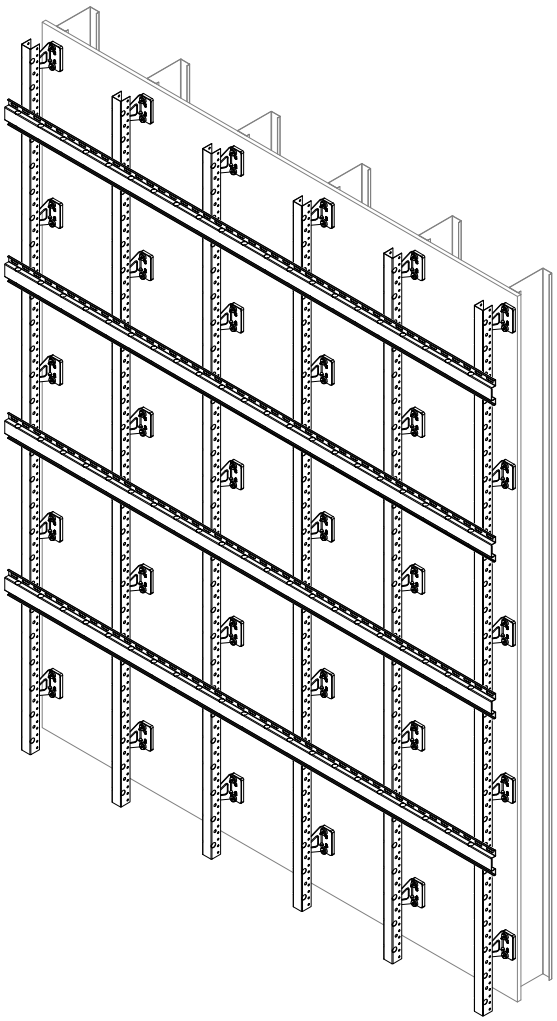
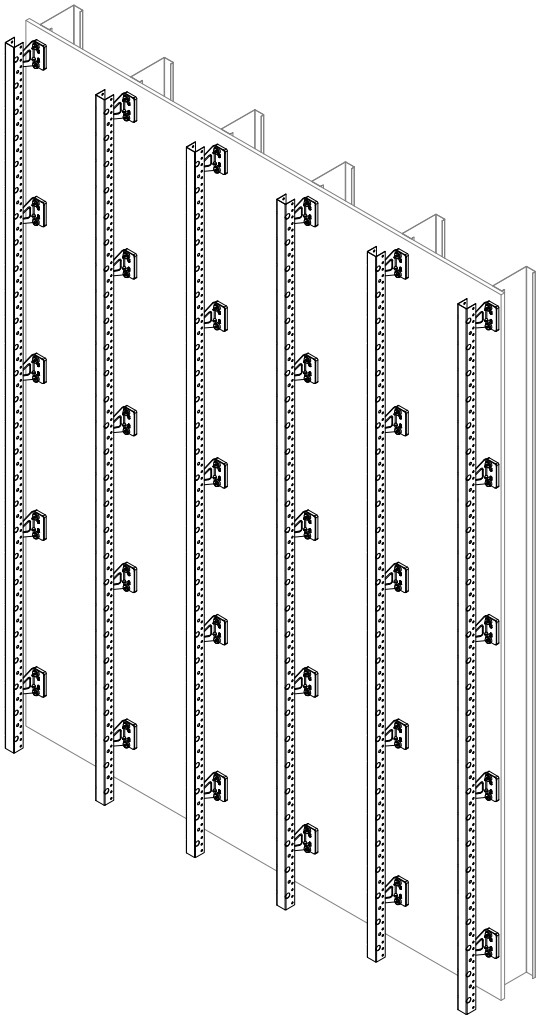
KNIGHT® WALL SYSTEMS

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM



VERTICAL ORIENTED D-SERIES
WITH OPTIONAL
HORIZONTAL PANELRAIL®
(EXTERIOR INSULATION OMITTED FOR CLARITY)

MINIMUM DEPTH: 4.25 INCHES
MAXIMUM DEPTH: 9.25 INCHES
(FACE OF SHEATHING TO FACE OF PANELRAIL®)



VERTICAL ORIENTED D-SERIES
(EXTERIOR INSULATION OMITTED FOR CLARITY)

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

GENERAL NOTES:

- KNIGHT WALL SYSTEMS (KWS) IS NOT RESPONSIBLE FOR INFORMATION SHOWN ON ALL DETAILS BEYOND KWS SPECIFIC SCOPE OF WORK QUOTED.
- 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.
- 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.
- KWS PROJECT SPECIFIC ENGINEERING, WHEN SUPPLIED, INCLUDES ANALYSIS OF THE LOAD CARRYING COMPONENTS, PRODUCTS AND FASTENERS SUPPLIED BY KWS. THE CLADDING, RAILS/BRACKETS/FASTENERS SUPPLIED BY OTHERS, THE BACK-UP WALL AND SUPER STRUCTURE DESIGN ARE WITH OTHER PARTIES. THE RESPONSIBILITY FOR THESE OTHER ASSEMBLIES TO ACCOMMODATE ALL LOADS IMPOSED UPON THEM MUST BE CONSIDERED.
- SOFT JOINTS, SEALANT AND FLASHING SPECIFICATIONS, DESIGN AND INSTALLATION ARE WITH OTHER PARTIES.
- WATER RESISTANT/AIR BARRIER AND INSULATION SPECIFICATIONS, DETAILING AND INSTALLATION, INCLUDING PENETRATIONS, ARE WITH OTHER PARTIES.
- INTERACTION BETWEEN DISSIMILAR MATERIALS 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.
- THE DETAILS WITHIN THIS DRAWING PACKAGE ARE NOT INTENDED TO REPLACE PROJECT SPECIFIC ENGINEERING CALCULATIONS OR THE DESIGN SERVICES OF A REGISTERED PROFESSIONAL DESIGNER.

*Maximum allowable spacing and dead load (weight of cladding) is based on the total load (dead+live) acting on the assembly, brackets & connections.

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE SUPPORT SYSTEM. PROJECT SPECIFIC ENGINEERING WILL ADDRESS STRUCTURAL ATTACHMENT. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY KNIGHT WALL SYSTEMS®. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from any patent owned by KNIGHT WALL SYSTEMS® or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use. They are not guaranteed in any way by the Knight Wall Systems, Inc. since building design, engineering, and construction, including workmanship and materials are beyond the control of the manufacturer. The information provided here is subject to change without notice.
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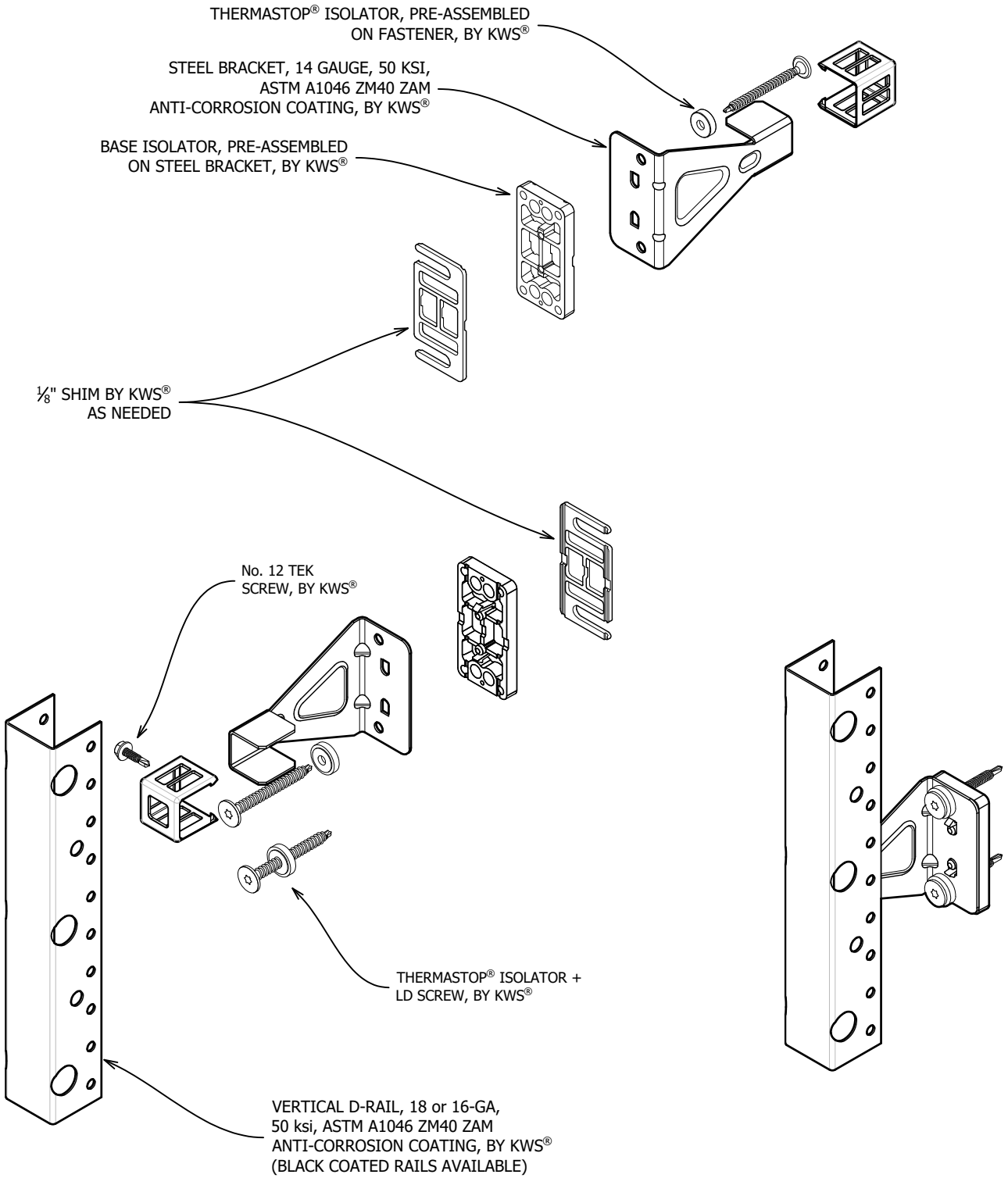
PLEASE FEEL FREE TO CONTACT KWS OR A LOCAL KWS REPRESENTATIVE FOR PROJECT SPECIFIC ASSISTANCE WITH DETAILS AND SPECIFYING.

1.855.KWS.WALL

info@knightwallsystems.com

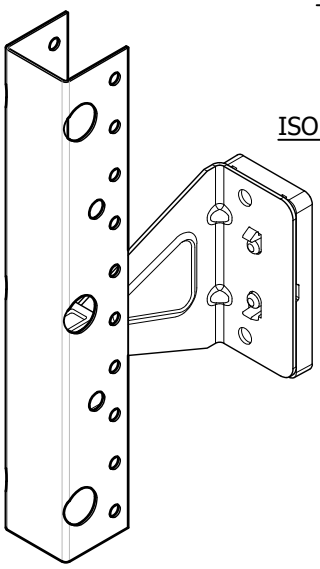
www.knightwallsystems.com



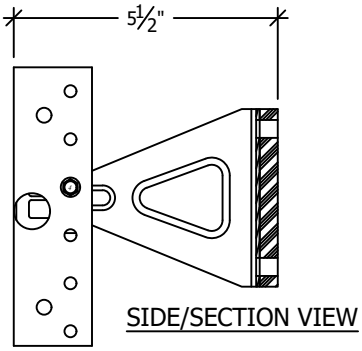
MFI® SYSTEM D-SERIES ASSEMBLY - ISO VIEW

SCALE: NTS

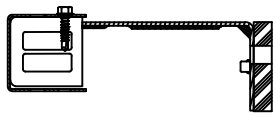
D-RAIL - NO OFFSET



ISO VIEW



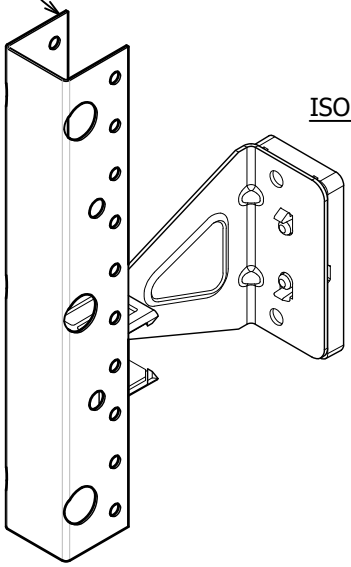
SIDE/SECTION VIEW



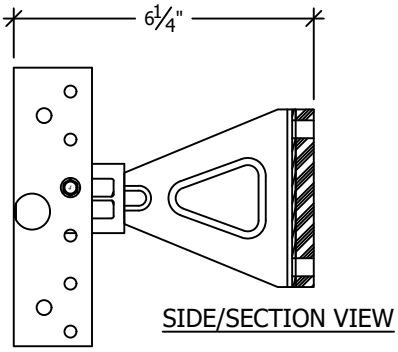
TOP/PLAN VIEW

D-RAIL - MAX OFFSET

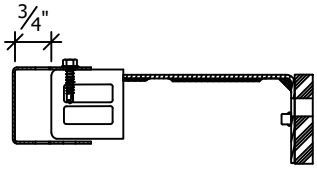
D-RAIL CAN BE OFFSET
UP TO 0.75"



ISO VIEW



SIDE/SECTION VIEW



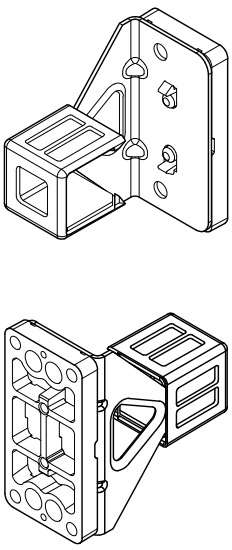
TOP/PLAN VIEW

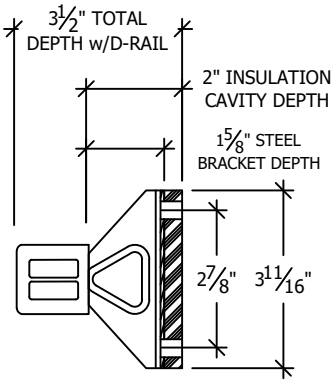
*D-RAIL MAX OFFSET IS PROJECT SPECIFIC AND DETERMINED BY WIND PRESSURES

D-RAIL ADJUSTABILITY

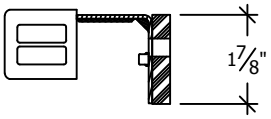
SCALE: NTS

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM





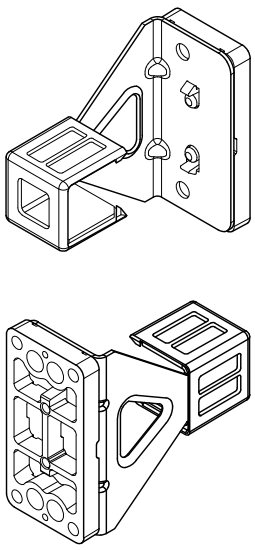
SIDE/SECTION VIEW

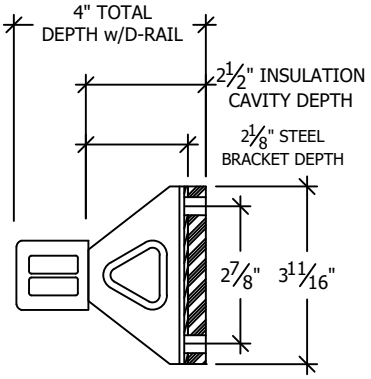


2" THERMABRACKET® D-SERIES

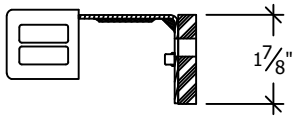
TOP/PLAN VIEW

OVERALL DEPTH
w/D-RAIL ONLY: 3.5"
w/D-RAIL + PANELRAIL®: 4.25"-5.25"





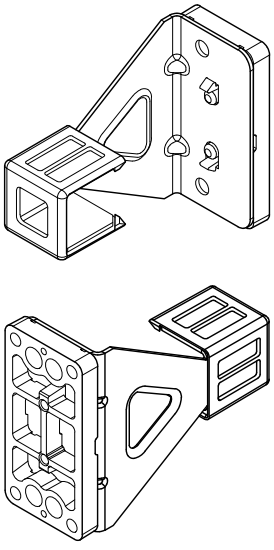
SIDE/SECTION VIEW

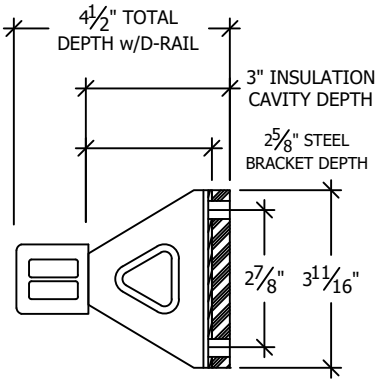


2.5" THERMABRACKET® D-SERIES

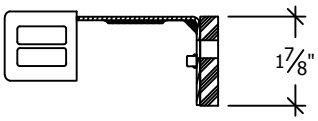
TOP/PLAN VIEW

OVERALL DEPTH
w/D-RAIL ONLY: 4"
w/D-RAIL + PANELRAIL®: 4.75"-5.75"





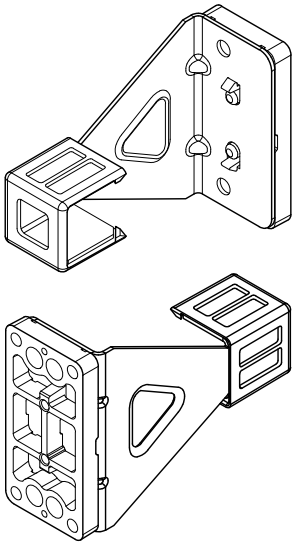
SIDE/SECTION VIEW

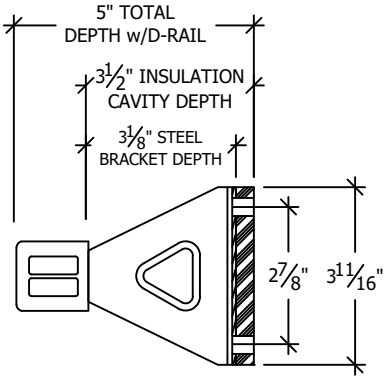


3" THERMABRACKET® D-SERIES

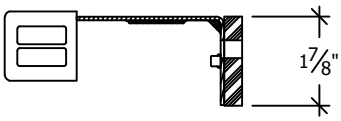
TOP/PLAN VIEW

OVERALL DEPTH
w/D-RAIL ONLY: 4.5"
w/D-RAIL + PANELRAIL®: 5.25"-6.25"





SIDE/SECTION VIEW



3.5" THERMABRACKET® D-SERIES

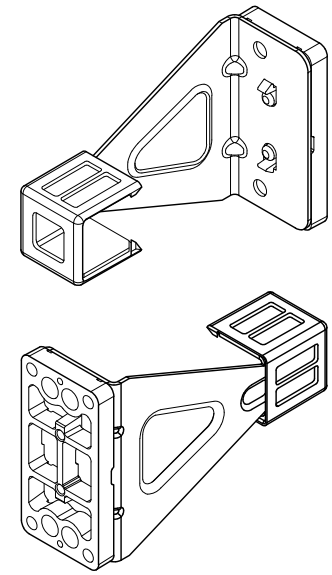
TOP/PLAN VIEW

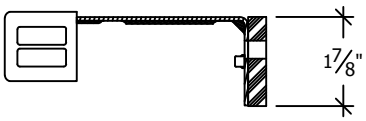
OVERALL DEPTH
w/D-RAIL ONLY: 5"
w/D-RAIL + PANELRAIL®: 5.75"-6.75"

THERMABRACKET® D-SERIES SIZES - 2"-3.5"

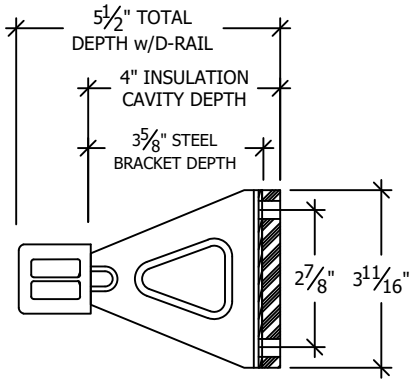
SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM





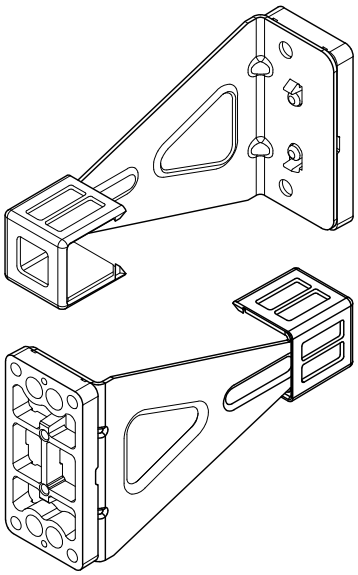
TOP/PLAN VIEW



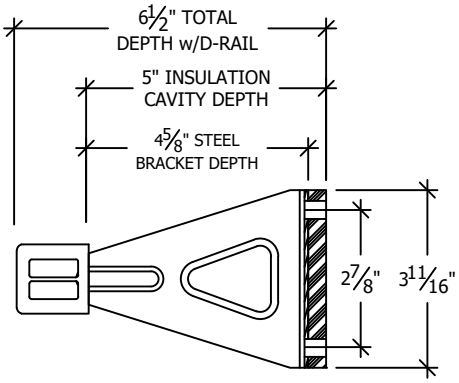
SIDE/SECTION VIEW

4" THERMABRACKET® D-SERIES

OVERALL DEPTH
w/D-RAIL ONLY: 5.5"
w/D-RAIL + PANELRAIL®: 6.25"-7.25"



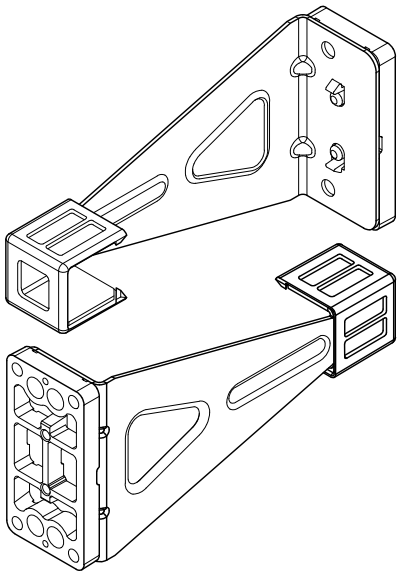
TOP/PLAN VIEW



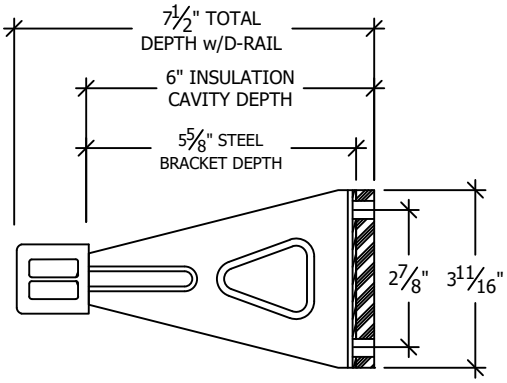
SIDE/SECTION VIEW

5" THERMABRACKET® D-SERIES

OVERALL DEPTH
w/D-RAIL ONLY: 6.5"
w/D-RAIL + PANELRAIL®: 7.25"-8.25"



TOP/PLAN VIEW



SIDE/SECTION VIEW

6" THERMABRACKET® D-SERIES

OVERALL DEPTH
w/D-RAIL ONLY: 7.5"
w/D-RAIL + PANELRAIL®: 8.25"-9.25"

THERMABRACKET® D-SERIES SIZES - 4"-6"

SCALE: 3" = 1'-0"

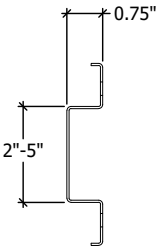
KNIGHTWALLSYSTEMS.COM / 1.855.KWS.WALL / 2401 E. 6TH ST., DEER PARK, WA 99006

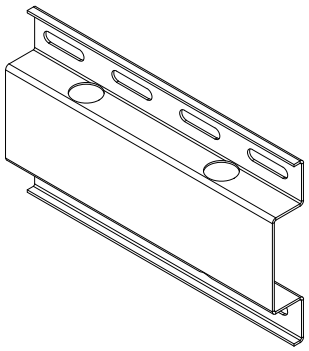
MADE IN USA

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM

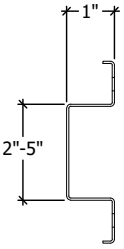
*ALL PANELRAIL® ARE AVAILABLE IN 18- OR 16-GA;
STANDARD SILVER MILL FINISH OR PAINTED BLACK

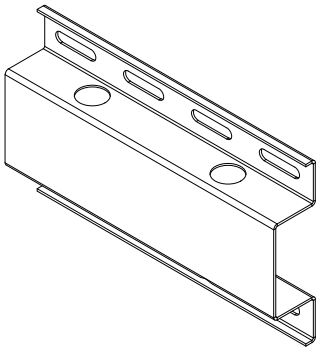
PANELRAIL® SERIES 075



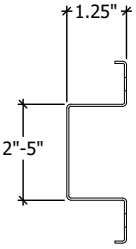


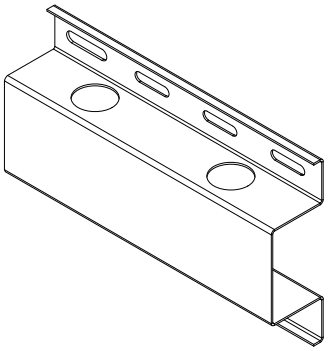
PANELRAIL® SERIES 100



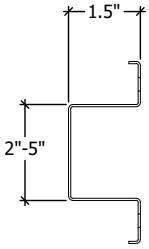


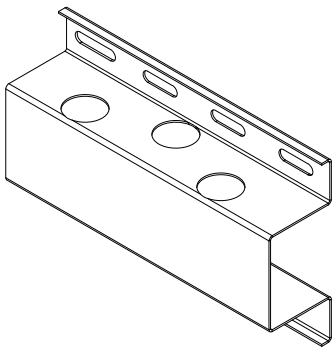
PANELRAIL® SERIES 125



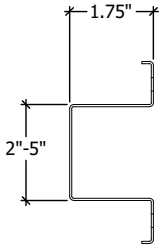


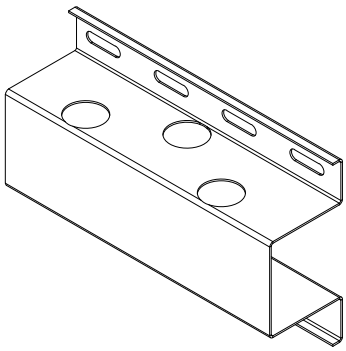
PANELRAIL® SERIES 150





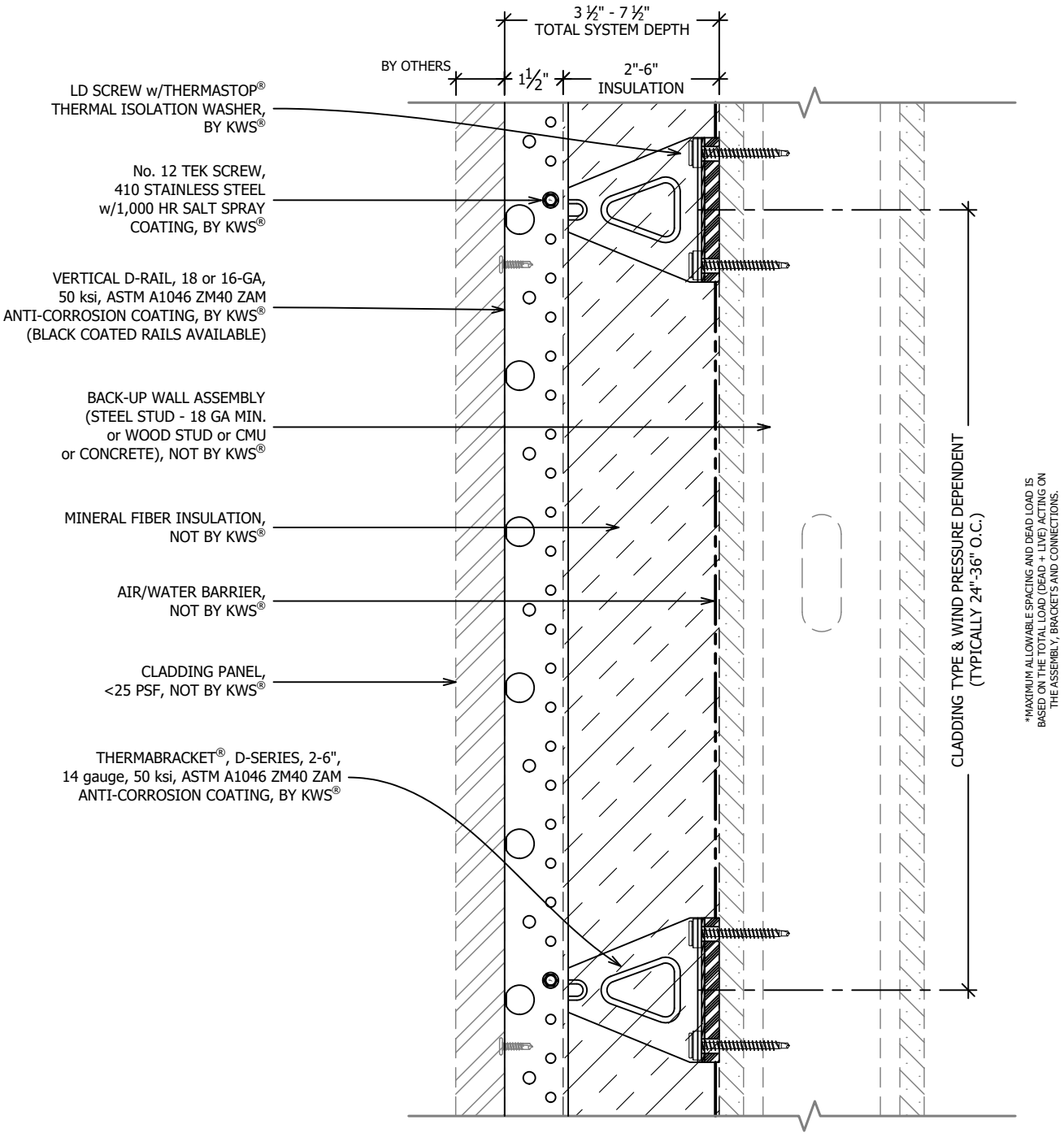
PANELRAIL® SERIES 175





PANELRAIL® SERIES
SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM



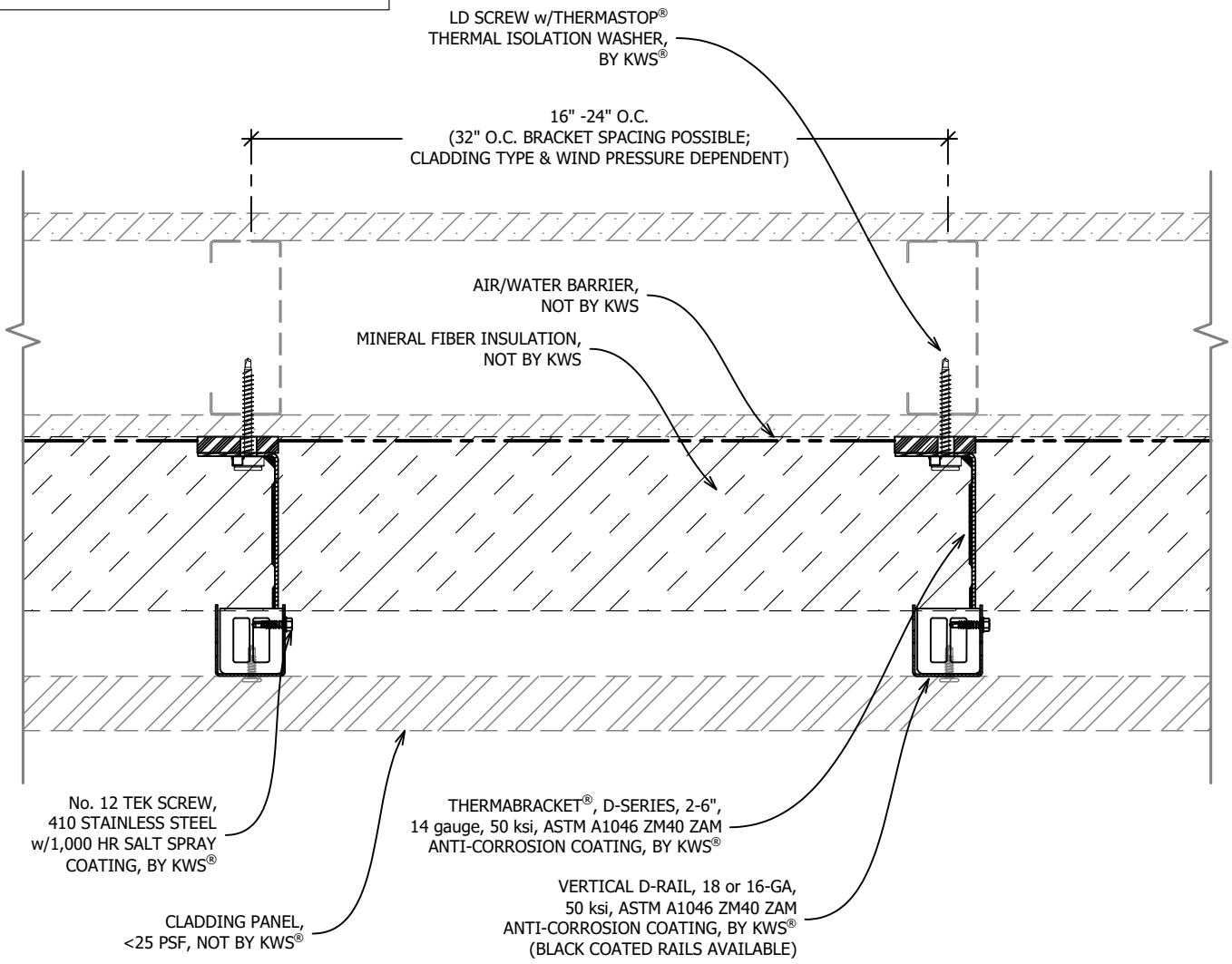
SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).

TYPICAL SECTION VIEW - D-RAIL ONLY

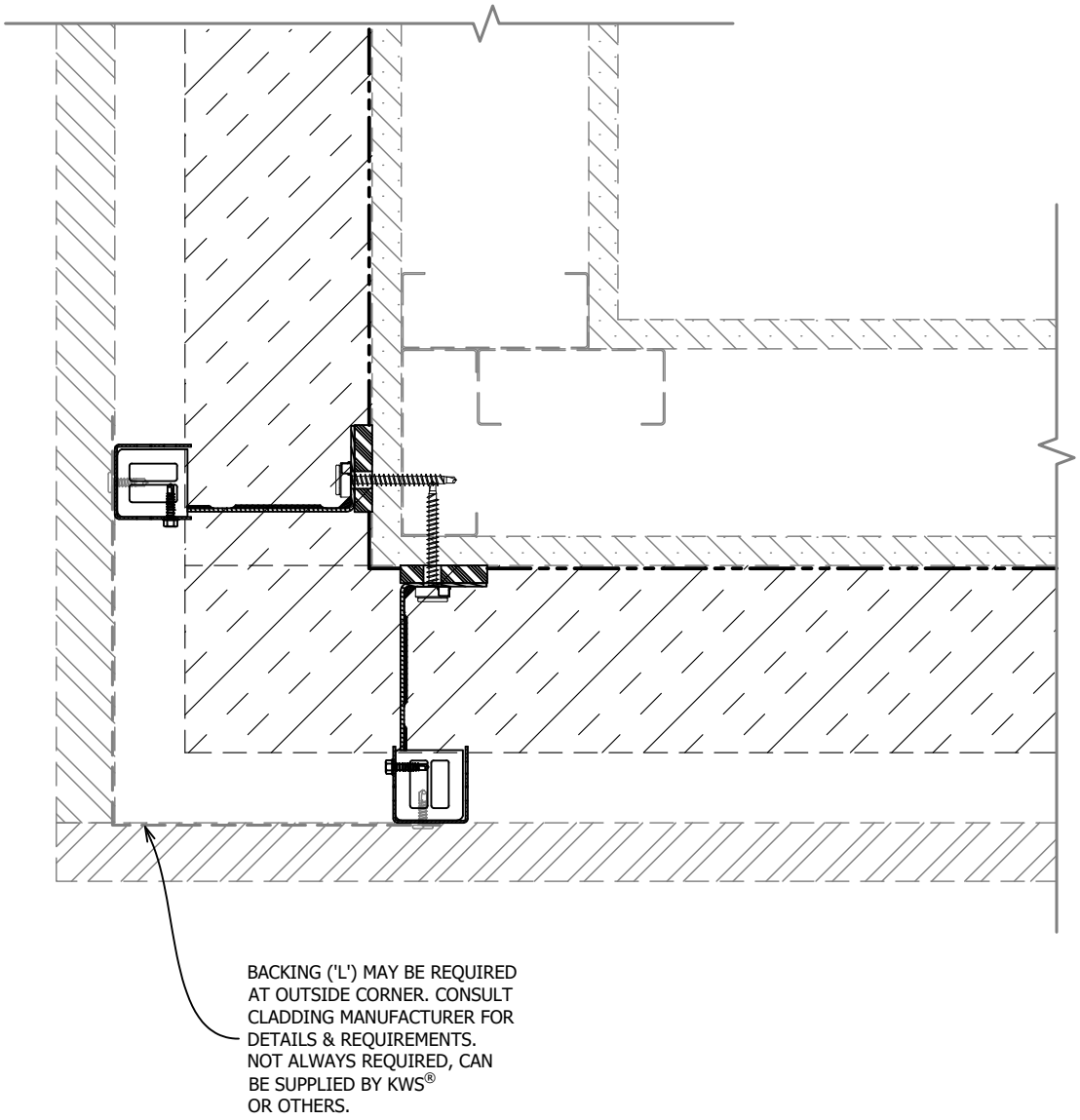
SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM

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

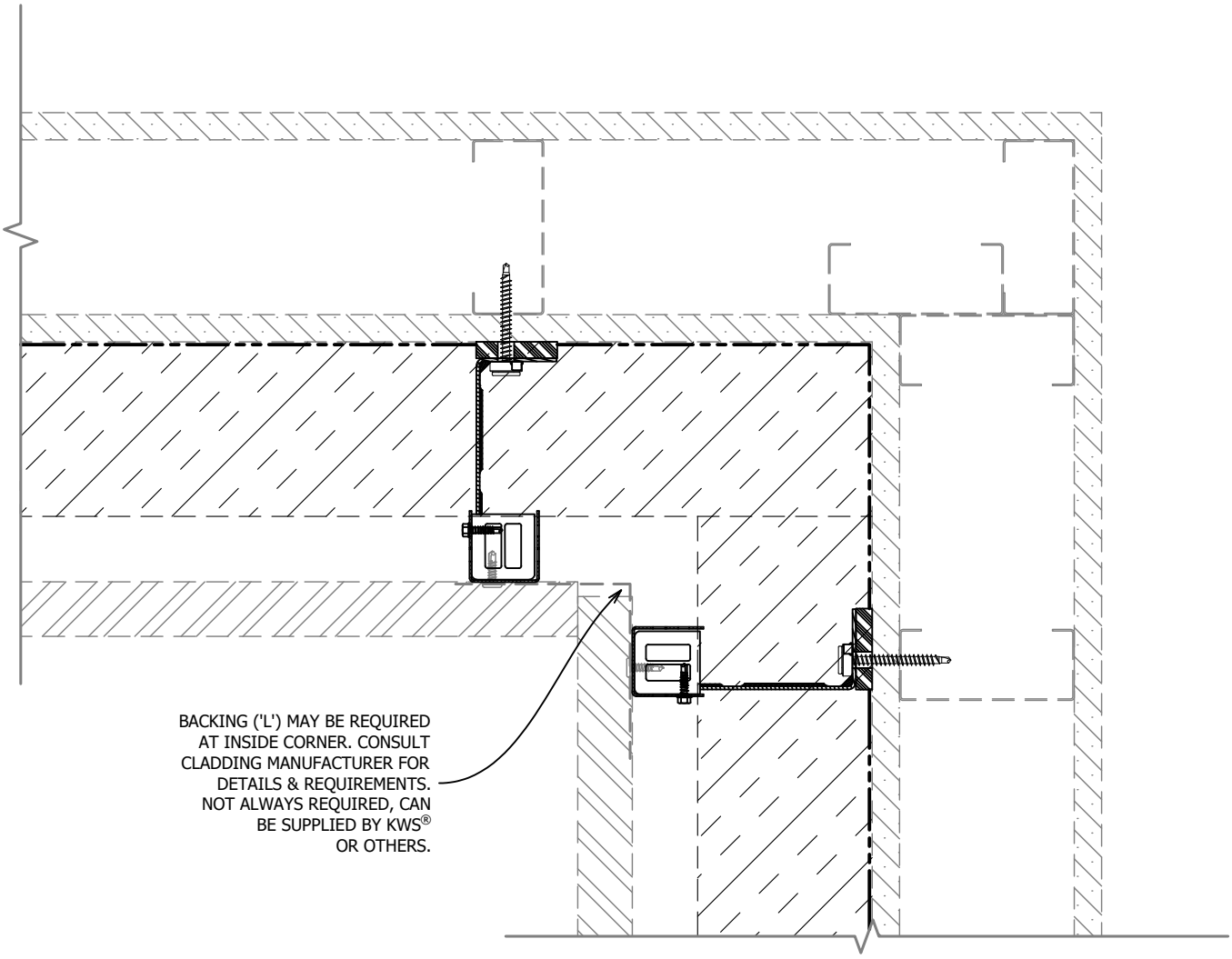


TYPICAL PLAN VIEW - D-RAIL ONLY
SCALE: 3" = 1'-0"



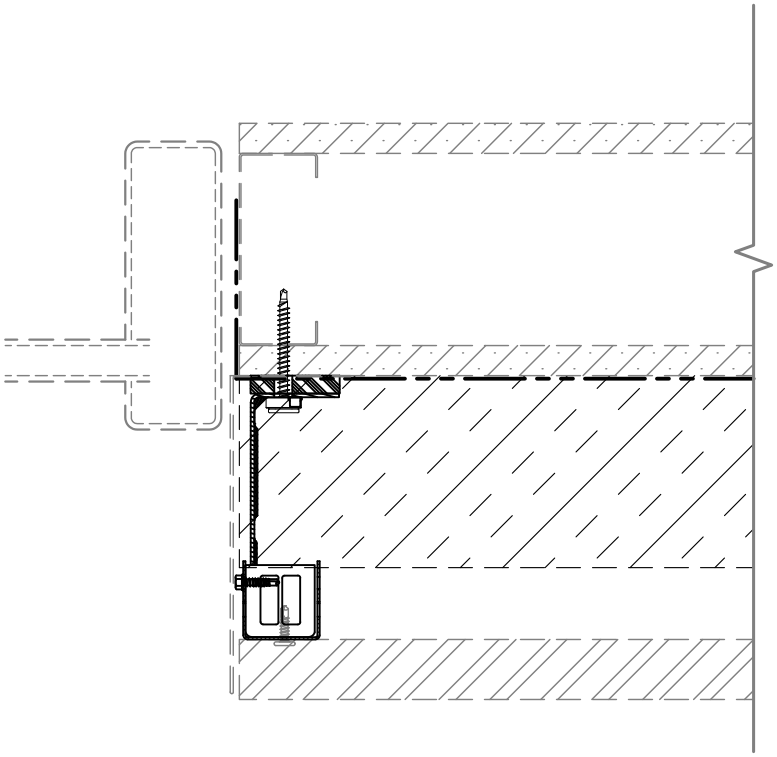
TYPICAL OUTSIDE CORNER CONDITION

SCALE: 3" = 1'-0"



TYPICAL INSIDE CORNER CONDITION

SCALE: 3" = 1'-0"

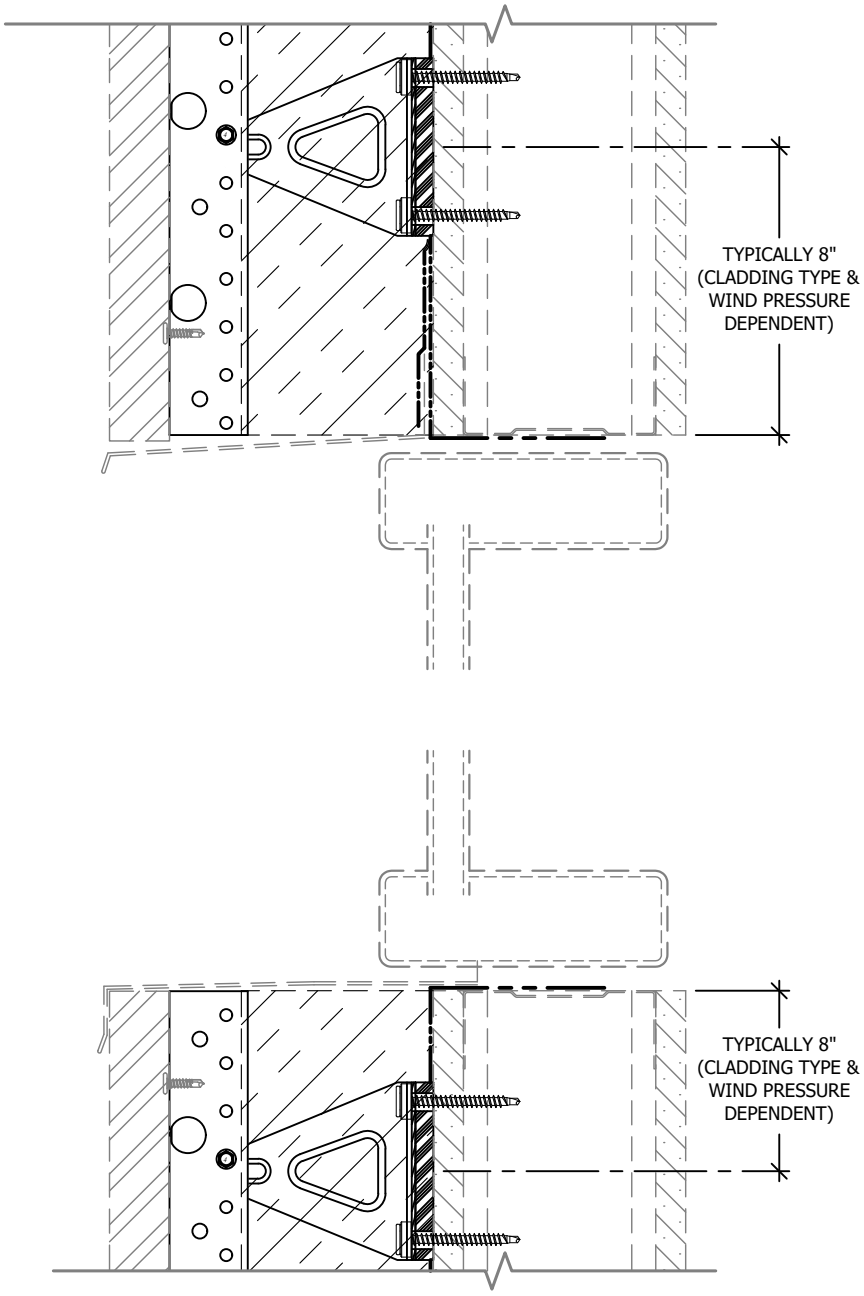


* FLASHING DETAILS VARY BASED ON WINDOW TYPE, POSITION (INSET VS FLUSH) AND CLADDING TYPE. FLASHING IS NOT BY KWS®.

TYPICAL JAMB CONDITION

SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM



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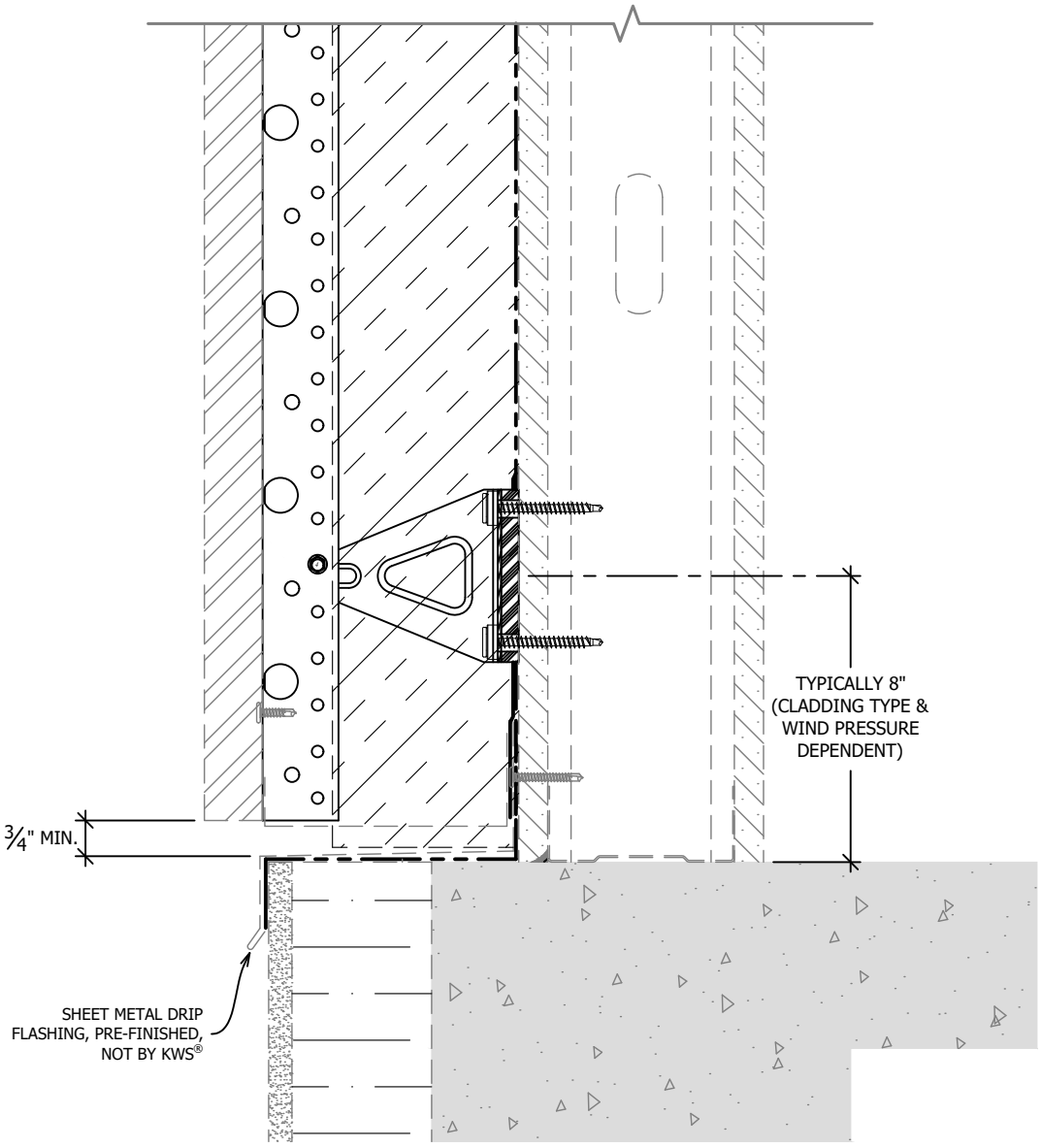
TYPICAL HEAD & SILL CONDITION

SCALE: 3" = 1'-0"

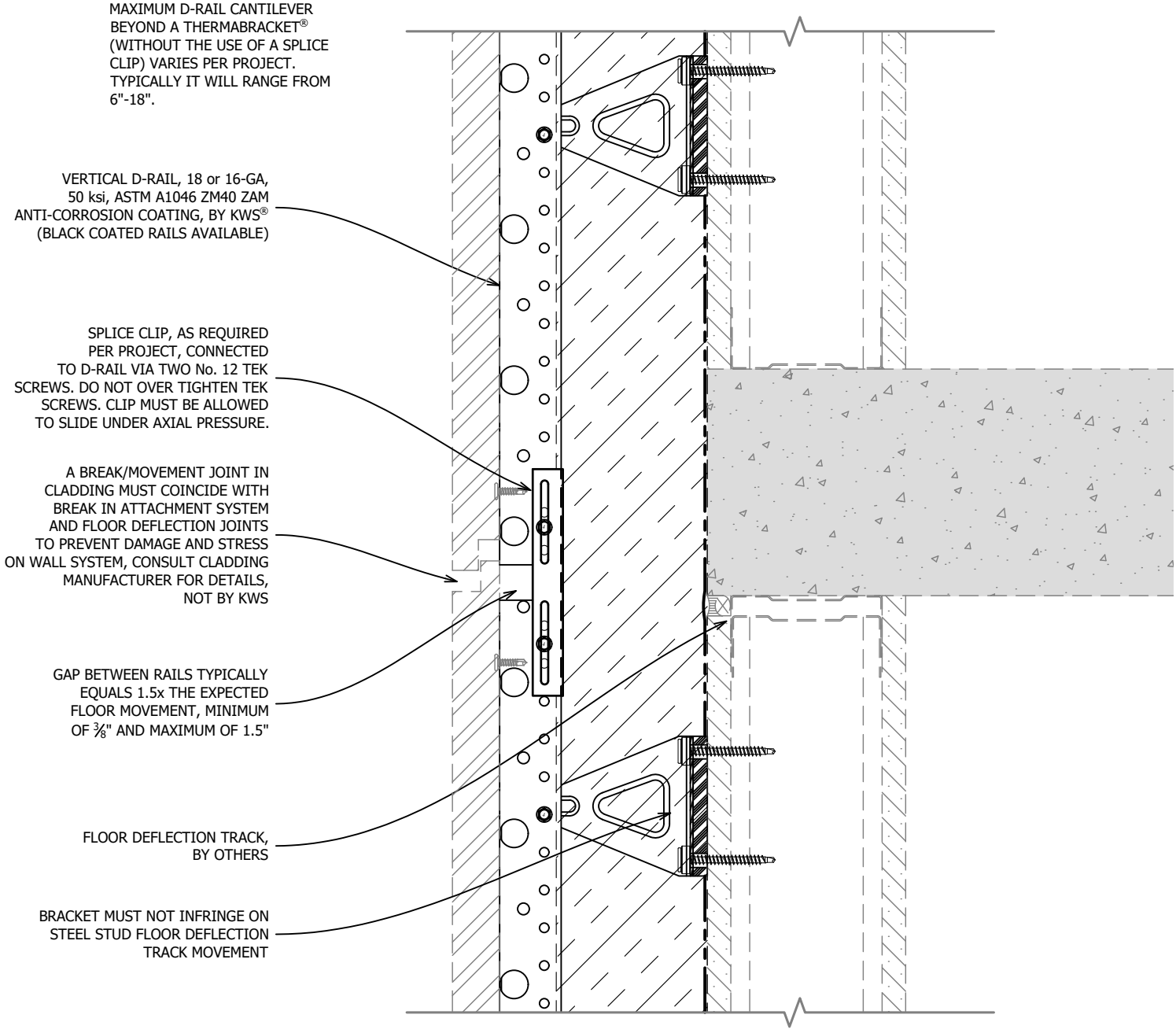


* CLEAR & UNRESTRICTED VENTILATION & DRAINAGE REQUIRED AT BASE OF WALL

TYPICAL BASE OF WALL CONDITION

SCALE: 3" = 1'-0"

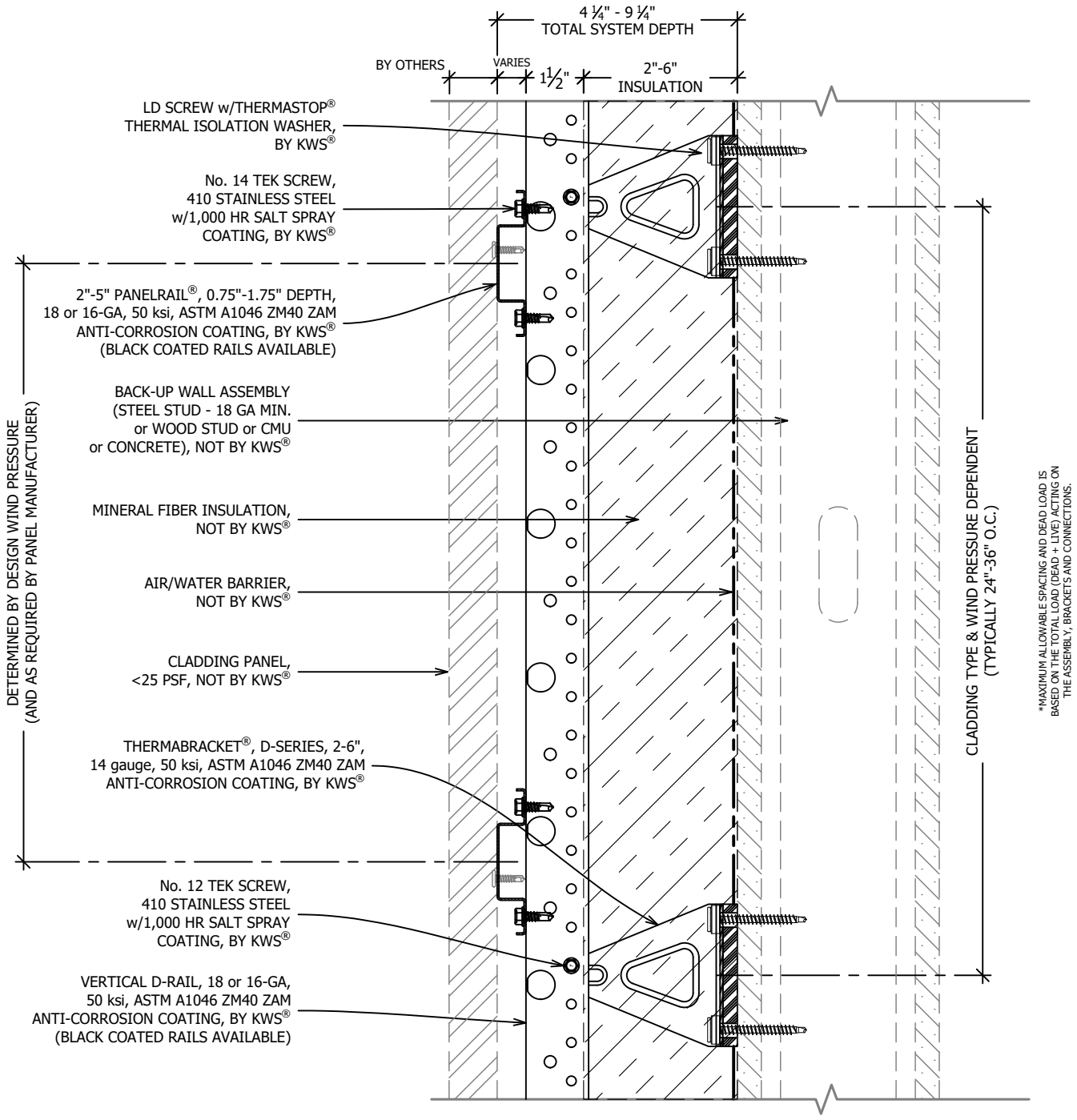
NOTE:
MAXIMUM D-RAIL CANTILEVER BEYOND A THERMABRACKET® (WITHOUT THE USE OF A SPLICE CLIP) VARIES PER PROJECT. TYPICALLY IT WILL RANGE FROM 6"-18".



TYPICAL FLOOR DEFLECTION JOINT

SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM



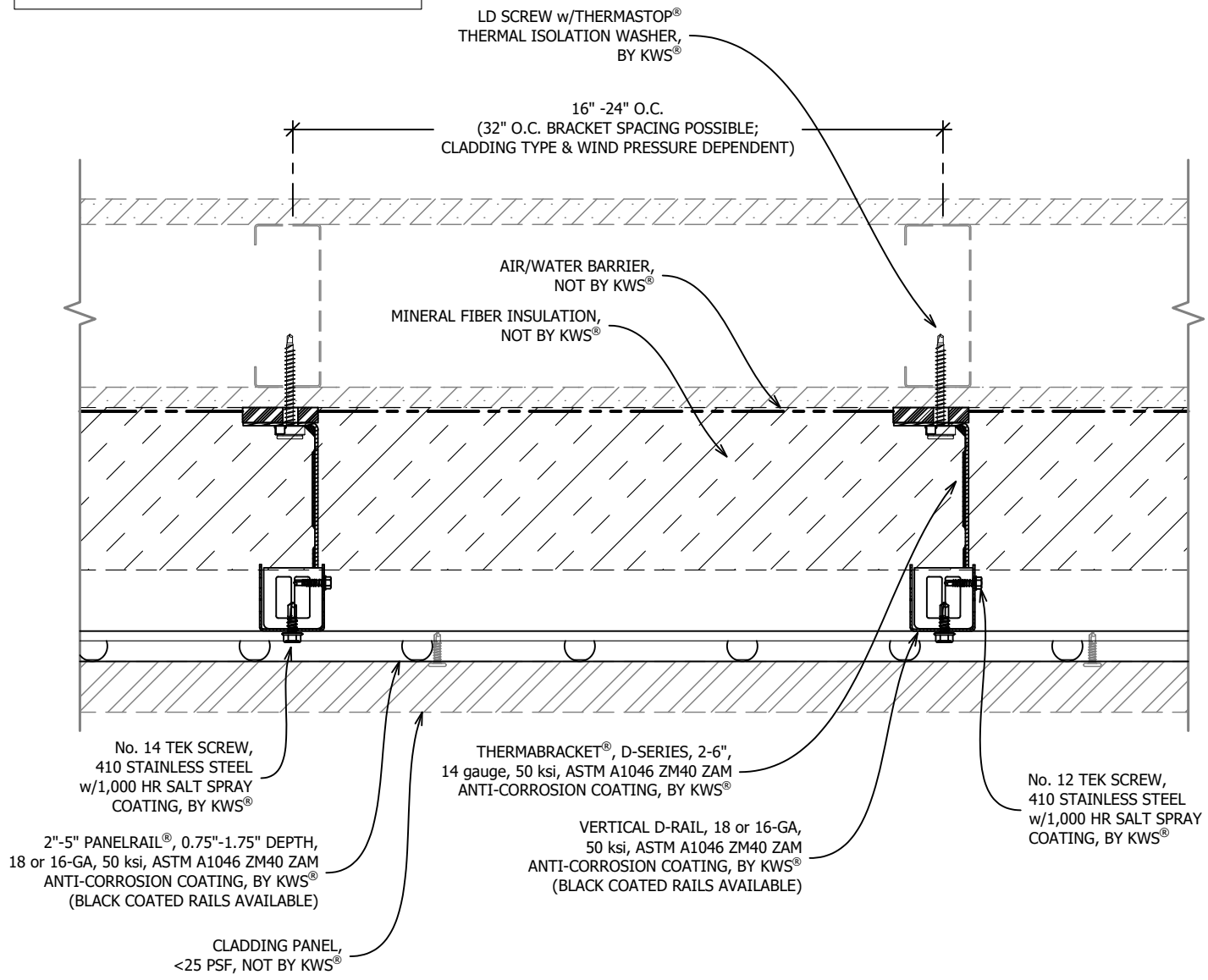
SYSTEM MAY BE INSTALLED OVER STEEL STUDS, WOOD STUDS, CMU OR CONCRETE SUBSTRATES (WITH USE OF APPROPRIATE WALL ANCHORS).

TYPICAL SECTION VIEW - D-RAIL + PANELRAIL®

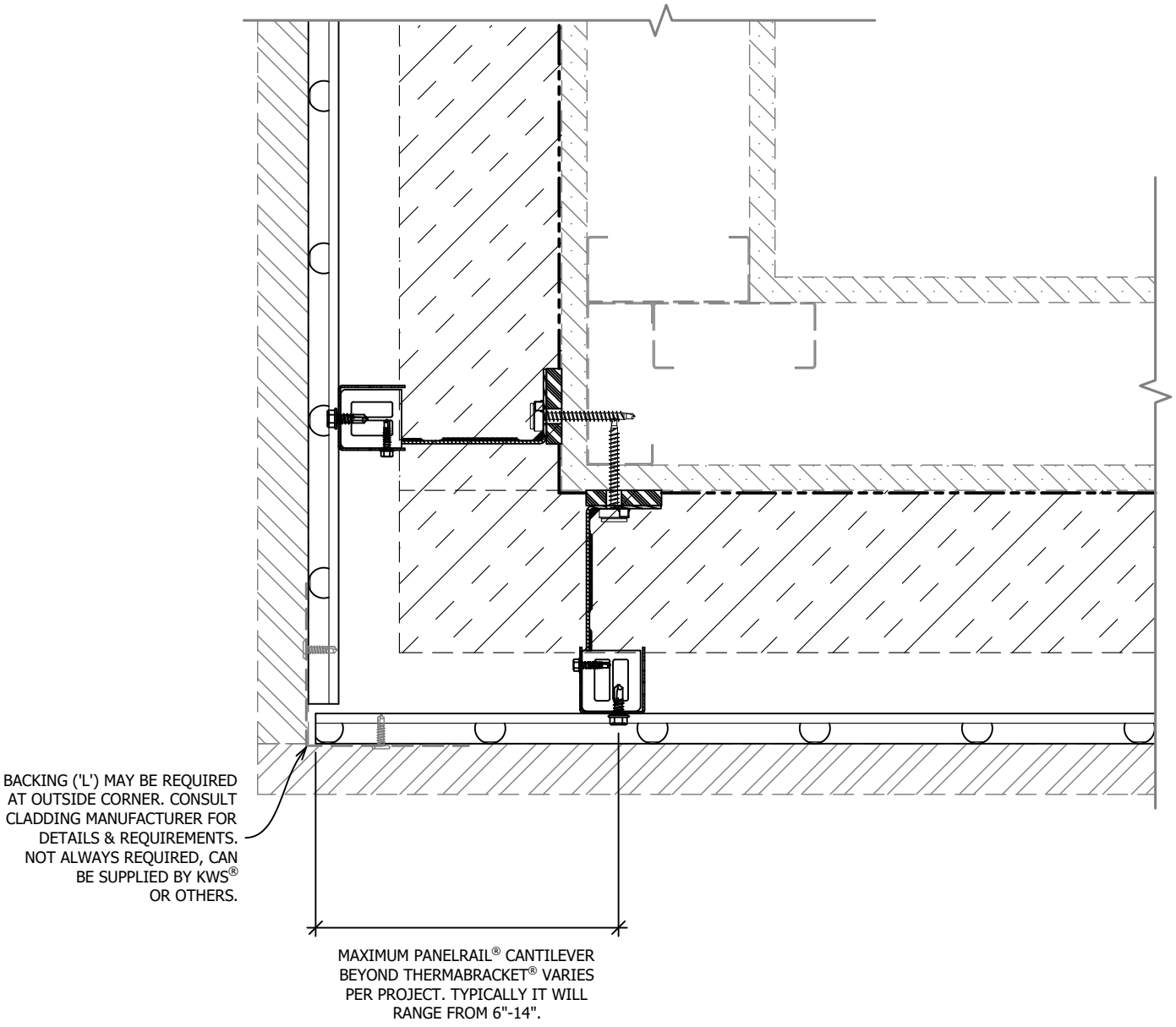
SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM

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

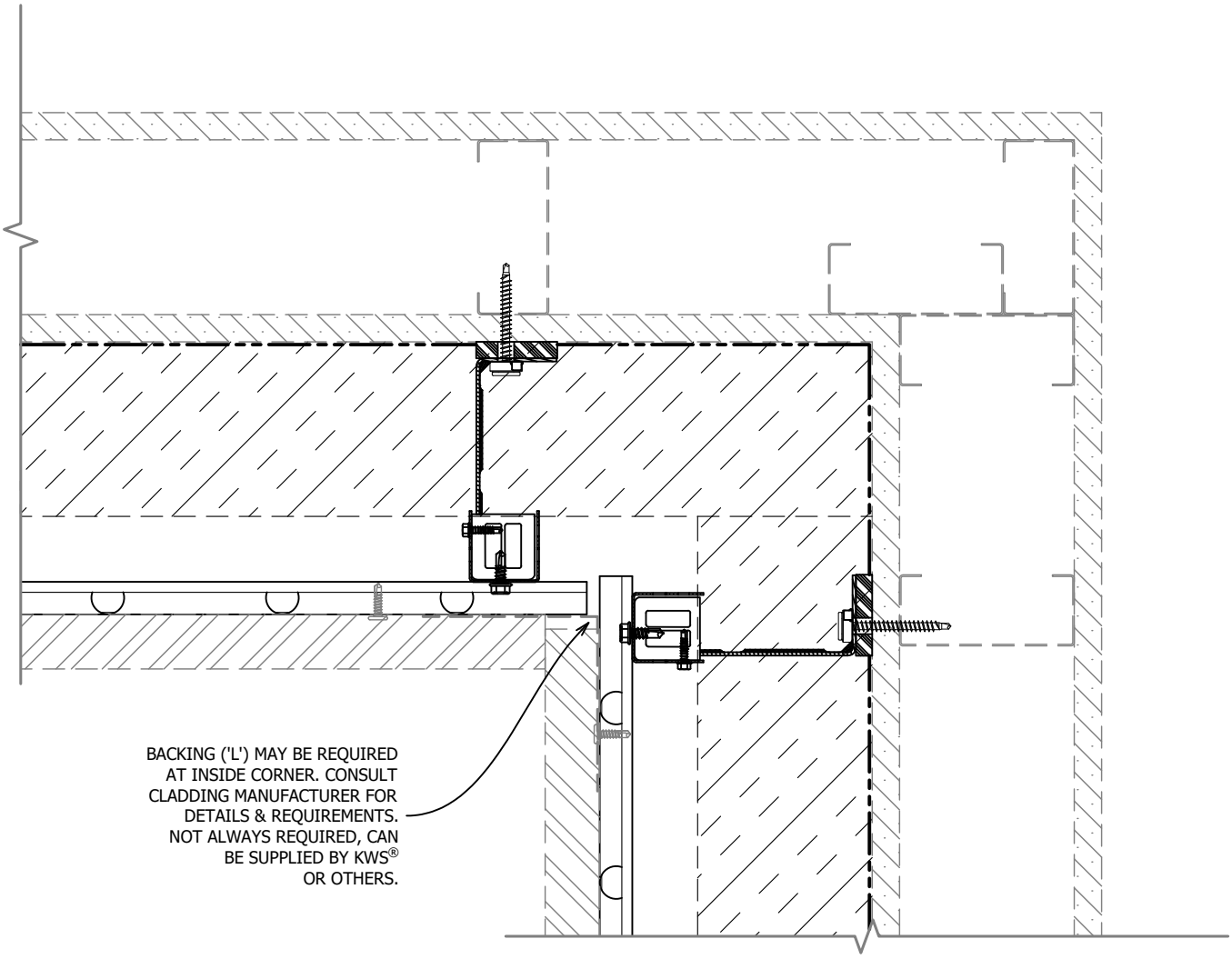


TYPICAL PLAN VIEW - D-RAIL + PANELRAIL®
SCALE: 3" = 1'-0"



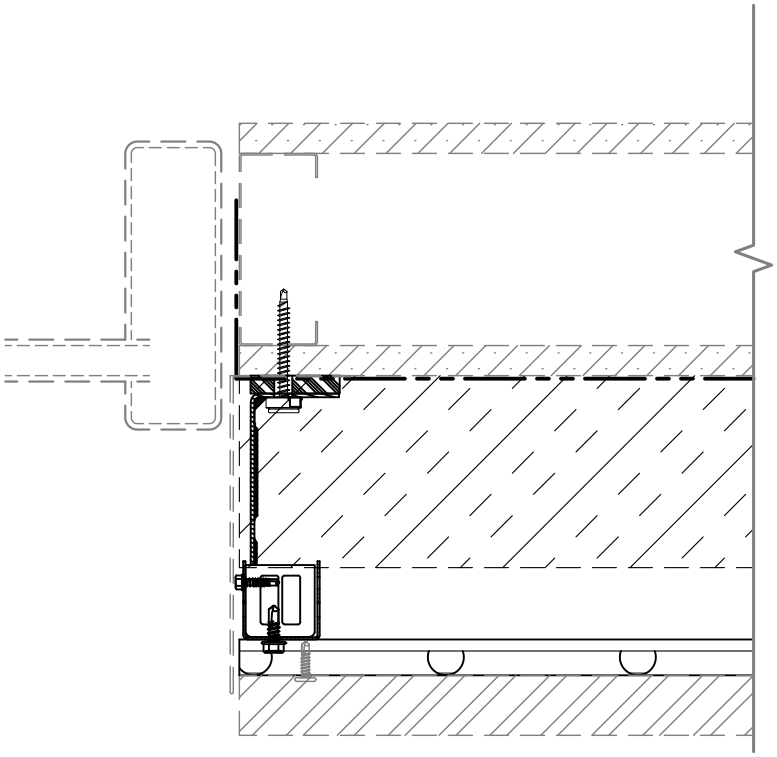
TYPICAL OUTSIDE CORNER CONDITION

SCALE: 3" = 1'-0"



TYPICAL INSIDE CORNER CONDITION

SCALE: 3" = 1'-0"



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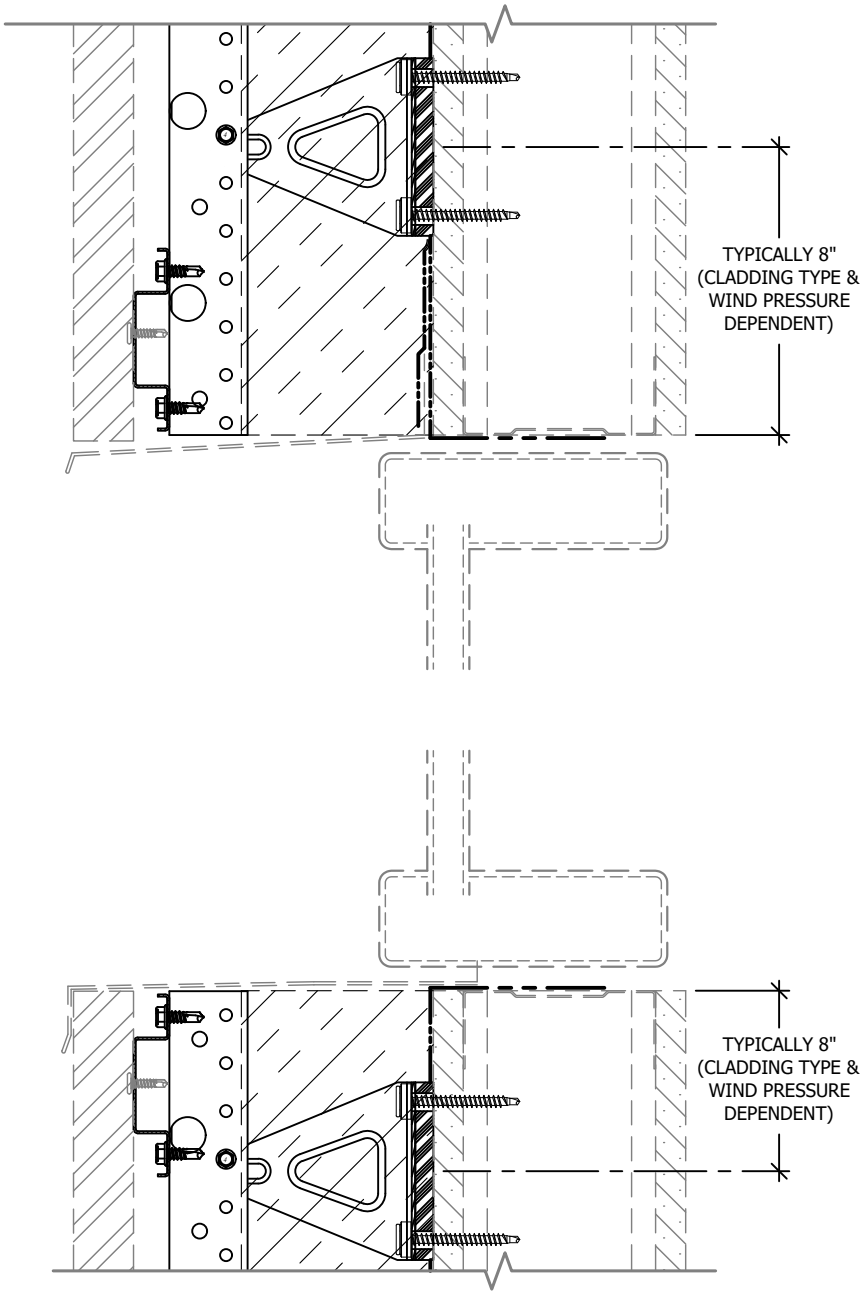
TYPICAL JAMB CONDITION

SCALE: 3" = 1'-0"



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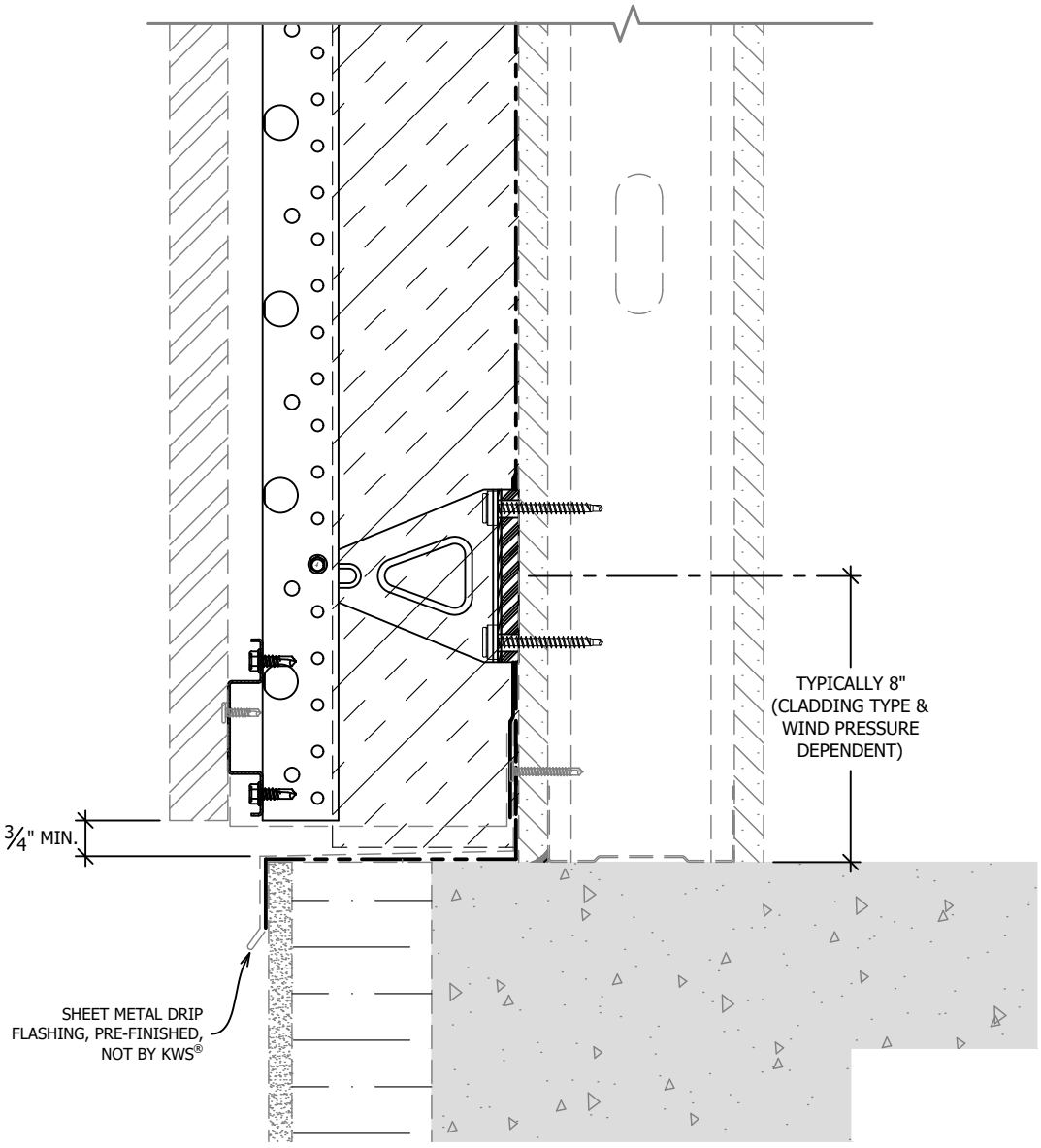
TYPICAL HEAD & SILL CONDITION

SCALE: 3" = 1'-0"



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TYPICAL BASE OF WALL CONDITION

SCALE: 3" = 1'-0"

MFI® SYSTEM GUIDE DETAILS
CLADDING SUPPORT SYSTEM

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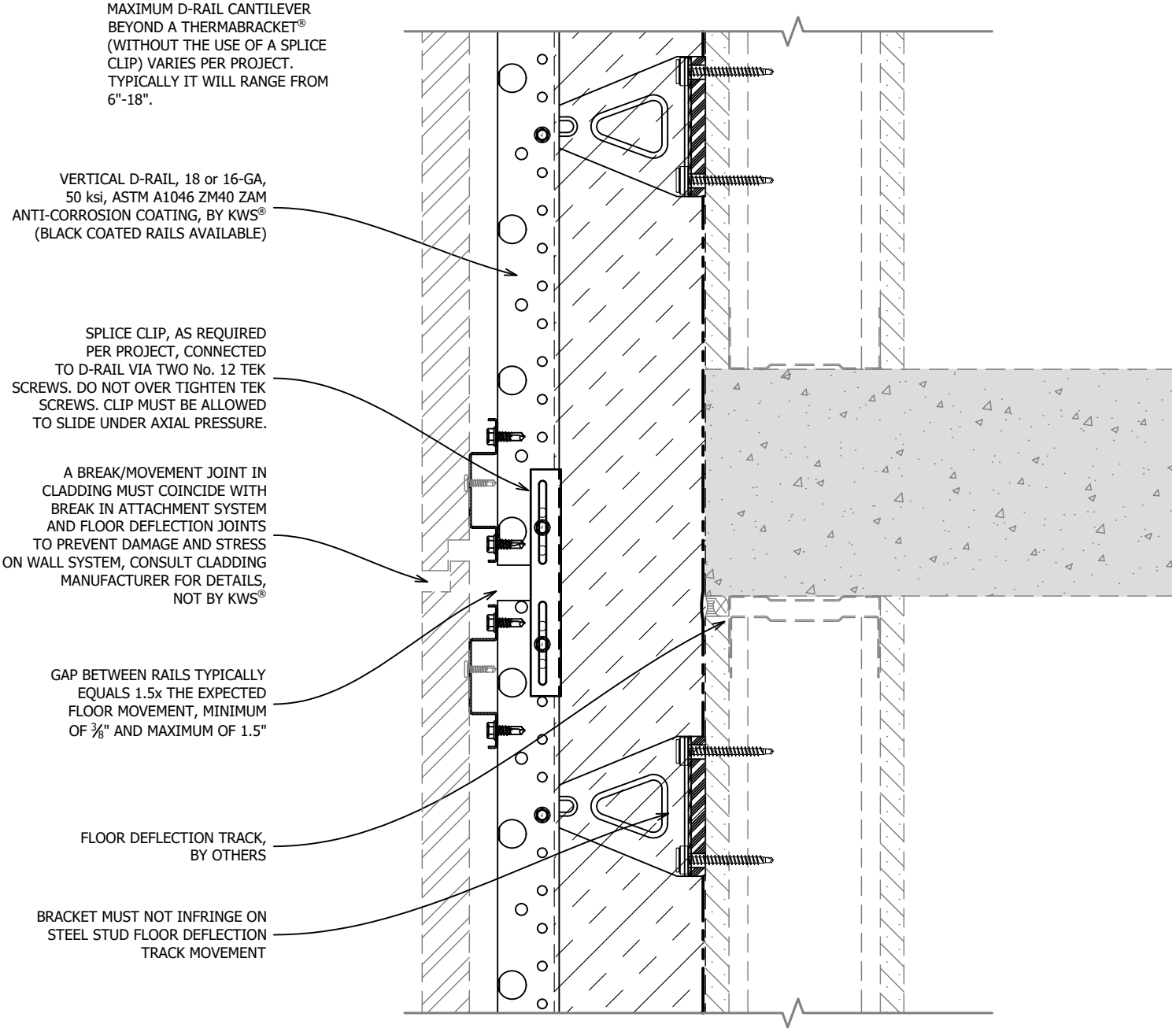

TYPICAL FLOOR DEFLECTION JOINT
SCALE: 3" = 1'-0"