

CLADDING: LT WEIGHT NON-COMBUSTIBLE CLADDING PER NFPA 285 ASSEMBLY. FASTEN TO VERT TRACK. FASTEN TRACK TO BACK-FURRING. OPTIONAL BEDDING SEALANT AT TRACK & FASTENERS @ AWB. NOTE THAT BACK-LATTICE DOES NOT SPECIFY THE WALL CLADDING & TRACK, BUT REQUIRES THE WALL CLADDING FOR NFPA 285 ASSEMBLY COMPLIANCE. (BY OTHERS)

CLADDING TRACK: FASTEN VERT CLADDING TRACKS W/ STSTL FASTENERS TO EACH HOR FURRING. OPTIONAL BEDDING SEALANT AT TRACK & FASTENERS @ AWB. (BY OTHERS)

SPACING OF HOR FURRING.

LQ FLASH PANEL JOINT & FASTENER SEAL

AWB/VP: VAPOR PERMEABLE (VP), SELF-ADHERED (SA), FLUID APPLIED (FA) OR PRE-APPLIED TO BOARD (BD), UV STABLE IF OPEN JOINTED CLADDING OR EXTENDED CONSTRUCTION EXPOSURE.

STUDS: 6" (3 5/8"MIN) x 2" (1 5/8"MIN), CFMF, STUD, 18GA, GAL, (20GA MIN), 16"OC (24"OC MAX), 16"OC IF FIRE-RATED. THRU-STUD LATERAL BRACING AND STIFFENING SPACED @ 48" VERTICALLY. REFER STRUC.

T-PAD™ THERMAL BREAK: HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.

Z-BACK™ HORIZONTAL BACK FURRING: 1 3/4" x (1" MIN TO 2 1/2" MAX) x 1 3/4" CFMF, 18GA (20GA MIN), GAL, 16"OC TYP (24"OC MAX), (1) 1 1/4" #12 HEX/WASHER GALV OR STSTL FASTENERS PER STUD.

INTERIOR GWB: 5/8" GWB-MR-X, TYPE X, MOLD-RESISTANT. NOTE (2) VERTICAL LAYERS IF FIRE RATED W/ JOINTS STAGGERED. #6 TYPE-S BUGLE HEAD FASTENERS 8" ON EDGES & 12" IN FIELD. (BY OTHERS)

MINERAL WOOL BACK-INSULATION: FOR 2 HOUR FIRE RATING OR OPTIONAL FOR ADDITIONAL THERMAL INSULATION IN ADDITION TO ccSPF & LOCATED INWARD: MINERAL WOOL BATT, 2#, 3 1/2", (3" MIN), UNFACED. R15. HOLD TIGHT TO ccSPF TO ASSURE 3/8" GAP TO INTERIOR DRYWALL. FRICTION-FIT BEHIND STUD FLANGE, FIT TO LATERAL BRACING/STIFFENERS.

ccSPF BACKSPRAY: SPRAY URETHANE FOAM (ccSPF), CLOSED-CELL, 2# DENSITY, FS25, SD450; <1GWP; BACK-SPRAY INSULATION, 3 5/8" AVERAGE MAX THICKNESS, R24, 2" ENCAPSULATE OUTER FLANGE, 2" ENCAPSULATE HOR HAT CHANNEL, 2" WEB FILL AT PERIMETER & OPENINGS (UNLESS BATT BACK INSULATION).

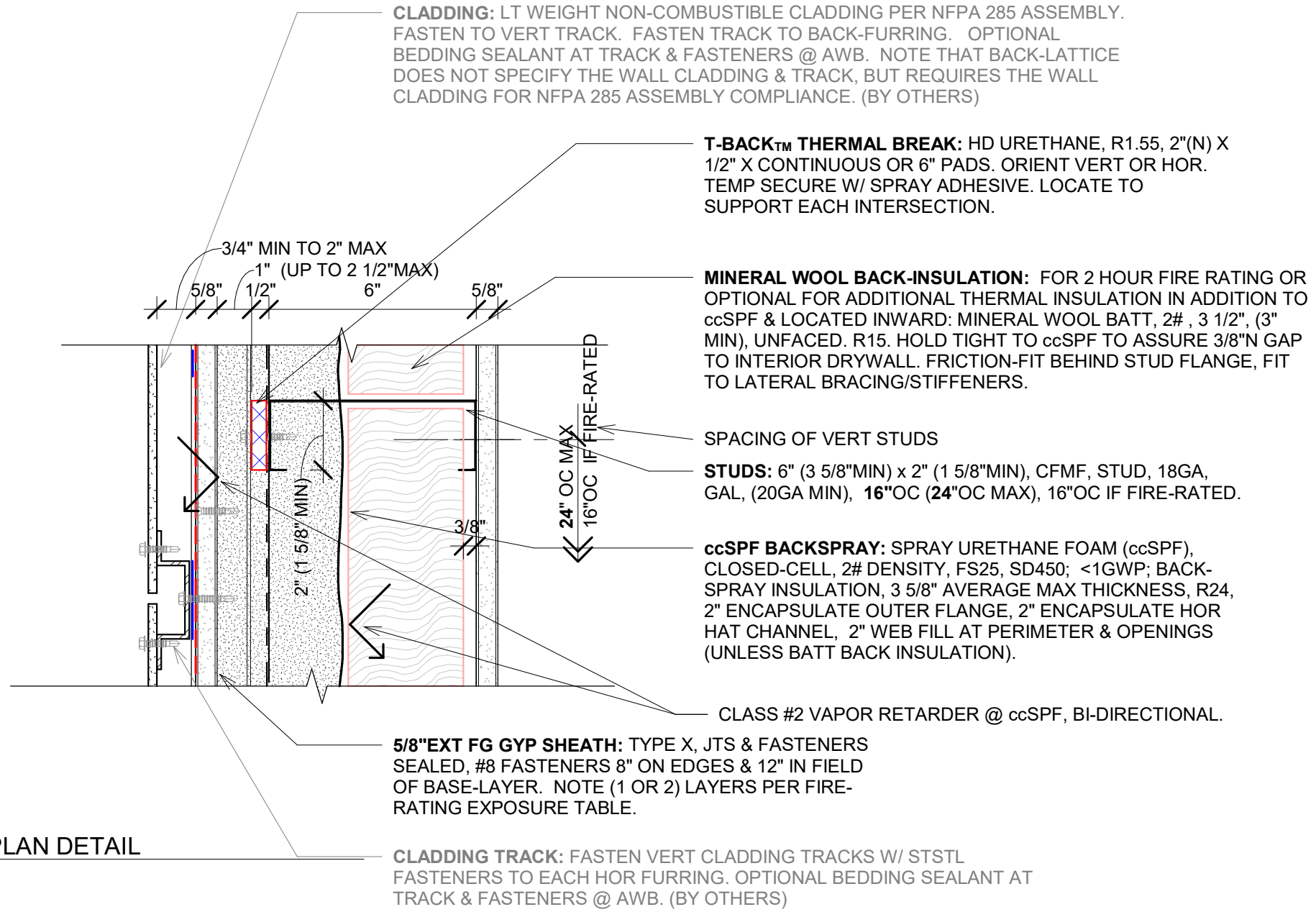
CLASS #2 VAPOR RETARDER @ ccSPF, BI-DIRECTIONAL.

5/8"EXT FG GYP SHEATH: TYPE X, JTS & FASTENERS SEALED, #8 FASTENERS 8" ON EDGES & 12" IN FIELD OF BASE-LAYER. NOTE (1 OR 2) LAYERS PER FIRE-RATING EXPOSURE TABLE.

2 BKL, 285 COMPLIANT, TYP SECTION DETAIL
3" = 1'-0"



1 BKL, 285 COMPLIANT, TYP PLAN DETAIL
3" = 1'-0"



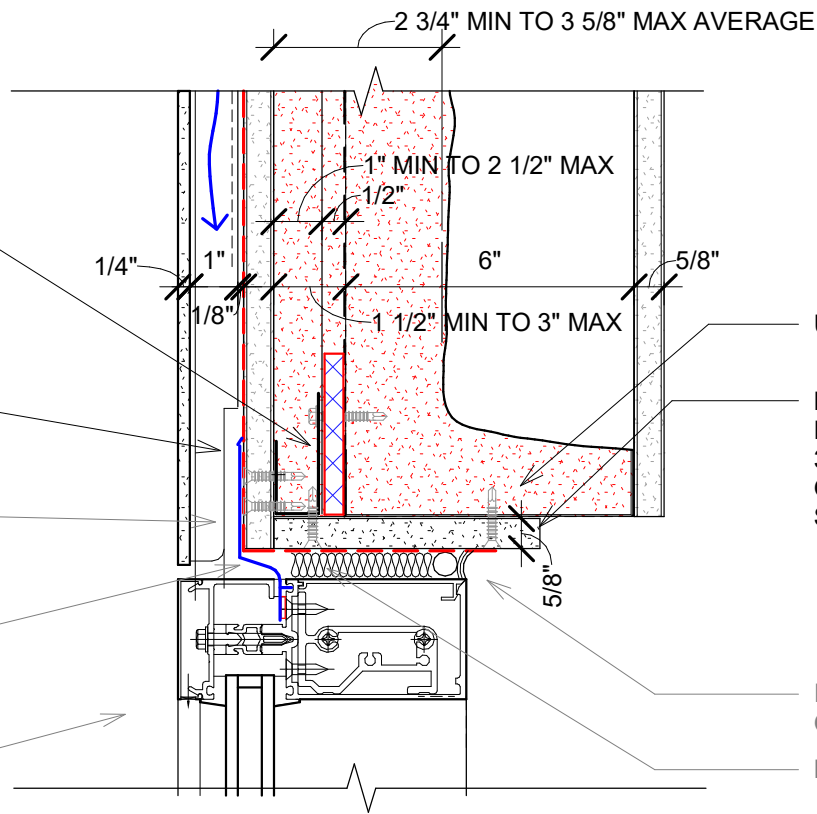
J-BACK™ HOR BACK-FURRING: LOCATE @ TOP & BOTTOM HORIZONTAL EDGES, 1 1/2" X (1" MIN TO 2 1/2" MAX) X 2 1/2" CFMF, GAL, 20GA (MIN), (1) 1 1/4" #12MIN GALV OR STSTL HEXWASHER FASTENER PER STUD. (NOTE, WEB & PAD ALIGN WITH OPENING).

WRAP BLK'NG W/ FLEX-FLASH, 12" WIDE MAX, CAP SEAL TOP HORIZONTAL EDGES

SILICONE BEDDING SEALANT FLASHING FLANGE. (BY OTHERS)

SILICONE SHEET FLASHING FLANGE, GLAZED INTO WINDOW POCKET & INSERT INTO DART, SILICONE SEAL JTS, ONE-PIECE CORNERS. (BY OTHERS)

2 1/2" X 6", CURTAINWALL W/ THERMAL BREAK, PLASTIC THROAT INSERT, DIRECT GLAZE FLASHING FLANGE. (BY OTHERS)



UNPUNCHED TRACK @ HEAD (20GA MIN)

BLK'NG @ HEAD: PER NFPA 285, 1 1/2" FIRE-RETARDANT EXTERIOR-GRADE WOOD BLOCKING, OR 3/4" FIRE-RETARDANT EXTERIOR-GRADE PLYWOOD, OR 5/8" EXTERIOR SHEATHING AT HEAD. GALV OR STSTL FASTEN'RS @ 8" STAGGERED.

INT SEALANT JT FOR AIR BARRIER, URETHANE, HYBRID, OR SILICONE. (BY OTHERS)

MW BATT STUFFING FOR AIR & THERMAL CONTROL. (BY OTHERS)

1 BKL, 285 COMPLIANT, SECTION @ TYP HEAD DETAIL W/ CURTAINWALL
3" = 1'-0"

2 3/4" MIN TO 3 5/8" MAX AVERAGE

1" MIN TO 2 1/2" MAX

1/2"

1"

JAMB STUD: 20GA MIN, 2" WIDE FLANGE MIN @ JAMB AND VERTICAL EDGE STUDS. UNPUNCHED, OR COVER PUNCHES W/ BLK'NG.

BLK'NG @ JAMBS: PER NFPA 285, 1 1/2" FIRE-RETARDANT EXTERIOR-GRADE WOOD BLOCKING, OR 3/4" FIRE-RETARDANT EXTERIOR-GRADE PLYWOOD, OR 5/8" EXTERIOR SHEATHING. GALV OR STSTL FASTEN'RS @ 8" STAGGERED. EXTEND TO COVER JAMB STUD PUNCHES (IF ANY).

T-PAD™ THERMAL BREAK: HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.

L-BACK™ VERT EDGE TRIM BACK FURRING: (SHOWN). FRAMING ANGLE, 2 1/2" FRONT LEG X (1 1/4" MIN TO 2 3/4" MAX) AT ALL VERTICAL EDGES, GAL, 20GA MIN, (HOLD 1/4" GAP TO STUD FOR THERMAL BREAK).

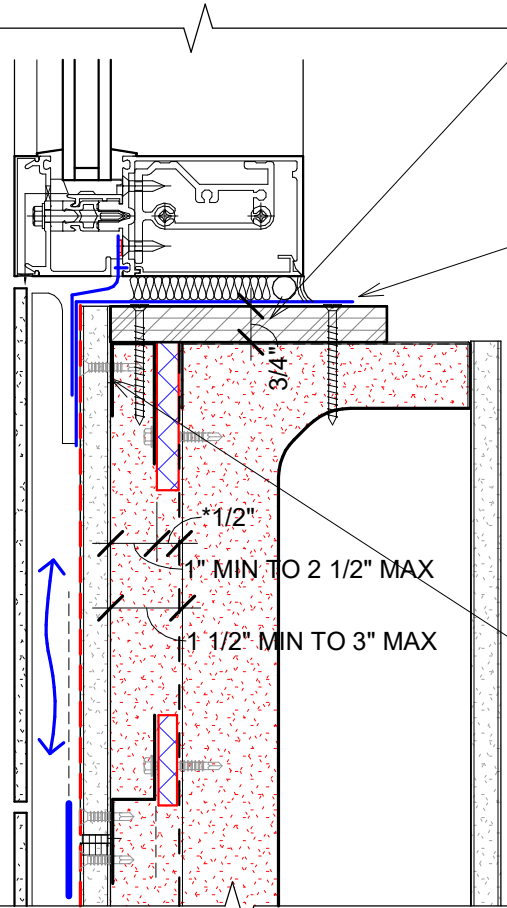
PRIMARY SEAL: SILICONE FLASHING FLANGE @ PERIMETER, GLAZED INTO CW. (BY OTHERS)

Z-BACK™: 1" MIN TO 2 1/2" MAX, HOR BACK-FURRING

BLK'NG @ SILL: PER NFPA 285, 1 1/2" FIRE-RETARDANT EXTERIOR-GRADE WOOD BLOCKING OR 3/4" PLYWOOD FIRE-RETARDANT EXTERIOR-GRADE. GALV OR STSTL FASTENERS @ 8" OC STAGGERED. (REQD LOAD-BEARING OF WINDOWS & FOR FIRE PROTECTION OF FURRED ZONE).

SILL FLASH: SELF-ADHERED FLEX-FLASH, 12" MAX TOTAL WIDTH. EXTEND 6" UP JAMBS

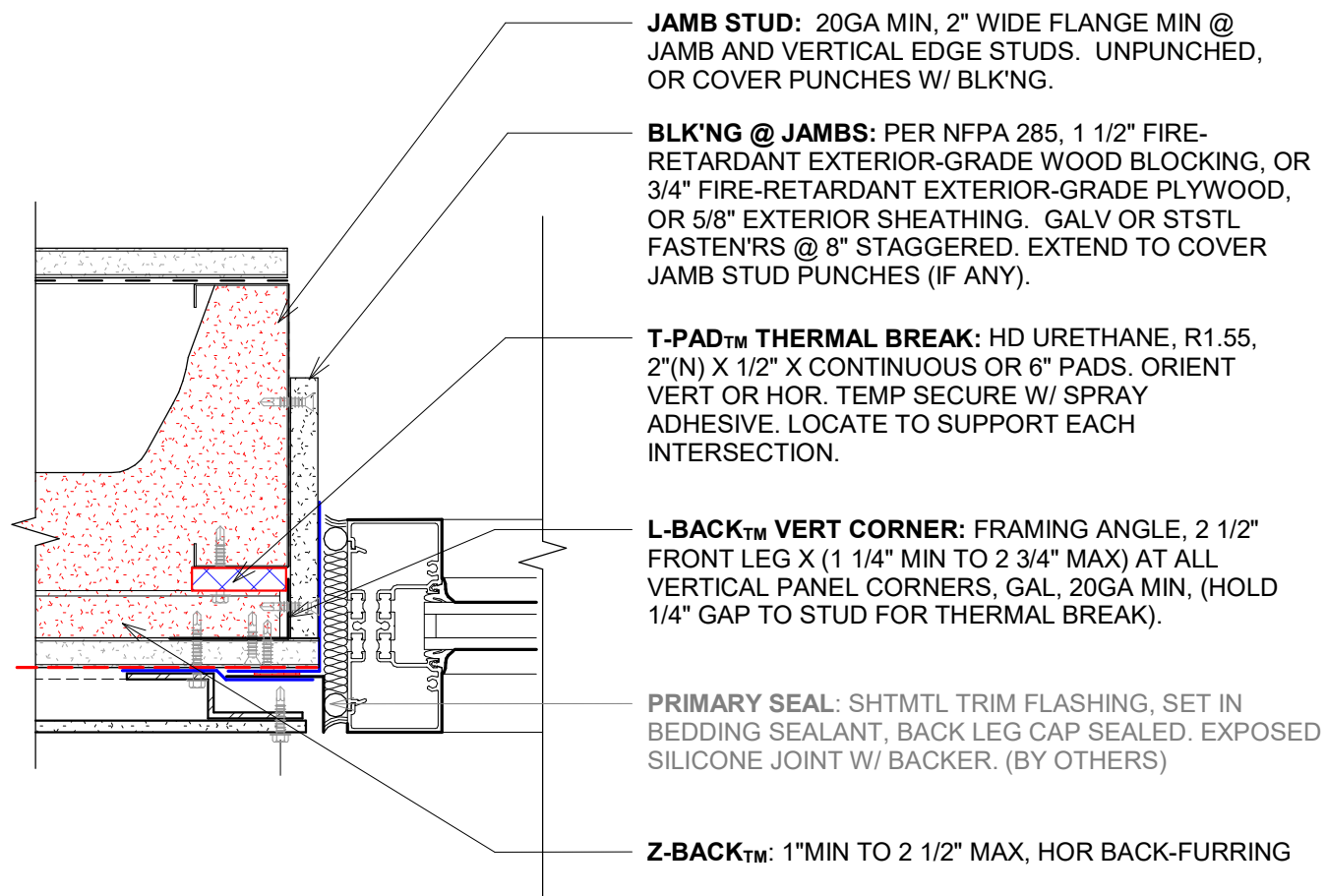
J-BACK™ HOR BACK-FURRING: LOCATE @ TOP & BOTTOM HORIZONTAL EDGES, 1 1/2" X (1" MIN TO 2 1/2" MAX) X 2 1/2" CFMF, GAL, 20GA (MIN), (1) 1 1/4" #12MIN GALV OR STSTL HEXWASHER FASTENER PER STUD. (NOTE, WEB ALIGNS WITH OPENING).



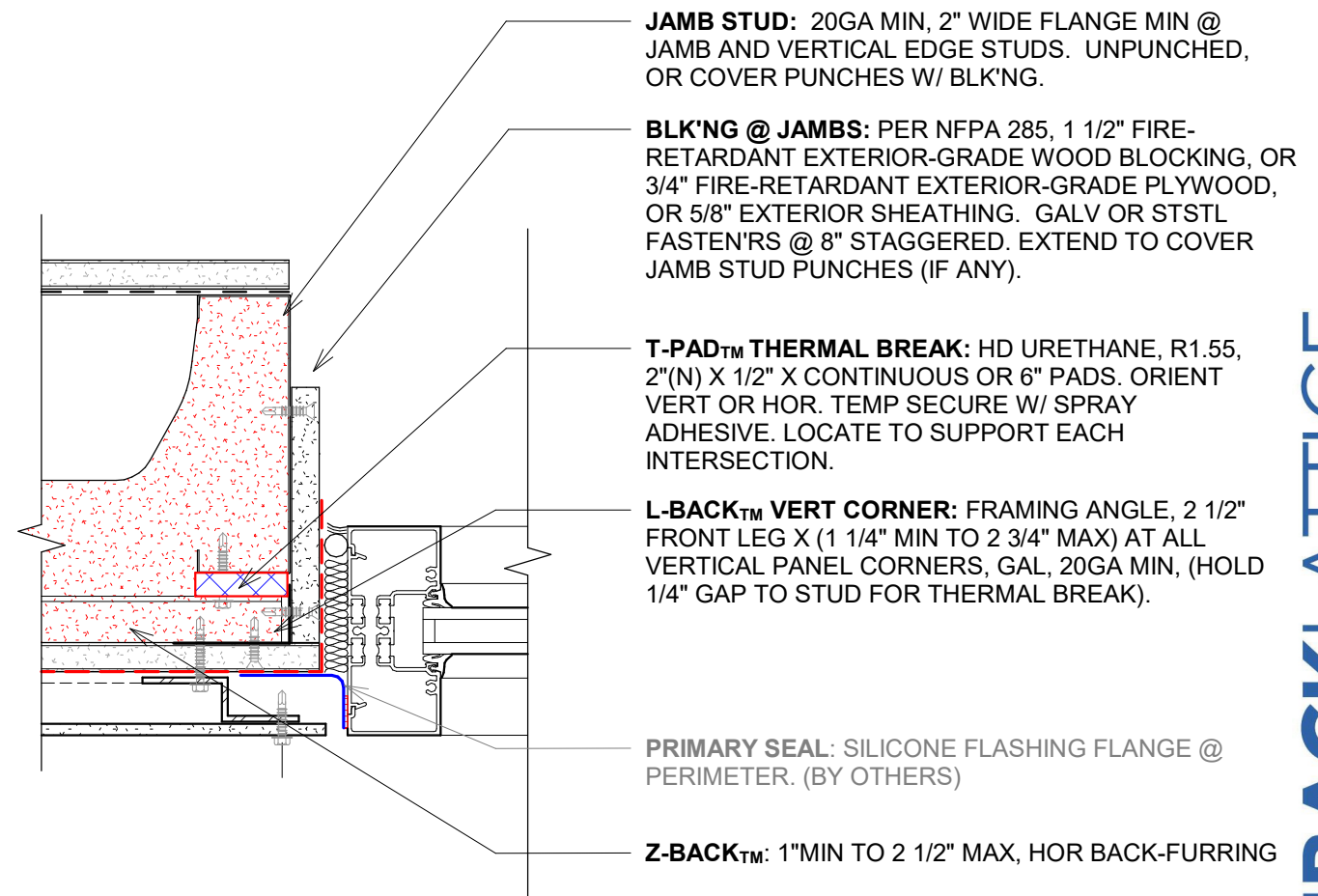
3 BKL, 285 COMPLIANT, SECTION @ SILL DETAIL W/ CURTAINWALL
3" = 1'-0"

2 BKL, 285 COMPLIANT, PLAN DETAIL @ JAMB W/ CURTAINWALL
3" = 1'-0"

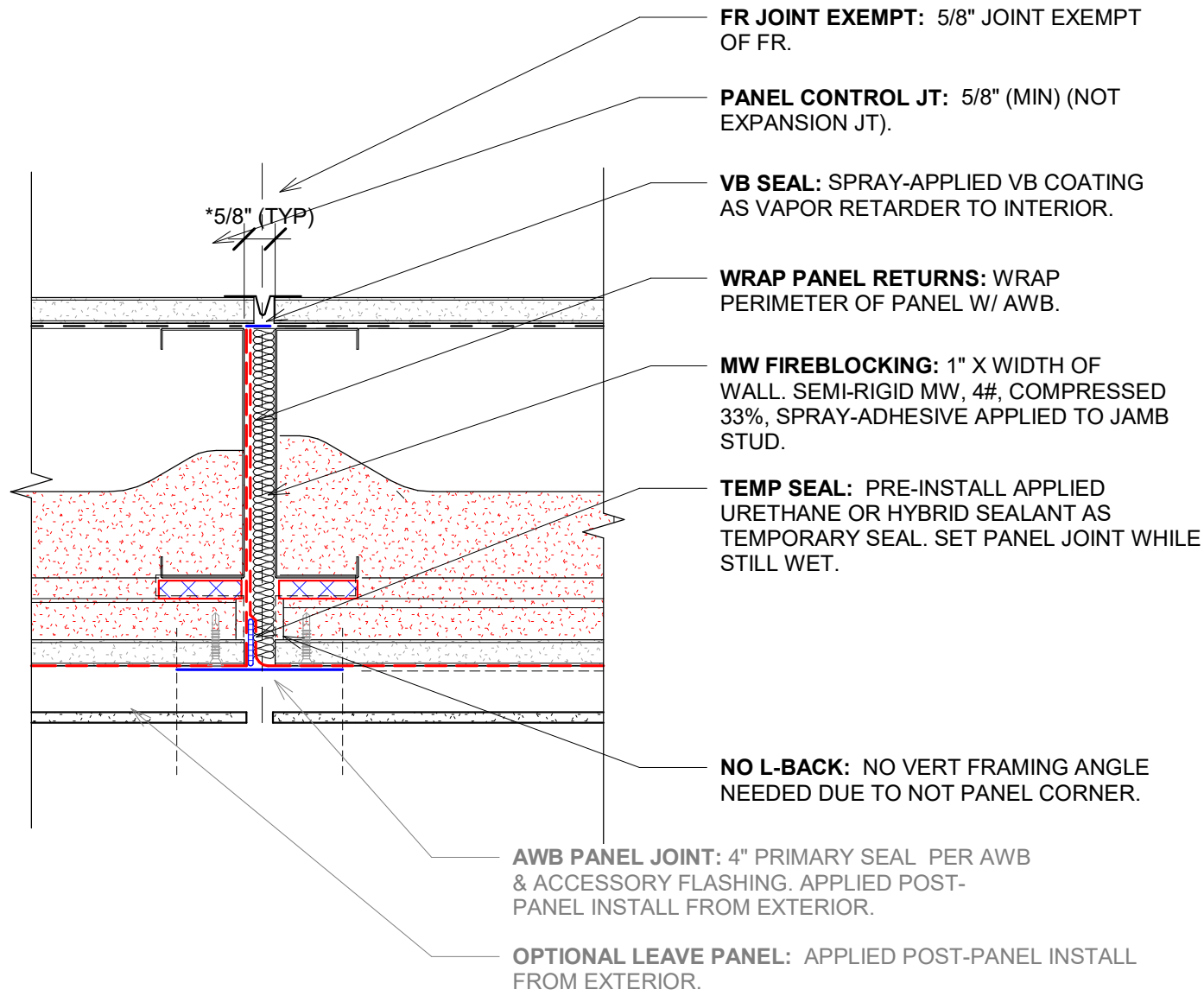




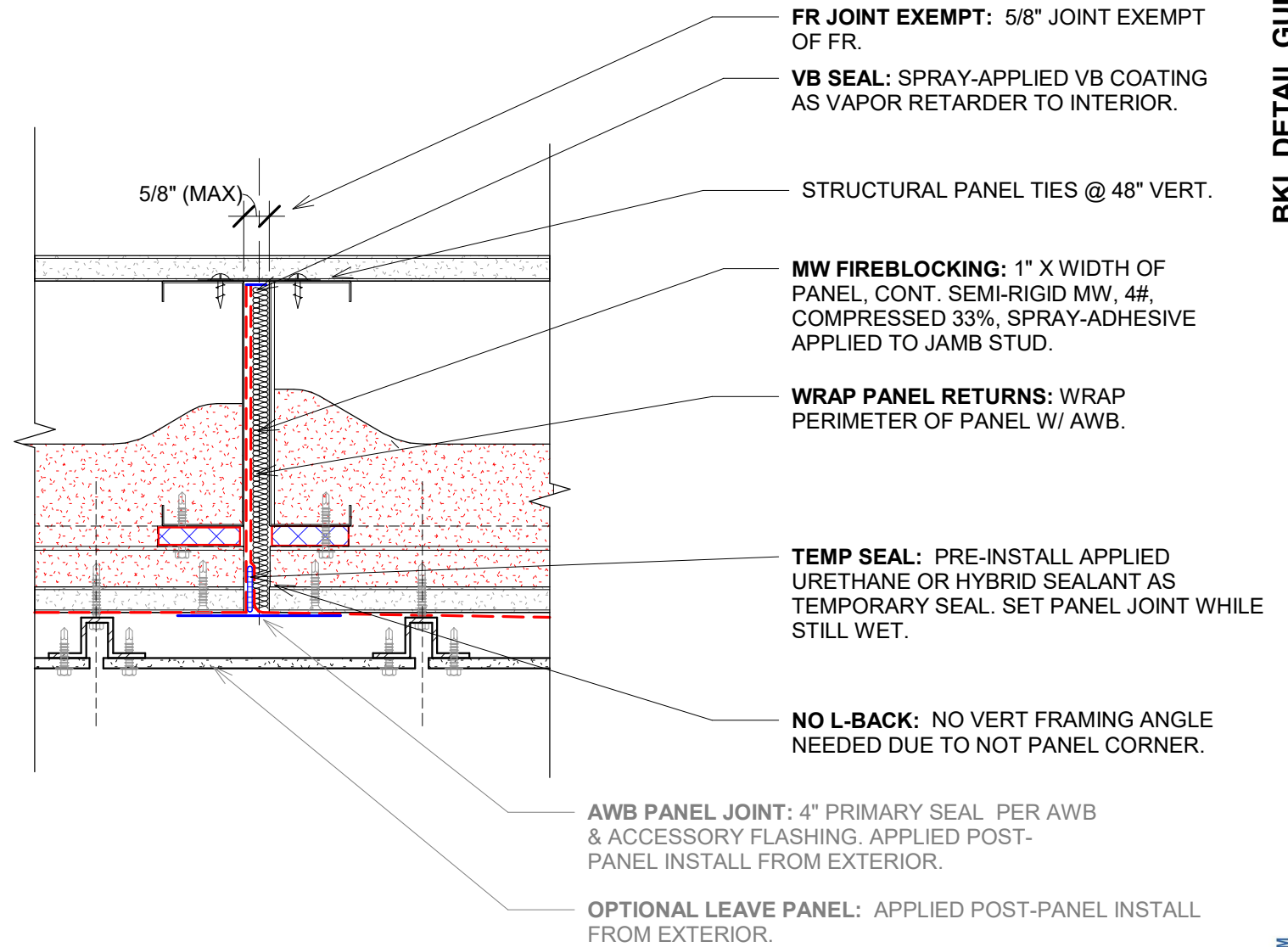
2 BKL, 285 COMPLIANT, PLAN DETAIL @ JAMB W/ STOREFRONT
3" = 1'-0"



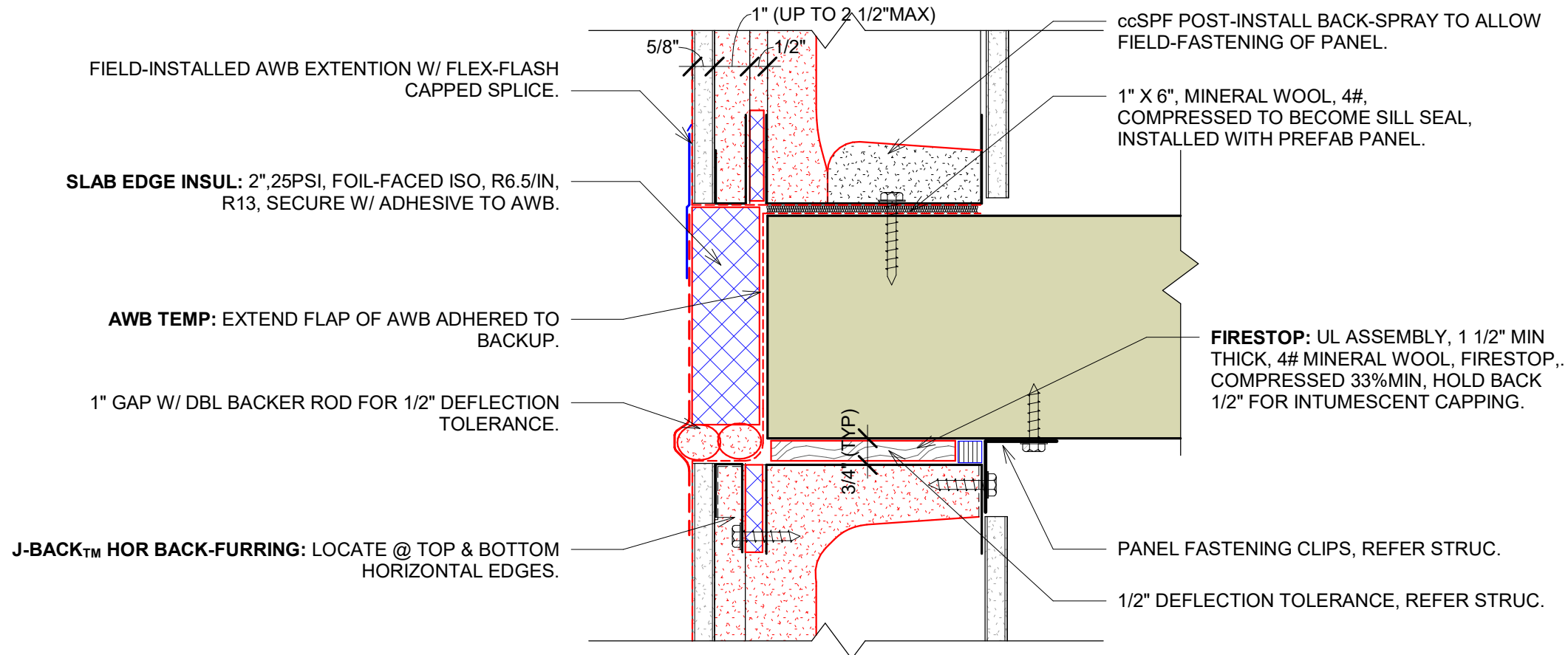
3 BKL, 285 COMPLIANT, PLAN DETAIL @ JAMB W/ STOREFRONT & AWB TIE
3" = 1'-0"



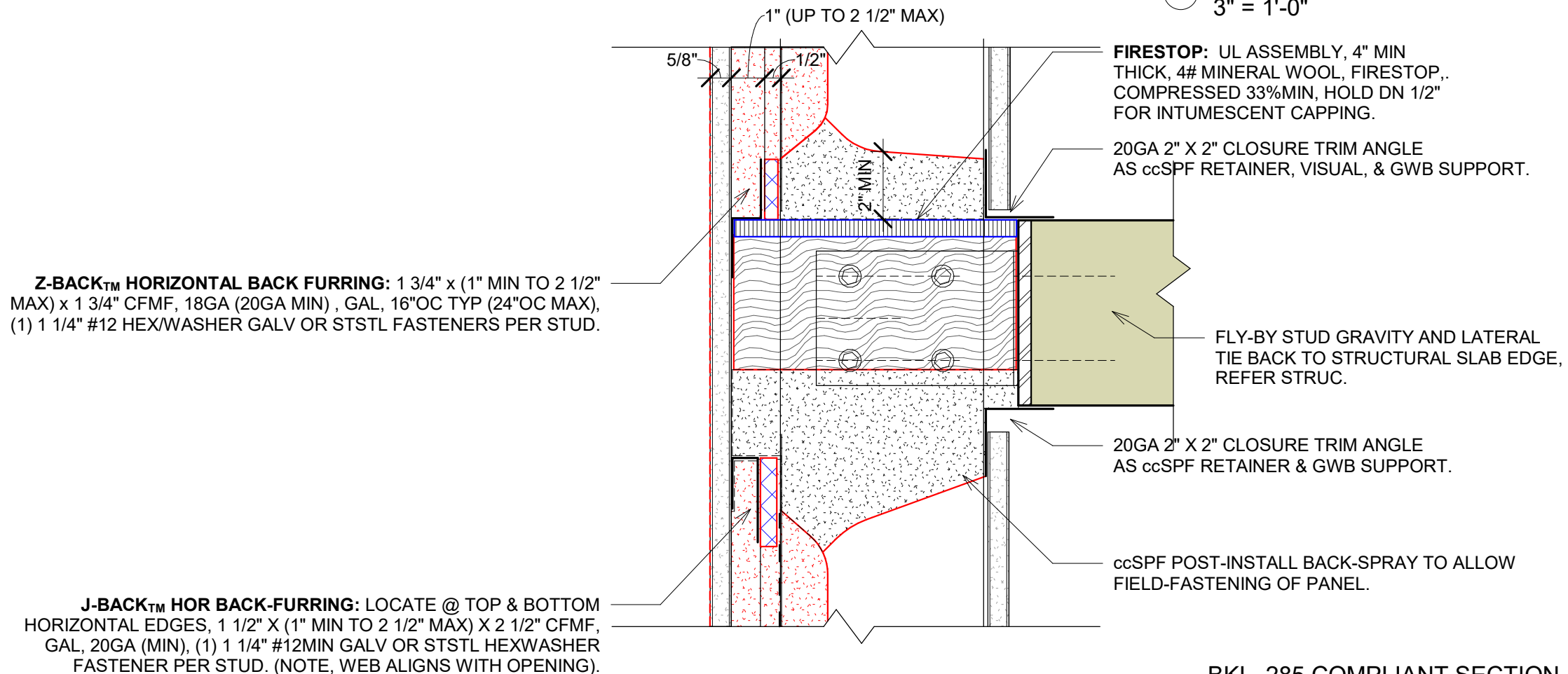
1 BKL, 285 COMPLIANT TYPICAL VERT CONTROL JT
3" = 1'-0"



2 BKL, 285 COMPLIANT TYPICAL VERT NON-MOVEMENT JT
3" = 1'-0"



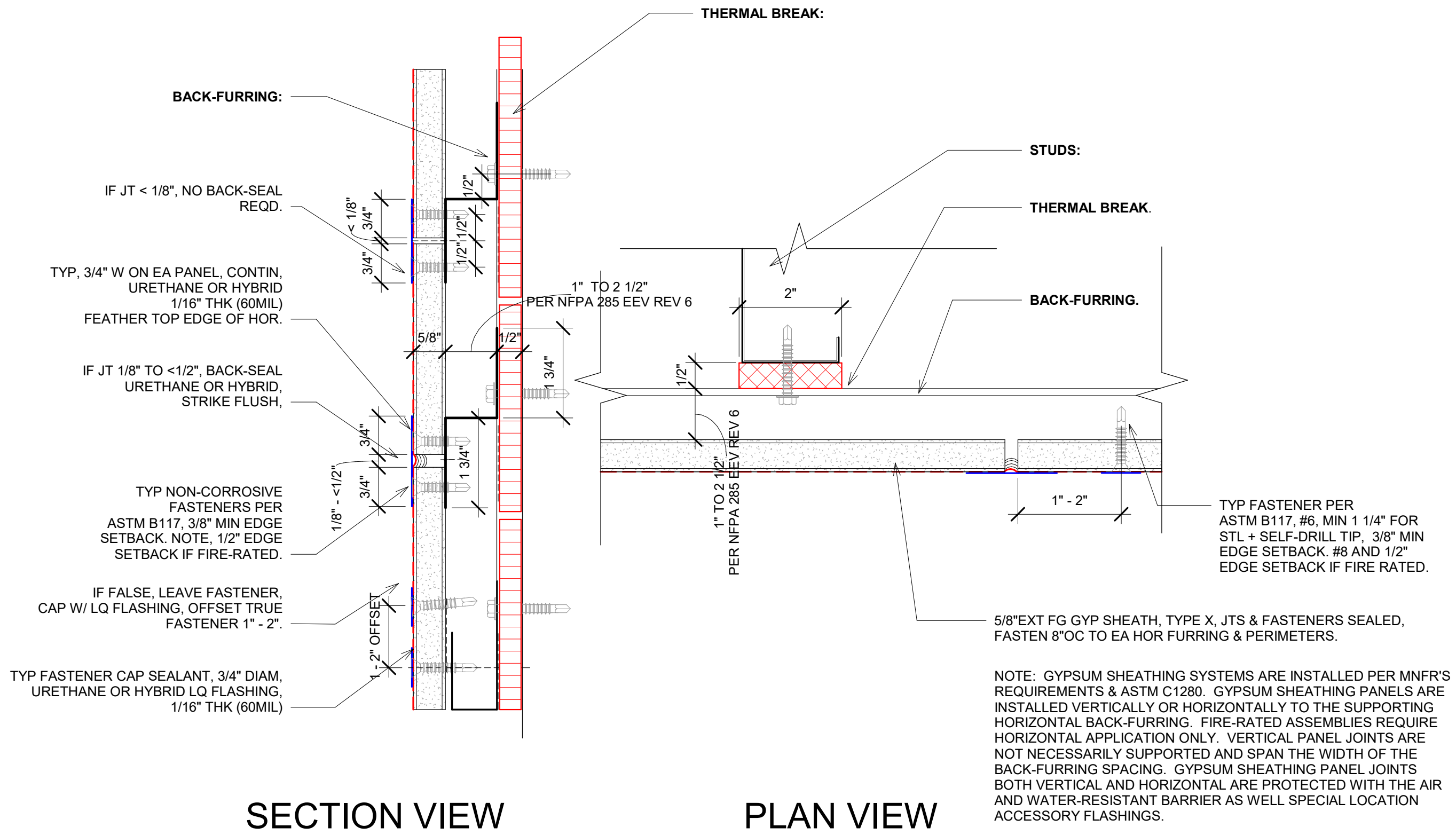
BKL, 285 COMPLIANT SECTION, PANEL JOINT AT STRUC SLAB
 1
 3" = 1'-0"

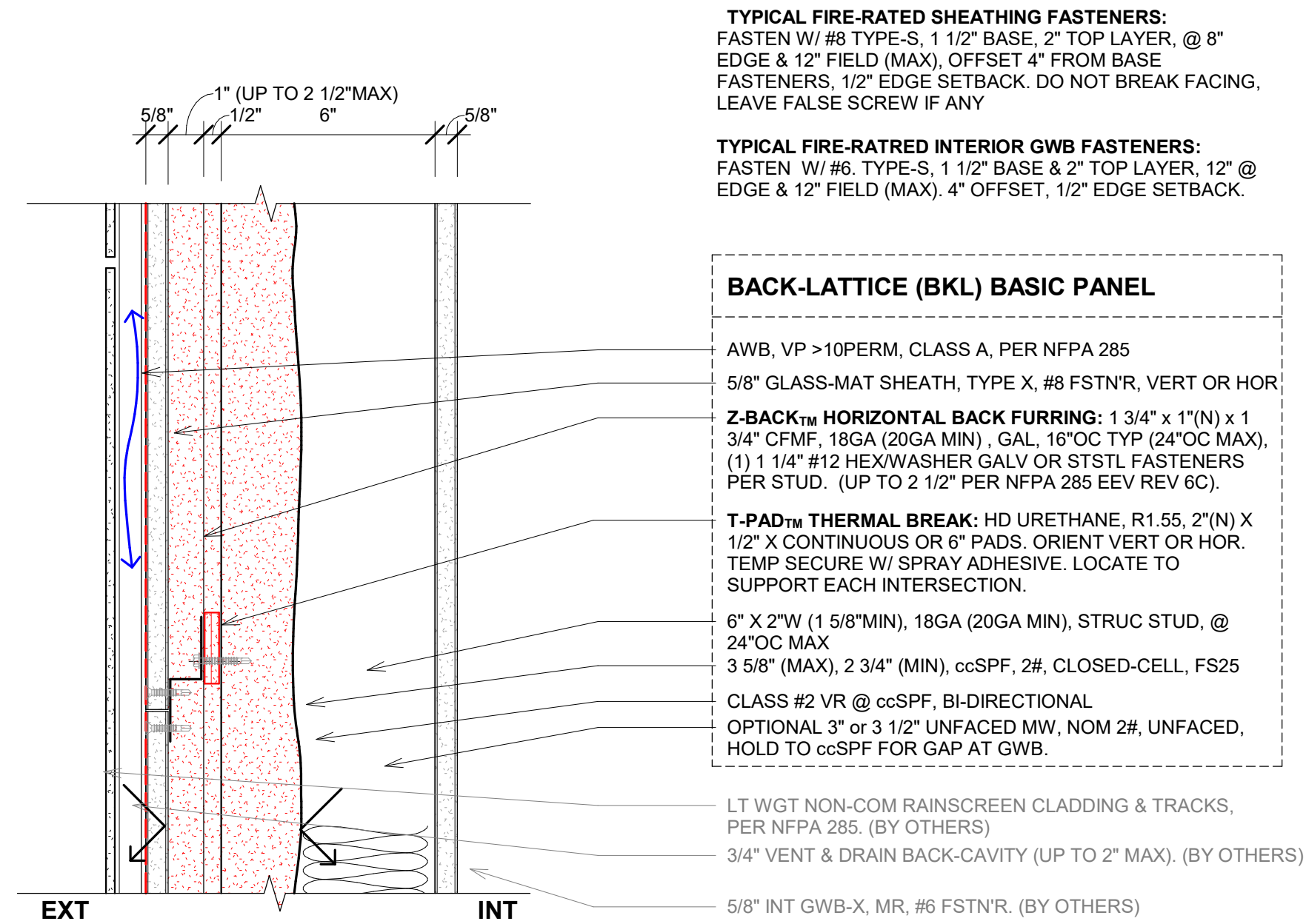


BKL, 285 COMPLIANT SECTION, FLY-BY PANEL @ SLAB EDGE
 2
 3" = 1'-0"



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TYPICAL FIRE-RATED SHEATHING FASTENERS:
 FASTEN W/ #8 TYPE-S, 1 1/2" BASE, 2" TOP LAYER, @ 8" EDGE & 12" FIELD (MAX), OFFSET 4" FROM BASE FASTENERS, 1/2" EDGE SETBACK. DO NOT BREAK FACING, LEAVE FALSE SCREW IF ANY

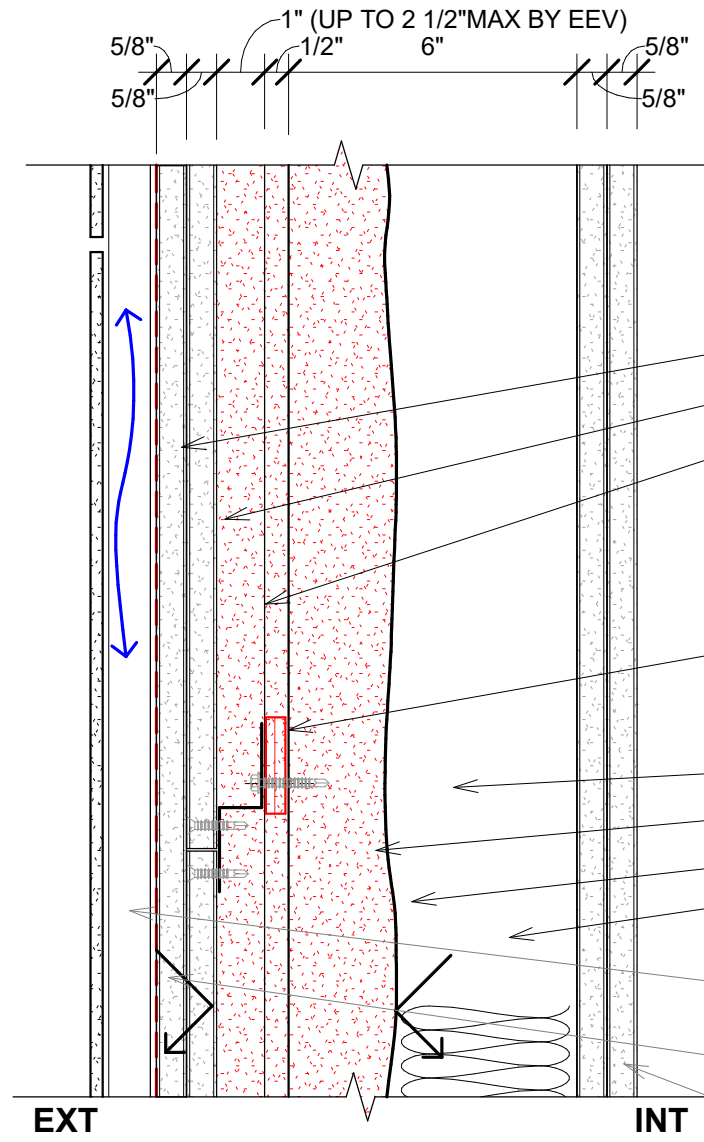
TYPICAL FIRE-RATED INTERIOR GWB FASTENERS:
 FASTEN W/ #6 TYPE-S, 1 1/2" BASE & 2" TOP LAYER, 12" @ EDGE & 12" FIELD (MAX), 4" OFFSET, 1/2" EDGE SETBACK.

BACK-LATTICE (BKL) BASIC PANEL

- AWB, VP >10PERM, CLASS A, PER NFPA 285
- 5/8" GLASS-MAT SHEATH, TYPE X, #8 FSTN'R, VERT OR HOR
- Z-BACK™ HORIZONTAL BACK FURRING:** 1 3/4" x 1"(N) x 1 3/4" CFMF, 18GA (20GA MIN), GAL, 16"OC TYP (24"OC MAX), (1) 1 1/4" #12 HEX/WASHER GALV OR STSTL FASTENERS PER STUD. (UP TO 2 1/2" PER NFPA 285 EEV REV 6C).
- T-PAD™ THERMAL BREAK:** HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.
- 6" X 2"W (1 5/8"MIN), 18GA (20GA MIN), STRUC STUD, @ 24"OC MAX
- 3 5/8" (MAX), 2 3/4" (MIN), ccSPF, 2#, CLOSED-CELL, FS25
- CLASS #2 VR @ ccSPF, BI-DIRECTIONAL
- OPTIONAL 3" or 3 1/2" UNFACED MW, NOM 2#, UNFACED, HOLD TO ccSPF FOR GAP AT GWB.
- LT WGT NON-COM RAINSCREEN CLADDING & TRACKS, PER NFPA 285. (BY OTHERS)
- 3/4" VENT & DRAIN BACK-CAVITY (UP TO 2" MAX). (BY OTHERS)
- 5/8" INT GWB-X, MR, #6 FSTN'R. (BY OTHERS)

| RT'NG EXT | RT'NG INT | LOAD BR'NG | PER |
|-----------|-----------|------------|--------------------------------------|
| 0HR | 0HR | 100% | NFPA 285 EEV REV 6C (PRIEST & ASSOC) |

① BKL, 0HR, NFPA 285 ASSEMBLY
 3" = 1'-0"

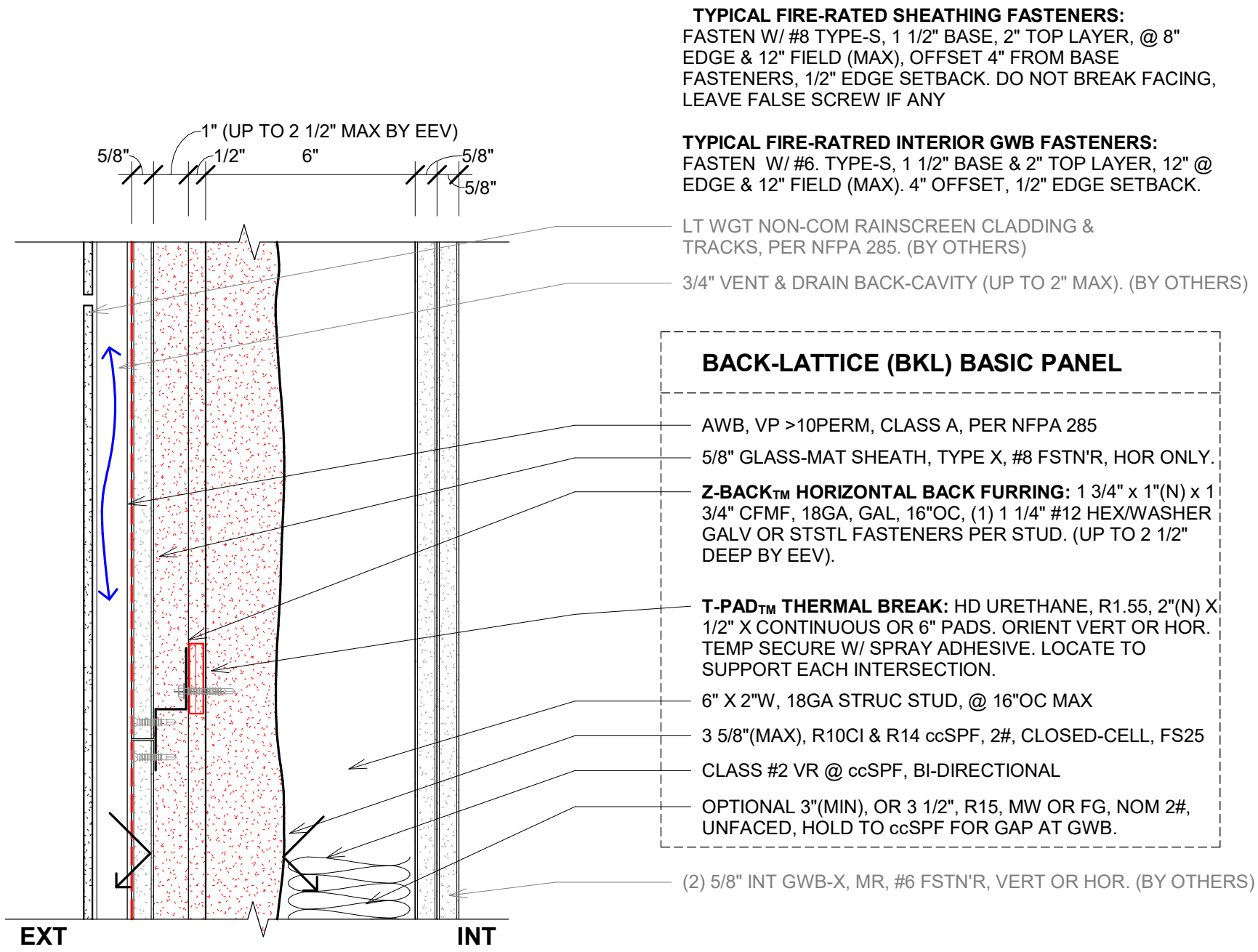


TYPICAL FIRE-RATED SHEATHING FASTENERS:
 FASTEN W/ #8 TYPE-S, 1 1/2" BASE, 2" TOP LAYER, @ 8" EDGE & 12" FIELD (MAX), OFFSET 4" FROM BASE
TYPICAL FIRE-RATED INTERIOR GWB FASTENERS:
 FASTEN W/ #6 TYPE-S, 1 1/2" BASE & 2" TOP LAYER, 12" @ EDGE & 12" FIELD (MAX). 2" OFFSET, 1/2" EDGE SETBACK.

- BACK-LATTICE (BKL) BASIC PANEL**
- AWB, VP >10PERM, CLASS A, PER NFPA 285
 - (2) 5/8" GLASS-MAT SHEATH, TYPE X, #8 FSTN'R
 - Z-BACKSLOPE™ HORIZONTAL BACK FURRING:** 1 3/4" x 1"(N) x 1 3/4" CFMF, 18GA (20GA MIN) , GAL, 16"OC TYP (24"OC MAX), (1) 1 1/4" #12 HEX/WASHER GALV OR STSTL FASTENERS PER STUD. PRE-BONDED TO HD URETHANE, R1.55, 2"(N) X 1/2" HOR. CONTINUOUS. (UP TO 2 1/2" DEEP BY EEV).
 - T-PAD™ THERMAL BREAK:** HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.
 - 6" X 2"W, 18GA STRUC STUD, @ 16"OC MAX
 - 3 5/8", R10CI & R14 ccSPF, 2#, CLOSED-CELL, FS25
 - CLASS #2 VR @ ccSPF, BI-DIRECTIONAL
 - OPTIONAL 3 1/2" UNFACED MW, 2#, UNFACED, R15, TO SUPER-INSULATE W/O MOISTURE HARBORING.
 - LT WGT NON-COM RAINSCREEN CLADDING & TRACKS PER NFPA 285. (BY OTHERS)
 - 3/4" VENT & DRAIN BACK-CAVITY. (UP TO 2" MAX). (BY OTHERS)
 - (2) 5/8" INT GWB-X, MR, #6 FSTN'R. (BY OTHERS)

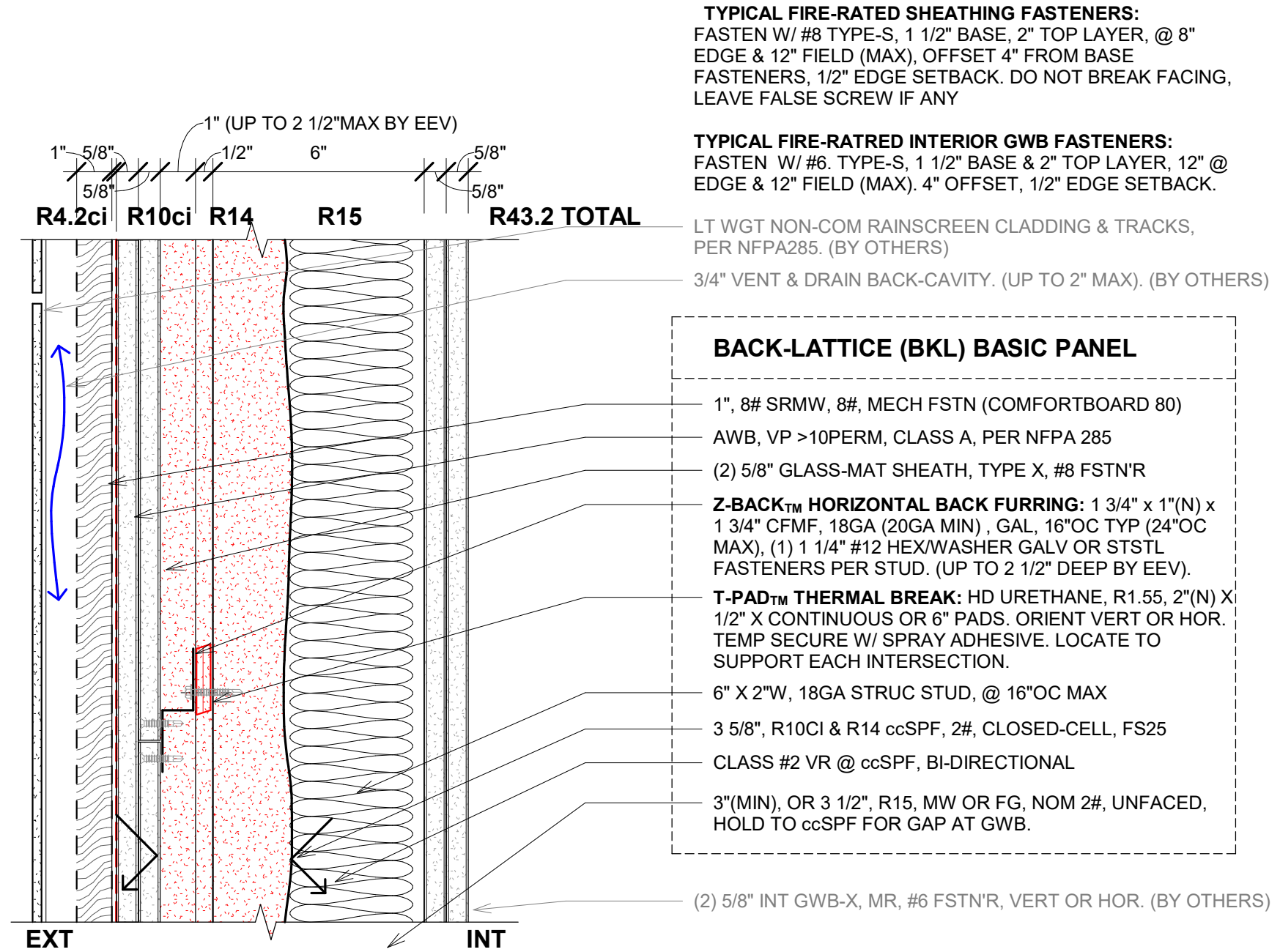
| RT'NG EXT | RT'NG INT | LOAD BR'NG | PER |
|-----------|-----------|------------|----------------------------|
| 1HR | 0HR | 100% | #DSS/FWPA 60-01 (INTERTEK) |

① BKL, 1HR Ext, 0HR Int, LB100
 3" = 1'-0"



| RT'NG EXT | RT'NG INT | LOAD BR'NG | PER |
|-----------|-----------|------------|----------------------------|
| 0HR | 1HR | 100% | #DSS/FWPA 60-02 (INTERTEK) |

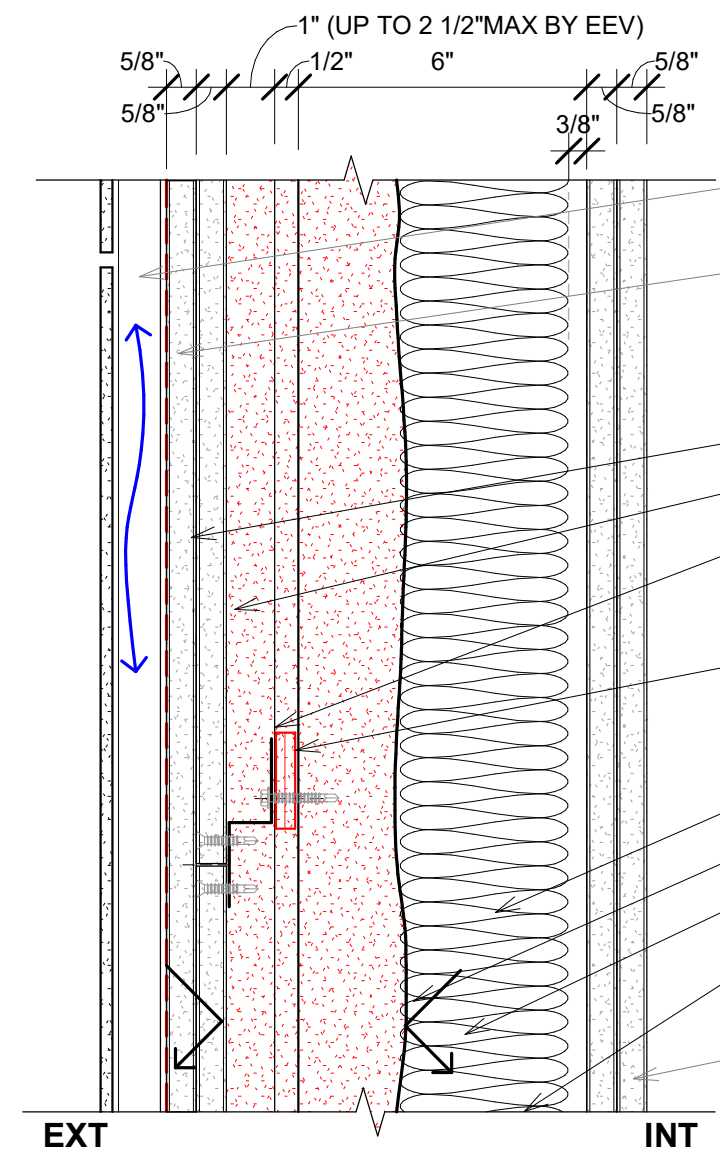
1 BKL, 0HR Ext, 1HR Int, LB100
 3" = 1'-0"



| RT'NG EXT | RT'NG INT | LOAD BR'NG | PER |
|-----------|-----------|------------|-----------------------------|
| 2HR | 0HR | 100% | #DSS/FWPA 120-01 (INTERTEK) |

② BKL, 2HR Ext, 0HR Int, LB100
 3" = 1'-0"

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TYPICAL FIRE-RATED SHEATHING FASTENERS:
 FASTEN W/ #8 TYPE-S, 1 1/2" BASE, 2" TOP LAYER, @ 8" EDGE & 12" FIELD (MAX), OFFSET 4" FROM BASE FASTENERS, 1/2" EDGE SETBACK. DO NOT BREAK FACING, LEAVE FALSE SCREW IF ANY

TYPICAL FIRE-RATED INTERIOR GWB FASTENERS:
 FASTEN W/ #6 TYPE-S, 1 1/2" BASE & 2" TOP LAYER, 12" @ EDGE & 12" FIELD (MAX). 4" OFFSET, 1/2" EDGE SETBACK.

LT WGT NON-COM RAINSCREEN CLADDING & TRACKS, PER NFPA 285. (BY OTHERS)
 3/4" VENT & DRAIN BACK-CAVITY. (UP TO 2" MAX) (BY OTHERS)

BACK-LATTICE (BKL) BASIC PANEL

AWB, VP >10PERM, CLASS A, PER NFPA 285
 (2) 5/8" GLASS-MAT SHEATH, TYPE X, #8 FSTN'R, HOR ONLY
Z-BACK™ HORIZONTAL BACK FURRING: 1 3/4" x 1"(N) x 1 3/4" CFMF, 18GA (20GA MIN) , GAL, 16"OC TYP (24"OC MAX), (1) 1 1/4" #12 HEX/WASHER GALV OR STSTL FASTENERS PER STUD. (UP TO 2 1/2" DEEP BY EEV).
T-PAD™ THERMAL BREAK: HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.
 6" X 2"W, 18GA STRUC STUD, @ 16"OC MAX
 3 5/8", R10CI & R14 ccSPF, 2#, CLOSED-CELL, FS25
 CLASS #2 VR @ ccSPF, BI-DIRECTIONAL
 3"(MIN), OR 3 1/2", R15, MW OR FG, NOM 2#, UNFACED, HOLD TO ccSPF FOR GAP AT GWB.

(2) 5/8" INT GWB-X, MR, #6 FSTN'R, VERT OR HOR. (BY OTHERS)

| RT'NG EXT | RT'NG INT | LOAD BR'NG | PER |
|-----------|-----------|------------|-----------------------------|
| 0HR | 2HR | 80% | #DSS/FWPA 120-02 (INTERTEK) |

1 BKL, 0HR Ext, 2HR Int, LB80
 3" = 1'-0"



PLAN DETAIL

STUD: 3 5/8" OR 6" X 2" WIDE CFMF, STUD, 20GA MIN, 18GA (IF FIRE-RATED), GAL, 24"OC, 16"OC (IF FIRE-RATED). NOTE, 2" WIDE TO SUPPORT T-PAD™.

MAINTAIN REQD 1 1/2" ccSPF COVER @ STUD FLANGE FOR THERMAL AND VAPOR CONTROL

MINERAL WOOL CAVITY FILL: PER 2 HR FIRE-RATING & OPTIONAL HIGH PERFORMANCE (HP) ADDITIONAL INSULATION: MW BACKING: IN ADDITION TO SPF & LOCATED INWARD: MINERAL WOOL BATT, UNFACED, R15, HOLD TIGHT TO ccSPF TO MAINTAIN 3/8" GAP TO INTERIOR GWB, FIT TO HORIZONTAL LATERAL BRACING/STIFFENERS.

R15 (HP) 35PERM

SECTION DETAIL

AIR FILM: R0.68

AIR SPACE: R0.90

GWb: 5/8" GWB, TYPE X, MR (MOLD-RESISTANT). (BY OTHERS)
R0.56 25PERM

ccSPF: 1 1/2", R10CI (CONTINUOUS) + 2 1/8", R14, CLOSED-CELL URETHANE FOAM, 2#, R6.86/IN, HFO, <1GWP, FS25, TOTAL R24.
R10CI + R14 = R24 0.55PERM, CLASS 2VR

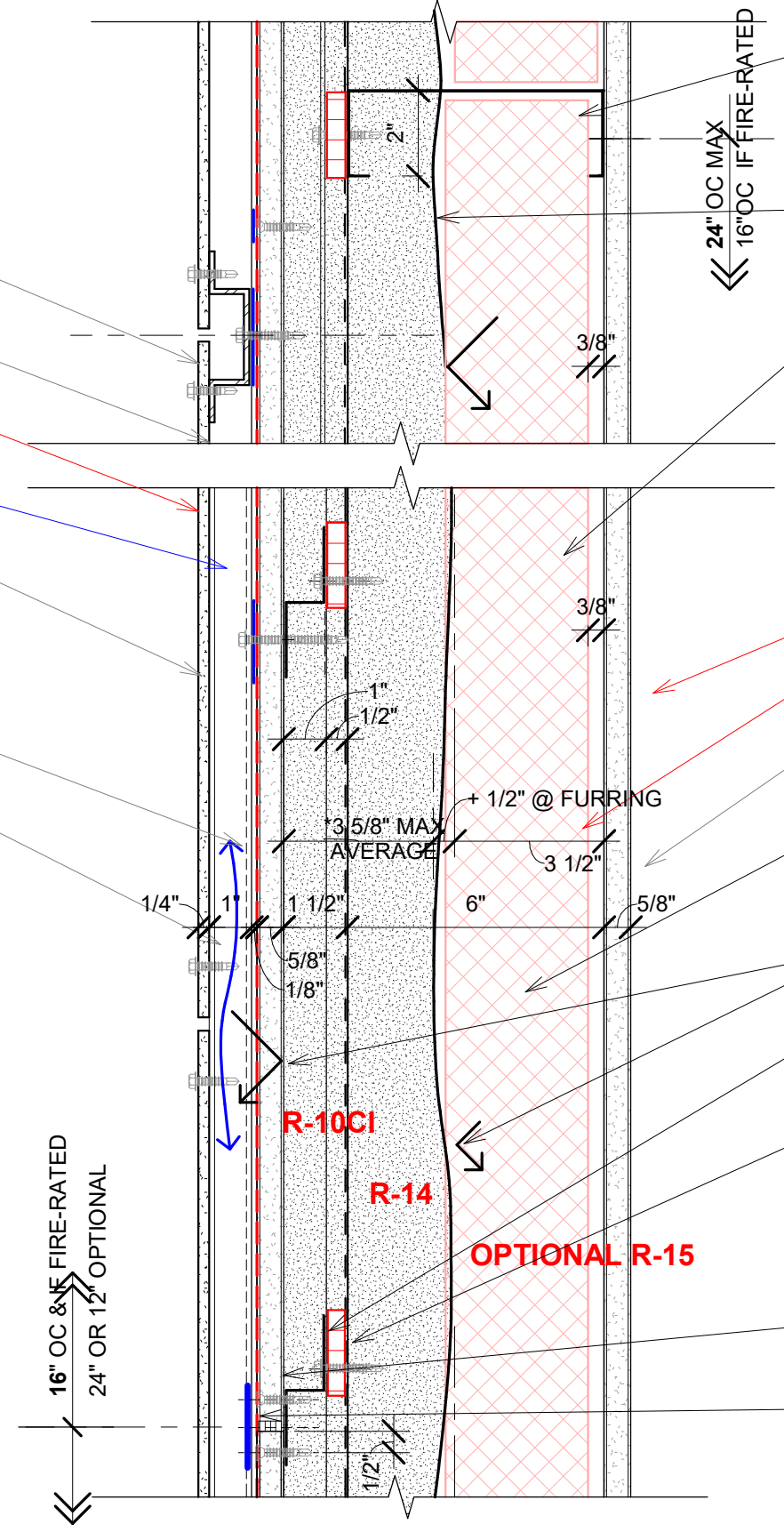
CLASS #2 VR @ SPF, BI-DIRECTIONAL.
0.55PERM, CLASS 2VR

Z-BACK™ HORIZONTAL BACK FURRING: 1 3/4" x 1"(N) x 1 3/4" CFMF, 18GA (20GA MIN), GAL, 16"OC TYP (24"OC MAX), (1) 1 1/4" # 12 HEX/WASHER GALV OR STSTL FASTENERS PER STUD.

T-PAD™ THERMAL BREAK: HD URETHANE, R1.55, 2"(N) X 1/2" X CONTINUOUS OR 6" PADS. ORIENT VERT OR HOR. TEMP SECURE W/ SPRAY ADHESIVE. LOCATE TO SUPPORT EACH INTERSECTION.
R1.55 THERMAL BREAK

5/8"EXT FG, TYPE X, UL, GLASS-MAT GYP SHEATH, JTS SEAL
R0.56 23PERM

AWB, VP (SA, LQ, BD)
>10PERM, BOD: 23PERM



STSTL FASTENER TO EA HOR GIRT. (BY OTHERS)
 (OPTIONAL) 3" VERT STRIP OF SA FLEX-FLASH @ EA VERT TRACK. (BY OTHERS)

EXT AIR FILM: R0.17

1" BACK-VENTILATION & DRAINAGE

1/4" FIBER-CEMENT or ANY NFPA APPROVED LIGHT-WEIGHT NON-COMBUSTIBLE CLADDING, OPEN JT, EXPOS FSTNR, VERT TRACK, LOCATE PER PANEL (BY OTHERS).
R0.25 50PERM

(OPTIONAL) 3" VERT STRIP OF SA FLEX-FLASH @ EA VERT TRACK (BY OTHERS)

FASTEN VERT CLADDING TRACKS W/ STSTL FASTENERS TO EACH HOR FURRING. (BY OTHERS)

PRESCRIPTIVE R: R14 + R10ci = R24
ASSEMBLY U: U-0.063 W/ STUDS @ 16"OC
ASSEMBLY U: U-0.054 W/ STUDS @ 24"OC

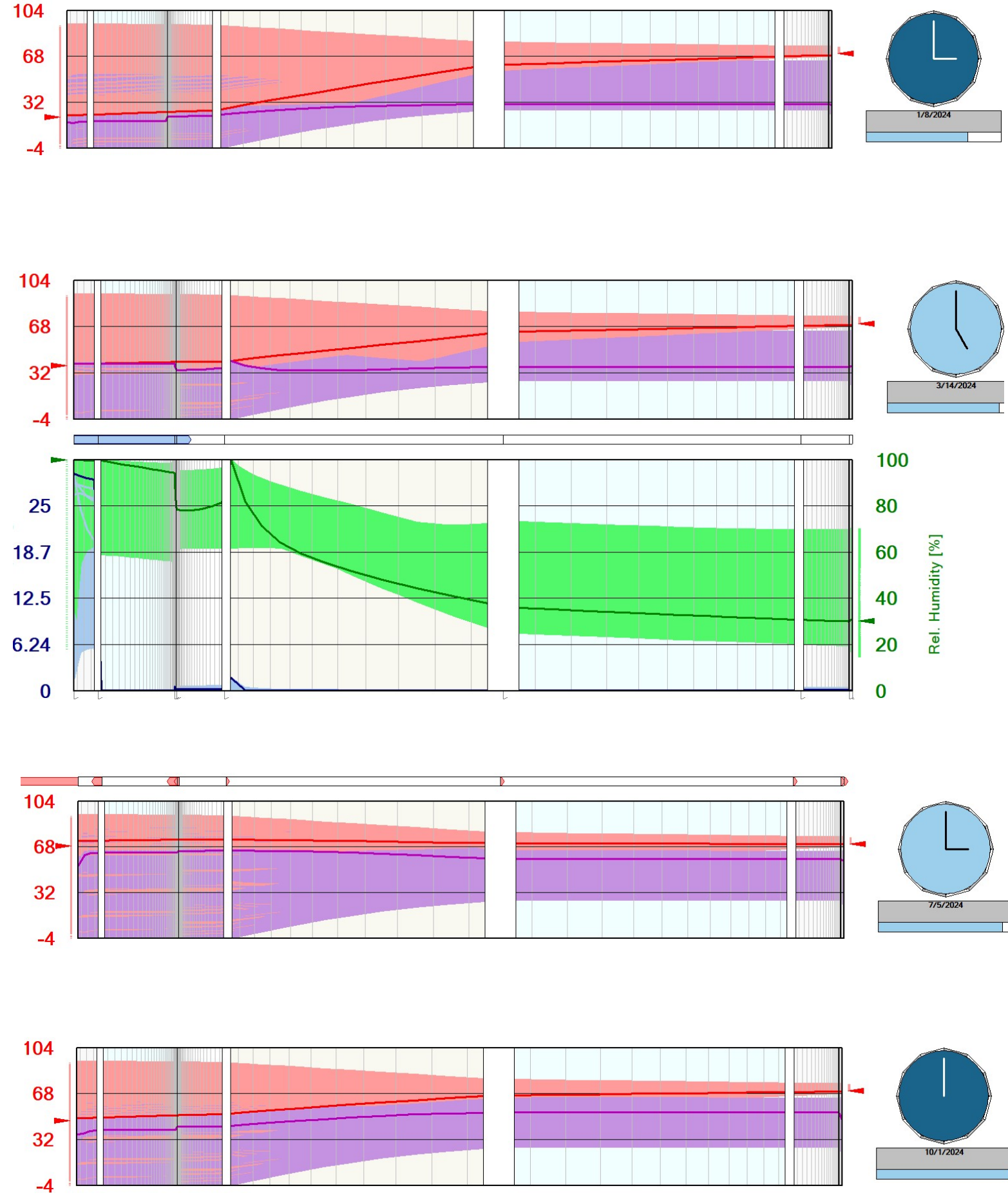
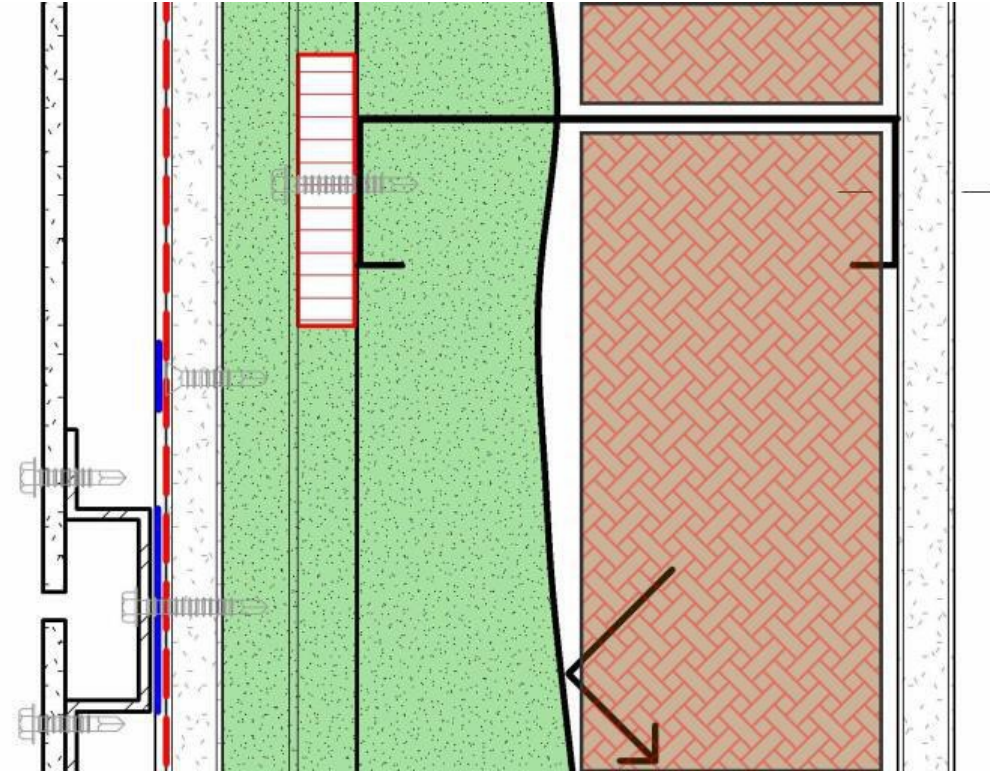
PRESCRIPTIVE R: R14 + R10ci + R15 = R39
ASSEMBLY U: U-0.050 W/ STUDS @ 16"OC
ASSEMBLY U: U-0.042 W/ STUDS @ 24"OC

16" OC & 16" FIRE-RATED
 24" OR 12" OPTIONAL

R-10CI
R-14
OPTIONAL R-15

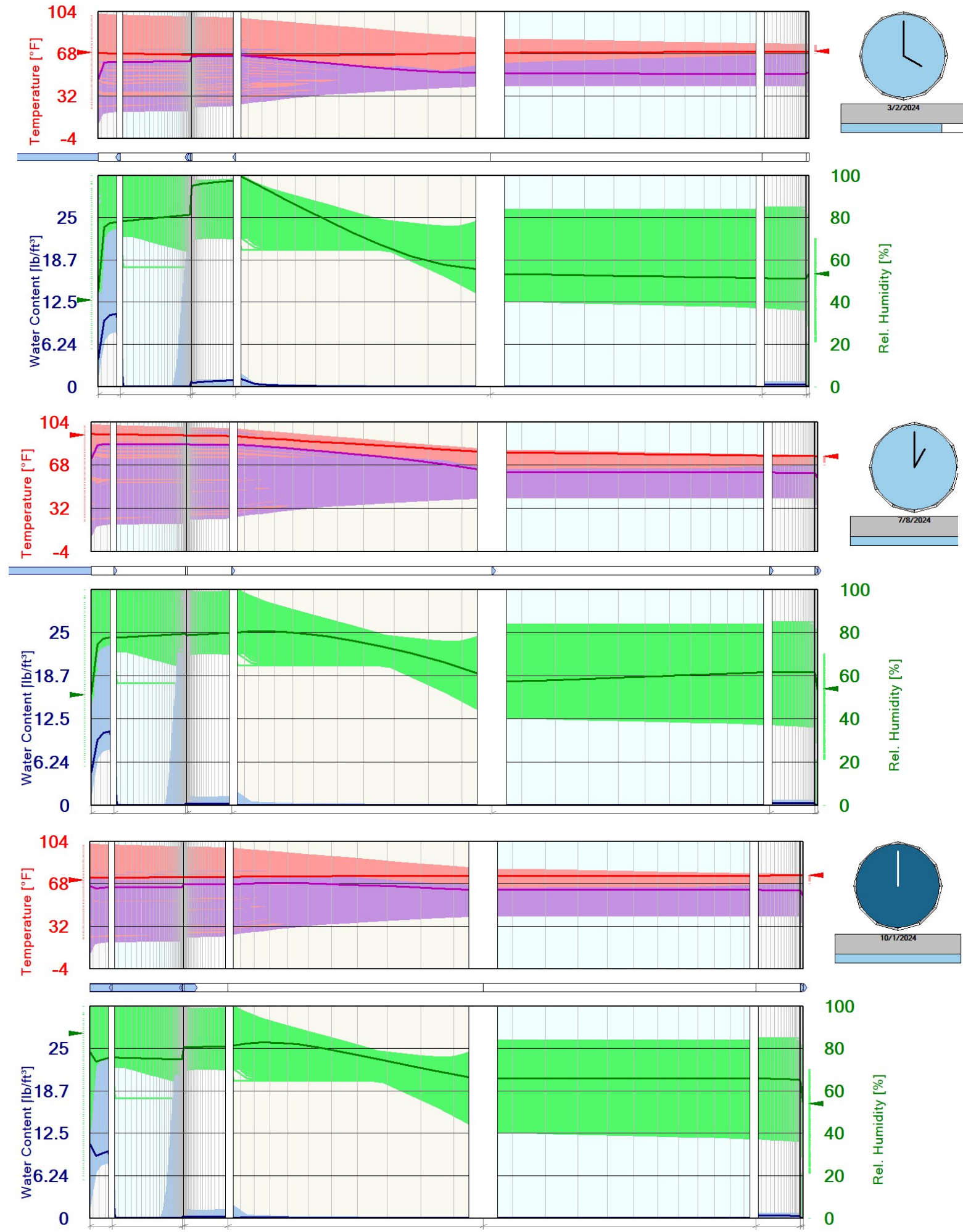
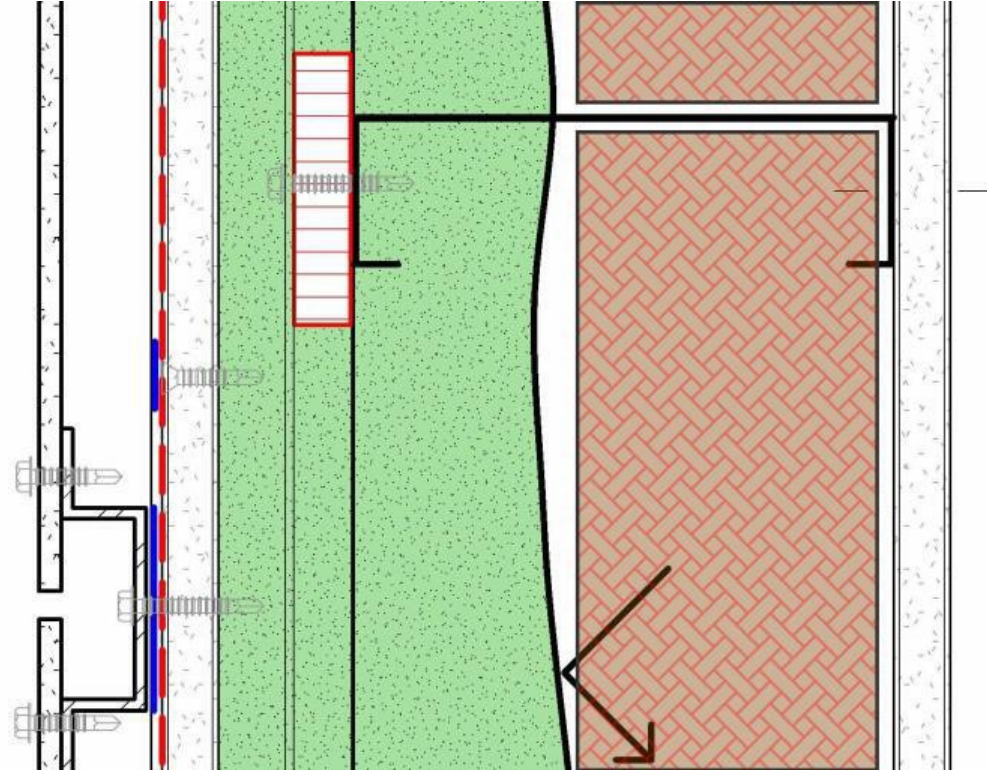
**ANALYSIS OF (HP) BACK-LATTICE - WUFI
ANALYSIS FOR DSS-PHILLY, BY VERDE, 6/18/2021**

FOR CLIMATE ZONE 5A (PITTSBURG): MOISTURE DOES NOT ACCUMULATE OVER TIME IN ANY LAYER DUE TO DRYING OF THE ASSEMBLY. DURING TIMES OF HIGH EXTERIOR HUMIDITY AND LOW INTERIOR HUMIDITY IN JUNE, THE DEWPOINT AND THE TEMPERATURE OCCUR AT THE OUTBOARD FACE OF THE SHEATHING LAYER, AT THE EXTERIOR AIR CAVITY. THE MOISTURE CONTENT OF THE SHEATHING LAYER ALSO INCREASES IN JUNE BUT DRIES OUT WITHIN A MONTH. PROVISIONS SHOULD BE MADE TO DRAIN THE AIR CAVITY OF MOISTURE. THE MAXIMUM AMOUNT OF MOISTURE OCCURS IN JUNE, WHEN NO FREEZE/THAW CONDITIONS OCCUR. THE MODEL DOES NOT INDICATE MOISTURE BUILD-UP DURING FREEZE/THAW CONDITIONS.



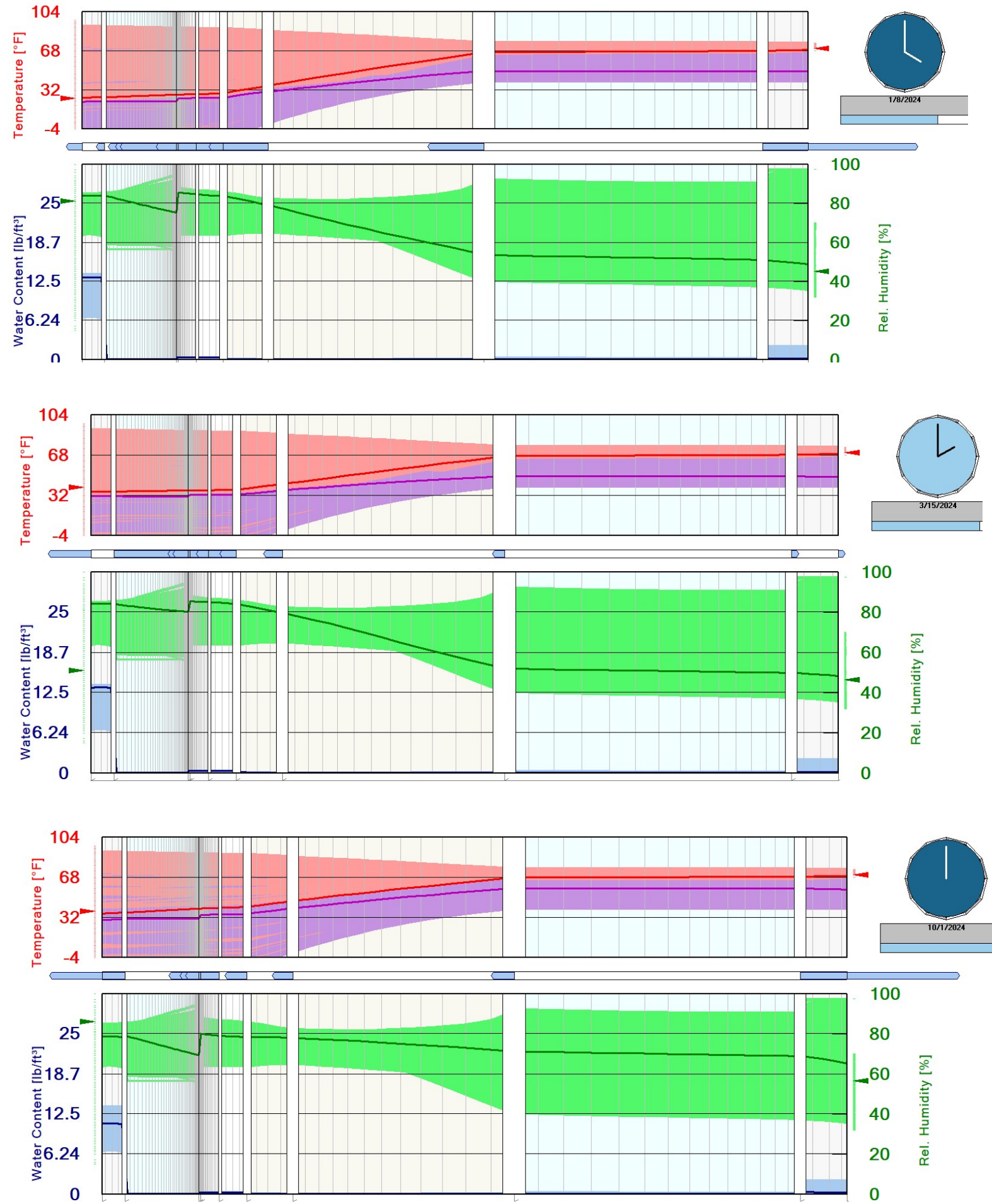
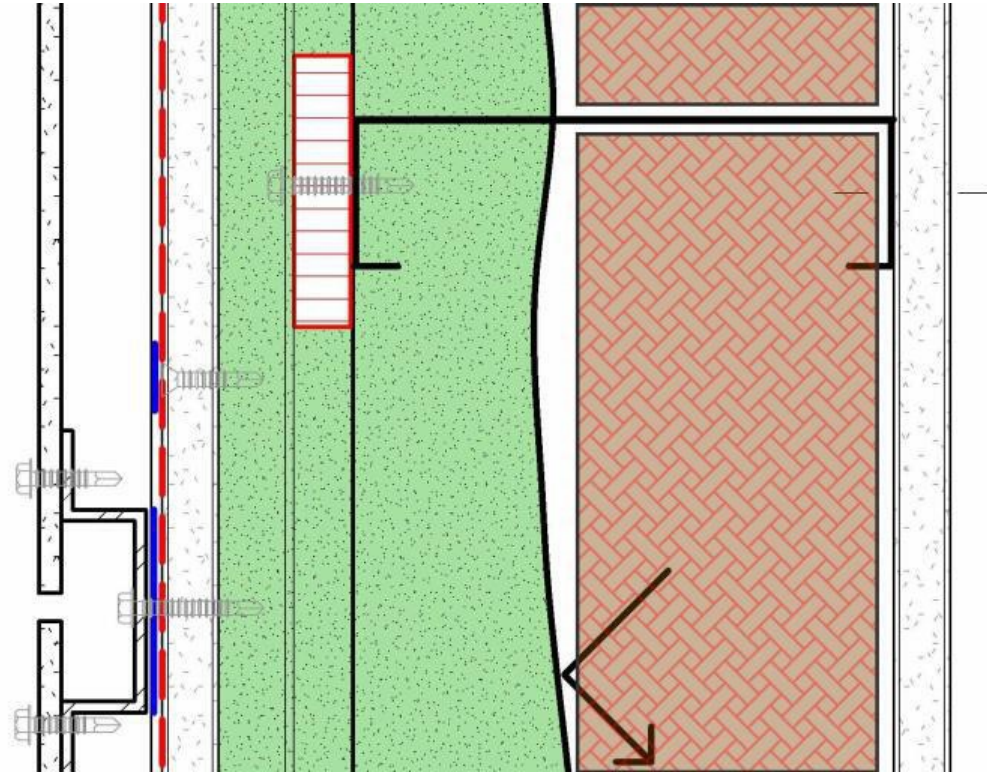
**ANALYSIS OF (HP) BACK-LATTICE - WUFI
ANALYSIS FOR DSS-PHILLY, BY VERDE, 6/18/2021**

CLIMATE ZONE 2A (HOUSTON): MOISTURE DOES NOT ACCUMULATE OVER TIME IN ANY LAYER DUE TO DRYING OF THE ASSEMBLY. DURING TIMES OF HIGH EXTERIOR HUMIDITY AND LOW INTERIOR HUMIDITY IN JUNE, THE DEWPOINT AND THE TEMPERATURE OCCUR AT THE OUTBOARD FACE OF THE SHEATHING LAYER, AT THE EXTERIOR AIR CAVITY. THE MOISTURE CONTENT OF THE SHEATHING LAYER ALSO INCREASES IN JUNE BUT DRIES OUT WITHIN A MONTH. PROVISIONS SHOULD BE MADE TO DRAIN THE AIR CAVITY OF MOISTURE. THE MAXIMUM AMOUNT OF MOISTURE OCCURS IN JUNE, WHEN NO FREEZE/THAW CONDITIONS OCCUR. THE MODEL DOES NOT INDICATE MOISTURE BUILD-UP DURING FREEZE/THAW CONDITIONS.



**ANALYSIS OF (HP) BACK-LATTICE - WUFI
ANALYSIS FOR DSS-PHILLY, BY VERDE, 6/18/2021**

CLIMATE ZONE 6A (GREEN BAY): DURING TIMES OF HIGH EXTERIOR HUMIDITY AND LOW INTERIOR HUMIDITY, THE DEWPOINT AND THE TEMPERATURE OCCUR AT THE SAME TIME AT THE OUTBOARD FACE OF THE SHEATHING, INDICATING CONDENSATION IS LIKELY FROM NOVEMBER TO APRIL. THIS IS TRUE WHEN THE TEMPERATURES DROP BELOW FREEZING AT NIGHT. AS WITH HOUSTON, PROVISIONS SHOULD BE MADE TO DRAIN THE AIR CAVITY OF MOISTURE. ALSO NOTE THAT ALL FASTENERS HAVE FLUID-APPLIED/SEALANT OR SELF-SEALING FLASHING TAPE PROTECTING THE PENETRATION OF THE SHEATHING. THIS REDUCES THE LIKELIHOOD OF THE MOISTURE PENETRATING THE SHEATHING ITSELF. IN ADDITION, CONDENSATION IS NOT PREDICTED TO OCCUR IN WINTER. THERE IS NO ACCUMULATION OF MOISTURE IN THE SHEATHING LAYER AFTER 3 YEARS OF PERFORMANCE.



BACKLATTICE™

TURN THE WALL ON ITS SIDE™
BACK-FUSION FOR THE EXTERIOR WALL™

BKL DETAIL GUIDE

BKL, WUFI, FOR ZONE 6A

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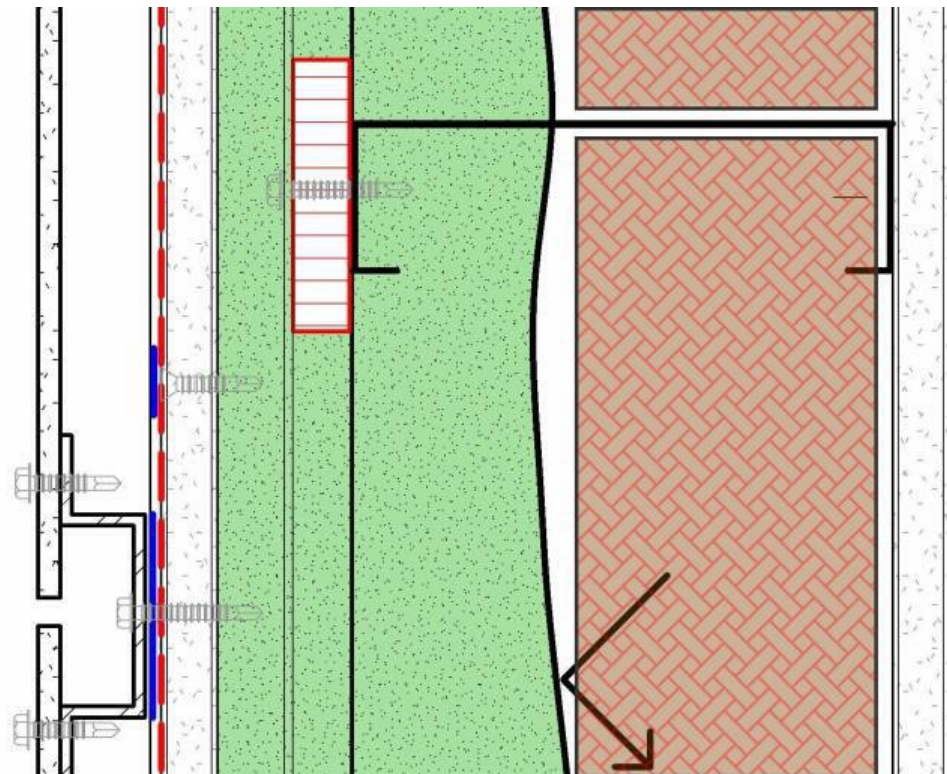
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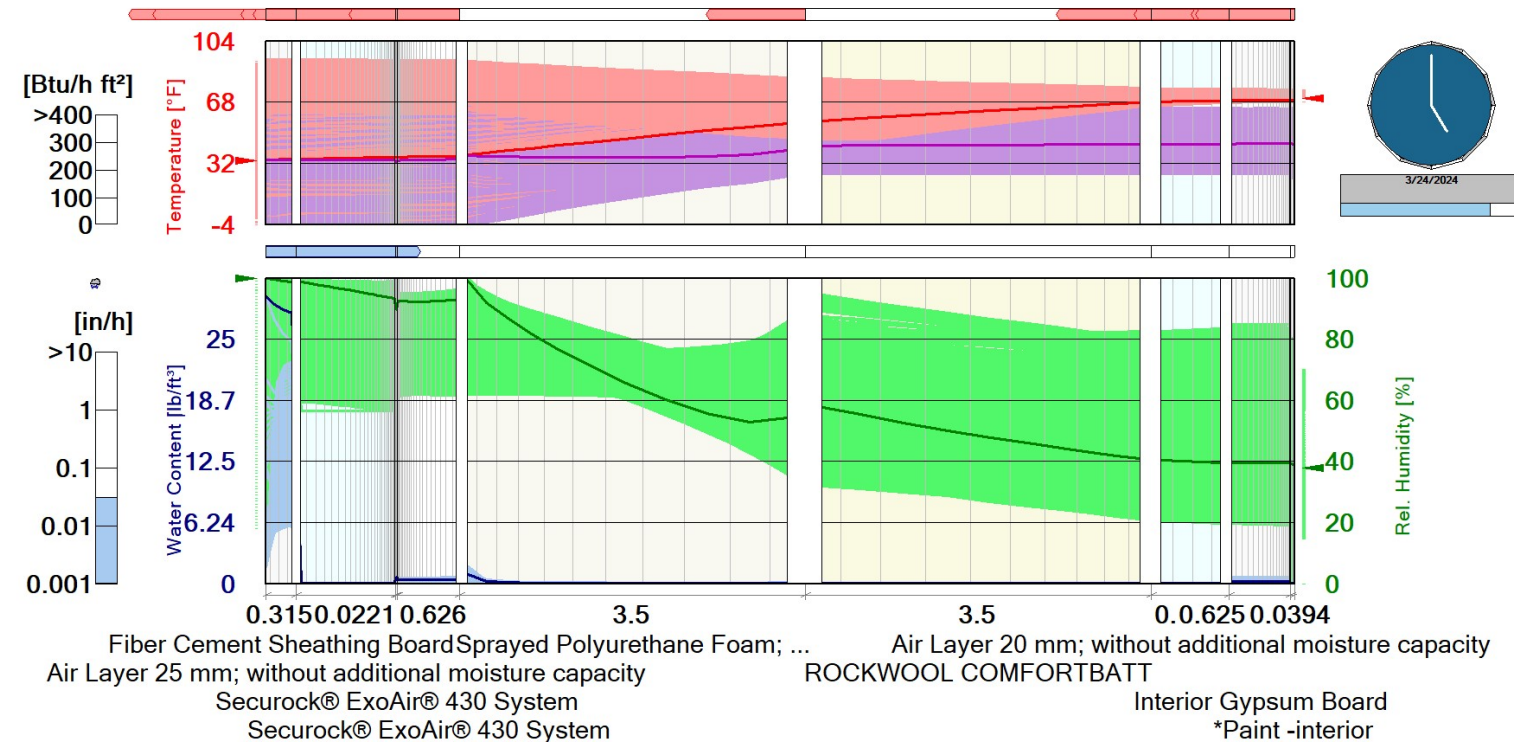
ANALYSIS OF (HP) BACK-LATTICE W/ ALSO (HP) R15 BATT - WUFI ANALYSIS FOR DSS-PHILLY, BY VERDE, 6/18/2021

CLIMATE ZONE 5A (PITTSBURG): MOISTURE DOES NOT ACCUMULATE OVER TIME IN ANY LAYER OF THE ASSEMBLY DUE TO DRYING OF THE ASSEMBLY. DURING TIMES OF HIGH EXTERIOR HUMIDITY AND LOW INTERIOR HUMIDITY, THE DEWPOINT AND THE TEMPERATURE OCCUR AT THE SAME TIME IN THE SPF LAYER, INDICATING CONDENSATION IS LIKELY FROM JANUARY THROUGH MARCH. THE MODEL INDICATES THIS CONDENSATION WOULD OCCUR WHERE THE SPF TOUCHES THE SHEATHING LAYER, WHICH IS NOT THE LOCATION OF THE PRINCIPAL ATTACHMENT OF THE SHEATHING TO THE RAIL SYSTEM. IN BACK-LATTICE, THE ATTACHMENT OCCURS AT THE FACE OF THE SHEATHING AND AT THE INBOARD FACE OF THE J-BACK FURRING. THEREFORE, FREEZE/THAW CONDITIONS ARE NOT PREDICTED TO OCCUR AT THE LOCATION OF THE PRINCIPAL STRUCTURAL CONNECTIONS.

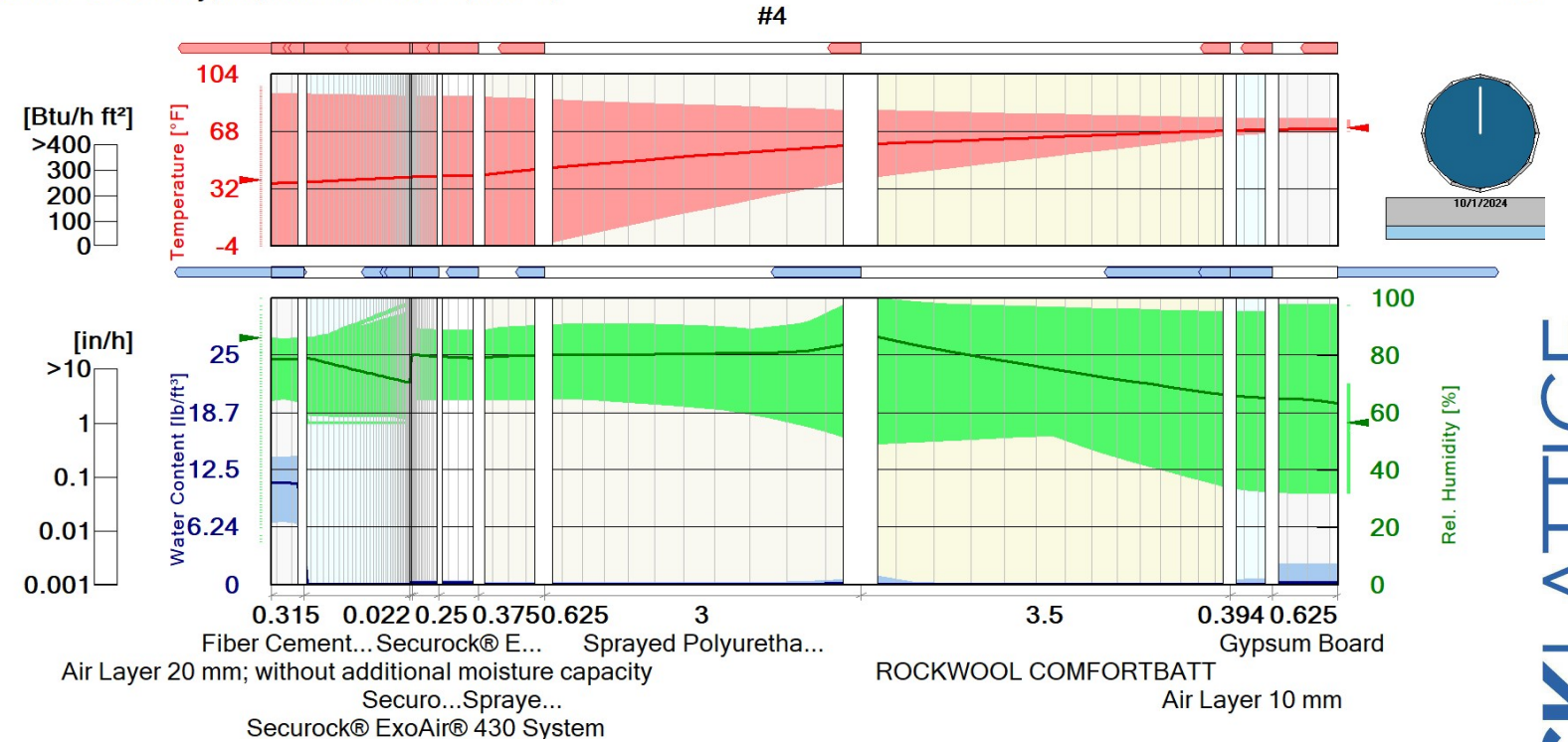
CLIMATE ZONE 6A (GREEN BAY): DURING TIMES OF HIGH EXTERIOR HUMIDITY AND LOW INTERIOR HUMIDITY, THE DEWPOINT AND THE TEMPERATURE OCCUR AT THE SAME TIME AT THE OUTBOARD FACE OF THE SHEATHING, INDICATING CONDENSATION IS LIKELY FROM NOVEMBER TO APRIL. THIS IS TRUE WHEN THE TEMPERATURES DROP BELOW FREEZING AT NIGHT. AS WITH HOUSTON, PROVISIONS SHOULD BE MADE TO DRAIN THE AIR CAVITY OF MOISTURE. ALSO NOTE THAT ALL FASTENERS HAVE FLUID-APPLIED/SEALANT OR SELF-SEALING FLASHING TAPE PROTECTING THE PENETRATION OF THE SHEATHING. THIS REDUCES THE LIKELIHOOD OF THE MOISTURE PENETRATING THE SHEATHING ITSELF. IN ADDITION, CONDENSATION IS NOT PREDICTED TO OCCUR IN WINTER. THERE IS NO ACCUMULATION OF MOISTURE IN THE SHEATHING LAYER AFTER 3 YEARS OF PERFORMANCE.



WUFI® Animation10
Location: Pittsburgh, PA; cold year; 0.0 °F;



Location: Green Bay, WI; ASHRAE Year 1; 0.0 °F;



BKL DETAIL GUIDE

BKL, WUFI, ZONE 5A, W/ R-15 SUPERINSULATE

1/2/2023

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