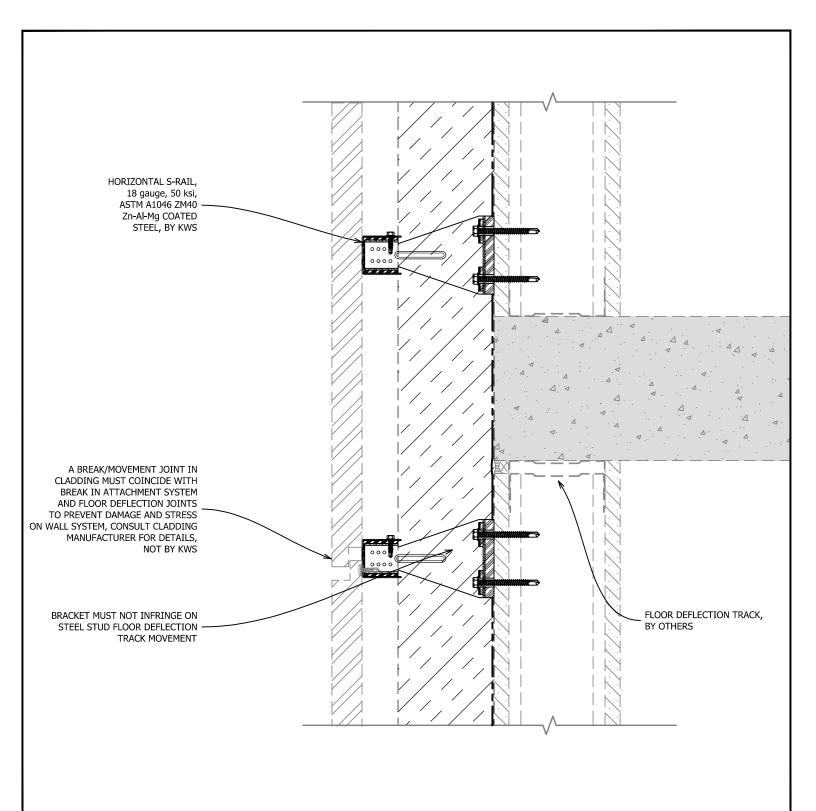
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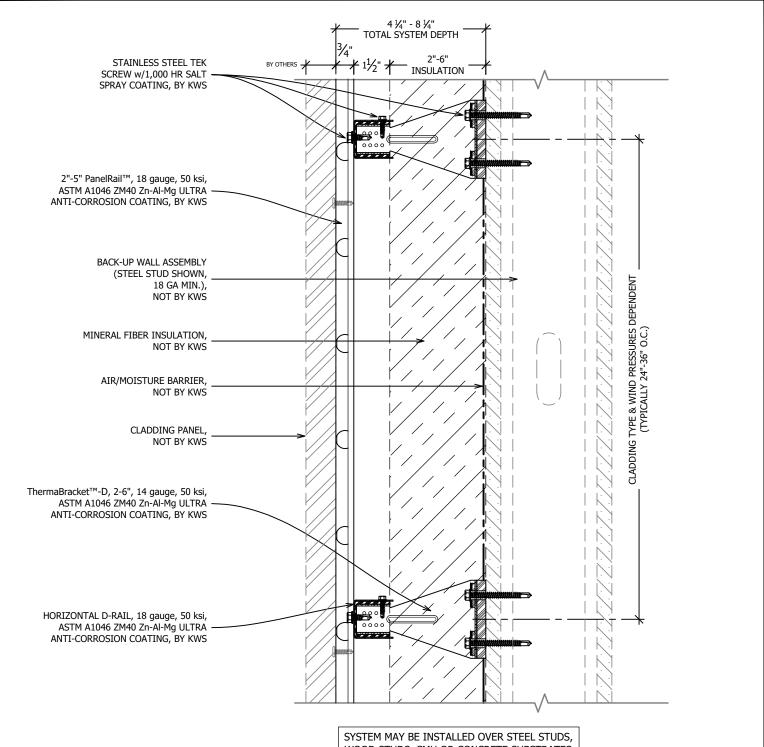
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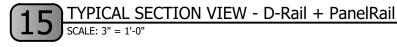
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WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).

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SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS). STAINLESS STEEL TEK SCREW w/1,000 HR SALT SPRAY COATING, BY KWS 16" -24" O.C. (32" O.C. BRACKET SPACING POSSIBLE; CLADDING TYPE & WIND PRESSURES DEPENDENT) AIR/MOISTURE BARRIER, NOT BY KWS MINERAL FIBER INSULATION, NOT BY KWS 0 0 0 0 0 0 0 0 0 0 0 0 ThermaBracket™-D, 2-6", 14 gauge, 50 ksi, STAINLESS STEEL TEK SCREW ASTM A1046 ZM40 Zn-Al-Mg ULTRA w/1,000 HR SALT SPRAY ANTI-CORROSION COATING, BY KWS COATING, BY KWS 2"-5" PanelRail™ (2" SHOWN), 18 gauge, HORIZONTAL D-RAIL, PERFORATED, 18 gauge, 50 ksi, ASTM A1046 ZM40 Zn-Al-Mg ULTRA 50 ksi, ASTM A1046 ZM40 Zn-Al-Mg ULTRA ANTI-CORROSION COATING, BY KWS ANTI-CORROSION COATING, BY KWS CLADDING PANEL, NOT BY KWS DETERMINED BY DESIGN WIND PRESSURE (AND AS REQUIRED BY PANEL MANUFACTURER)

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

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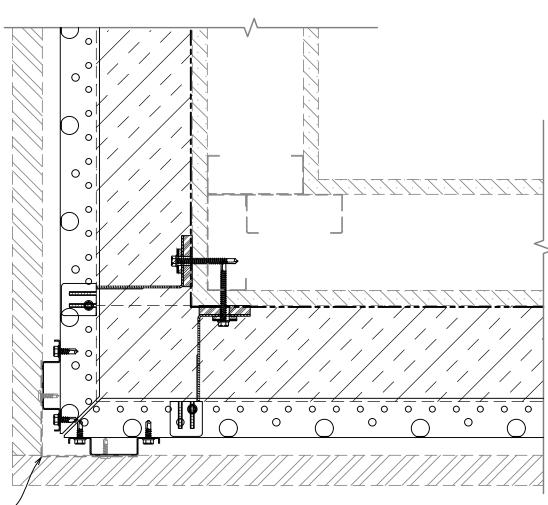
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BACKING ('L') MAY BE
REQUIRED AT OUTSIDE
CORNER. CONSULT
CLADDING MANUFACTURER
FOR DETAILS &
REQUIREMENTS.
THIS IS NOT REQUIRED
OR SUPPLIED BY KWS.

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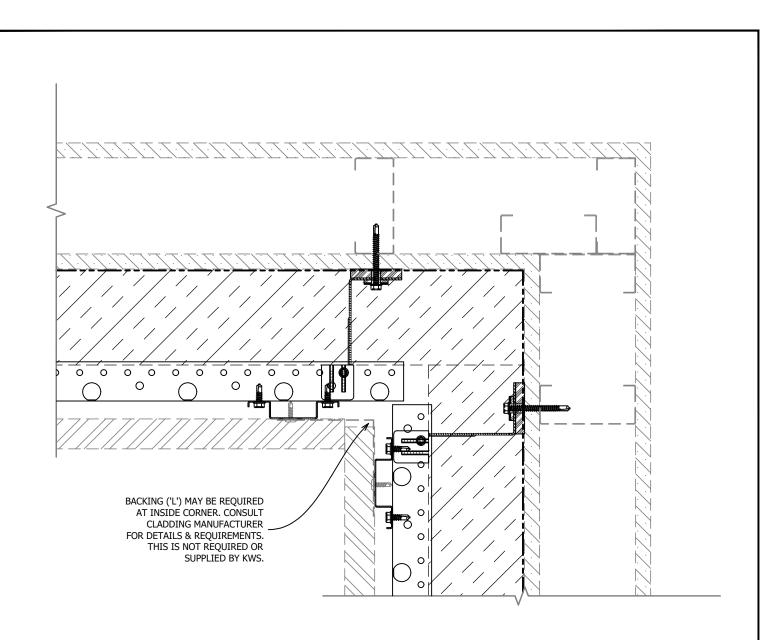
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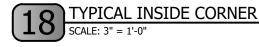


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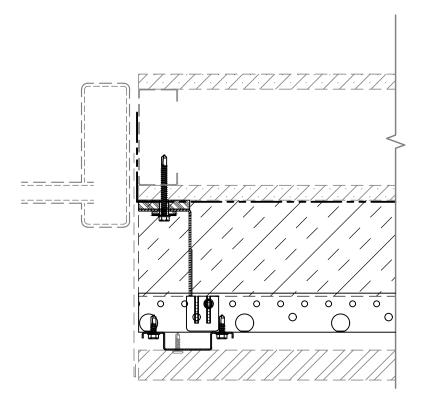


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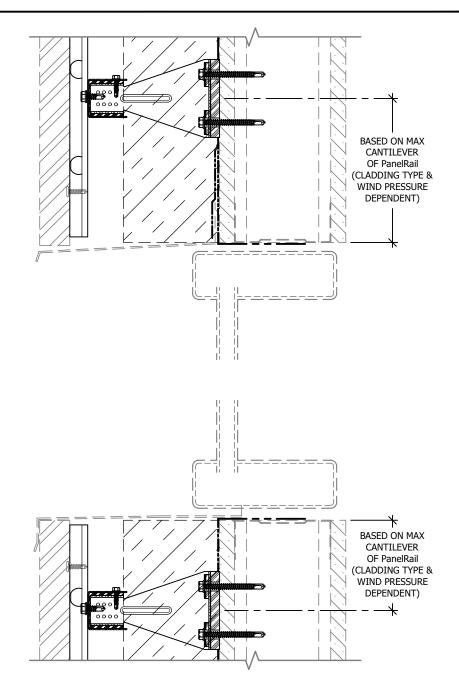
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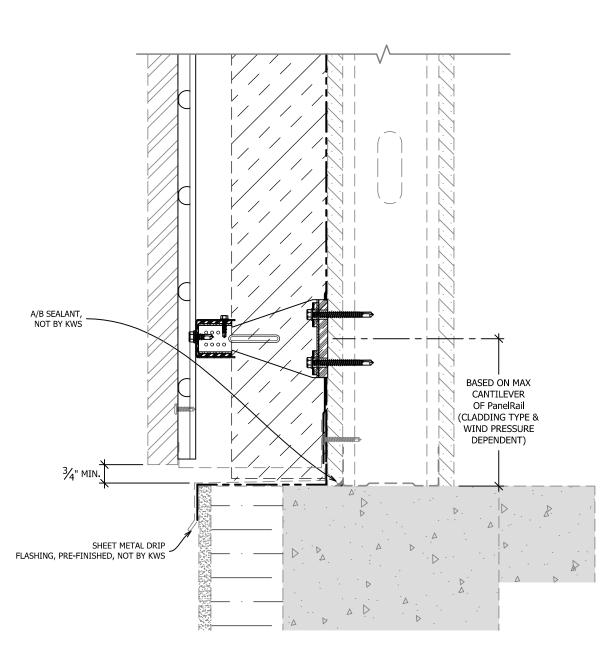
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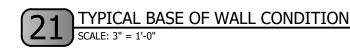
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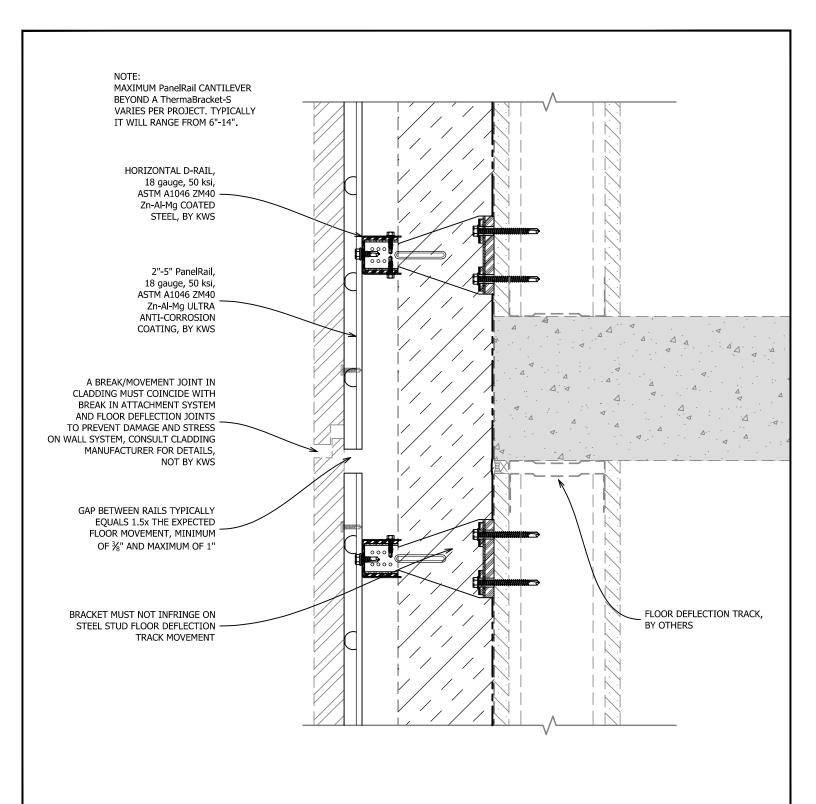
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