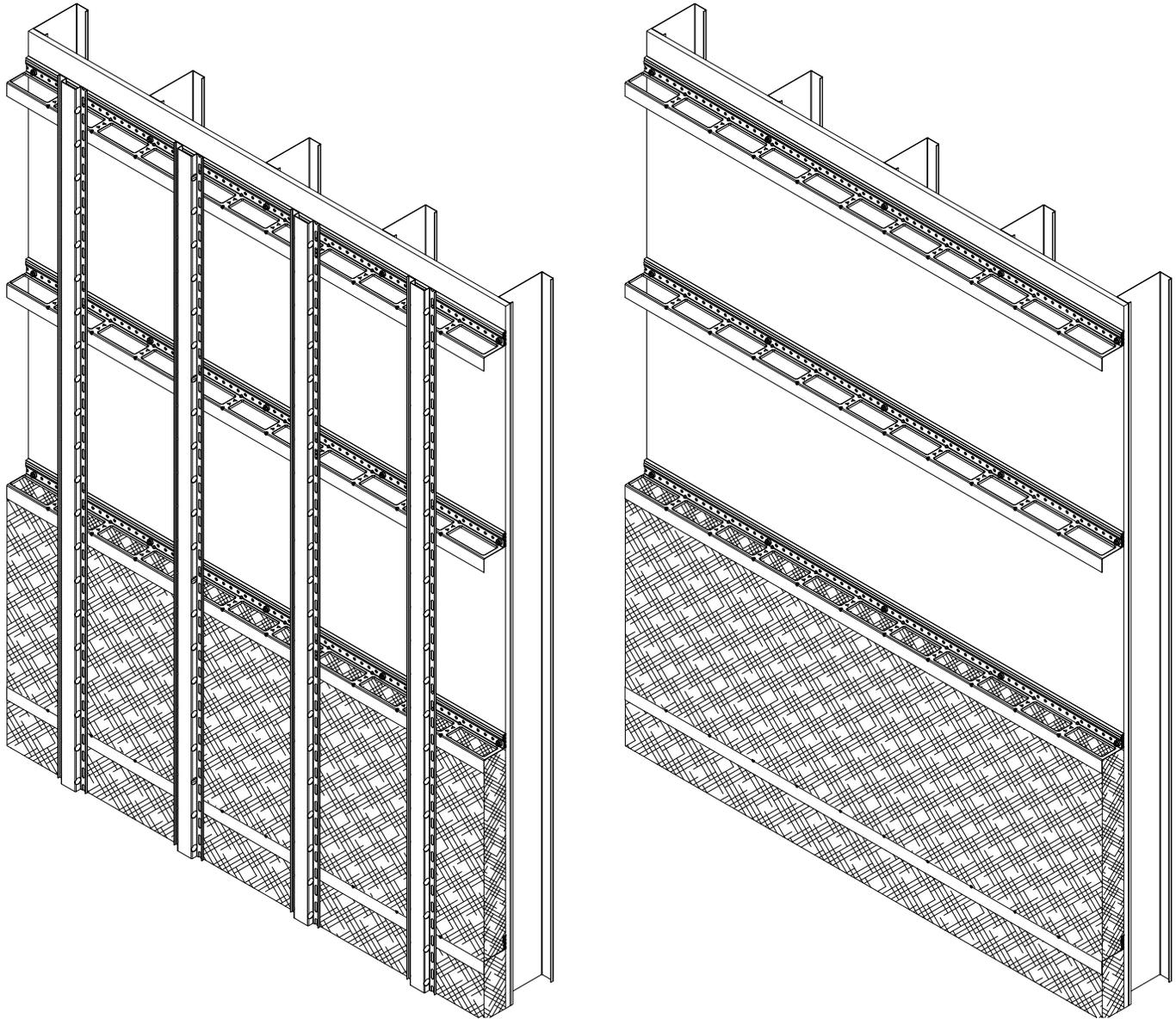


# KNIGHT WALL SYSTEMS GUIDE DETAILS: ThermaZee™ (HORIZONTAL) RAINSCREEN ATTACHMENT for CLADDING PANELS



## HORIZONTAL ORIENTED SYSTEM

ThermaZee MINIMUM DEPTH: 1.5 INCHES

ThermaZee MAXIMUM DEPTH: 4.5 INCHES

(FACE OF SHEATHING TO FACE OF ThermaZee)

QUICK LINK: [SECTION VIEW](#) [PLAN VIEW](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



KNIGHT ThermaZee™  
(HORIZONTAL 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, 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 IS RECOMMENDED TO BE MINERAL FIBER INSULATION (MFI) FOR USE WITH THE ThermaZee. RIGID FOAM INSULATION MAY BE USED, BUT IS NOT RECOMMENDED DUE TO THERMAL ISOLATION BASE DESIGN AND EXCESS LABOR FOR TRIMMING OR CUTTING OF RIGID FOAM. MINERAL FIBER INSULATION DOES NOT TYPICALLY REQUIRE ANY CUTTING AROUND THE BASE FOR PROPER INSTALLATION.
- ThermaZee, 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.

NOTICE: 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 and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Knight Wall Systems assumes no obligation or liability for the information in this document. **NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN LIMITED WARRANTIES SPECIFICALLY PROVIDED BY KNIGHT WALL SYSTEMS. 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 Knight Wall Systems can give assurance that mold will not develop in any specific system.

07/152020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT

# TABLE OF CONTENTS:

1. TITLE PAGE
2. GENERAL NOTES
3. TABLE OF CONTENTS
4. ISOMETRIC VIEW OF ThermaZee™ ASSEMBLY
5. 1.5"-2.5" ThermaZee OVERALL DIMENSIONS
6. 3"-4.5" ThermaZee OVERALL DIMENSIONS
7. TYPICAL SECTION VIEW - HORIZONTAL ThermaZee ONLY
8. TYPICAL PLAN VIEW - HORIZONTAL ThermaZee ONLY
9. TYPICAL OUTSIDE CORNER - HORIZONTAL ThermaZee ONLY
10. TYPICAL INSIDE CORNER - HORIZONTAL ThermaZee ONLY
11. TYPICAL JAMB CONDITION - HORIZONTAL ThermaZee ONLY
12. TYPICAL HEAD/SILL CONDITION - HORIZONTAL ThermaZee ONLY
13. TYPICAL BASE OF WALL - HORIZONTAL ThermaZee ONLY
14. TYPICAL DEFLECTION FLOOR JOINT - HORIZONTAL ThermaZee ONLY
15. TYPICAL SECTION VIEW - HORIZONTAL ThermaZee + VERTICAL PanelRail
16. TYPICAL PLAN VIEW - HORIZONTAL ThermaZee + VERTICAL PanelRail
17. TYPICAL OUTSIDE CORNER - HORIZONTAL ThermaZee + VERTICAL PanelRail
18. TYPICAL INSIDE CORNER - HORIZONTAL ThermaZee + VERTICAL PanelRail
19. TYPICAL JAMB CONDITION - HORIZONTAL ThermaZee + VERTICAL PanelRail
20. TYPICAL HEAD/SILL CONDITION - HORIZONTAL ThermaZee + VERTICAL PanelRail
21. TYPICAL BASE OF WALL - HORIZONTAL ThermaZee + VERTICAL PanelRail
22. TYPICAL DEFLECTION FLOOR JOINT - HORIZONTAL ThermaZee + VERTICAL 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](mailto:info@knightwallsystems.com)

[www.knightwallsystems.com](http://www.knightwallsystems.com)

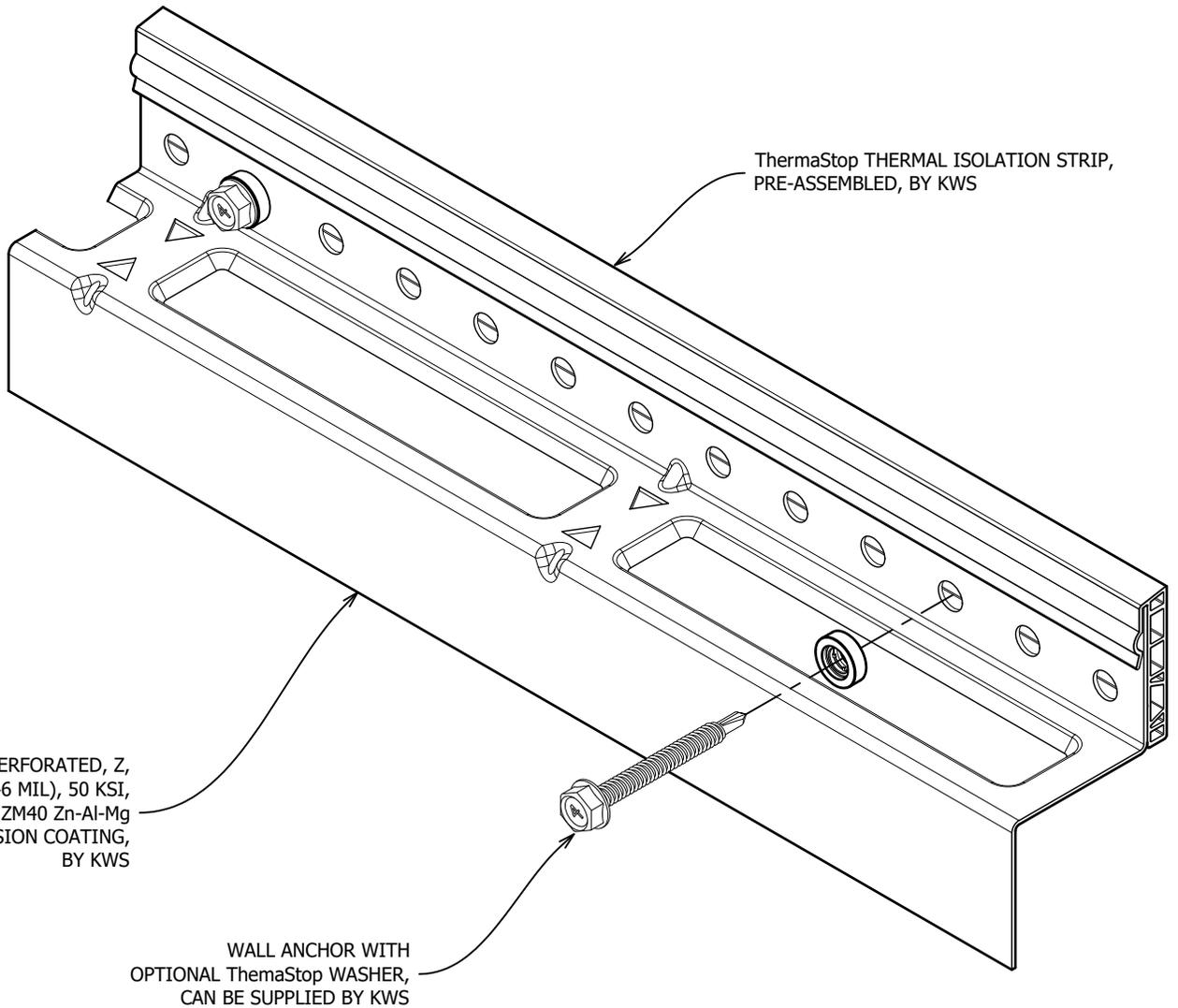
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**

[www.knightwallsystems.com](http://www.knightwallsystems.com)  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT



ThermaStop THERMAL ISOLATION STRIP,  
PRE-ASSEMBLED, BY KWS

STEEL, REINFORCED, PERFORATED, Z,  
18 GAUGE (46 MIL), 50 KSI,  
ASTM A1046 ZM40 Zn-Al-Mg  
ULTRA ANTI-CORROSION COATING,  
BY KWS

WALL ANCHOR WITH  
OPTIONAL ThemaStop WASHER,  
CAN BE SUPPLIED 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.

4

## ThermaZee ASSEMBLY - ISO VIEW

SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO 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.**

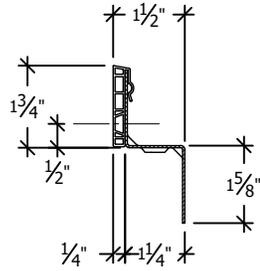
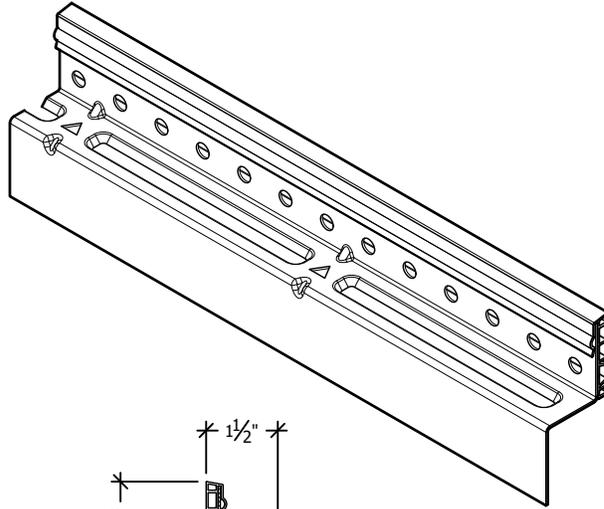
www.knightwallsystems.com

© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL

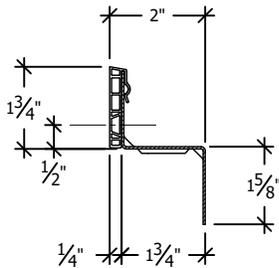
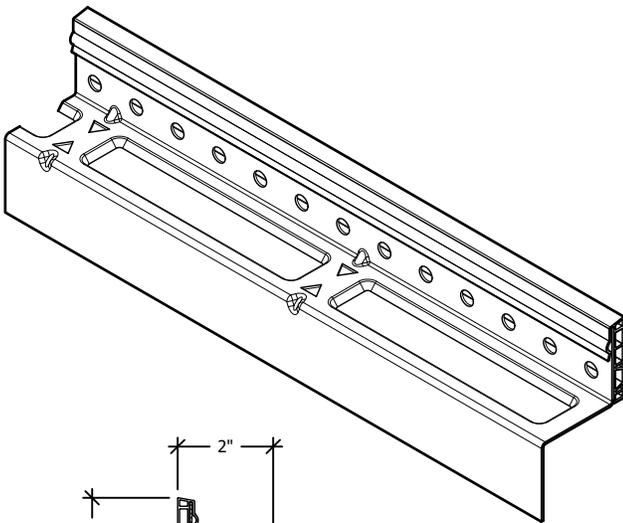
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN & MW



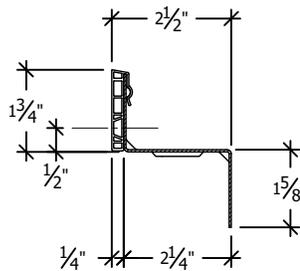
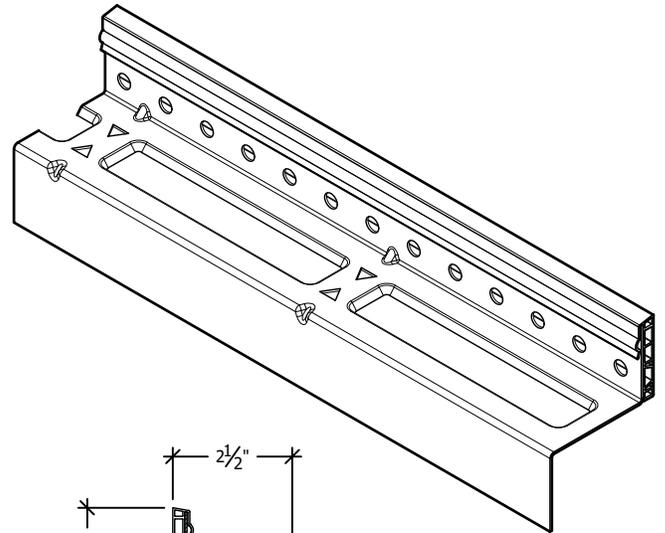
KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT



**1.5" ThermaZee**



**2.0" ThermaZee**



**2.5" ThermaZee**

\*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.

**5** ThermaZee SIZES - 1.5"-2.5"  
SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

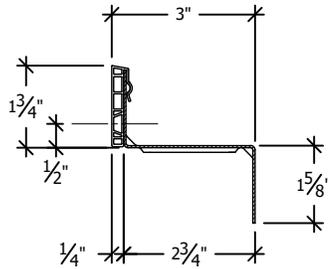
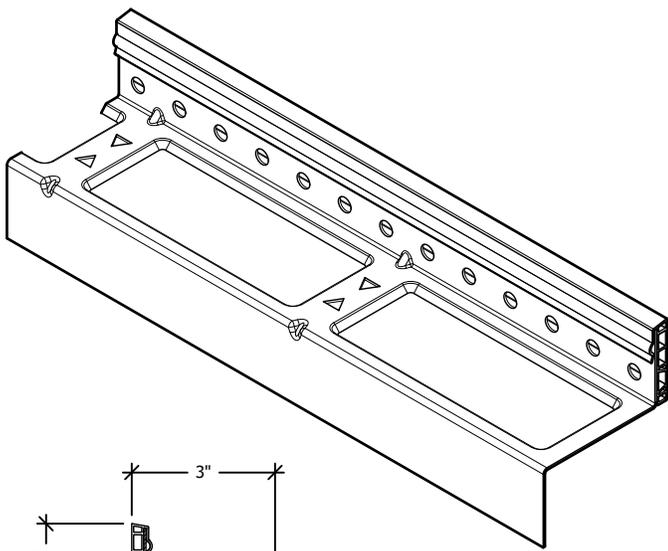
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**

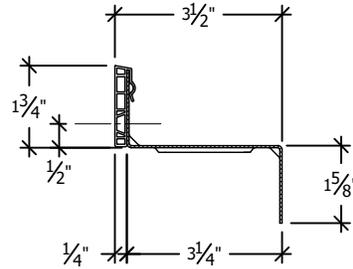
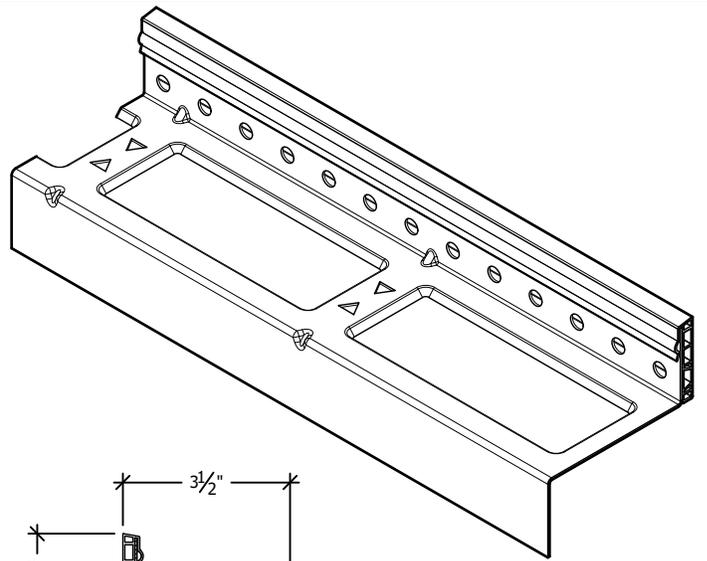


**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**

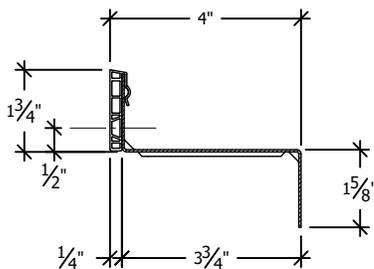
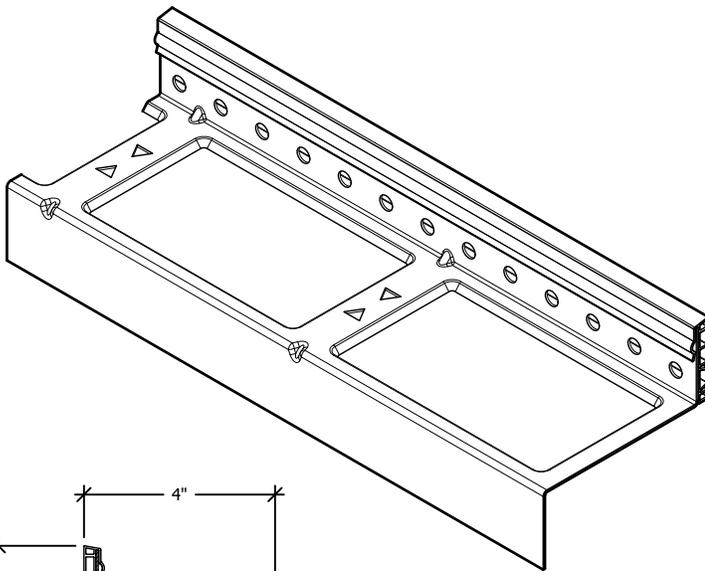
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN & MW



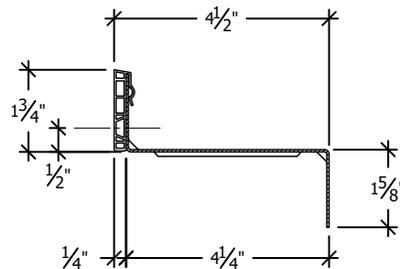
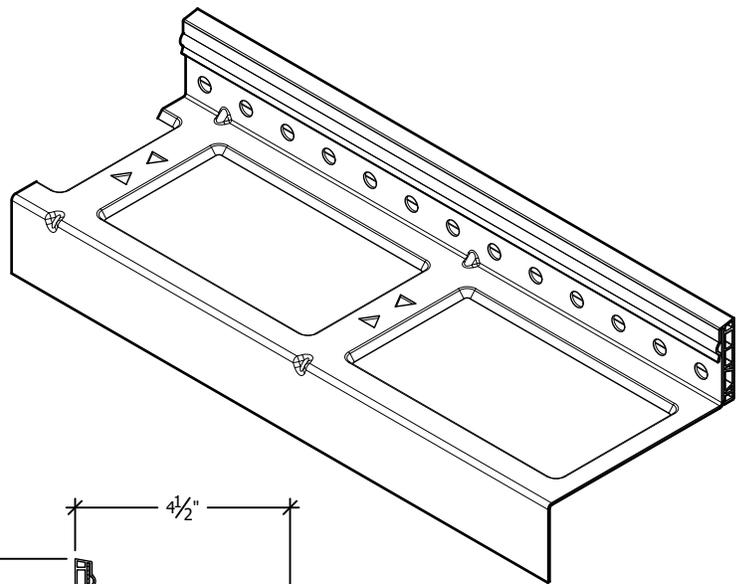
**3.0" ThermaZee**



**3.5" ThermaZee**



**4.0" ThermaZee**



**4.5" ThermaZee**

\*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.

**6** ThermaZee SIZES - 3"-4.5"  
SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

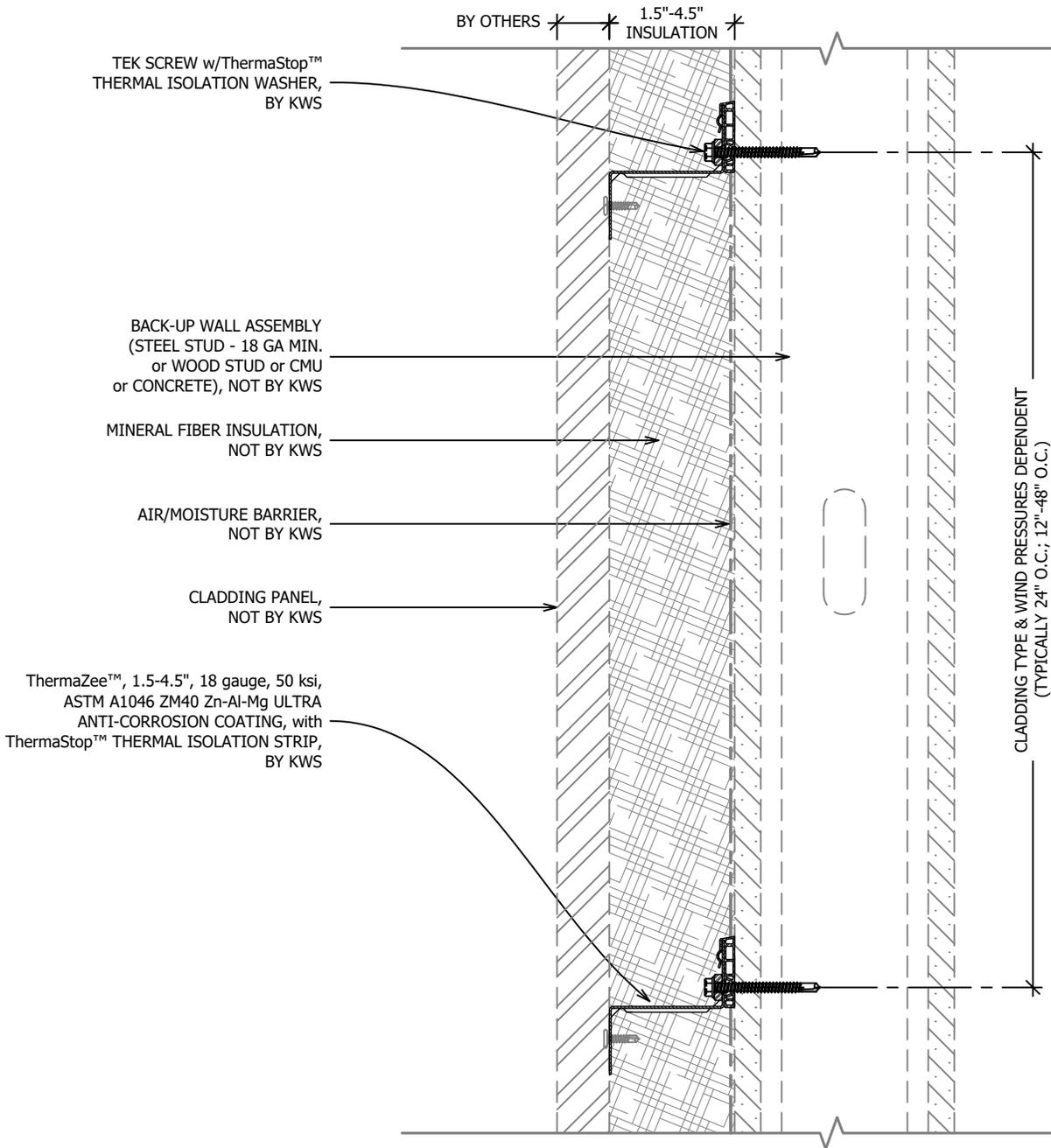
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**



www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN & MW

**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**



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

7

TYPICAL SECTION VIEW - ThermaZee ONLY

SCALE: 3" = 1'-0"

BACK TO TABLE OF CONTENTS

07/15/2020

\*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.

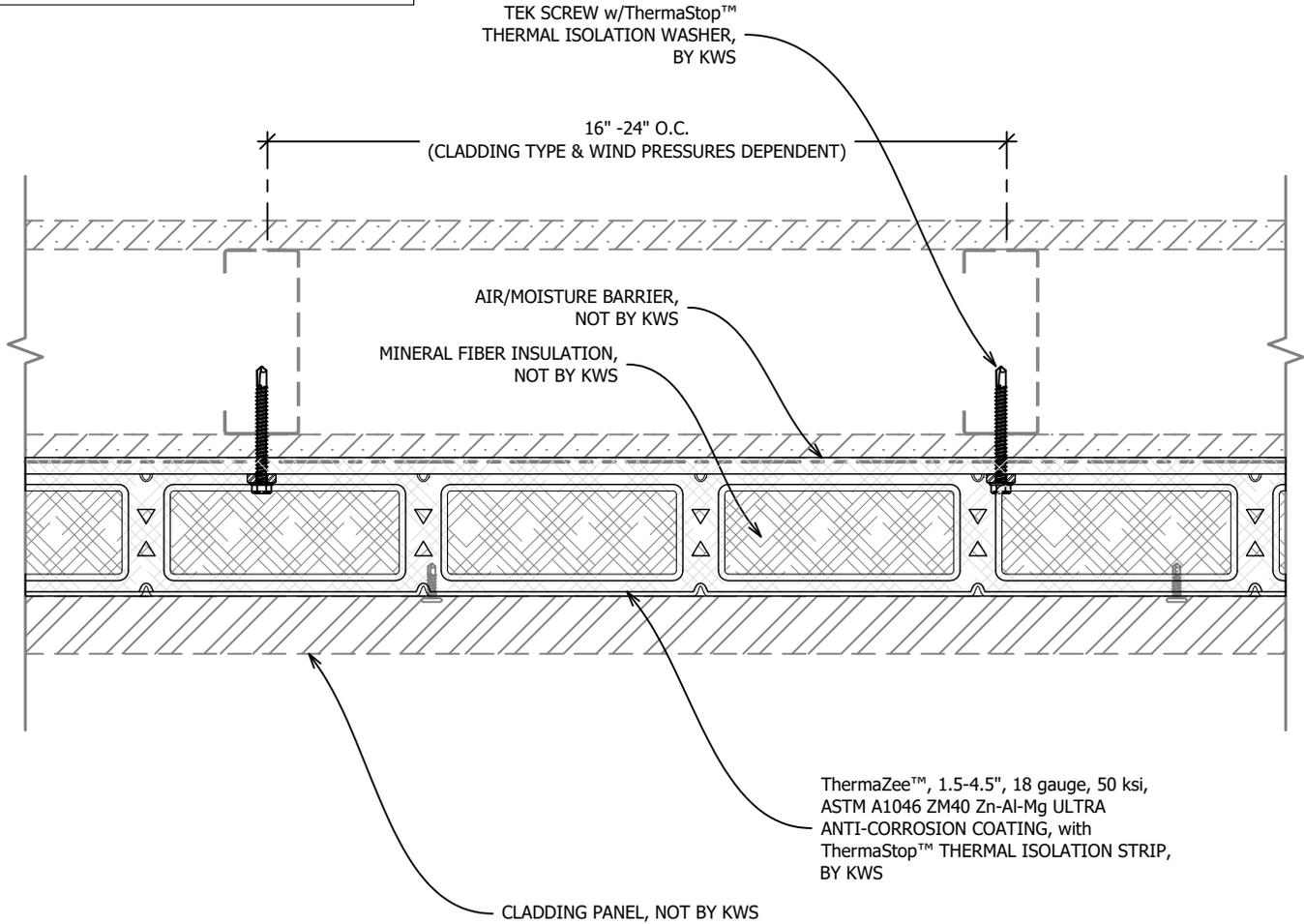
THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO ADDRESS STRUCTURAL ATTACHMENT (i.e.  
FASTENING PATTERN, ETC.). CONTACT KWS FOR FURTHER  
DETAILS. **ALL IMPLIED WARRANTIES INCLUDING  
MERCHANTABILITY & FITNESS FOR A PARTICULAR  
PURPOSE ARE EXPRESSLY EXCLUDED.**



**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN

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.

**8** TYPICAL PLAN VIEW - ThermaZee ONLY  
SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

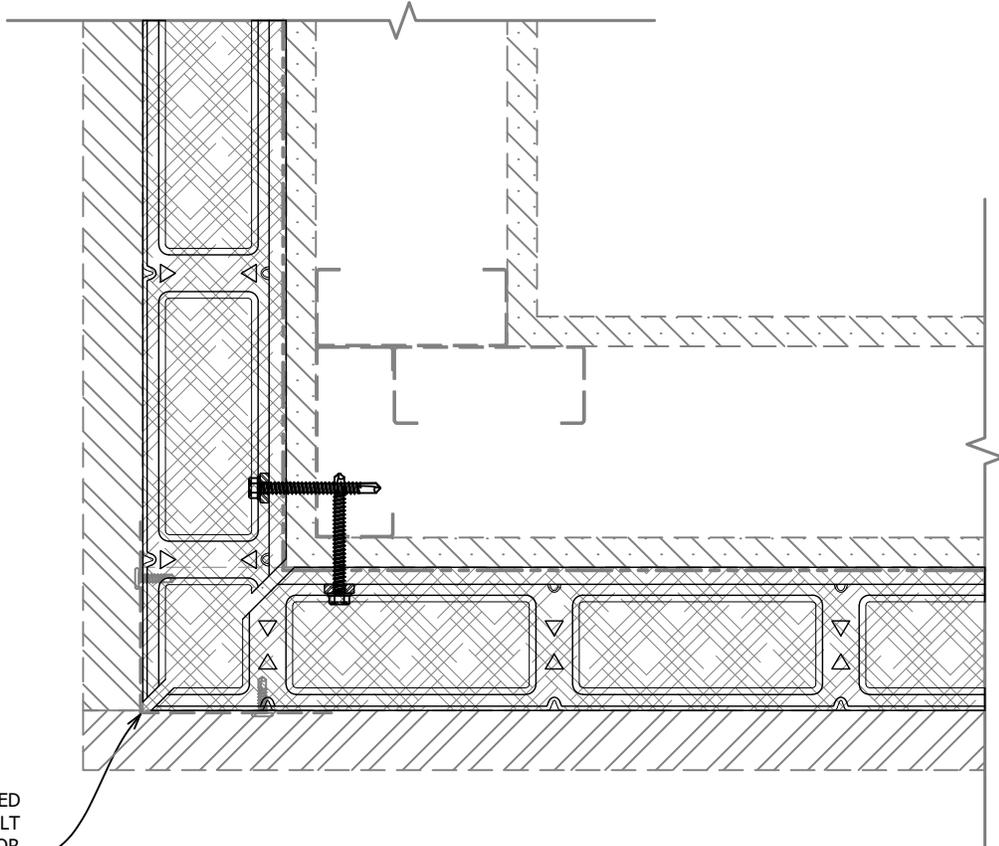
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**



**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



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

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

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

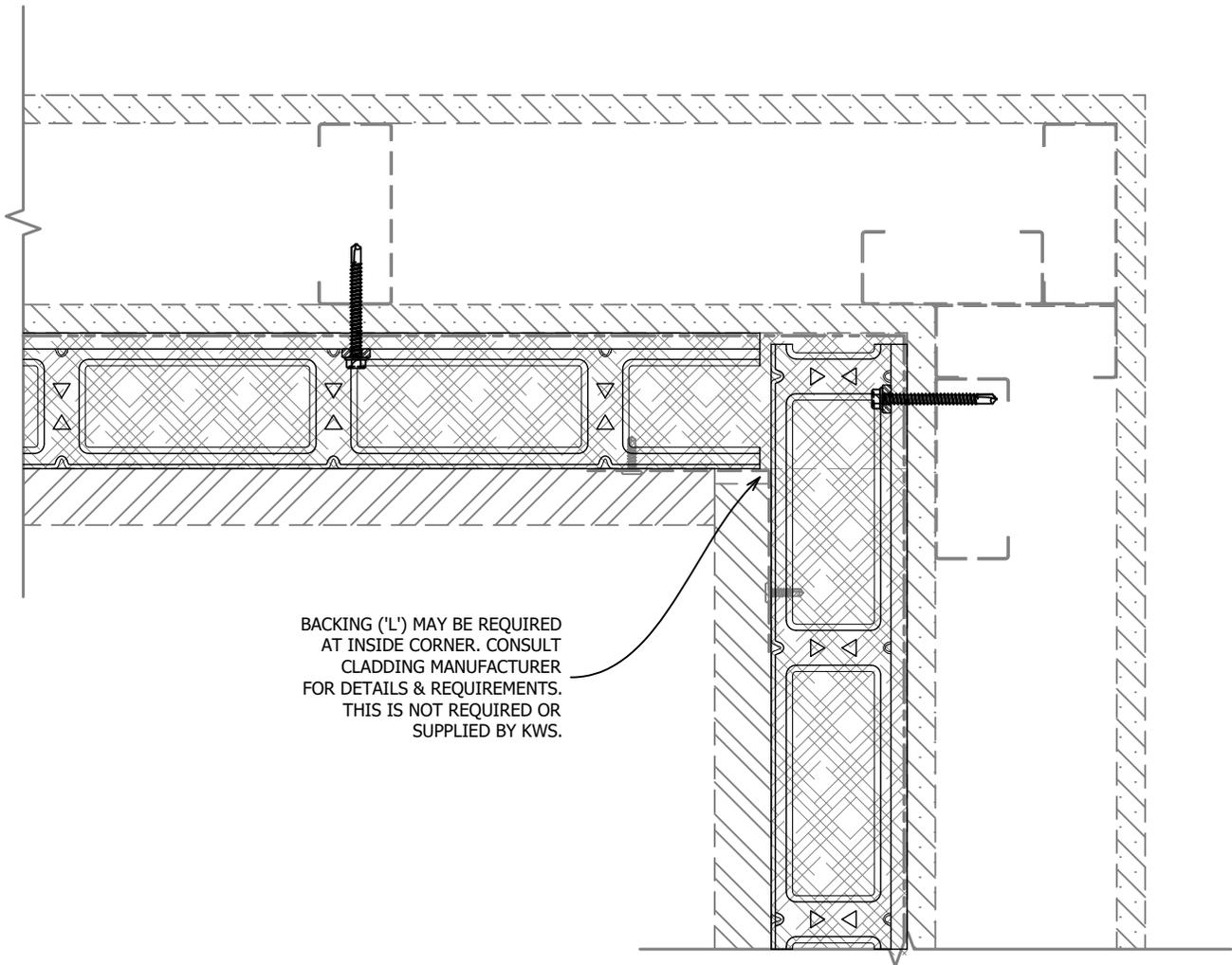
[BACK TO TABLE OF CONTENTS](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**



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

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

[BACK TO TABLE OF CONTENTS](#)

07/15/2020

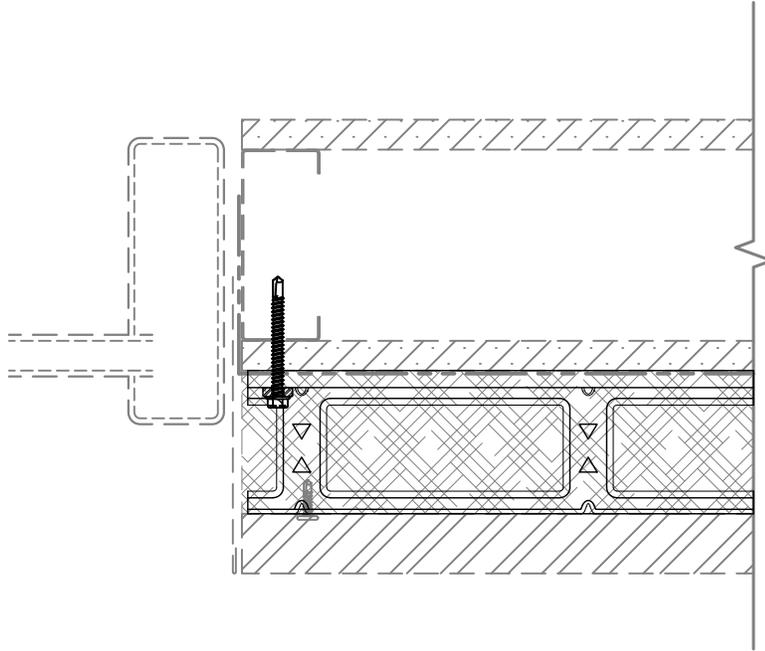
\*16 GAUGE RAILS, FACTORY BLACK COATED RAILS & STAINLESS STEEL (304) AVAILABLE

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

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**



\* 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.

## 11 TYPICAL JAMB CONDITION

SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

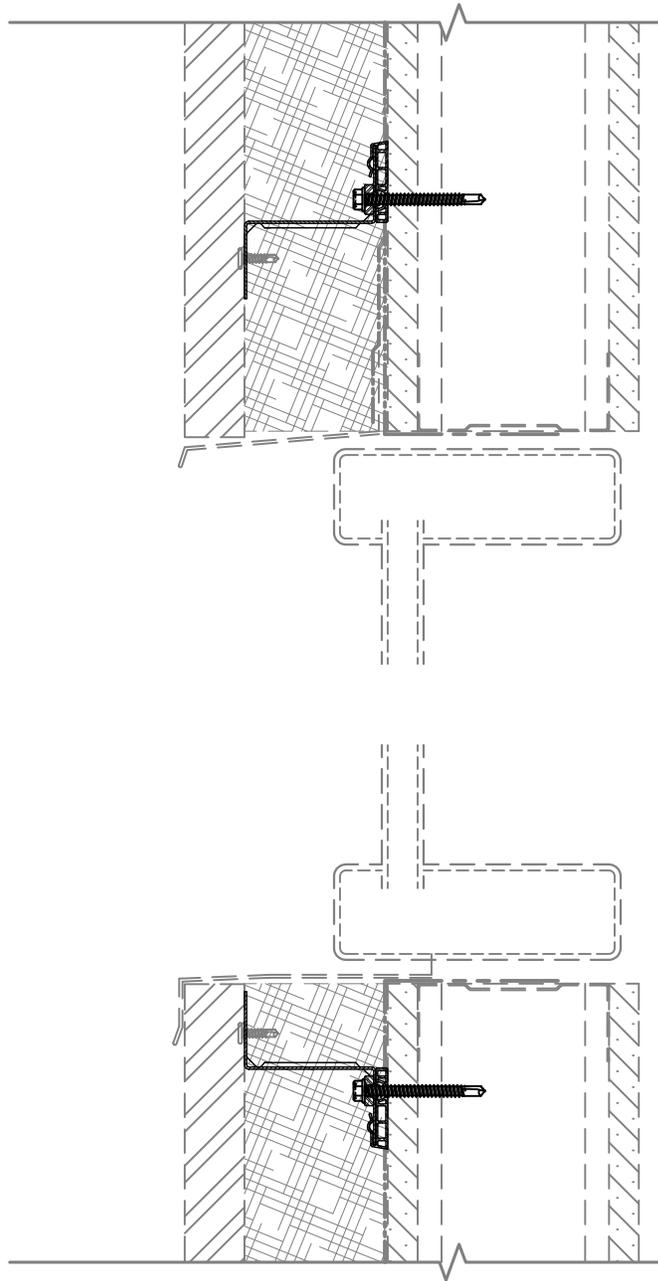
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO 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.**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT



\* 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.

**12** TYPICAL HEAD & SILL CONDITION  
SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

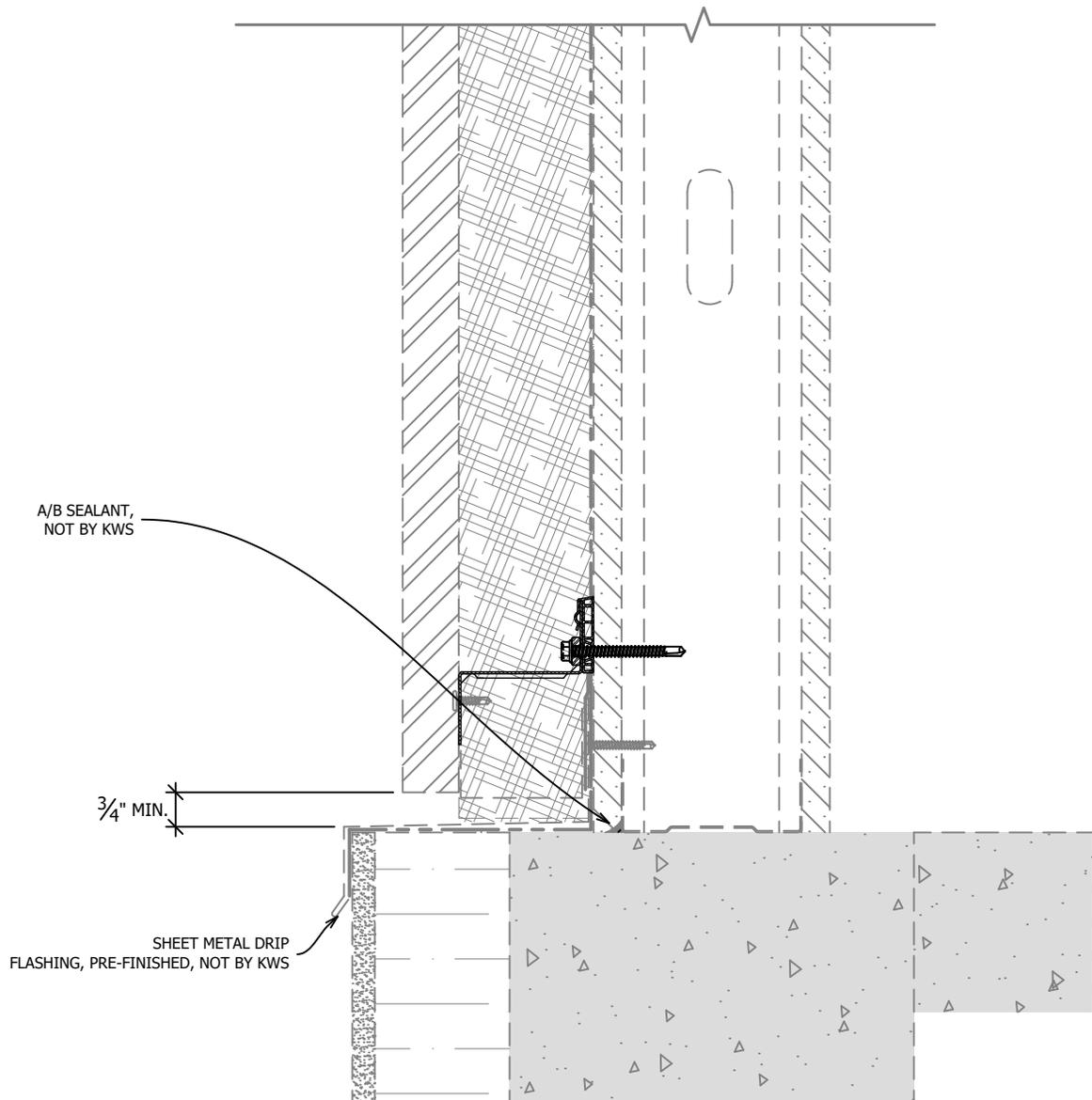
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**



**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



\* 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.

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

[BACK TO TABLE OF CONTENTS](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO 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.**



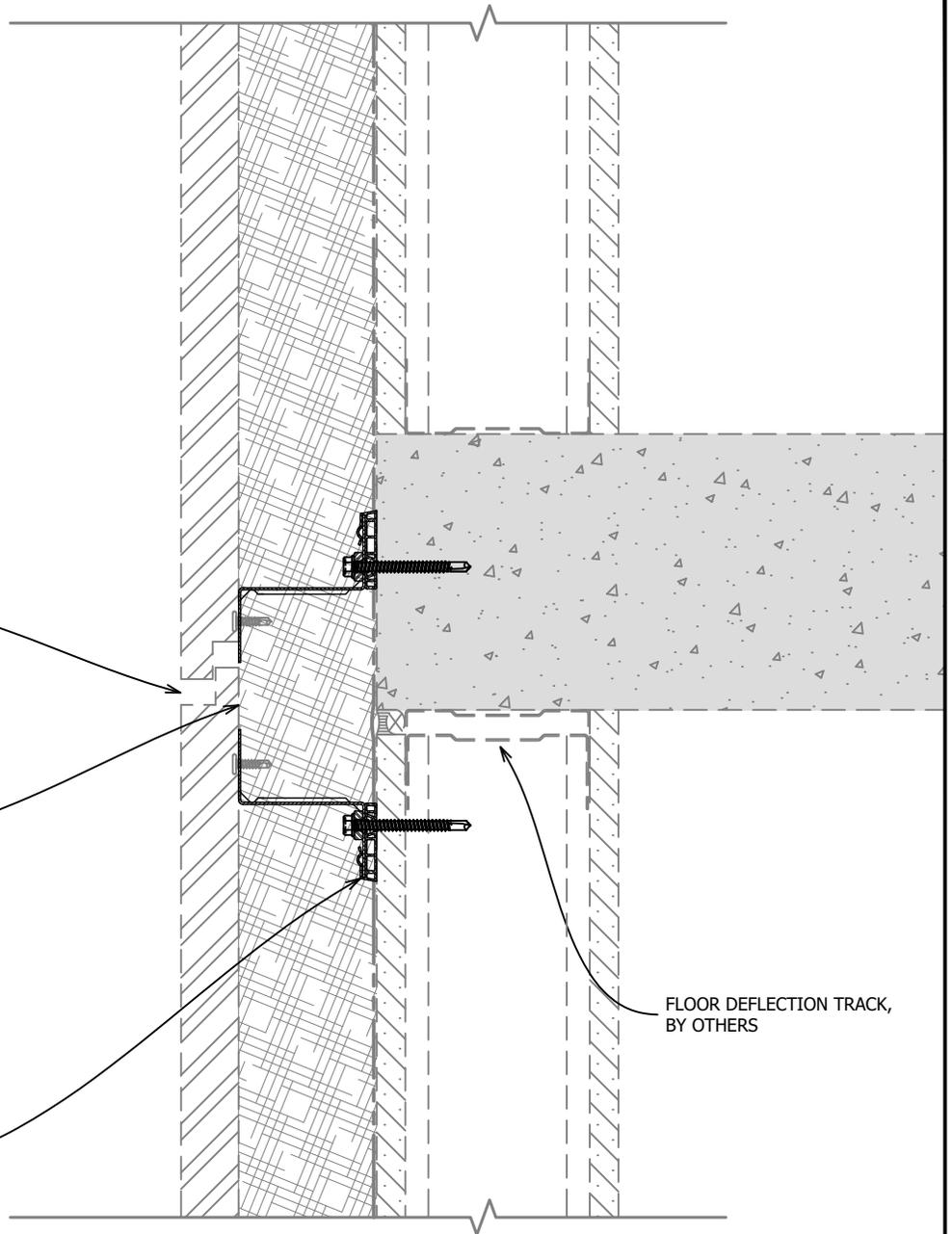
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN

**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**

A BREAK/MOVEMENT JOINT IN CLADDING MUST COINCIDE WITH BREAK IN ATTACHMENT SYSTEM AND FLOOR DEFLECTION JOINTS TO PREVENT DAMAGE AND STRESS ON WALL SYSTEM, CONSULT CLADDING MANUFACTURER FOR DETAILS, NOT BY KWS

GAP BETWEEN RAILS TYPICALLY EQUALS 1.5x THE EXPECTED FLOOR MOVEMENT, MINIMUM OF  $\frac{3}{8}$ " AND MAXIMUM OF 1"

ThermaZee MUST NOT INFRINGE ON STEEL STUD FLOOR DEFLECTION TRACK MOVEMENT



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

\*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](#)

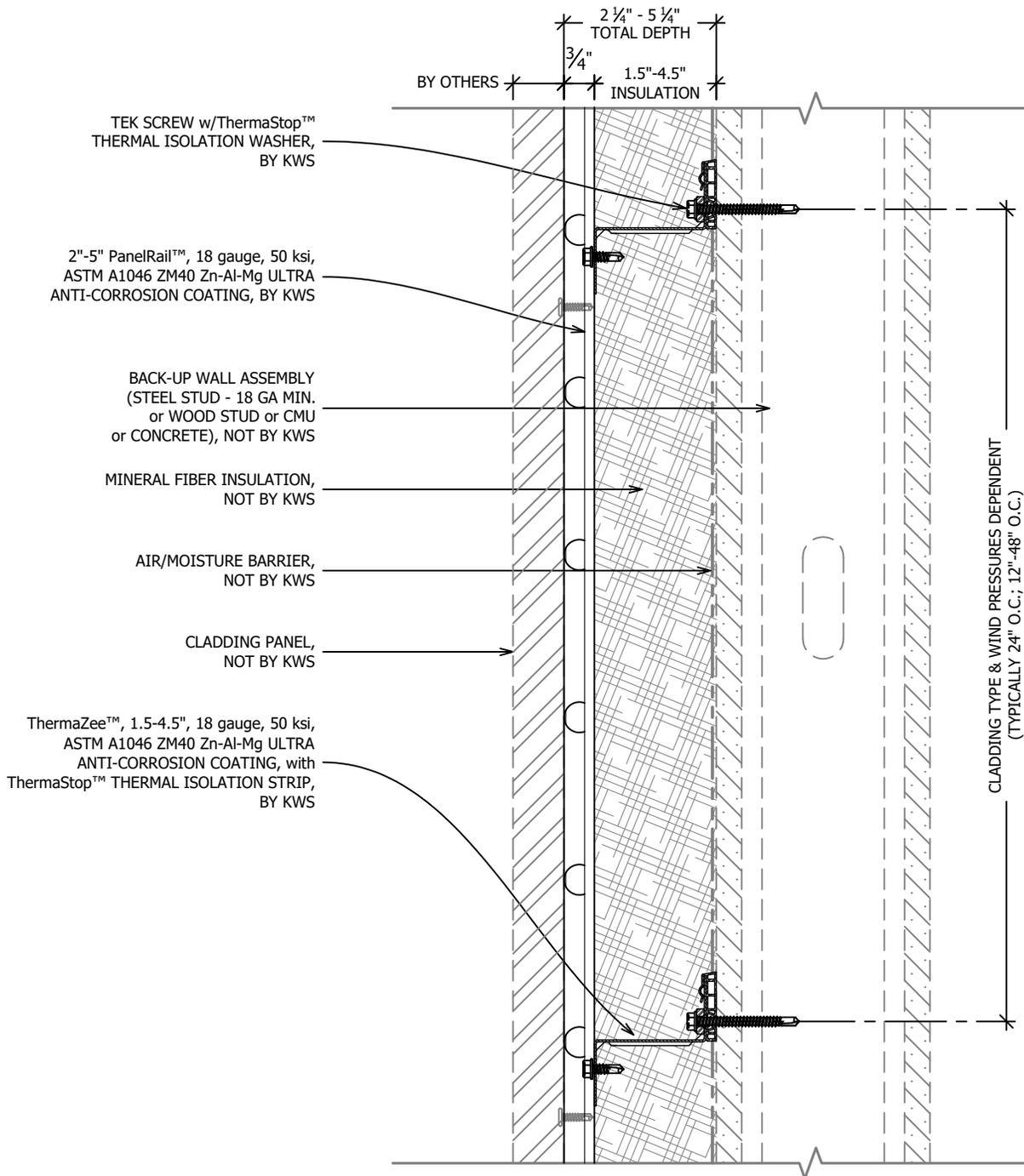
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**



**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



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

**15** TYP SECTION VIEW - ThermaZee + PanelRail  
SCALE: 3" = 1'-0"

\*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

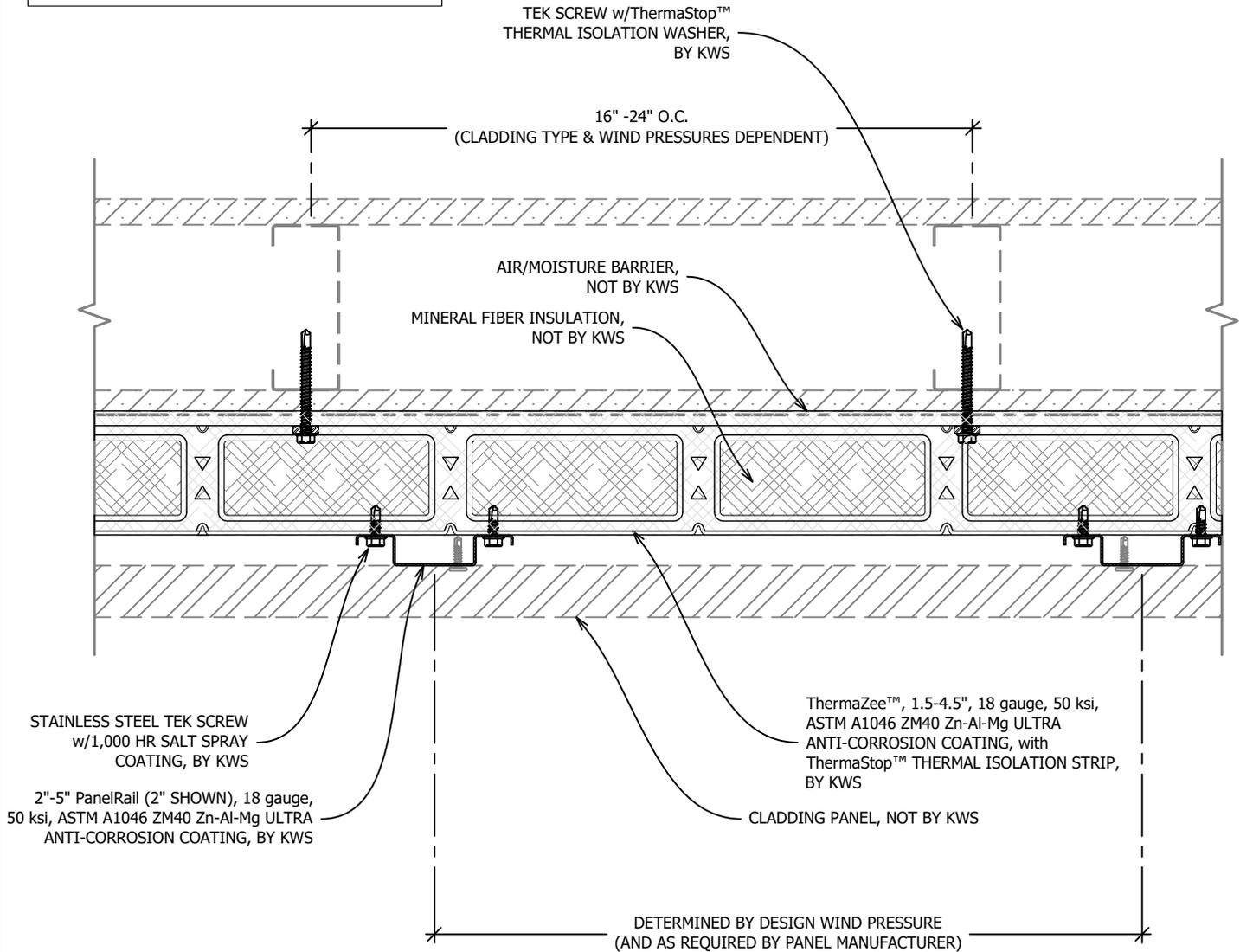
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermoZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**

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.

**16** TYP PLAN VIEW - ThermaZee + PanelRail  
SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

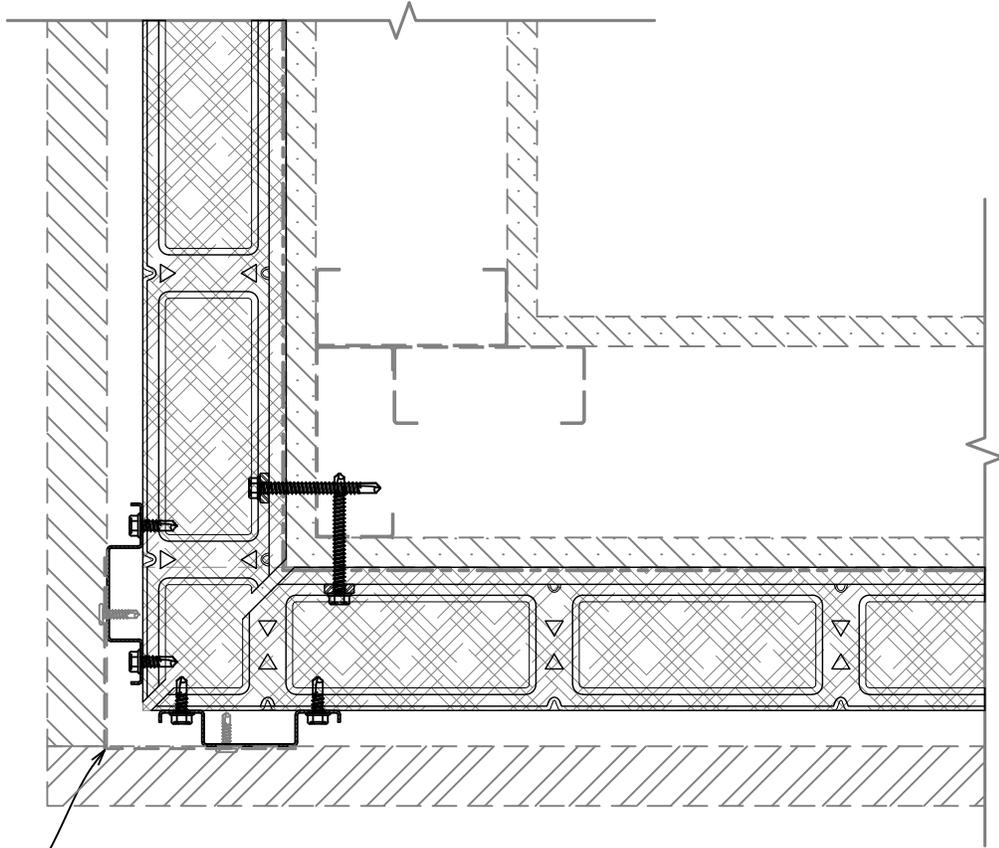
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**



www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN

**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**



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

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

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

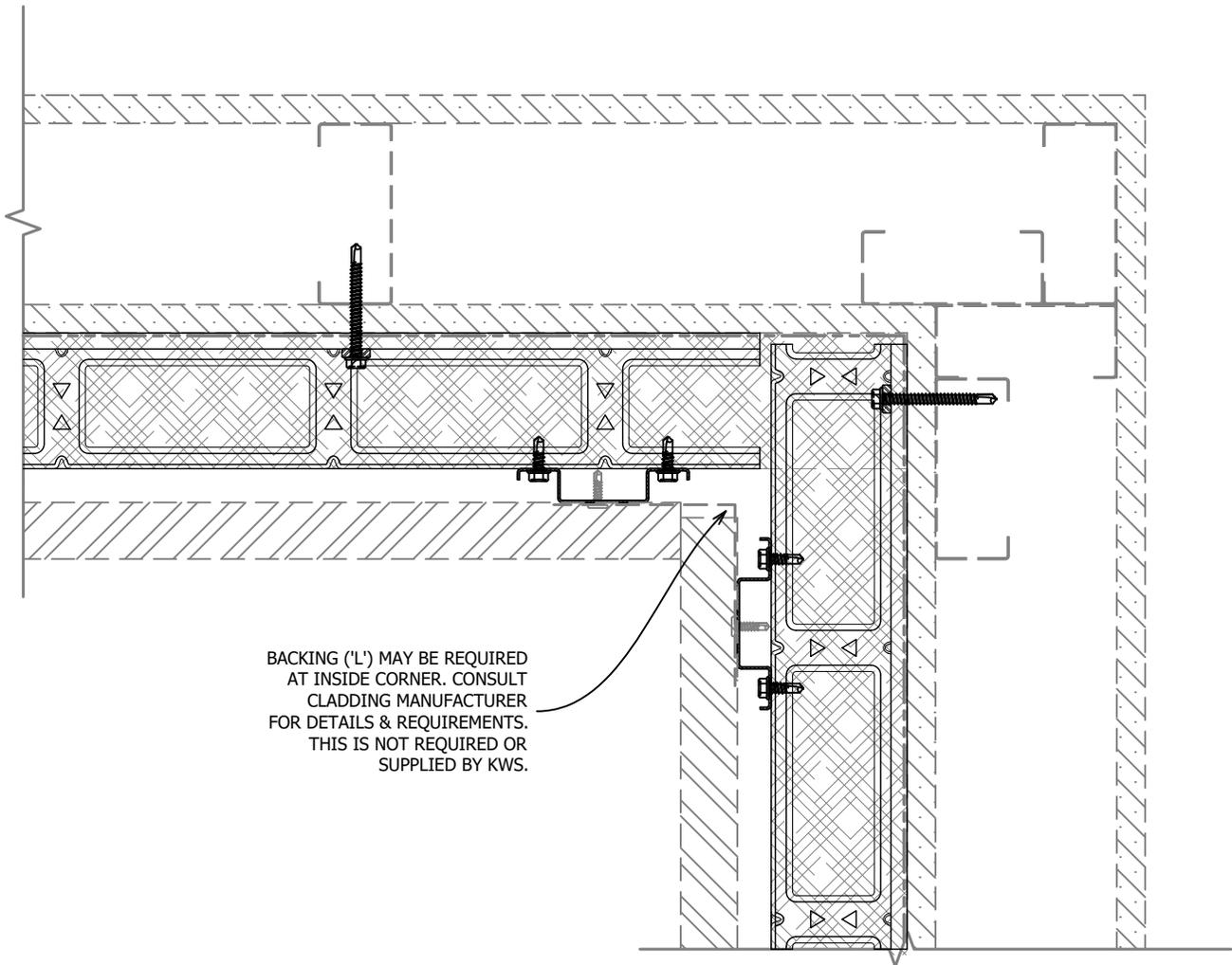
BACK TO TABLE OF CONTENTS

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**



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

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

\*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.

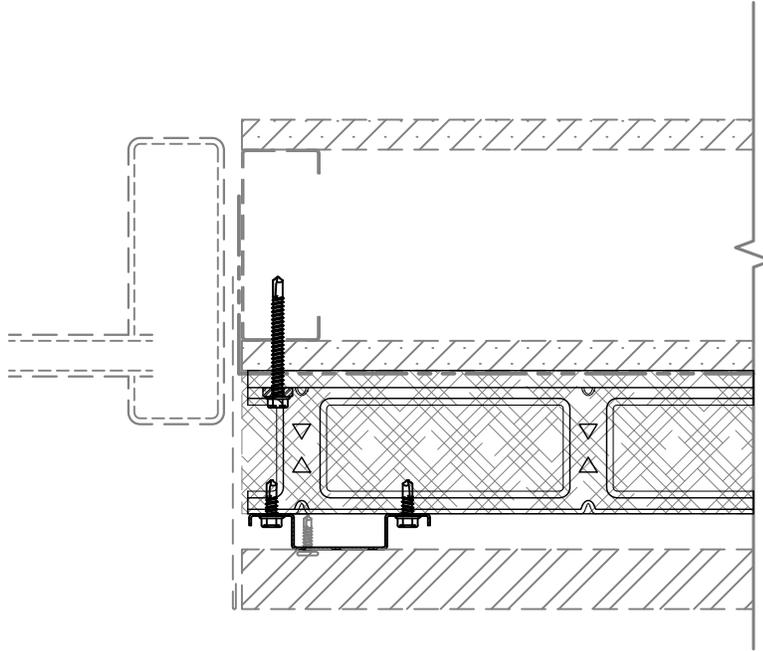
[BACK TO TABLE OF CONTENTS](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™**  
**(HORIZONTAL ORIENTATION)**  
**RAINSCREEN ATTACHMENT**



\* 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.

## 19 TYPICAL JAMB CONDITION

SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

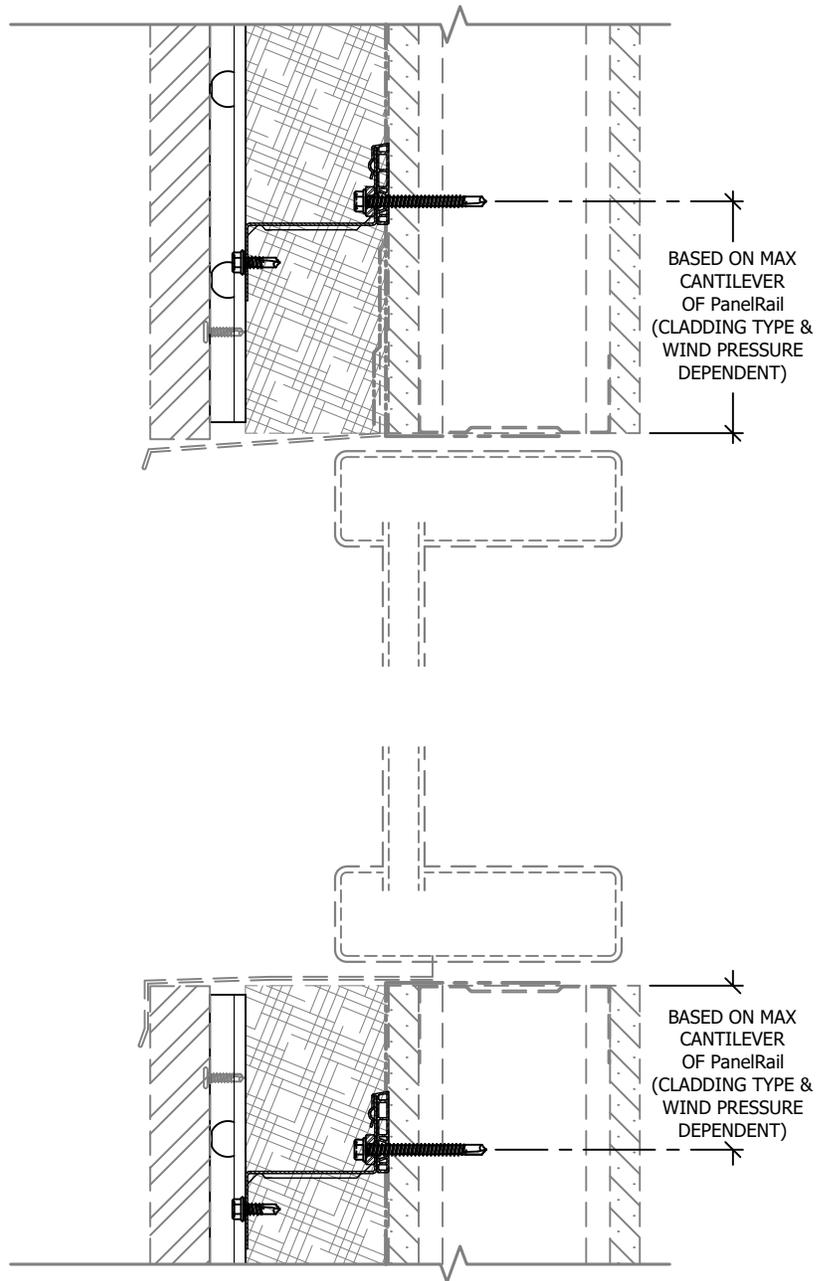
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
AVAILABLE TO 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.**

www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**



\* 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.

## 20 TYPICAL HEAD & SILL CONDITION

SCALE: 3" = 1'-0"

[BACK TO TABLE OF CONTENTS](#)

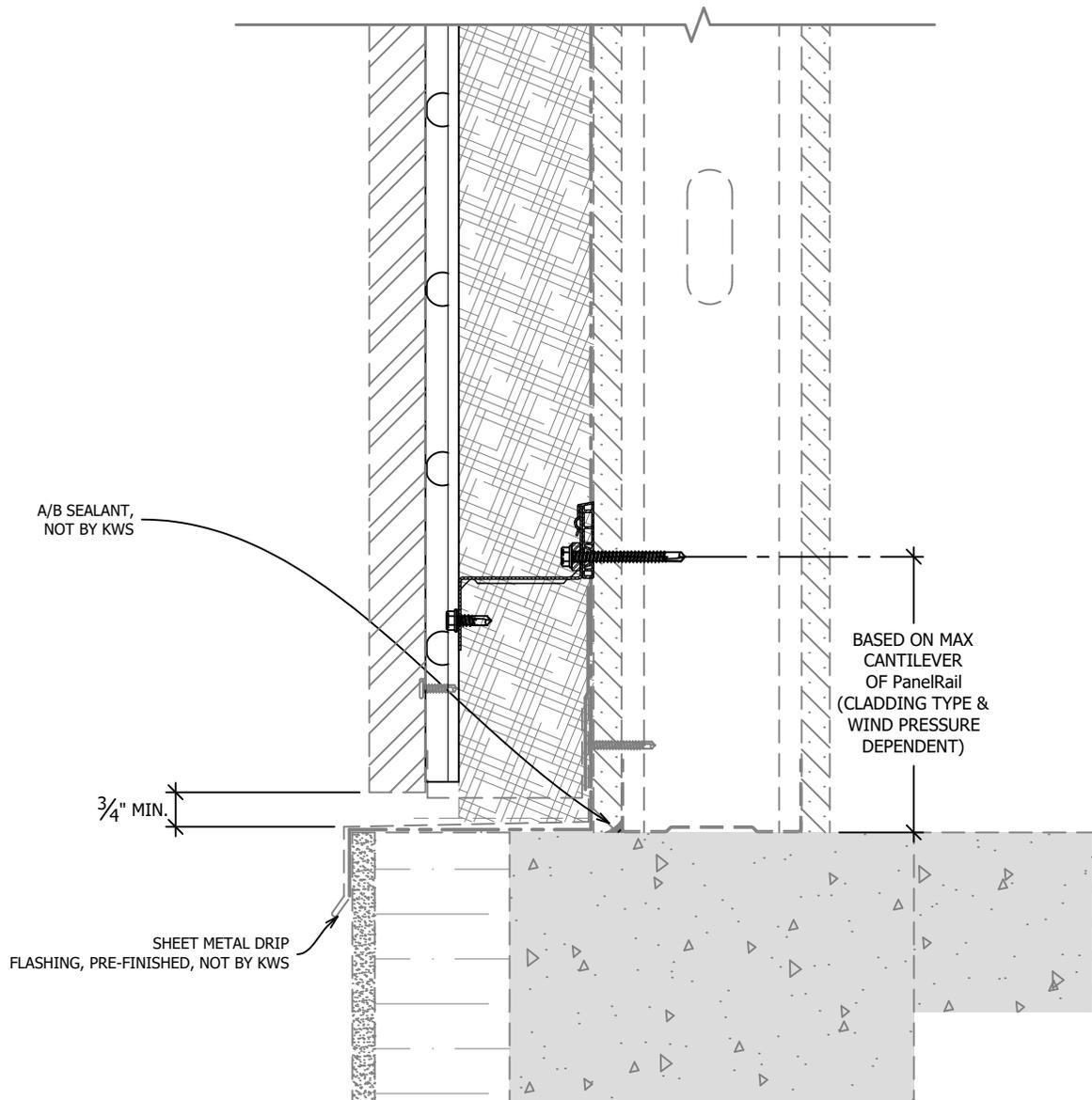
07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**

www.knightwallsystems.com  
 © Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
 PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



KNIGHT ThermaZee™  
 (HORIZONTAL ORIENTATION)  
 RAINSCREEN ATTACHMENT



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

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

[BACK TO TABLE OF CONTENTS](#)

07/15/2020

\*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.

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS AVAILABLE TO 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.**  
www.knightwallsystems.com  
© Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



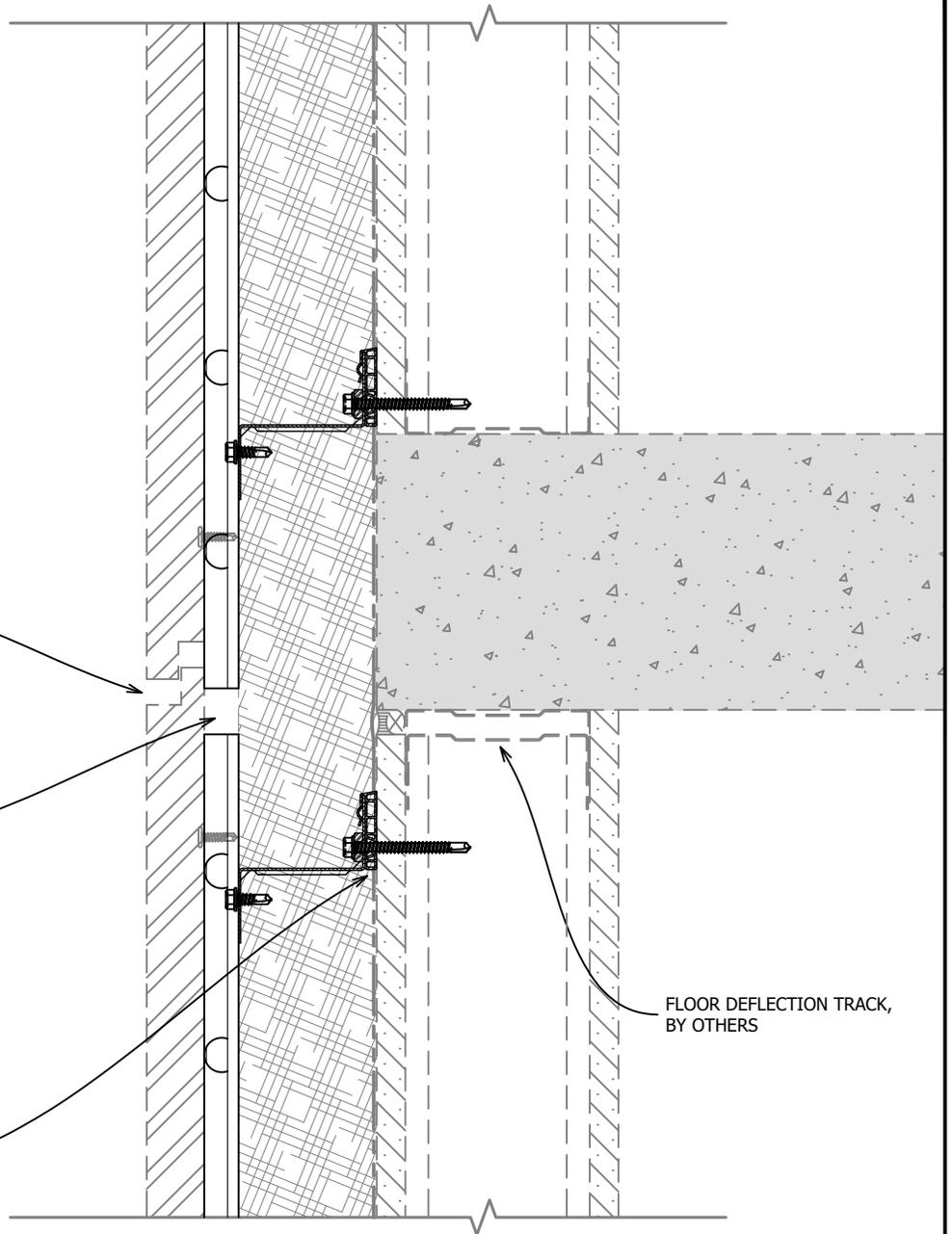
**KNIGHT ThermaZee™  
(HORIZONTAL ORIENTATION)  
RAINSCREEN ATTACHMENT**

NOTE:  
 MAXIMUM PanelRail CANTILEVER  
 BEYOND A ThermaZee VARIES  
 PER PROJECT. TYPICALLY IT  
 WILL RANGE FROM 6"-14".

A BREAK/MOVEMENT JOINT IN  
 CLADDING MUST COINCIDE WITH  
 BREAK IN ATTACHMENT SYSTEM  
 AND FLOOR DEFLECTION JOINTS  
 TO PREVENT DAMAGE AND STRESS  
 ON WALL SYSTEM, CONSULT CLADDING  
 MANUFACTURER FOR DETAILS,  
 NOT BY KWS

GAP BETWEEN RAILS TYPICALLY  
 EQUALS 1.5x THE EXPECTED  
 FLOOR MOVEMENT, MINIMUM  
 OF  $\frac{3}{8}$ " AND MAXIMUM OF 1"

ThermaZee MUST NOT INFRINGE ON  
 STEEL STUD FLOOR DEFLECTION  
 TRACK MOVEMENT



\*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.

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

[BACK TO TABLE OF CONTENTS](#)

07/15/2020

THESE GUIDE DETAILS ARE PROVIDED FOR INFORMATION ONLY  
 AND OUTLINE GENERAL/TYPICAL REQUIREMENTS FOR THE  
 ATTACHMENT SYSTEM. PROJECT SPECIFIC ENGINEERING IS  
 AVAILABLE TO 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.**

www.knightwallsystems.com  
 © Knight Wall Systems Deer Park, WA - 1.855.KWS.WALL  
 PATENT US 8,429,866 B2, OTHERS PENDING - Drawn by: BN



**KNIGHT ThermaZee™  
 (HORIZONTAL ORIENTATION)  
 RAINSCREEN ATTACHMENT**