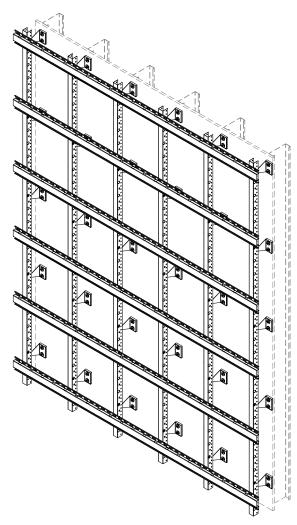
KNIGHT WALL SYSTEMS GUIDE DETAILS: MFI™ System - D-Series (VERTICAL)

RAINSCREEN ATTACHMENT for CLADDING PANELS

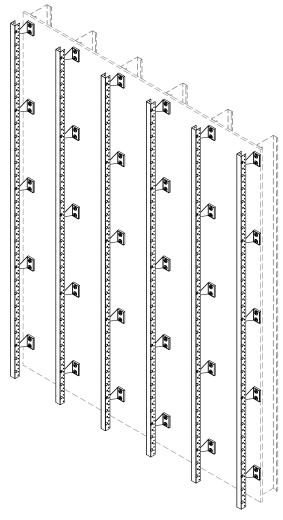


VERTICAL ORIENTED SYSTEM WITH OPTIONAL HORIZONTAL PanelRails™

(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



VERTICAL 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

02/01/201

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KNIGHT MFI[™] System D-SERIES (VERTICAL ORIENTATION) RAINSCREEN ATTACHMENT

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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KNIGHT MFI[™] System D-SERIES (VERTICAL ORIENTATION) RAINSCREEN ATTACHMENT

TABLE OF CONTENTS:

- 1. TITLE PAGE
- 2. **GENERAL NOTES**
- 3. TABLE OF CONTENTS
- 4. ISOMETRIC VIEW OF ThermaBracket-D ASSEMBLY
- OACES HOTHWAED FOR 5. 2"-3.5" ThermaBracket-D ISO, SIDE AND TOP VIEWS, OVERALL DIMENSIONS
- 6. 4"-6" ThermaBracket-D ISO, SIDE AND TOP VIEWS, OVERALL DIMENSIONS
- 7. TYPICAL SECTION VIEW - VERTICAL D-Rail ONLY
- 8. TYPICAL PLAN VIEW - VERTICAL D-Rail ONLY
- 9. TYPICAL OUTSIDE CORNER - VERTICAL D-Rail ONLY
- TYPICAL INSIDE CORNER VERTICAL D-Rail ONLY 10.
- TYPICAL JAMB CONDITION VERTICAL D-Rail ONLY 11.
- 12. TYPICAL HEAD/SILL CONDITION - VERTICAL D-Rail ONLY
- 13. TYPICAL BASE OF WALL - VERTICAL D-Rail ONLY
- 14. TYPICAL DEFLECTION FLOOR JOINT - VERTICAL D-Rail ONLY
- 15. TYPICAL SECTION VIEW - VERTICAL D-Rail + HORIZONTAL PanelRail
- 16. TYPICAL PLAN VIEW - VERTICAL D-Rail + HORIZONTAL PanelRail
- 17. TYPICAL OUTSIDE CORNER - VERTICAL D-Rail + HORIZONTAL PanelRail
- 18. TYPICAL INSIDE CORNER VERTICAL D-Rail + HORIZONTAL PanelRail
- TYPICAL JAMB CONDITION VERTICAL D-Rail + HORIZONTAL PanelRail
- 20. TYPICAL HEAD/SILL CONDITION VERTICAL D-Rail + HORIZONTAL PanelRail
- TYPICAL BASE OF WALL VERTICAL D-Rail + HORIZONTAL PanelRail 21.
- 22. TYPICAL DEFLECTION FLOOR JOINT - VERTICAL D-Rail + HORIZONTAL PanelRail

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

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LAYER) SYSTEM

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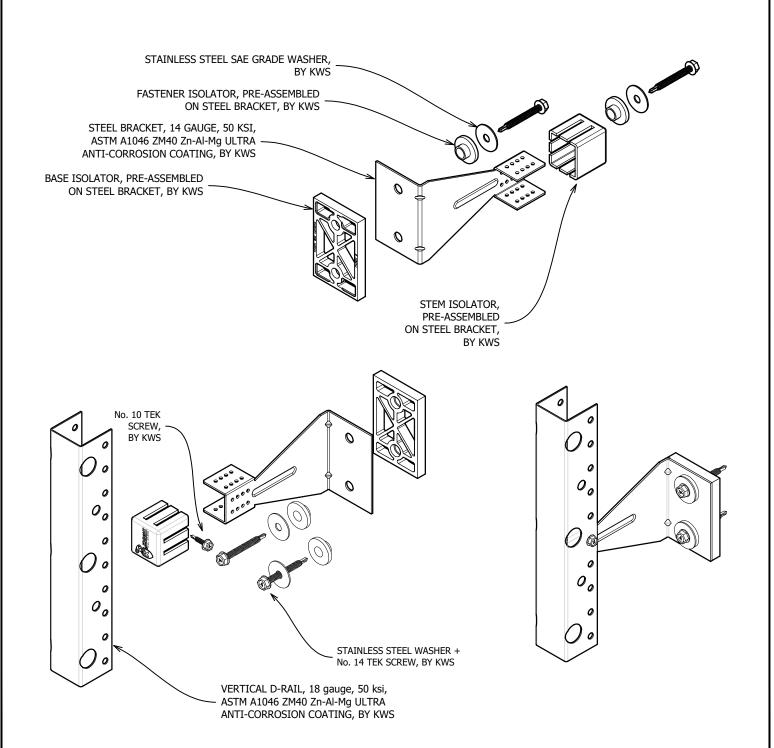
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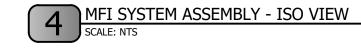
KNIGHT MFI™ System D-SERIES (VERTICAL ORIENTATION) RAINSCREEN ATTACHMENT

SHEET 3 of 22

BACK TO TABLE OF CONTENTS



*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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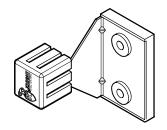
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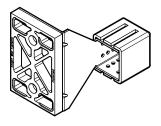


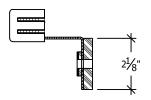
BACK TO TABLE OF CONTENTS

KNIGHT MFI[™] System D-SERIES (VERTICAL ORIENTATION)
RAINSCREEN ATTACHMENT

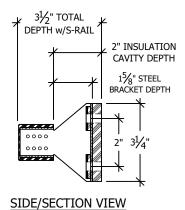
SHEET 4 of 22





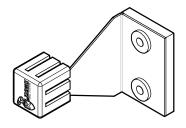


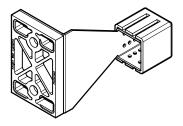
TOP/PLAN VIEW

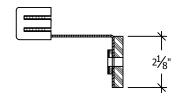


2" ThermaBracket-D

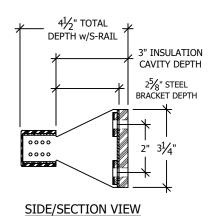
OVERALL DEPTH w/D-Rail ONLY: 3.5" w/D-Rail + PanelRail: 4.25"





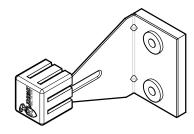


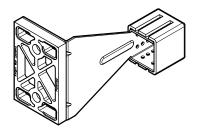
TOP/PLAN VIEW

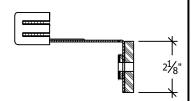


3" ThermaBracket-D

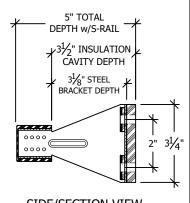
OVERALL DEPTH w/D-Rail ONLY: 4.5" w/D-Rail + PanelRail: 5.25"







TOP/PLAN VIEW



SIDE/SECTION 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.



ThermaBracket SIZES - 2"-3.5"

SCALE: 3" = 1'-0"

BACK TO TABLE OF CONTENTS

02/01/2016

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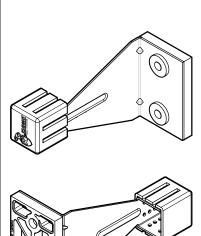
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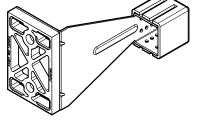
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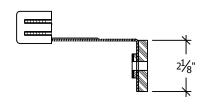


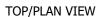
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RAINSCREEN ATTACHMENT

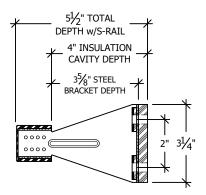
SHEET 5 of 22







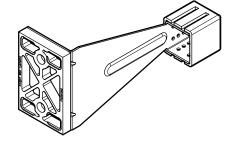


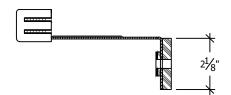


SIDE/SECTION VIEW

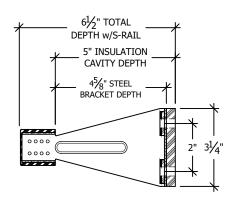
4" ThermaBracket-D

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





TOP/PLAN VIEW



SIDE/SECTION VIEW

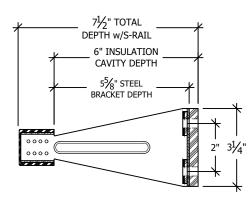
5" ThermaBracket-D

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

TOP/PLAN VIEW

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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"

BACK TO TABLE OF CONTENTS

02/01/2016

21/8'

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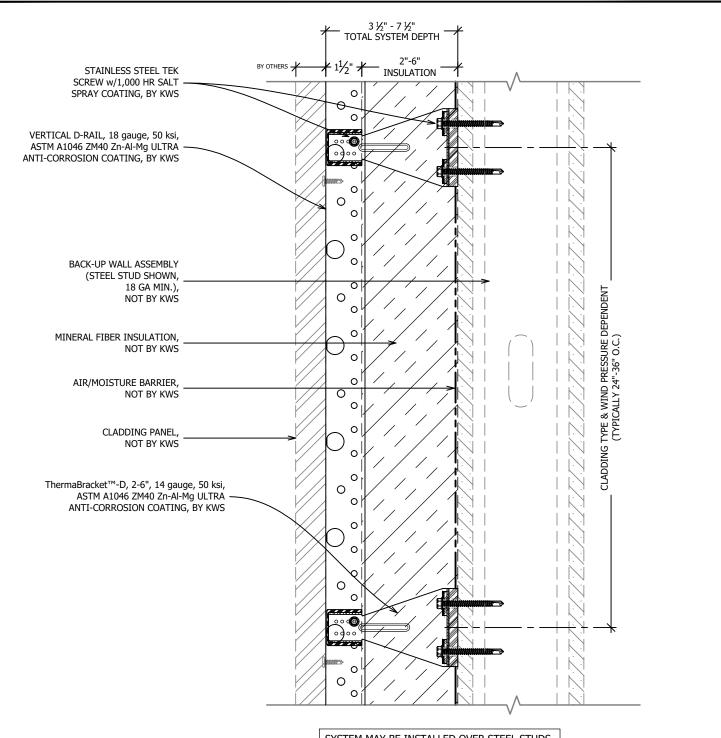
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RAINSCREEN ATTACHMENT

SHEET 6 of 22



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 SECTION VIEW - D-Rail ONLY

SCALE: 3" = 1'-0"

BACK TO TABLE OF CONTENTS

02/01/2016

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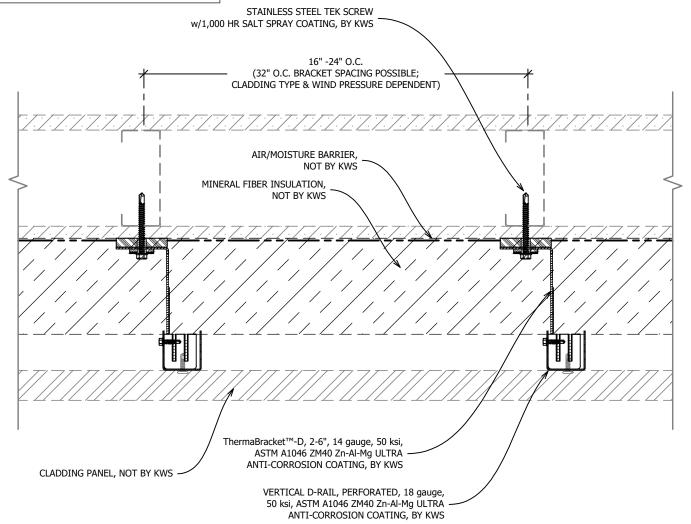
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SHEET 7 of 22

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

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TYPICAL PLAN VIEW - D-Rail ONLY

SCALE: 3" = 1'-0"

BACK TO TABLE OF CONTENTS

02/01/2016

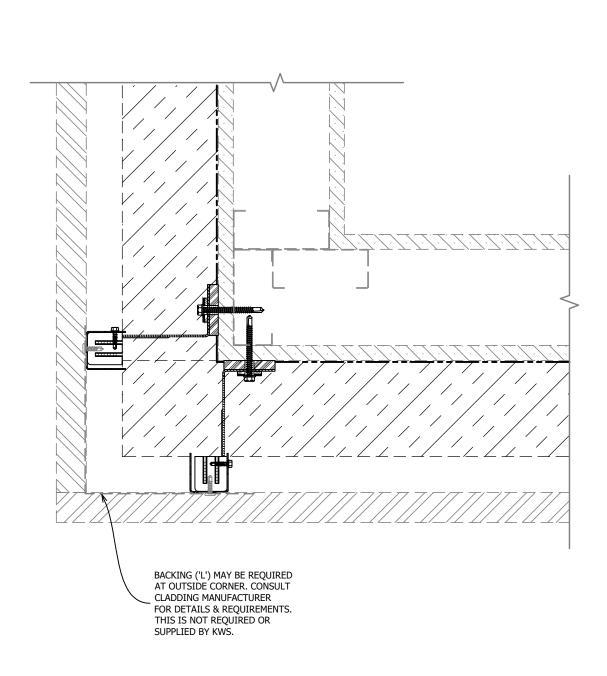
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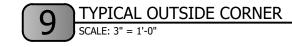


KNIGHT MFI[™] System D-SERIES (VERTICAL ORIENTATION)
RAINSCREEN ATTACHMENT

SHEET 8 of 22



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



BACK TO TABLE OF CONTENTS

02/01/2016

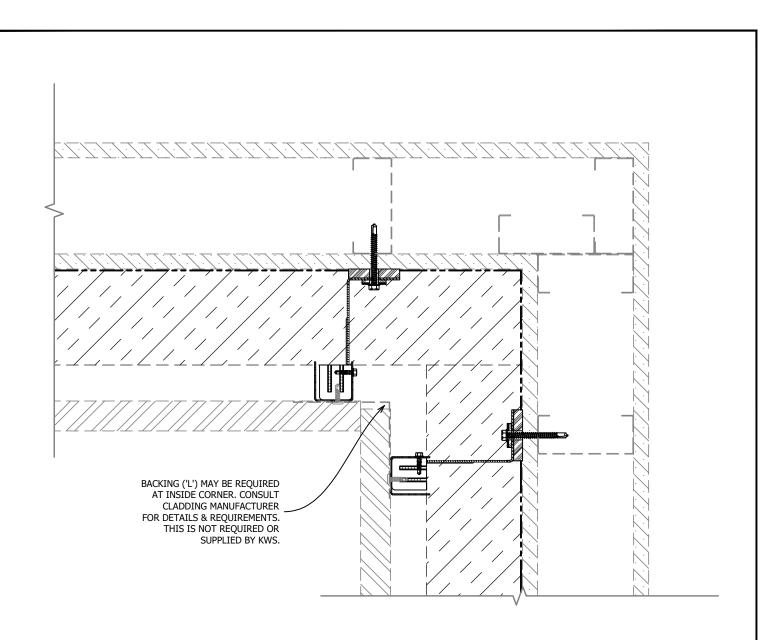
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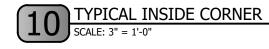


KNIGHT MFI[™] System D-SERIES (VERTICAL ORIENTATION)
RAINSCREEN ATTACHMENT

SHEET 9 of 22



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



BACK TO TABLE OF CONTENTS

02/01/2016

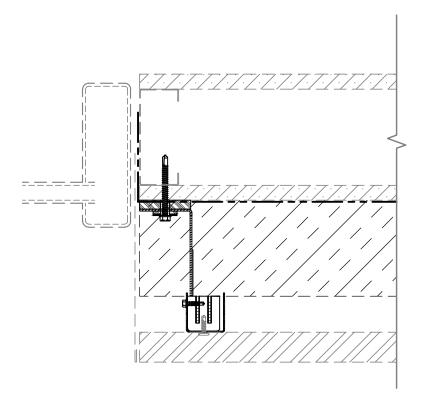
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KNIGHT MFI™ System D-SERIES (VERTICAL ORIENTATION)
RAINSCREEN ATTACHMENT

SHEET 10 of 22



* 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.



BACK TO TABLE OF CONTENTS

02/01/2016

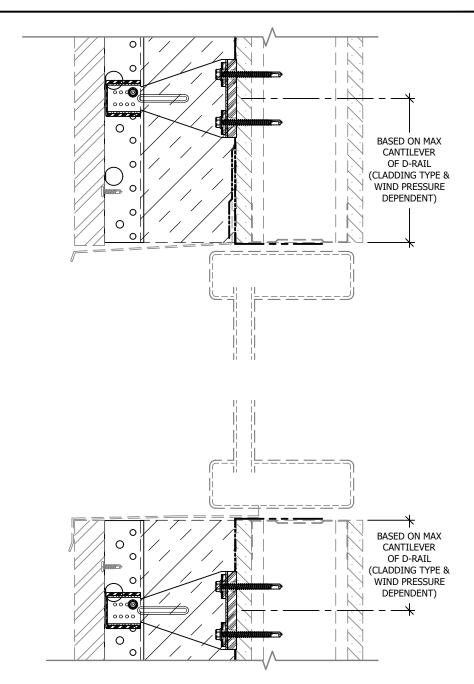
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KNIGHT MFI™ System D-SERIES (VERTICAL ORIENTATION)
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SHEET 11 of 22



* 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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BACK TO TABLE OF CONTENTS

02/01/2016

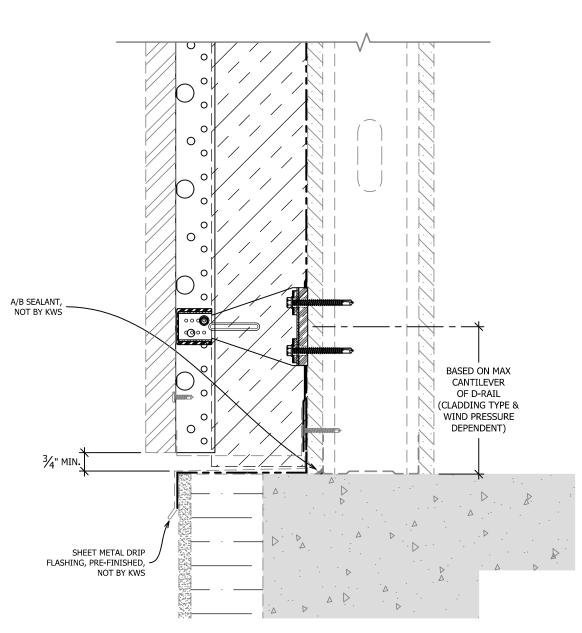
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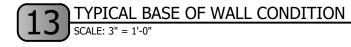
SHEET 12 of 22



* 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.



BACK TO TABLE OF CONTENTS

02/01/2016

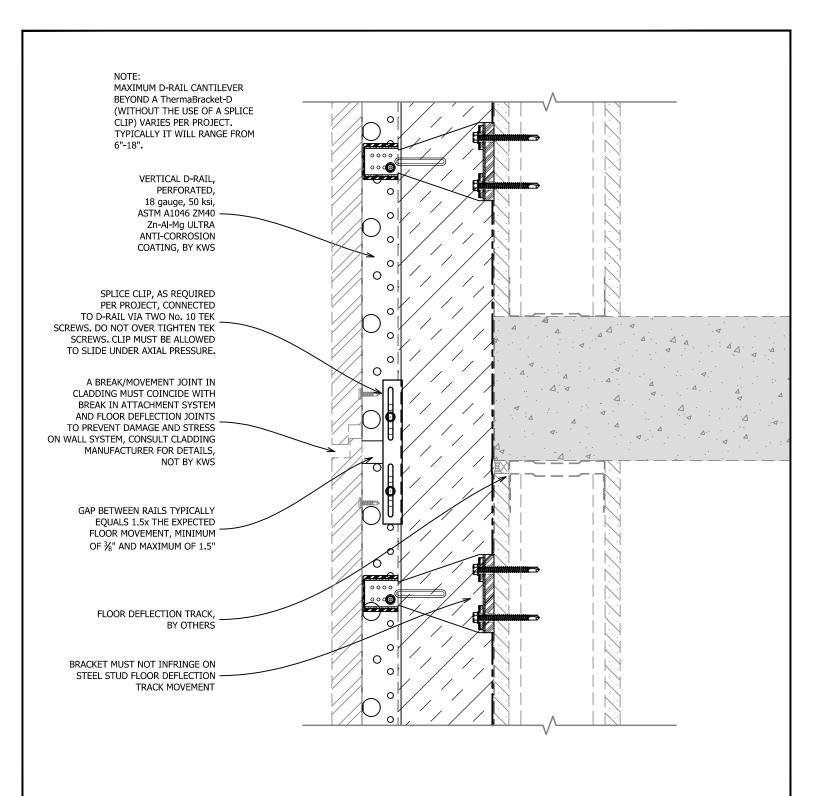
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SHEET 13 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

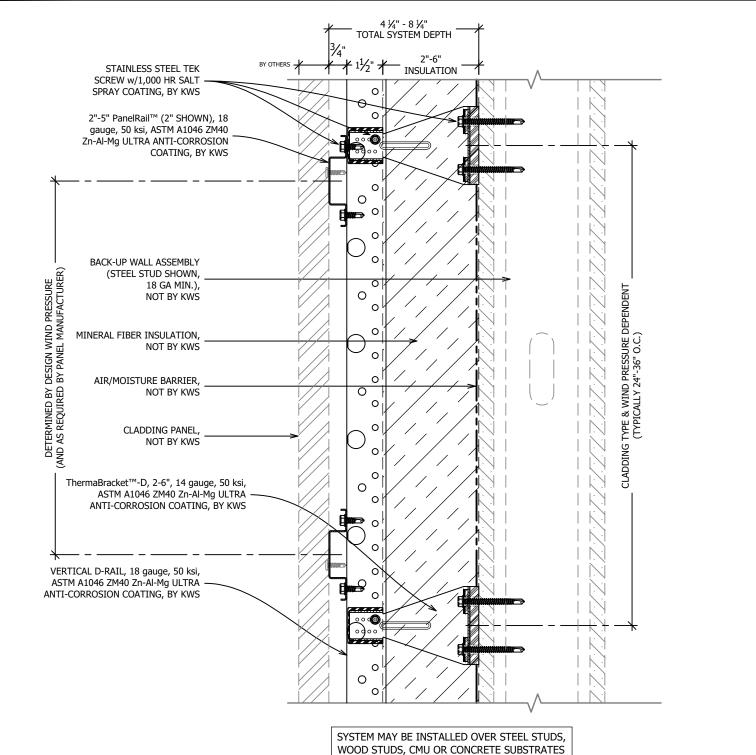
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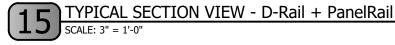
SHEET 14 of 22



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

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BACK TO TABLE OF CONTENTS

02/01/2016

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SHEET 15 of 22

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 PRESSURE DEPENDENT) AIR/MOISTURE BARRIER, NOT BY KWS MINERAL FIBER INSULATION, NOT BY KWS 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™, 18 gauge, VERTICAL 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

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

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BACK TO TABLE OF CONTENTS

02/01/2016

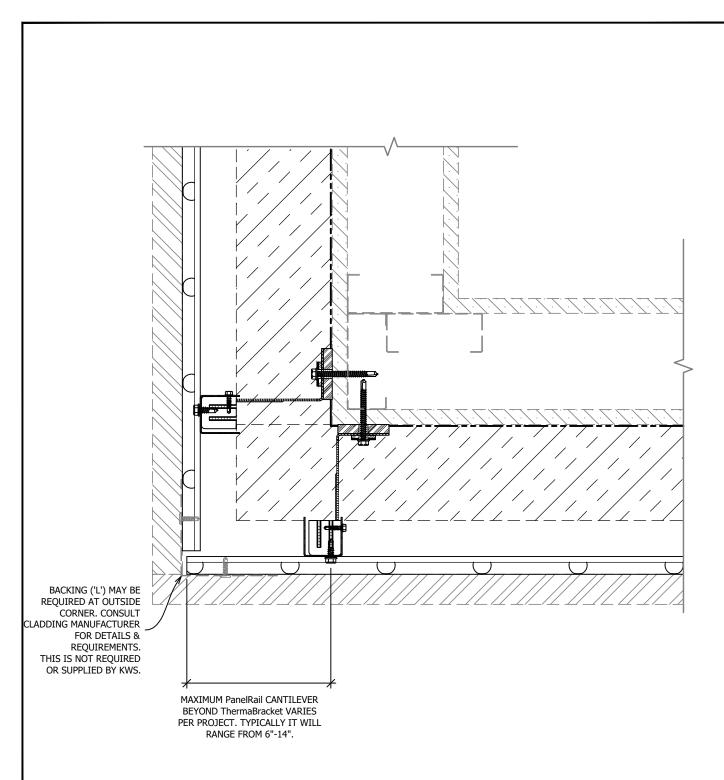
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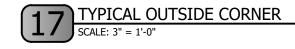


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RAINSCREEN ATTACHMENT

SHEET 16 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

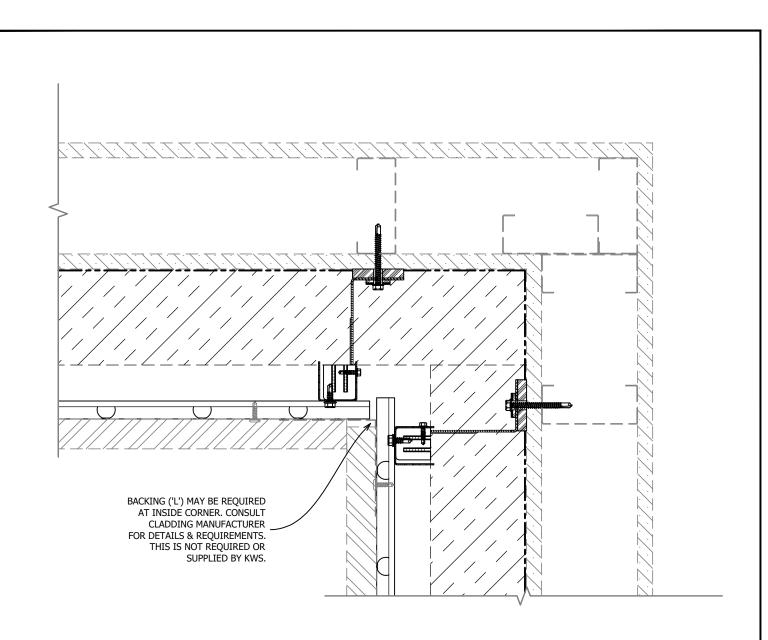
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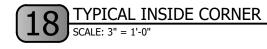


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RAINSCREEN ATTACHMENT

SHEET 17 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

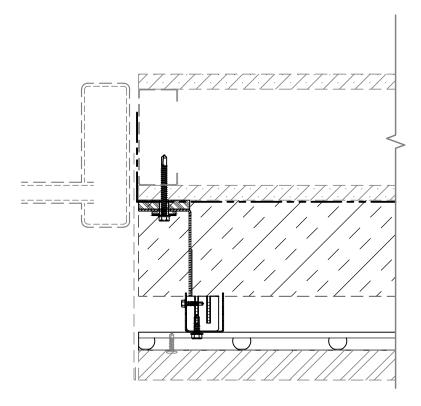
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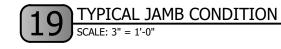
SHEET 18 of 22



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

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BACK TO TABLE OF CONTENTS

02/01/2016

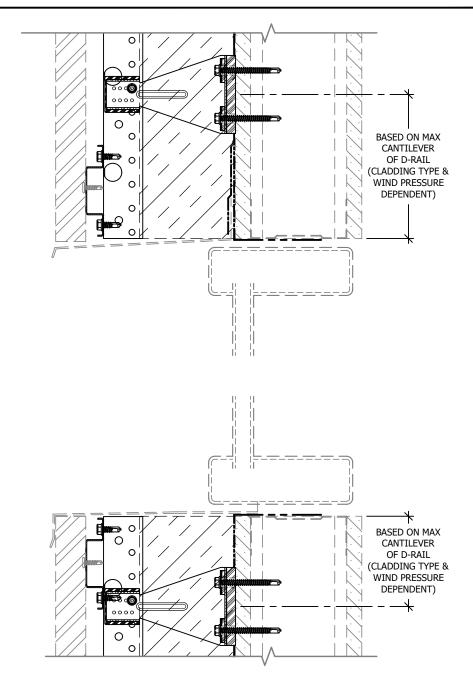
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SHEET 19 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

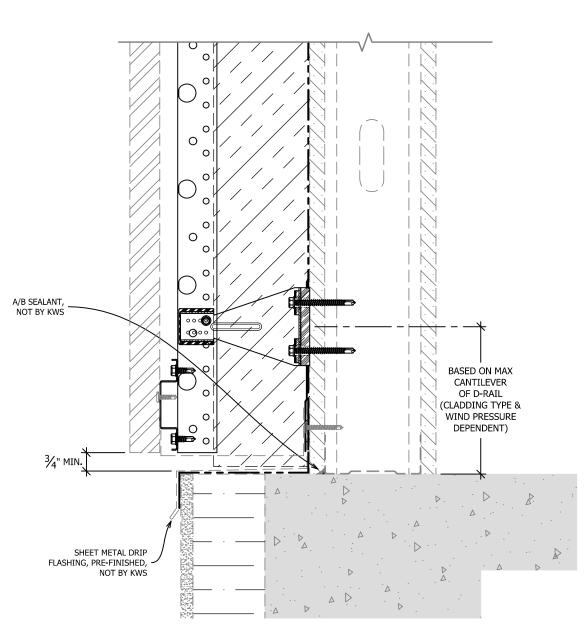
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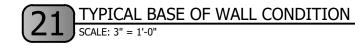
SHEET 20 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

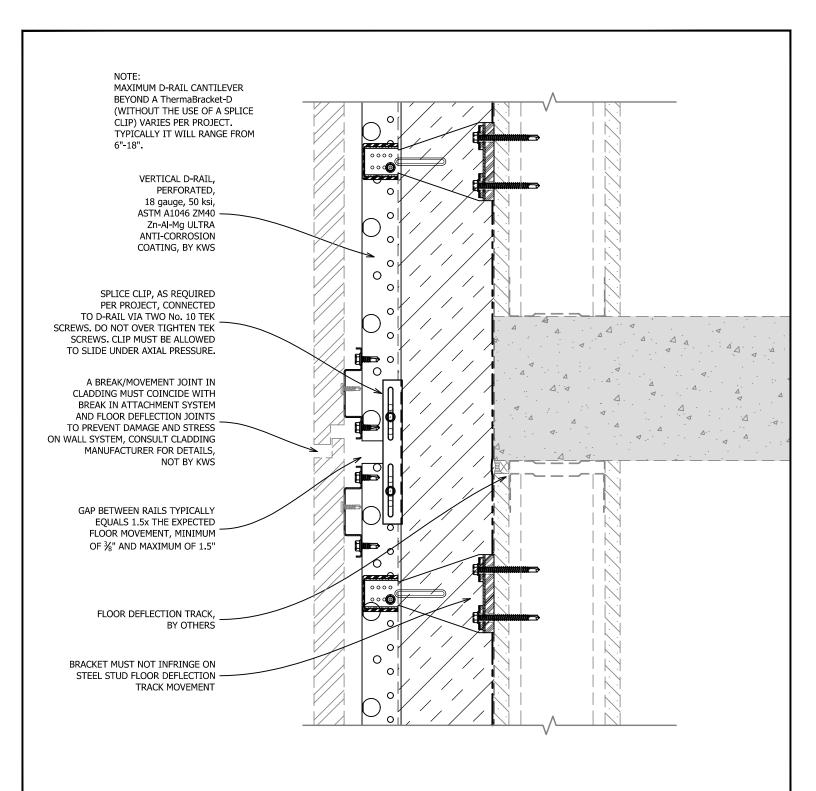
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SHEET 21 of 22



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BACK TO TABLE OF CONTENTS

02/01/2016

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SHEET 22 of 22