



THERMASTEELTM

ADVANCED PANEL SYSTEM

2025 TYPICAL
CONNECTION DETAILS
www.thermasteelinc.com/resources



Connection Detail Chapters

1. Basic Panels
2. Below Grade
3. Floor Connections
4. Floor Design
5. Panel Hold Downs and Track Connections
6. Headers/Sills
7. Panel To Panel Connections
8. Roof Connections
9. Special Panels
10. Connections To Other Building Systems
11. Miscellaneous
12. Field Modifications

Basic Panels **11**

| | | |
|--------|--|----|
| BP-001 | Typical Wall Panel Layout-Exploded View_____ | 12 |
| BP-002 | Typical Wall Panel with Openings-Exploded View_____ | 13 |
| BP-003 | 16" O.C. Wall Panel_____ | 14 |
| BP-004 | 24" O.C. Wall Panel_____ | 15 |
| BP-005 | Window Opening Wall Panel_____ | 16 |
| BP-006 | Door Opening Wall Panel_____ | 17 |
| BP-007 | Standard 3 1/2" Panel Dimensions_____ | 18 |
| BP-008 | Standard 5 1/2" Panel Dimensions_____ | 19 |
| BP-009 | Standard 7 1/2" Panel Dimensions_____ | 20 |
| BP-010 | Multi Level Wall Panel Connection Section-Detail _____ | 21 |
| BP-011 | Multi Level Wall Panel Connection Section-Detail_____ | 22 |
| BP-012 | Beam Pocket Wall Panel_____ | 23 |
| BP-013 | Beam Pocket Wall Panel - Metal Specs and Construction Details_____ | 24 |

Below Grade **25**

| | | |
|--------|--|----|
| BG-001 | C600 Panel Detail_____ | 26 |
| BG-002 | Schematic Calculation Model_____ | 27 |
| BG-003 | Foundation Wall With 1st Floor Joist Connection_____ | 28 |
| BG-004 | Foundation Wall with Hydraulic Insulation_____ | 29 |

| | | |
|--------|---------------------------------------|----|
| BG-005 | Typical Below Grade Wall Section_____ | 30 |
|--------|---------------------------------------|----|

| | |
|--------------------------|-----------|
| Floor Connections | 31 |
|--------------------------|-----------|

| | | |
|--------|--|----|
| FC-001 | Typical Balloon Framing Wood Truss Connection to A Panel-Section View_____ | 32 |
| FC-002 | Typical Concrete Floor to Panel Connection with Slip Track-Section View_____ | 33 |
| FC-003 | Typical Multi-Level Panel to Concrete Floor Connection-Section View_____ | 34 |
| FC-004 | Typical Platform Framing Floor Joist with Insulated Band and Split Track Connection-Section View__ | 35 |
| FC-005 | Typical Platform Framing Wood Floor Truss with Decking Over Wall Panel-Section View_____ | 36 |
| FC-006 | Typical Platform Framing Steel Floor Joist with Decking Over Wall Panel-Section View_____ | 37 |
| FC-007 | Typical Balloon Framing of Dietrich TradeReady Floor System Connection-Section View_____ | 38 |
| FC-008 | Typical Wood Truss to Wall Panel Connection with Hanger_____ | 39 |
| FC-009 | Typical Wood Truss to Wall Panel Connection Without Hanger_____ | 40 |
| FC-010 | Typical Wood Truss to Wall Panel Connection with Ledger_____ | 41 |
| FC-011 | Typical Attachment of Panels to Wood Trusses-Platform Floor System_____ | 42 |
| FC-012 | Typical Attachment of Panels to Wood I-Beams-Platform Floor System_____ | 43 |
| FC-013 | Typical Concrete Hollow Core Floor System Connection-Section View_____ | 44 |
| FC-014 | Typical Concrete F-Panel Floor System Connection with Band Panel-Section View_____ | 45 |
| FC-015 | Typical Concrete F-Panel to Wall Connection-Section View_____ | 46 |
| FC-016 | Alternative A, Concrete F-Panel to Wall Connection-Section View_____ | 47 |
| FC-017 | Alternative B, Concrete F-Panel to Wall Connection-Section View_____ | 48 |

| | | |
|--------|--|----|
| FC-018 | Typical (F-Panel) To Wall Connection Tie Via L-Bolt_____ | 49 |
| FC-019 | Concrete Slab to Wall Connection - High Water Table_____ | 50 |
| FC-020 | Wall Panel as Pour Stop for Concrete Slab_____ | 51 |

Floor Design **52**

| | | |
|--------|-------------------------------------|----|
| FD-001 | F-Panel Detail_____ | 53 |
| FD-002 | Example F-Panel Cross Sections_____ | 54 |

Panel Hold Downs and Track Connections **55**

| | | |
|--------|---|----|
| HD-001 | Typical Hold Down to Foundation Connection_____ | 56 |
| HD-002 | Typical Hold Down to Foundation Connection-Reversed Track_____ | 57 |
| HD-003 | Typical Hold Down to Foundation Connection-Via Strap_____ | 58 |
| HD-004 | Typical Bottom Track Connection to Concrete Slab_____ | 59 |
| HD-005 | Typical Bottom Track Connection to Wood Floor System_____ | 60 |
| HD-006 | Typical Bottom Track Connection for Shear and Load Bearing Walls_____ | 61 |
| HD-007 | Typical Bottom Track Connection for Shear and Load Bearing Walls_____ | 62 |
| HD-008 | Typical Top Track Connection for Shear and Load Bearing Walls_____ | 63 |
| HD-009 | Typical Top Slip Track Connection to Pre-Stressed Concrete Planks with Camber_____ | 64 |
| HD-010 | Typical Top Slip Track Connection to Pre-Stressed Concrete Planks with Camber-Section View_____ | 65 |
| HD-011 | Typical Interior Track Connection to Overlapping Partitions_____ | 66 |

| | | |
|--------|--|----|
| HD-012 | Typical Interior Track Connection to Overlapping Partitions on A Non-Load Bearing Wall | 67 |
| HD-013 | Typical Insulation Band Connection with Strap | 68 |
| HD-014 | Typical Track Connection to Steel and Wood Beams | 69 |
| HD-015 | Typical Top and Bottom Panel to Split Track Connection | 70 |
| HD-016 | Typical Top and Bottom Panel to Split Track Connection-Alternative A | 71 |
| HD-017 | Typical Top and Bottom Panel to Split Track Connection-Alternative B | 72 |

Headers/Sills 73

| | | |
|--------|--|----|
| HS-001 | Typical Header/Boxed Beam | 74 |
| HS-002 | Typical Exploded Header with Stiffeners | 75 |
| HS-003 | Typical Bottom Chord Structural Combination Header | 76 |
| HS-004 | Typical Top Chord Structural Combination Header | 77 |
| HS-005 | Combo Header Panels Detail | 78 |
| HS-006 | Header Panel Detail | 79 |
| HS-007 | Sill Panel Detail | 80 |
| HS-008 | Typical Connection of Header/Sill to Wall Panel | 81 |
| HS-009 | Typical Garage/Large Opening Header | 82 |
| HS-010 | Typical Header/Sill/Wall Connections | 83 |

Panel To Panel Connections 84

| | | |
|--------|--|----|
| PP-001 | Typical Multi-Level Panel Connection-Section View_____ | 85 |
| PP-002 | Typical Interior Attachment Plate Connection_____ | 86 |
| PP-003 | Typical Staggered Panel/Multi-Panel Connection_____ | 87 |
| PP-004 | Typical Panel to Panel No Lap Corner Connection_____ | 88 |
| PP-005 | Typical Panel to Panel 90° Corner Connection_____ | 89 |
| PP-006 | Typical Panel to Panel Joint Connection_____ | 90 |
| PP-007 | Typical Wall Panel to Ceiling Panel Connection_____ | 91 |
| PP-008 | Typical Panel to Panel “T” Connection_____ | 92 |
| PP-009 | Typical Panel to Panel Angled Corner Connection_____ | 93 |

Roof Connections 94

| | | |
|--------|---|-----|
| RC-001 | Standard Roof Panel Detail_____ | 95 |
| RC-002 | Typical Roof Panel Connection to Wall System-Section View_____ | 96 |
| RC-003 | Typical Roof Panel Connection at Purlin/Rafter-Section View_____ | 97 |
| RC-004 | Typical Flush Roof Panel Connection at Gable Ends-Section View_____ | 98 |
| RC-005 | Typical Roof Panel Connection at Ridge Beam-Section View_____ | 99 |
| RC-006 | Typical Ridge Cap Connection-Section View_____ | 100 |
| RC-007 | Typical Roof Truss/Simpson Strap to Panel Connection_____ | 101 |
| RC-008 | Typical Metal/Joist to Wall and Roof Panel Connection-Section View_____ | 102 |

| | | |
|--------|--|-----|
| RC-009 | Typical Overhang of Roof Panel Connection-Section View_____ | 103 |
| RC-010 | Typical Roof Panel to Truss Connection-Section View_____ | 104 |
| RC-011 | Typical Roof Panel to Metal Truss Connection-Section View_____ | 105 |
| RC-012 | Typical Wall to Flush Roof Panel Connection-Section View_____ | 106 |
| RC-013 | Typical Panel Connection at Gable End with Overhang-Section View_____ | 107 |
| RC-014 | Typical Roof Panel w Overhang & Reinforced Top Plate Connection, High Wind Speed-Section View ____ | 108 |
| RC-015 | Typical Flush Roof Panel and Reinforced Top Plate Connection, High Wind Speed-Section View _____ | 109 |
| RC-016 | Typical Roof Panel Connection to Wall Over Boxed Beam-Section View_____ | 110 |
| RC-017 | Typical Roof Panel to Panel Connection at Purlin-Section View_____ | 111 |
| RC-018 | Typical Roof Panel at Eave/Peak End Connections-Section Views_____ | 112 |
| RC-019 | Typical Roof Truss to Wall Panel Connection_____ | 113 |

Special Panels **114**

| | | |
|--------|--|-----|
| SP-001 | Horizontal Bevel Panel Detail_____ | 115 |
| SP-002 | Vertical Bevel Panel Detail_____ | 116 |
| SP-003 | Structural Overhang Panel Detail_____ | 117 |
| SP-004 | Hurricane Panel Detail_____ | 118 |
| SP-005 | Ceiling Panel Detail_____ | 119 |
| SP-006 | Typical Ceiling Panel Connection-Section View_____ | 120 |
| SP-007 | Typical STC Rated Assemblies_____ | 121 |

| | | |
|--------|---------------------------------------|-----|
| SP-008 | Shear Panel Detail (Exploded View) | 122 |
| SP-009 | Reinforced Opening for High Wind Load | 123 |

Connections To Other Building Systems 124

| | | |
|--------|---|-----|
| CB-001 | Typical In-Place Panel to Steel Column Connection-Section View | 125 |
| CB-002 | Typical In-Place to Steel Column Connection, Alternative-Section View | 126 |
| CB-003 | Typical Panel to Steel Column Corner Connection-Section View | 127 |
| CB-004 | Typical Panel to Wood Column Connection-Section View | 128 |
| CB-005 | Typical Panel to Wood Column Corner Connection-Section View | 129 |
| CB-006 | Typical Panel to Intersecting Wood Framing Connection-Section View | 130 |
| CB-007 | Typical Panel to Steel Structure Connection, Industrial Building | 131 |
| CB-008 | Typical Panel Connection to Red Iron Structure-Option 1 | 132 |
| CB-009 | Typical Panel Connection to Red Iron Structure-Option 2 | 133 |
| CB-010 | Typical Multi-Level Panel in A Commercial Application | 134 |
| CB-011 | Typical Purlin to Wall Panel Connection-Section View | 135 |
| CB-012 | Typical Beam Pocket Detail | 136 |
| CB-013 | Typical Roof Truss Pocket Detail | 137 |
| CB-014 | Typical Point Load Connection | 138 |
| CB-015 | Typical Beam to Panel Connection with Strap/Hanger | 139 |
| CB-016 | Typical Top Plate/Beam Over Panel | 140 |

| | | |
|--------|---|-----|
| CB-017 | Typical Panel to Concrete/Brick Connection-Section View_____ | 141 |
| CB-018 | Typical Wall Panel to Concrete Connection-Section View_____ | 142 |
| CB-019 | Typical Attachment of Panels to Floor Trusses - Balloon Floor System_____ | 143 |

Miscellaneous 144

| | | |
|--------|---|-----|
| MS-001 | Typical Roof Covering Applications-Section View_____ | 145 |
| MS-002 | Typical Exterior Cladding Application_____ | 146 |
| MS-003 | Standard Wood Stud Construction, Exterior Wall System, 8 Step Assembly_____ | 147 |
| MS-004 | ThermaSteel 5 1/2" Exterior Wall System, 4 Step Assembly_____ | 148 |
| MS-005 | Shear Wall Cross Strapping Detail_____ | 149 |

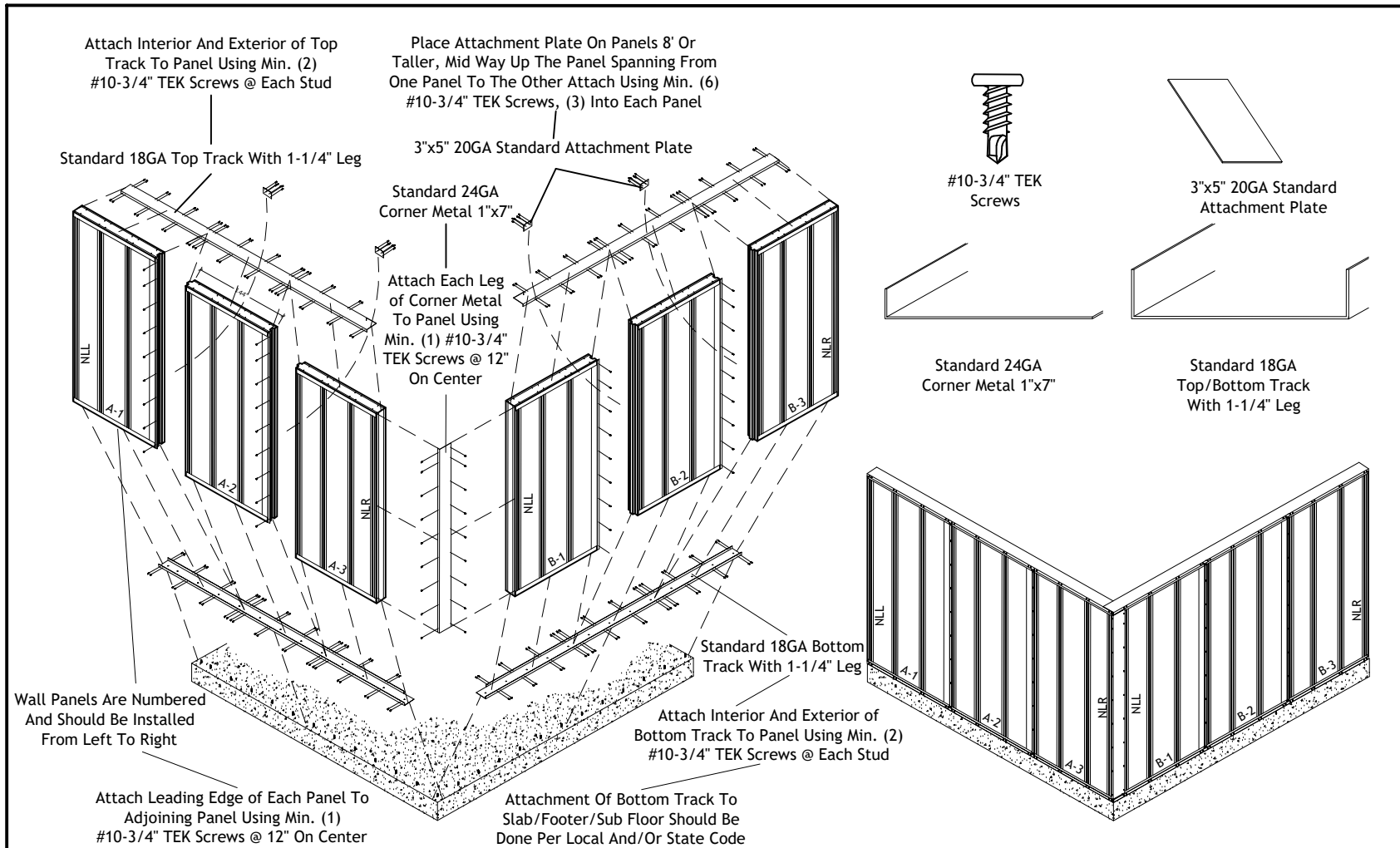
Field Modifications 150


| | | |
|--------|--|-----|
| FM-001 | Typical Field Cut Window with Track_____ | 151 |
| FM-002 | Typical Field Cut Window_____ | 152 |
| FM-003 | Typical Field Cut Door with Track_____ | 153 |
| FM-004 | Typical Field Cut Door with Wood_____ | 154 |
| FM-005 | Typical Electrical Box Installation_____ | 155 |

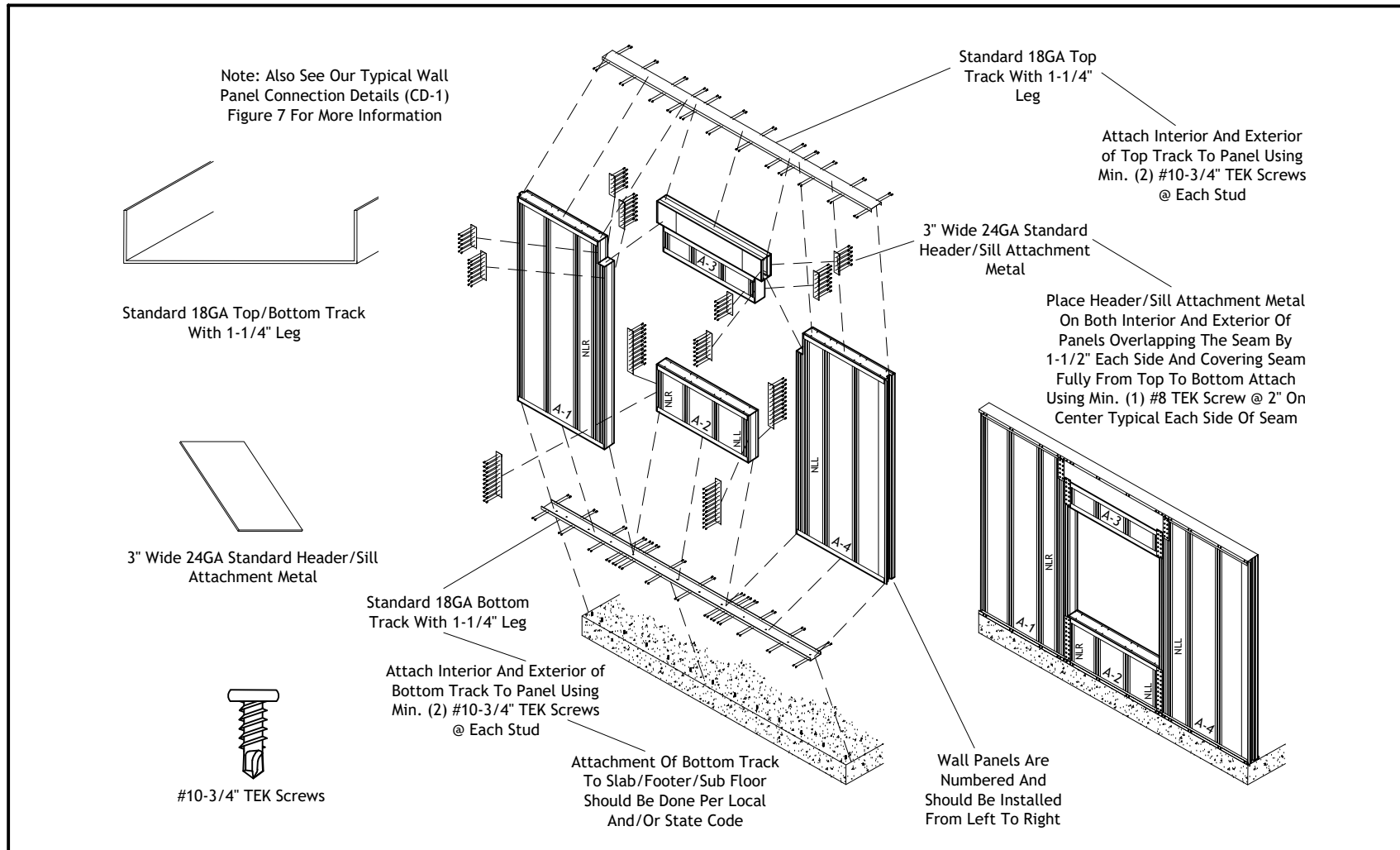
Basic Panels

- BP-001 Typical Wall Panel Layout - Exploded View
- BP-002 Typical Wall Panel With Openings - Exploded View
- BP-003 16" O.C. Wall Panel
- BP-004 24" O.C. Wall Panel
- BP-005 Window Opening Wall Panel
- BP-006 Door Opening Wall Panel
- BP-007 Standard 3 1/2" Panel Dimensions
- BP-008 Standard 5 1/2" Panel Dimensions
- BP-009 Standard 7 1/2" Panel Dimensions
- BP-010 Multi Level Wall Panel Connection Section - Detail 1
- BP-011 Multi Level Wall Panel Connection Section - Detail 2
- BP-012 Beam Pocket Wall Panel
- BP-013 Beam Pocket Wall Panel - Metal Specs and Construction Details

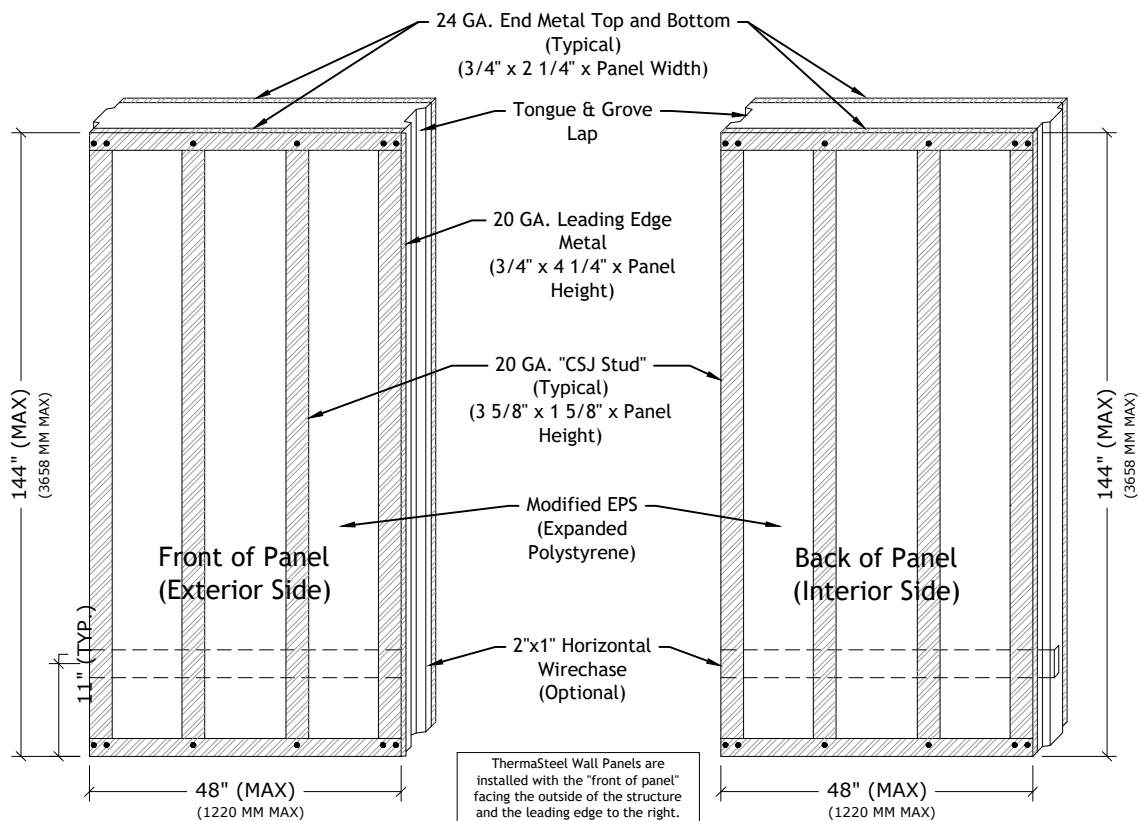
[Back To Connection Detail
Chapters](#)



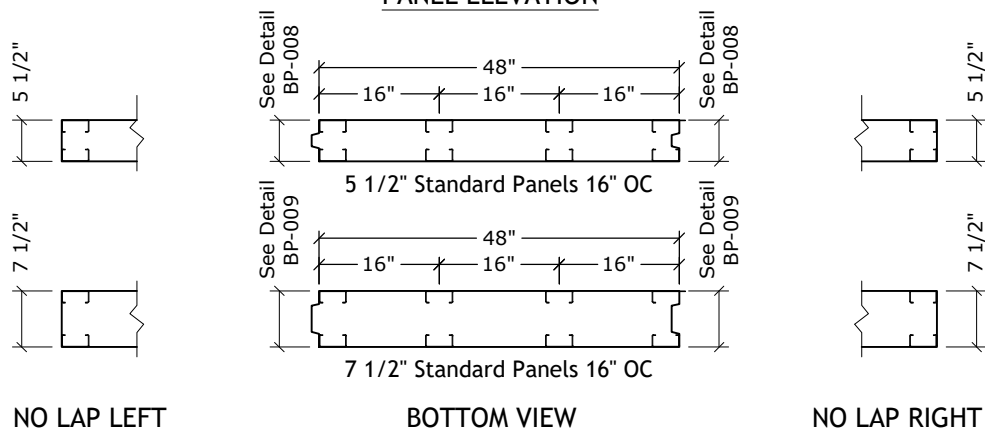
| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Basic Panels | |
| | Typical Wall Panel Layout - Exploded View | |
| | | |
| | | |
| THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000 www.thermasteelinc.com | | Not To Scale Rev: 11/30/2021 Drawing Number BP-001 |



| | | |
|--|--|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Basic Panels | |
| | Typical Wall Panel With Openings - Exploded View | |
| | | |
| THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC | | Not To Scale |
| 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000 | | Rev: 11/30/2021 |
| www.thermasteelinc.com | | Drawing Number |
| | | BP-002 |



PANEL ELEVATION



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



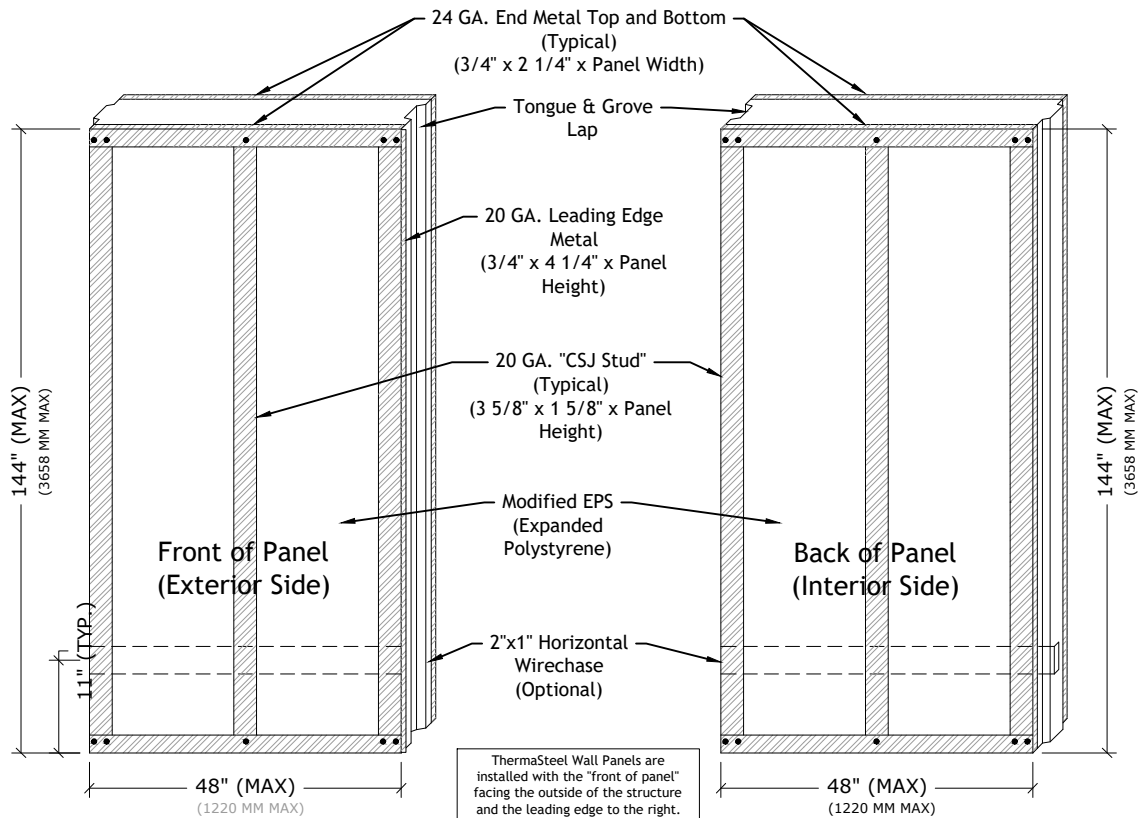
THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Basic Panels

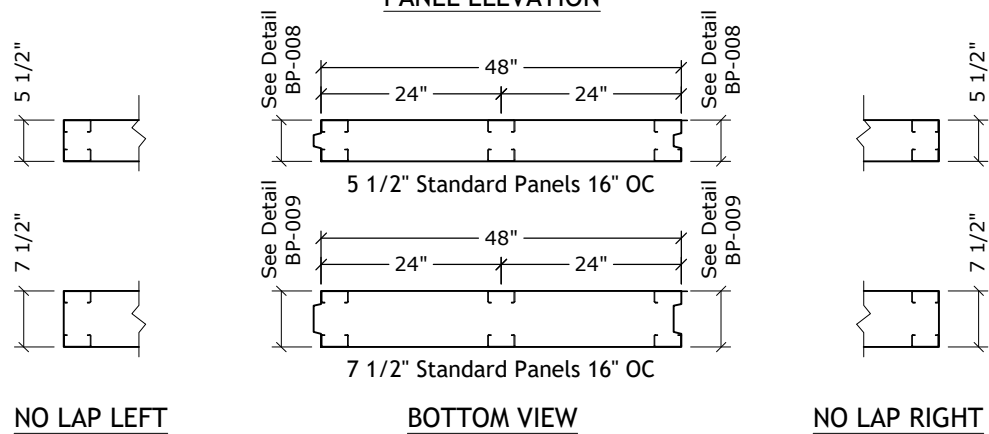
16" O.C. Wall Panel

Not To Scale
Rev: 09/28/2023
Drawing Number
BP-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



PANEL ELEVATION



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



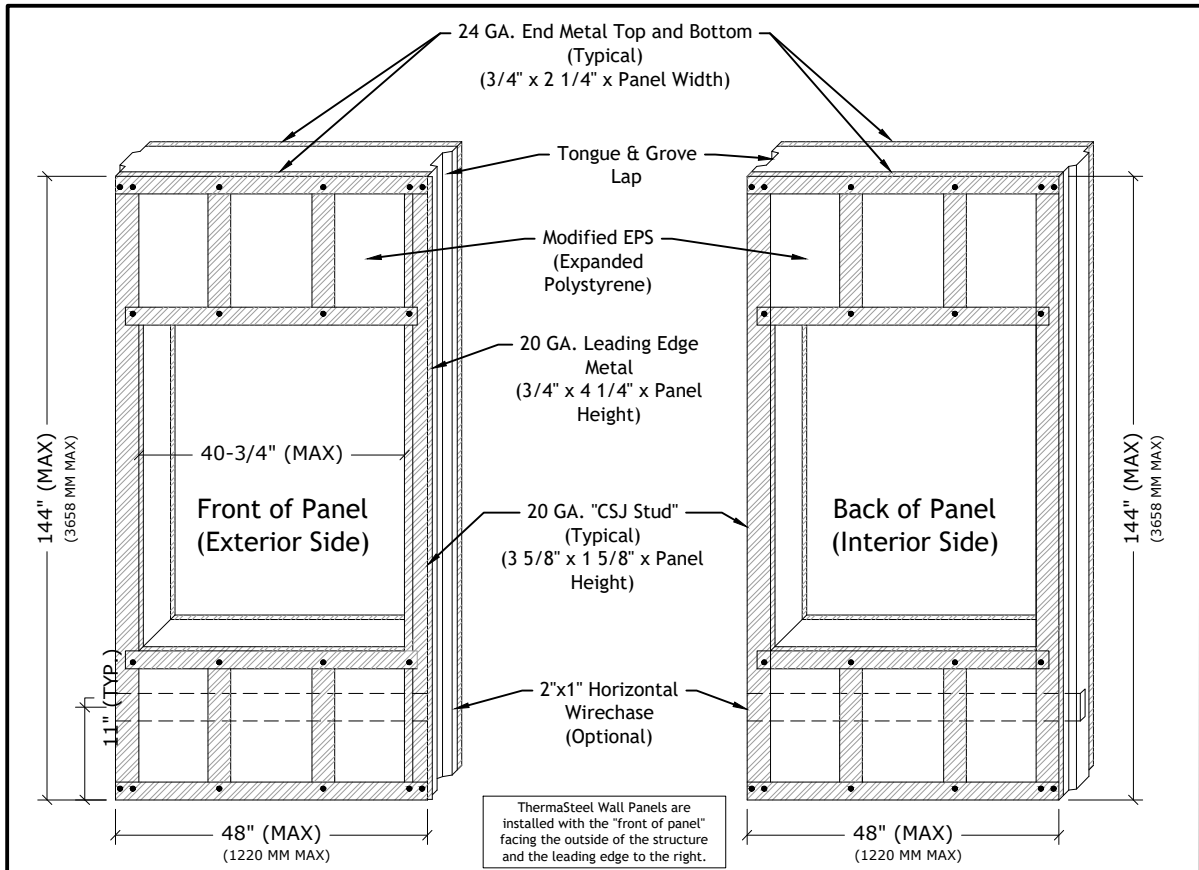
THERMASTEELTM
ADVANCED PANEL SYSTEM

Basic Panels

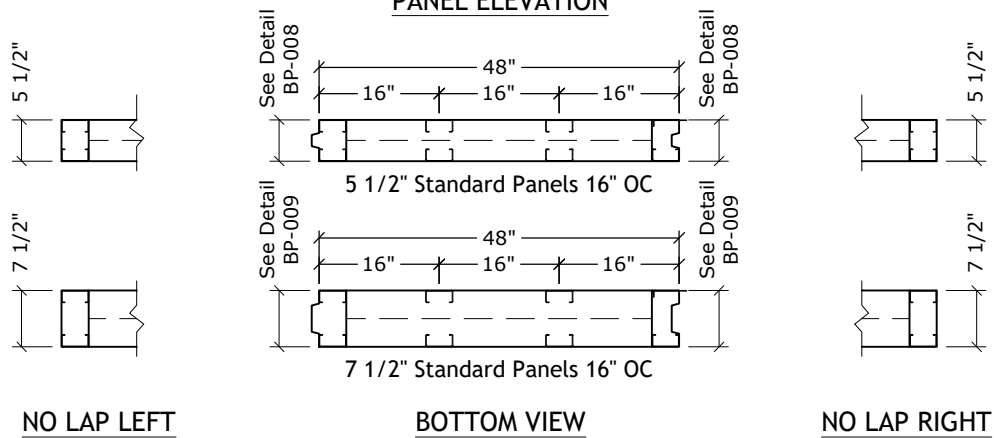
24" O.C. Wall Panel

Not To Scale
Rev: 09/28/2023
Drawing Number
BP-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



PANEL ELEVATION



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



THERMASTEELTM
ADVANCED PANEL SYSTEM

Basic Panels

Window Opening
Wall Panel

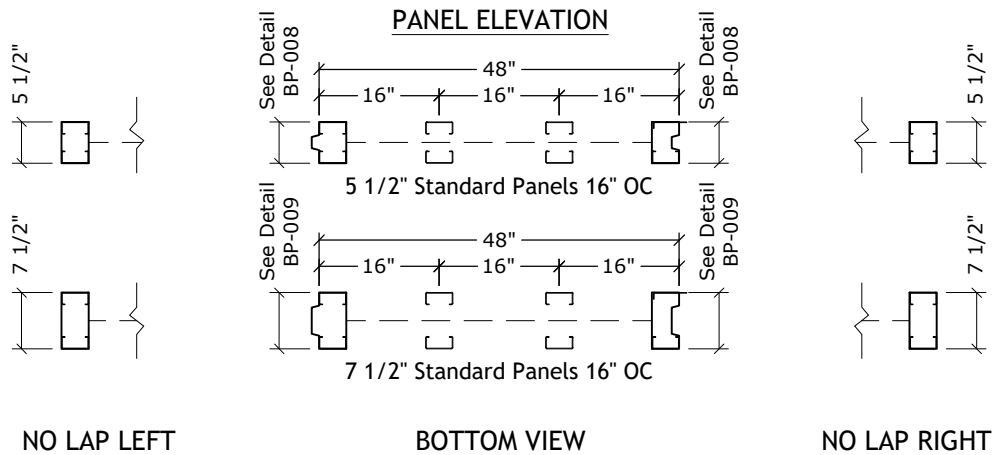
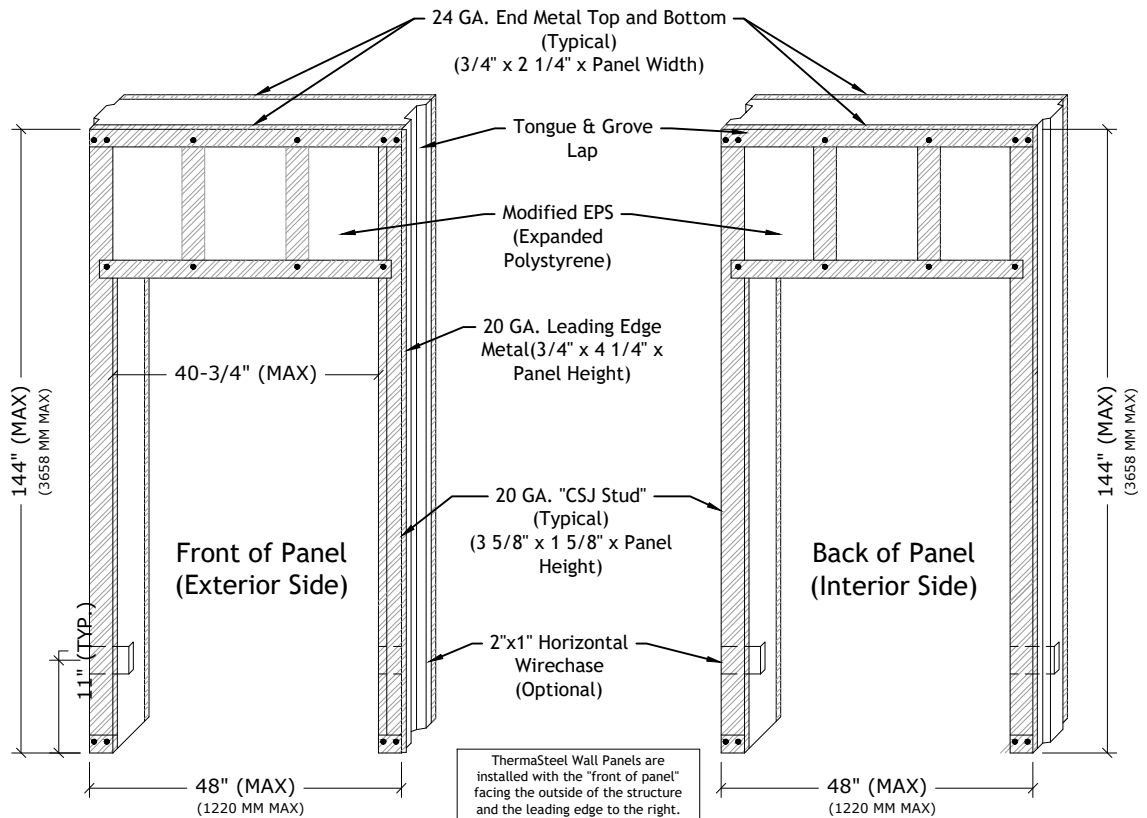
Not To Scale

Rev: 09/28/2023

Drawing Number

BP-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



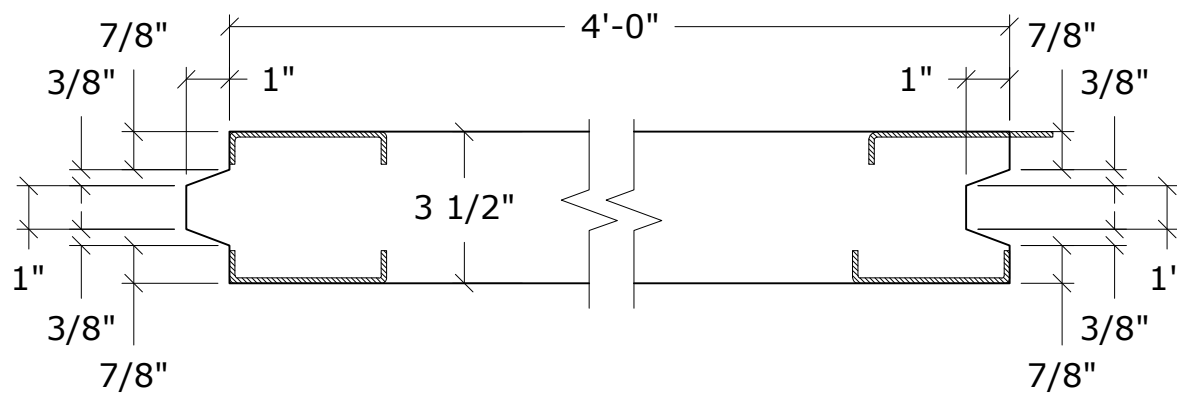
THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Basic Panels

Door Opening
Wall Panel

Not To Scale
Rev: 09/28/2023
Drawing Number
BP-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Maximum Panel Size:
 48" (4'-0") Wide
 144" (12'-0") High



THERMASTEEL™
 ADVANCED PANEL SYSTEM

Basic Panels

Standard 3 1/2" Panel Dimensions

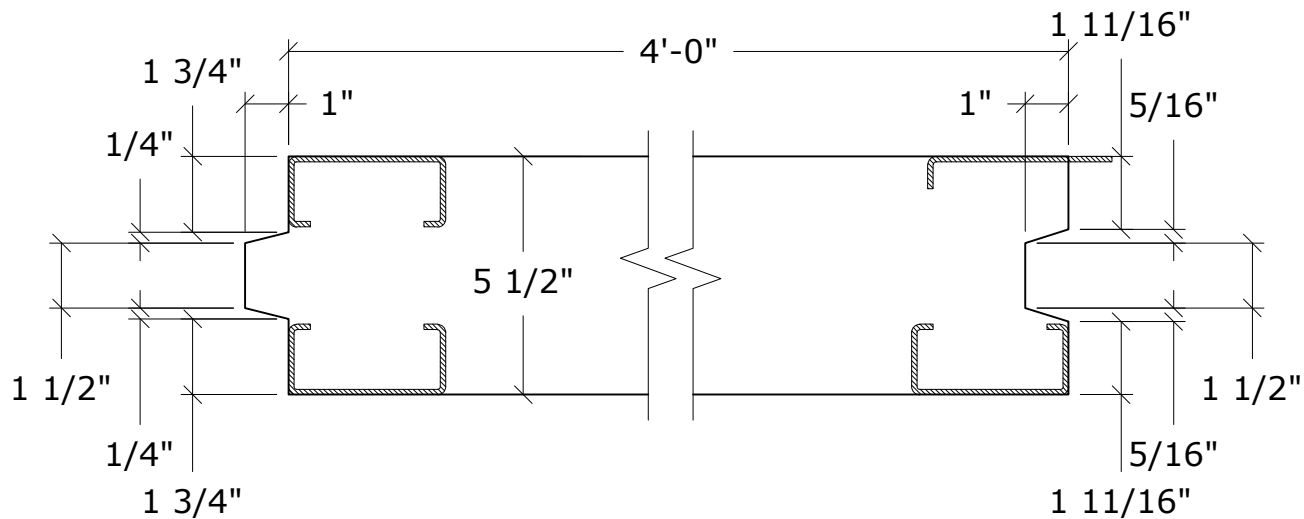
Not To Scale

Rev: 11/09/2023

Drawing Number

BP-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Maximum Panel Size:
 48" (4'-0") Wide
 144" (12'-0") High



THERMASTEEL™
 ADVANCED PANEL SYSTEM

Basic Panels

Standard 5 1/2" Panel Dimensions

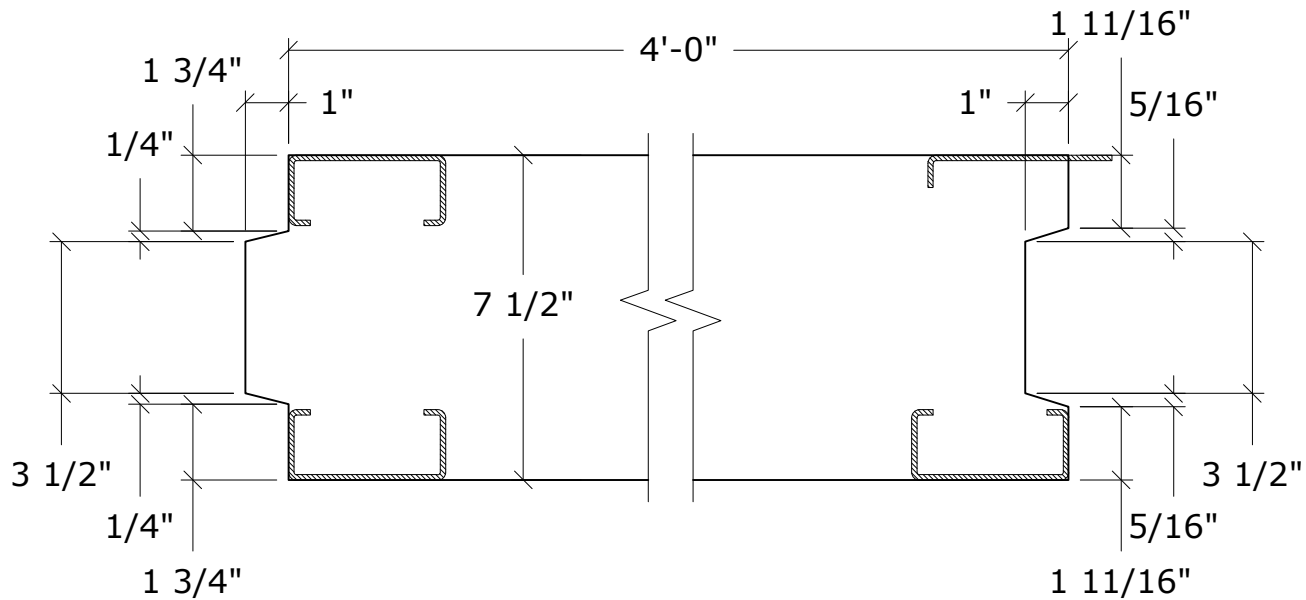
Not To Scale

Rev: 11/09/2023

Drawing Number

BP-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Maximum Panel Size:
48" (4'-0") Wide
144" (12'-0") High



THERMASTEEL™
ADVANCED PANEL SYSTEM

Basic Panels

Standard 7 1/2" Panel Dimensions

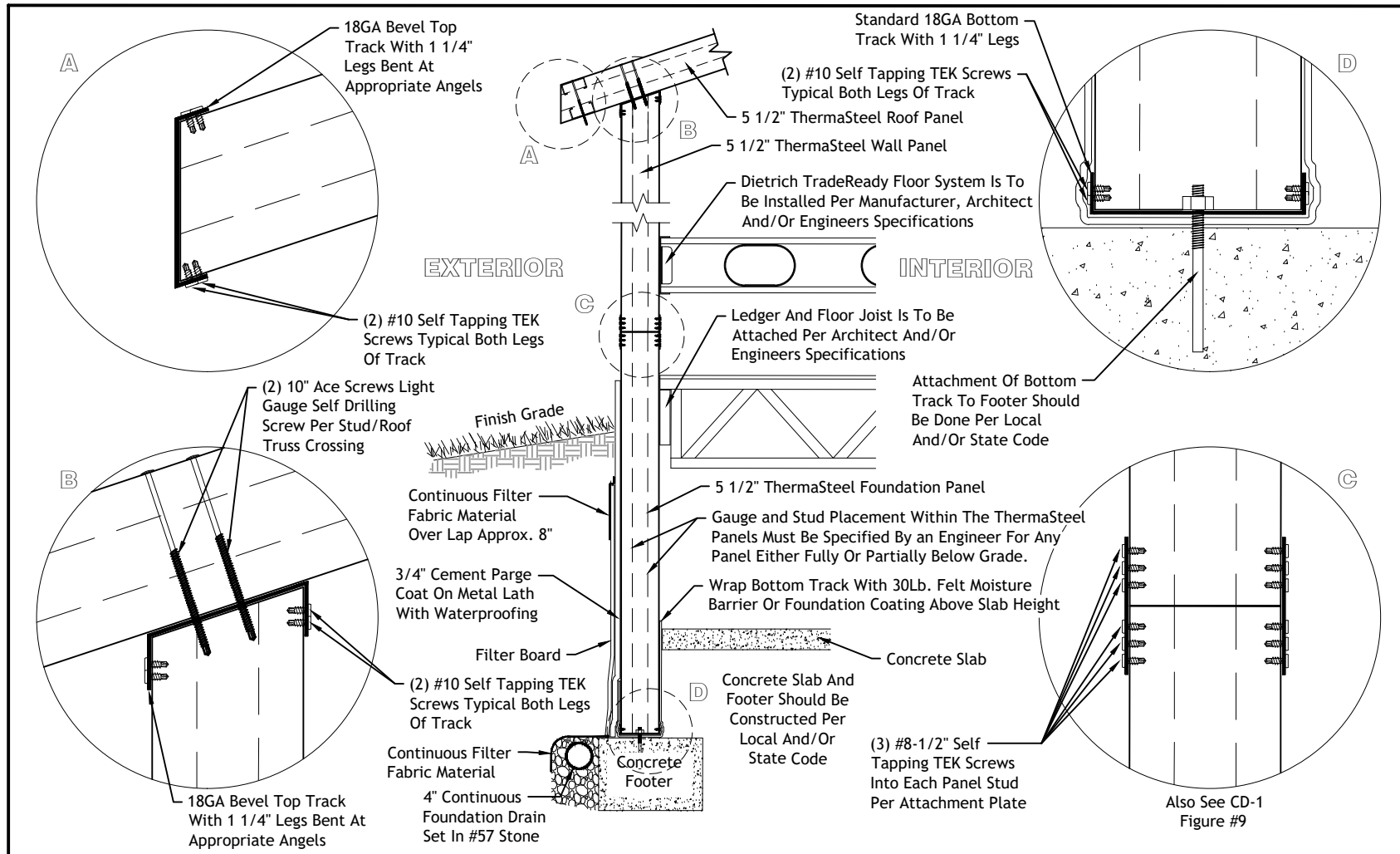
Not To Scale

Rev: 11/09/2023

Drawing Number

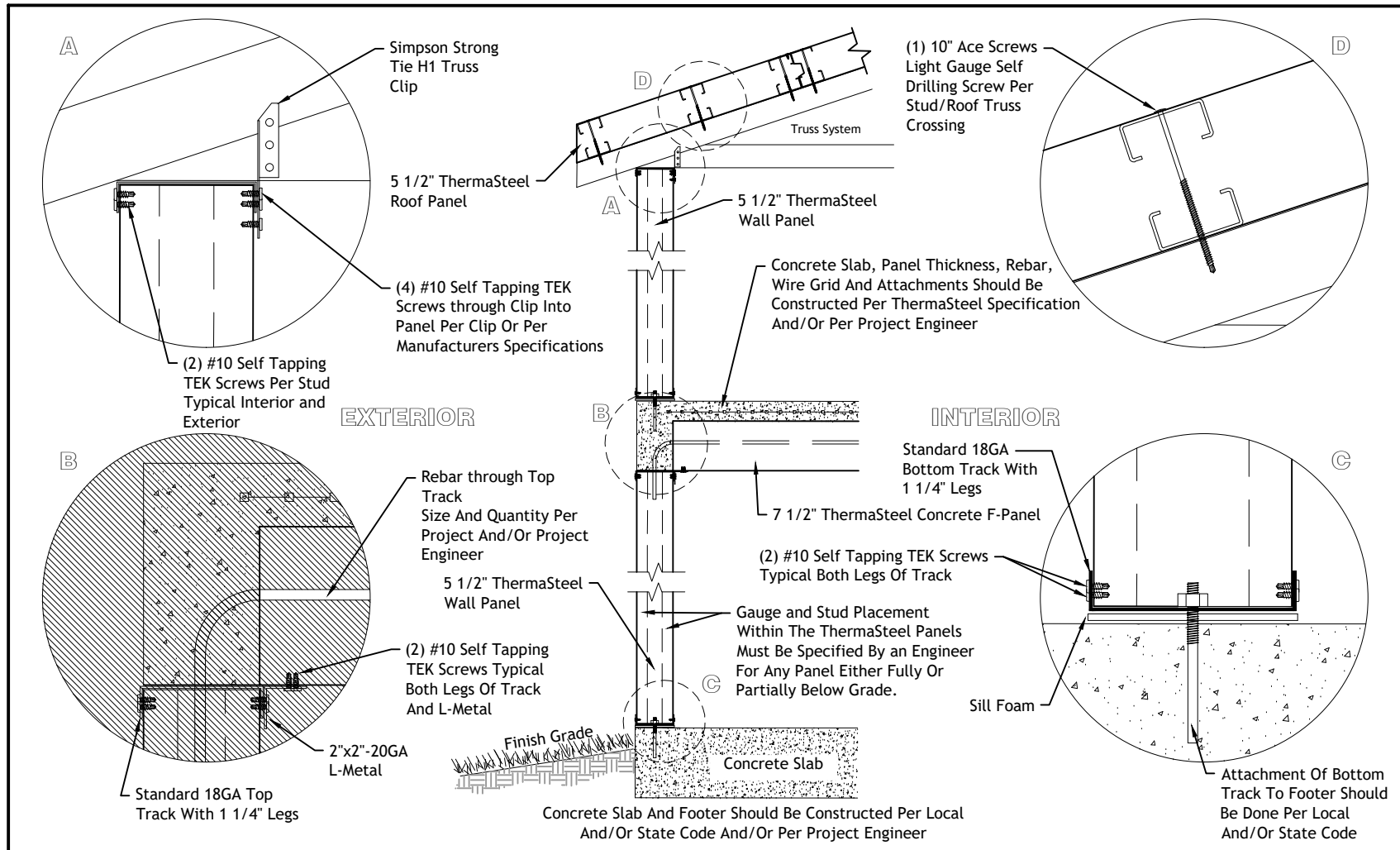
BP-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



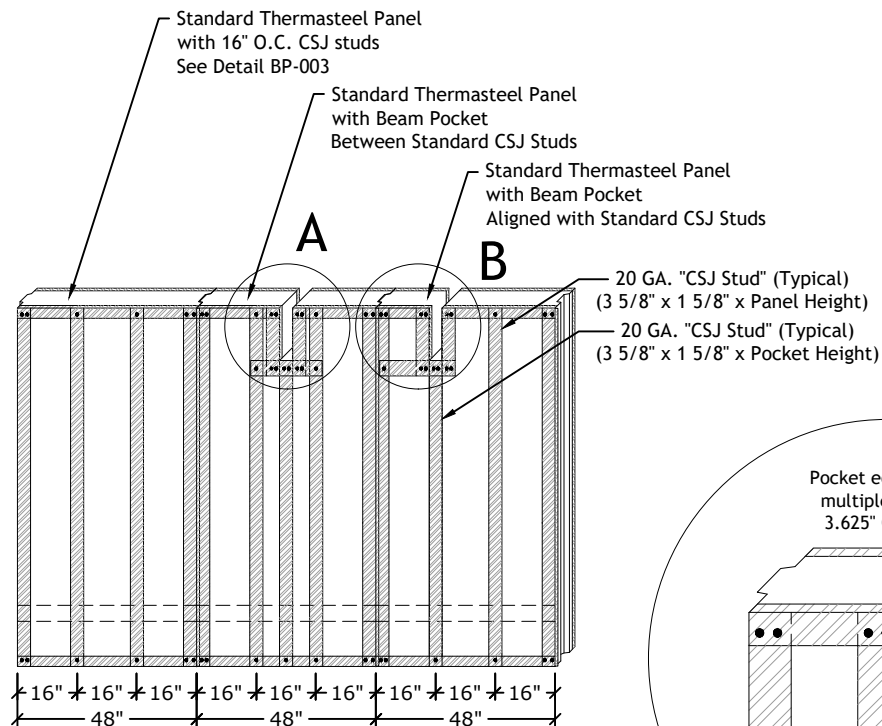
| | | | |
|--|--|--|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Basic Panels Multi Level Wall Panel Connection Section Detail 1 | | Not To Scale |
| | | | Rev: 11/30/2021 |
| | | | Drawing Number |
| | | | BP-010 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

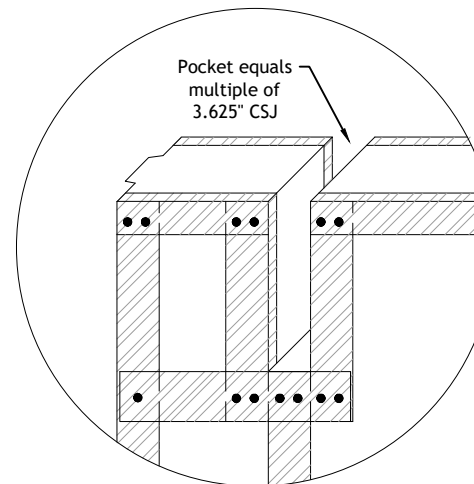
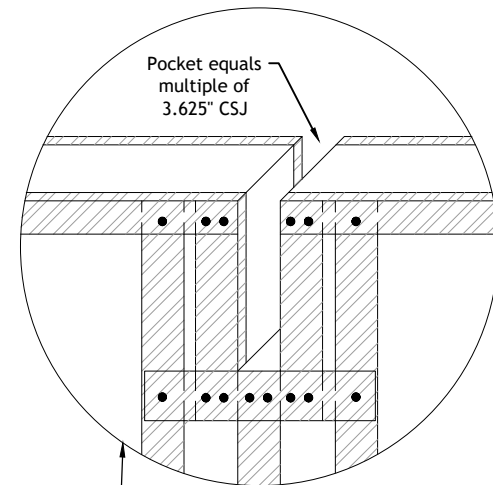


| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Basic Panels | |
| | Multi Level Wall Panel Connection Section | |
| | Detail 2 | |
| | Not To Scale | |
| | Rev: 11/30/2021 | |
| | Drawing Number | |
| | BP-011 | |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Detail A



Detail B

See Drawing BP-013
for additional
pocket construction
information



Basic Panels

Beam Pocket Wall Panel - 2 conditions

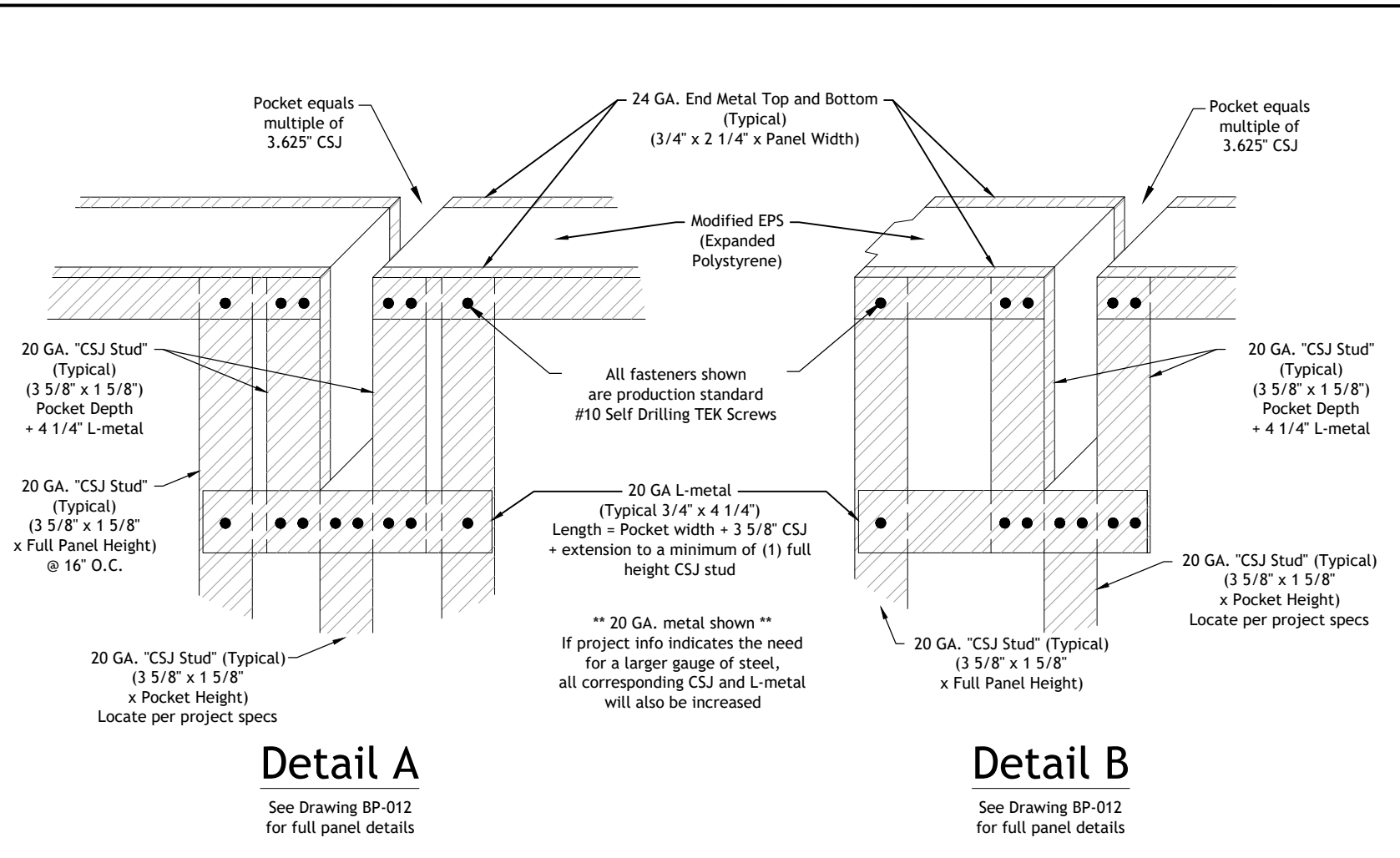
Not To Scale


Rev: 11/08/2024

Drawing Number

BP-012

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|---|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Basic Panels | |
| | Metal Specs and Construction Details | |
| | - Beam Pocket Wall Panel | |
| | | Not To Scale Rev: 11/08/2024 Drawing Number BP-013 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Below Grade

BG-001 C600 Panel Detail

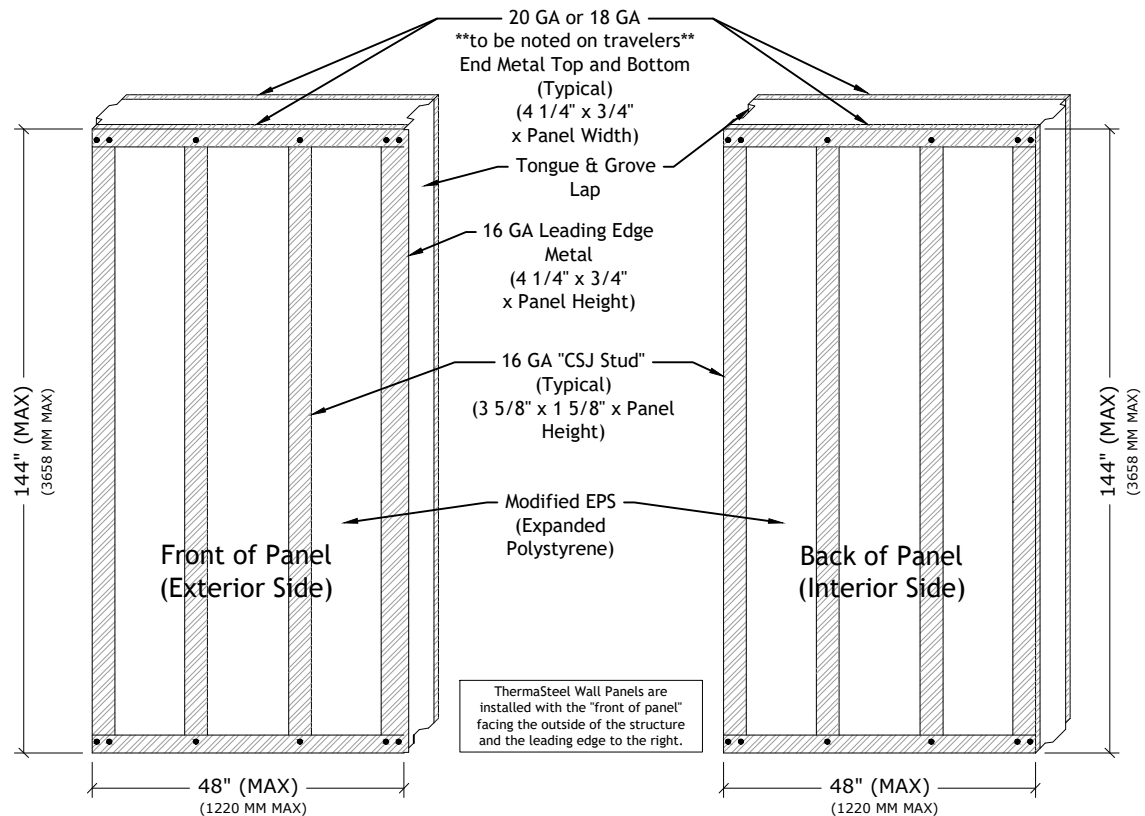
BG-002 Schematic Calculation Model

BG-003 Foundation Wall With 1st Floor Joist Connection

BG-004 Foundation Wall With Hydraulic Insulation

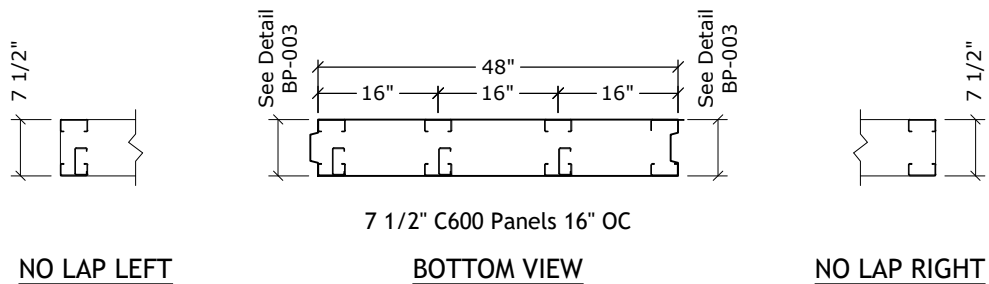
BG-005 Typical Below Grade Wall Section

[Back To Connection Detail
Chapters](#)



PANEL ELEVATION

All Rotated Studs Are To Be The Same Gauge As Specified For
 The Panel Construction Material Unless Otherwise Noted



FOR ALL PANEL THICKNESSES
 (ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)
 (WIRE CHASES NOT AVAILABLE ON THIS PANEL)



THERMASTEELTM
 ADVANCED PANEL SYSTEM

Below Grade

C600 Panel Detail

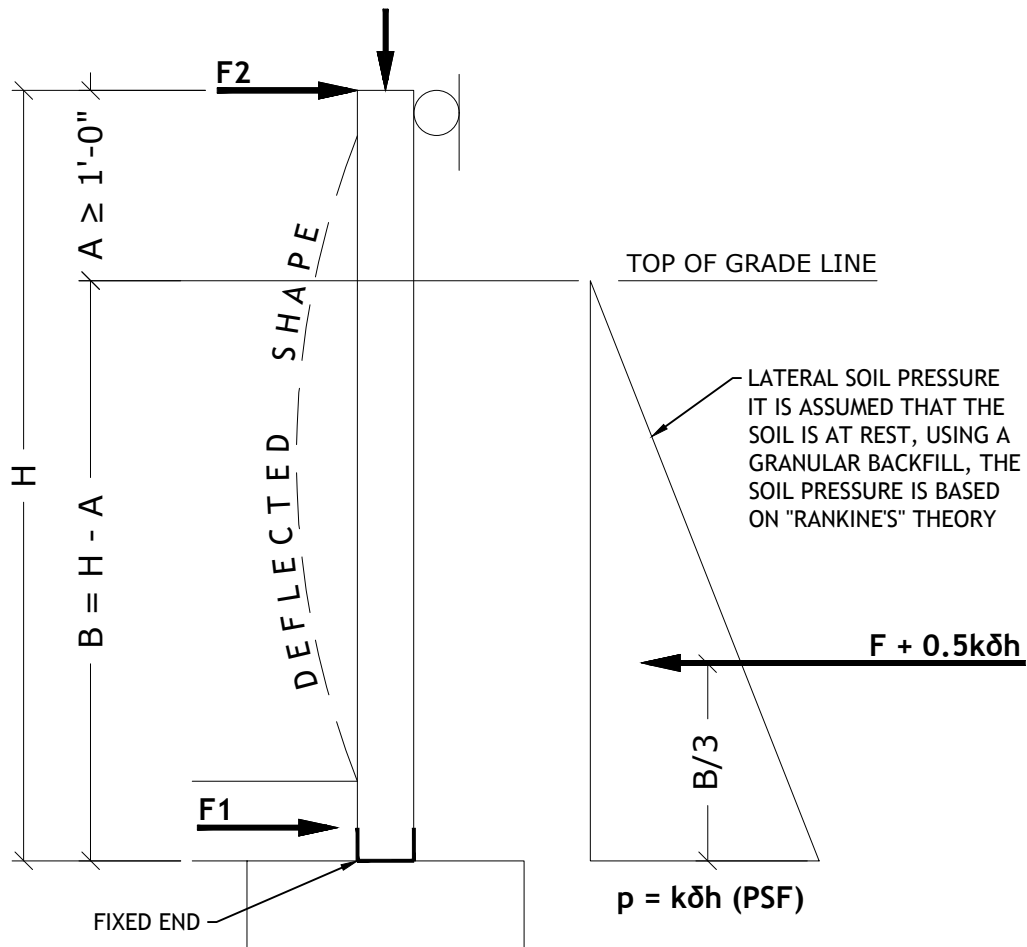
Not To Scale

Rev: 8/21/2023

Drawing Number

BG-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



$$p = k\delta h ; K = 0.5 ; \delta = 120\text{PCF}$$



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Below Grade

Schematic
Calculation Model

Not To Scale

Rev: 8/18/2023

Drawing Number

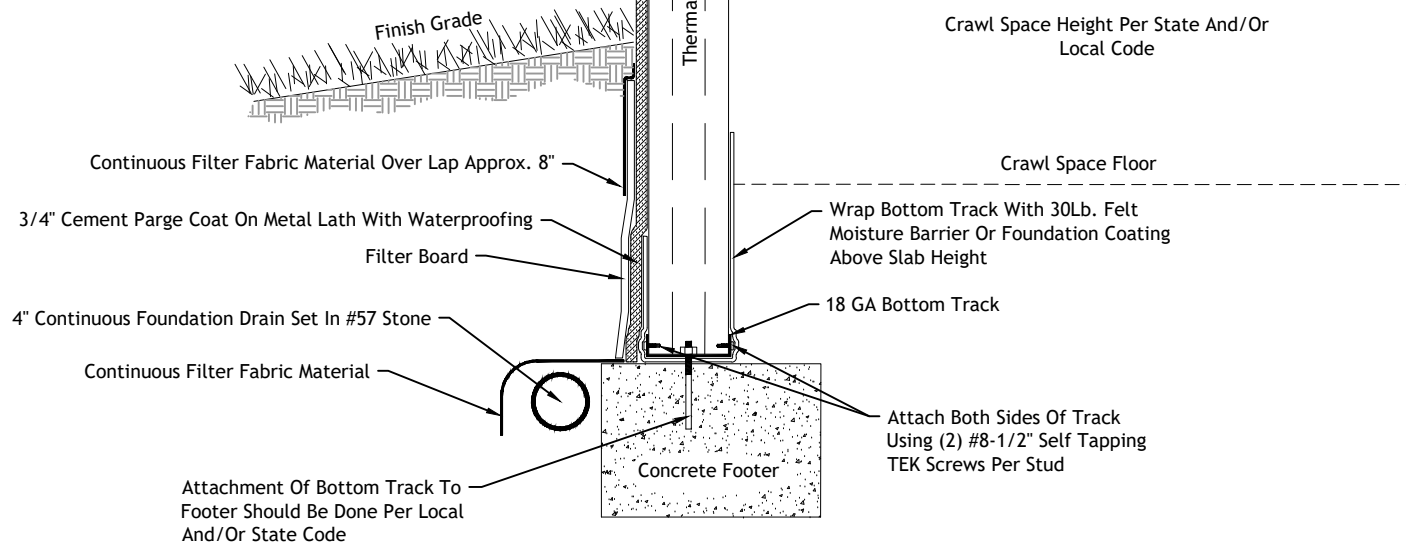
BG-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Gauge and Stud Placement Within The ThermaSteel Panels Must Be Specified By an Engineer For Any Panel Either Fully Or Partially Below Grade.

EXTERIOR

INTERIOR



Note: Gravel And Back Fill Requirements Are To Be Determined By State And/Or Local Code, Project Architect, Structural Engineer And/Or Engineer Of Record



THERMASTEEL™
ADVANCED PANEL SYSTEM

Below Grade

Foundation Wall With 1st Floor Joist Connection

Not To Scale

Rev: 8/18/2023

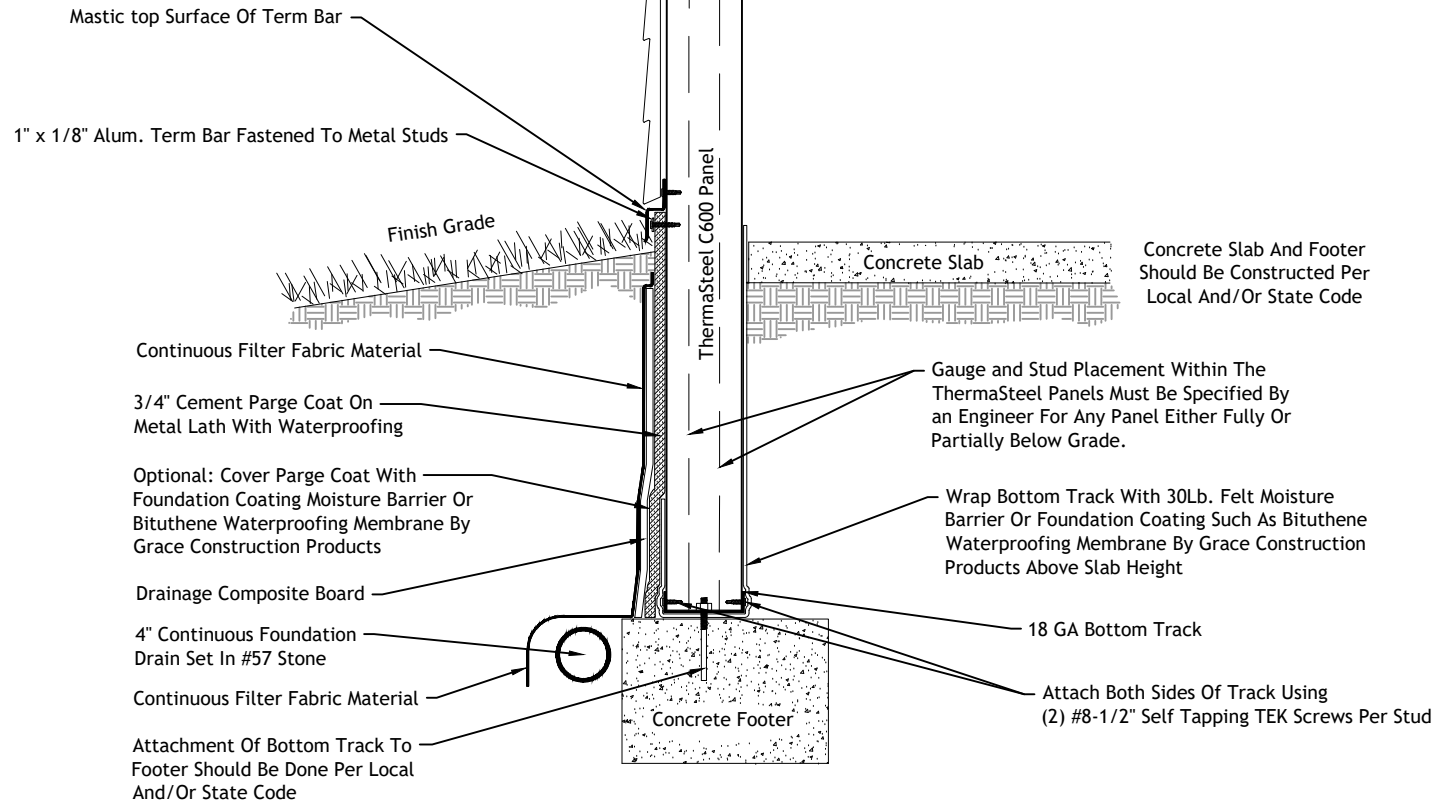
Drawing Number

BG-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

EXTERIOR

INTERIOR



Note: Gravel And Back Fill Requirements Are To Be Determined By State And/Or Local Code, Project Architect, Structural Engineer And/Or Engineer Of Record



THERMASTEEL™
ADVANCED PANEL SYSTEM

Below Grade

Foundation Wall With Hydraulic Insulation

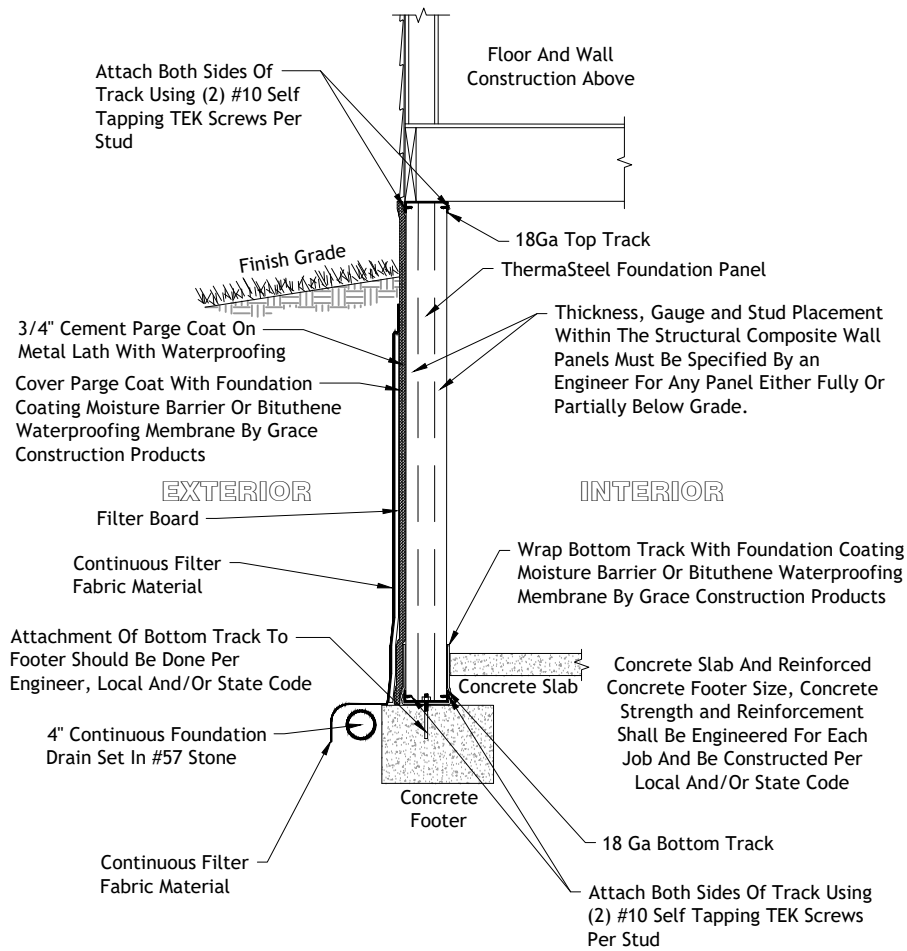
Not To Scale

Rev: 8/18/2023

Drawing Number

BG-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Grace Waterproofing Systems

Bituthene® 3000/3000 HC

High performance waterproofing membrane for sub-structures and flat deck applications

Description

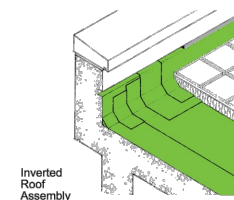
Bituthene® 3000/3000 HC is a high performance, cold applied, flexible, preformed waterproof membrane combining a special high performance cross-laminated, HDPE carrier film with a unique self-adhesive rubber bitumen compound.

Applications

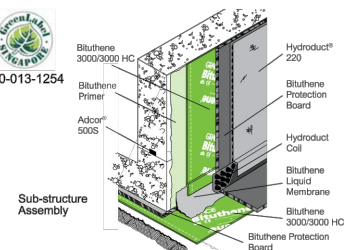
- Basement
- Sub-structures
- Flat decks
- Roof assemblies
- Elevated or grade level podiums
- Plaza decks / Roof gardens / Terraces

Advantages

| Features | Advantages |
|--|--|
| Waterproof | • High hydrostatic head resistance |
| High density cross laminated polyethylene film | • Provides dimensional stability |
| Single layer | • Provides puncture resistance |
| Gas Resistant | • Simple, reliable, low labour cost with the benefit of site programmed installation |
| Cold applied | • Methane, carbon dioxide and radon gas protection in excess of the standard membrane requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide) |
| Self-adhesive rubberised asphalt | • No flame hazard |
| Factory controlled thickness | • No heating required |
| Chemically resistant | • Continuity ensured at overlaps |
| Flexible | • Unique rubber/bitumen formulation allows healing of small punctures |
| Tanking security | • No variation by site practices |
| | • Provides effective external protection against aggressive environments and ozone attack |
| | • Accommodates minor settlement and shrinkage movement |
| | • Combined flexible membrane and waterstop system for security |



040-013-1254



Installation

- Measures should be taken to ensure that all surfaces are free from ice, frost or condensation. Roof slab surfaces must be dry, and free from sharp protrusions, and any hollows to be filled with high strength mortar.
- Horizontal and vertical faces must be smooth, regular, dry and free from nails. Prime the horizontal and vertical surfaces with one coat of Bituthene Primer applied by brush or roller at a rate of 6-8 sq m per litre depending on the



Below Grade

Typical Below Grade Wall Section

Not To Scale

Rev: 8/18/2023

Drawing Number

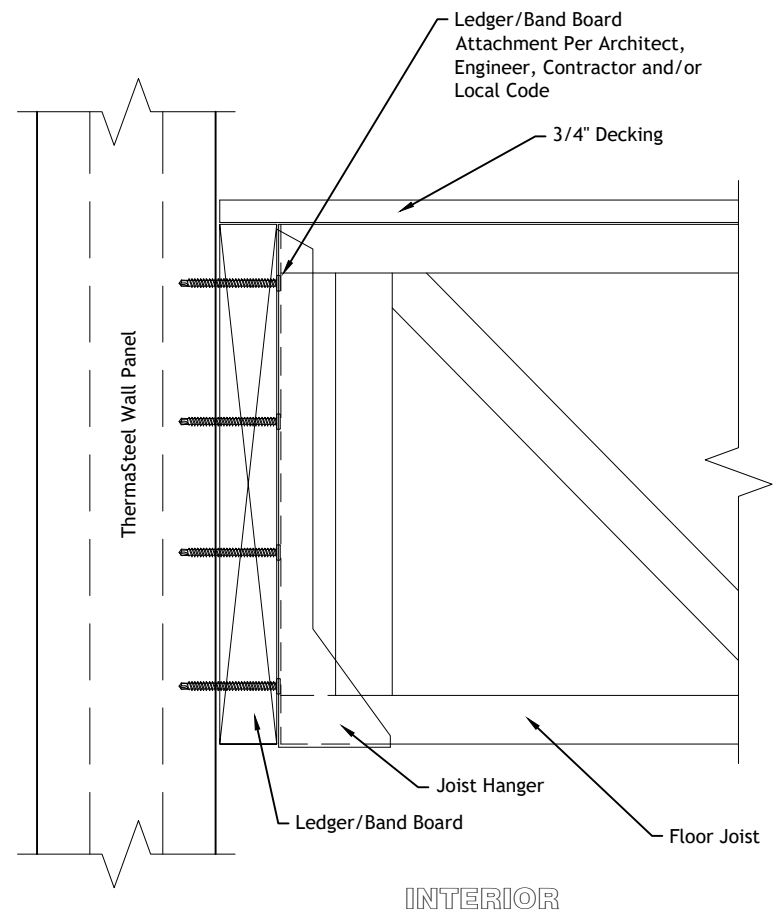
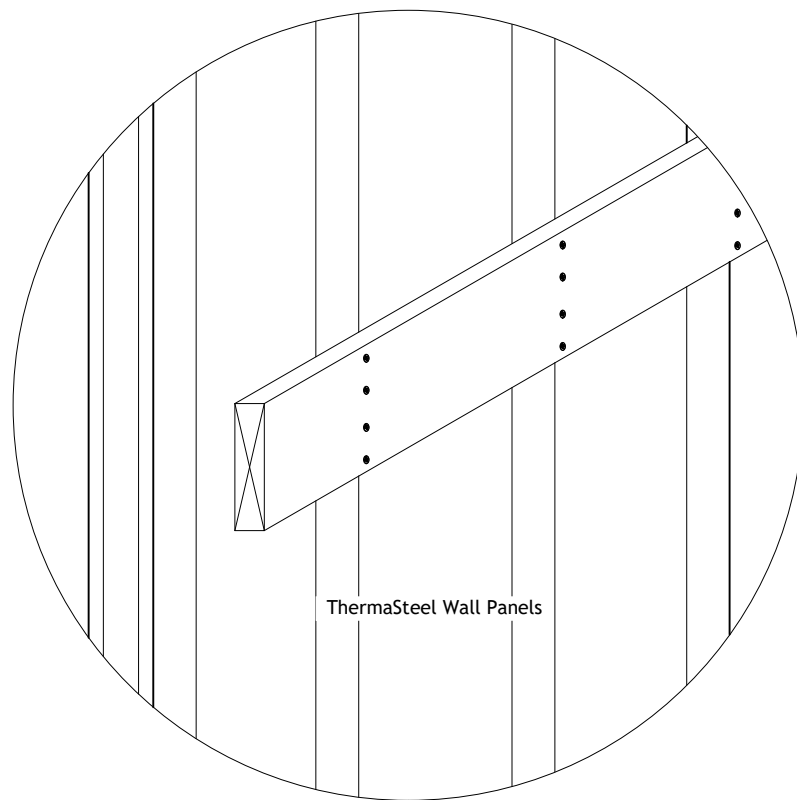
BG-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Floor Connections

- FC-001 Typical Balloon Framing Wood Truss Connection To A Panel - Section View
- FC-002 Typical Concrete Floor To Panel Connection With Slip Track - Section View
- FC-003 Typical Multi-Level Panel To Concrete Floor Connection - Section View
- FC-004 Typical Platform Framing Floor Joist With Insulated Band And Split Track Connection - Section View
- FC-005 Typical Platform Framing Wood Floor Truss With Decking Over Wall Panel - Section View
- FC-006 Typical Platform Framing Steel Floor Joist With Decking Over Wall Panel - Section View
- FC-007 Typical Balloon Framing Of Dietrich TradeReady Floor System Connection - Section View
- FC-008 Typical Wood Truss To Wall Panel Connection With Hanger
- FC-009 Typical Wood Truss To Wall Panel Connection Without Hanger
- FC-010 Typical Wood Truss To Wall Panel Connection With Ledger
- FC-011 Typical Attachment Of Panels To Wood Trusses - Platform Floor System
- FC-012 Typical Attachment Of Panels To Wood I-Beams - Platform Floor System
- FC-013 Typical Concrete Hollow Core Floor System Connection - Section View
- FC-014 Typical Concrete F-Panel Floor System Connection With Band Panel - Section View
- FC-015 Typical Concrete F-Panel To Wall Connection - Section View
- FC-016 Alternative A, Concrete F-Panel To Wall Connection - Section View
- FC-017 Alternative B, Concrete F-Panel To Wall Connection - Section View
- FC-018 Typical (F-Panel) To Wall Connection Tie Via L-Bolt
- FC-019 Concrete Slab to Wall Connection - High Water Table
- FC-020 Wall Panel as Pour Stop for Concrete Slab

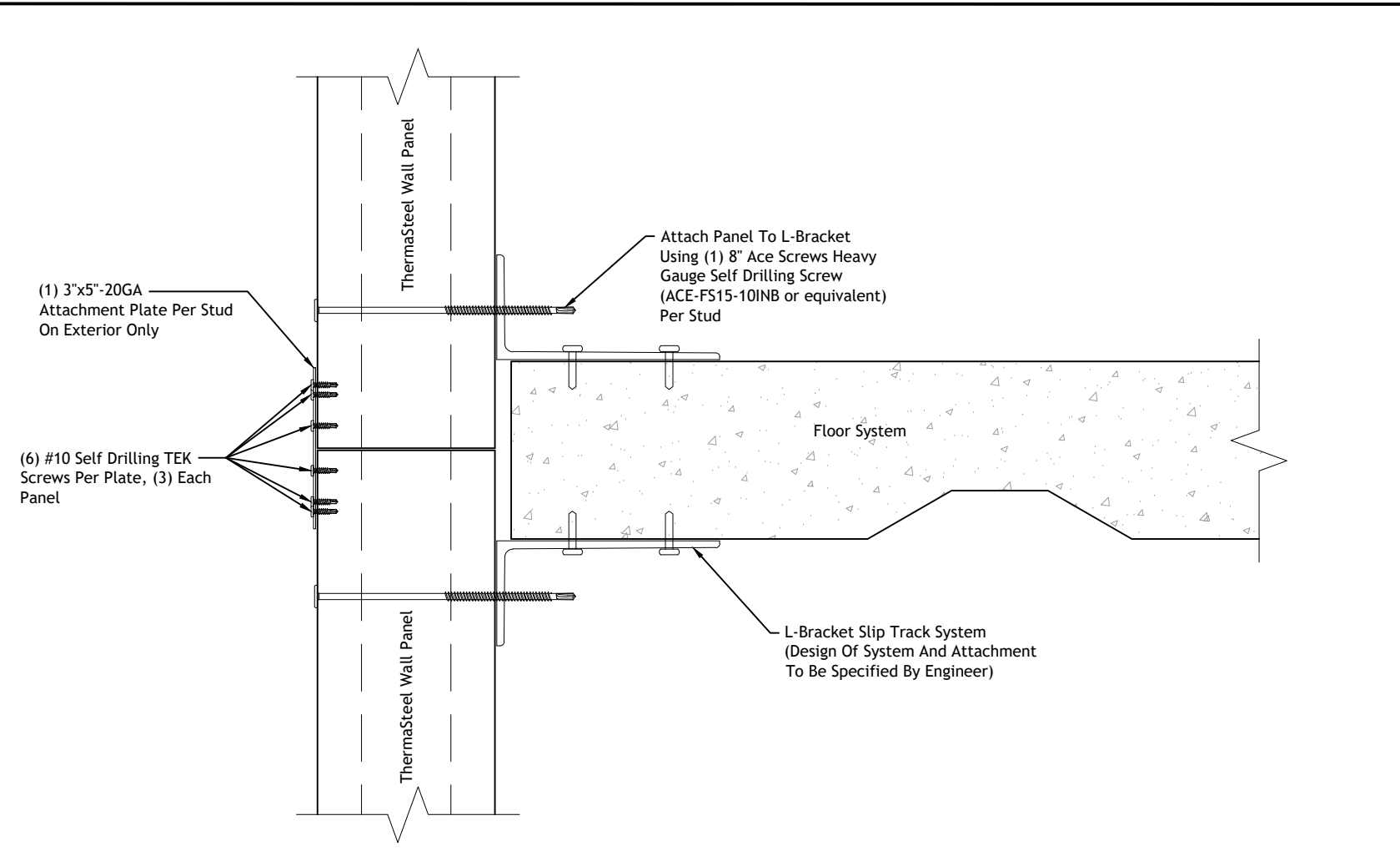
[Back To Connection Detail
Chapters](#)



Floor Connections
Typical Balloon Framing Wood Truss
Connection To A Panel
Section View

Not To Scale
Rev: 11/30/2021
Drawing Number
FC-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Multi-Level Panel To Concrete Floor
Connection - Section View

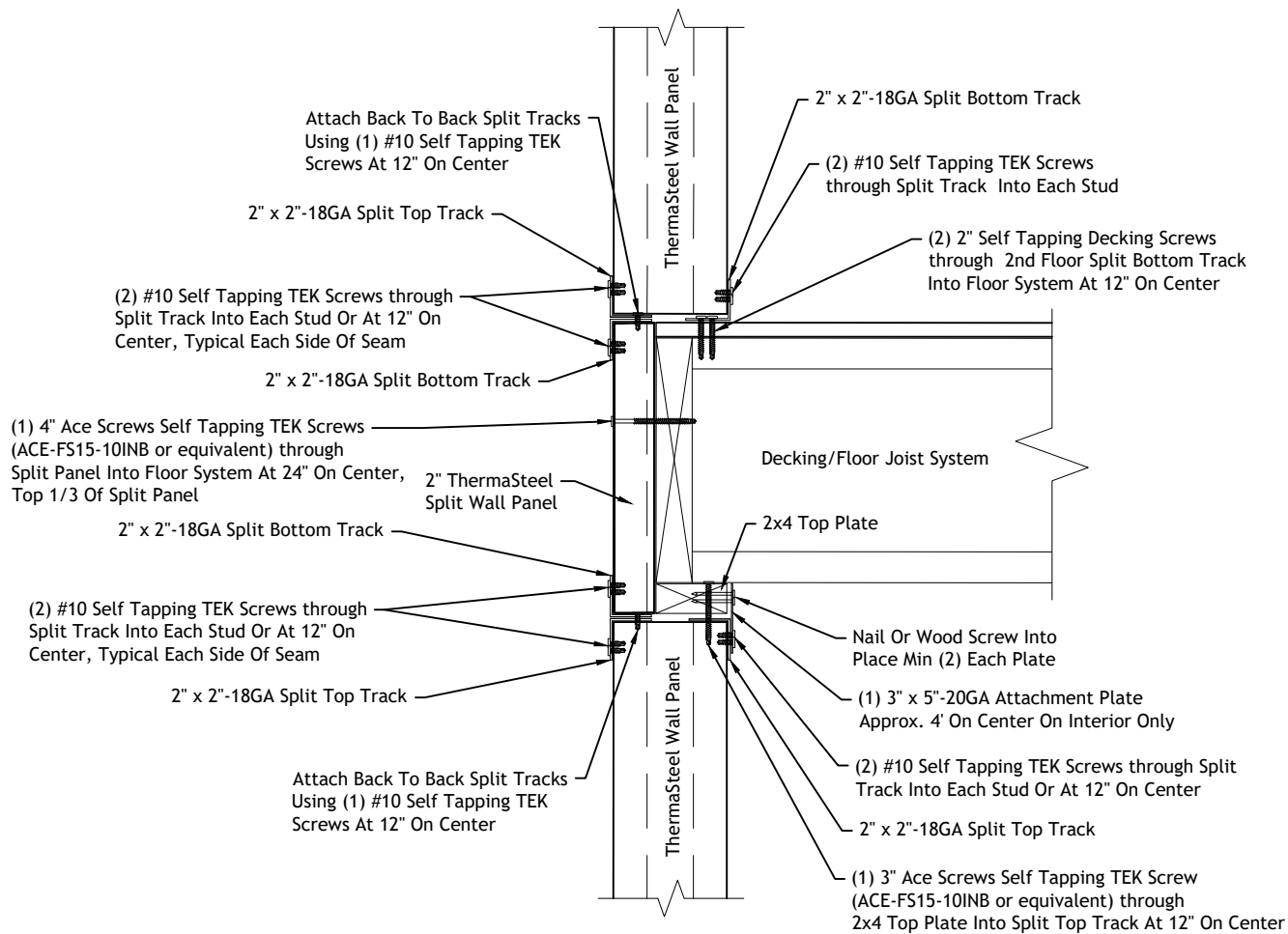
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Floor Connection

Typical Platform Framing Floor Joist With Insulated Band And Split Track Connection Section View

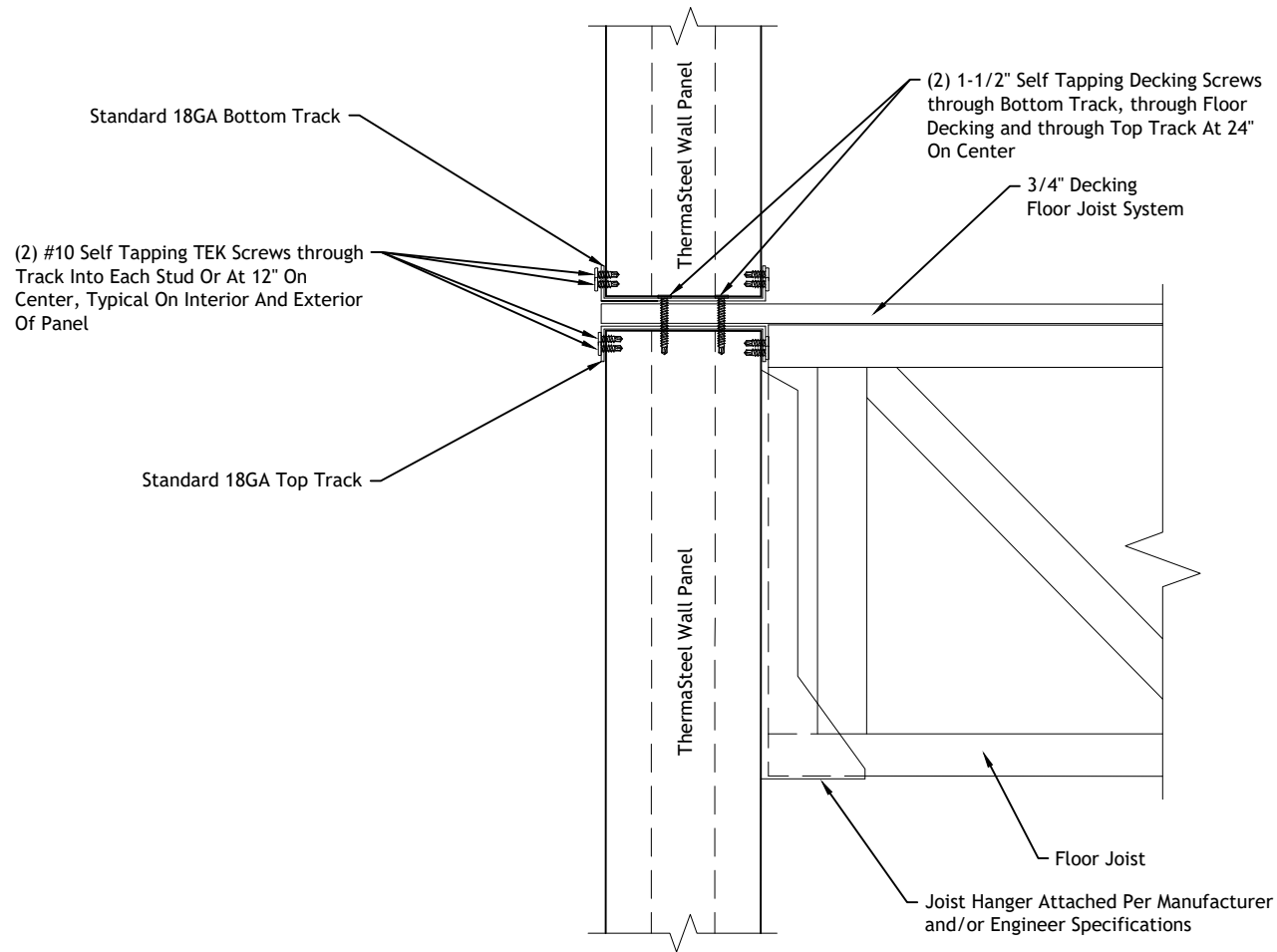
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Platform Framing Wood Floor Truss
With Decking Over Wall Panel
Section View

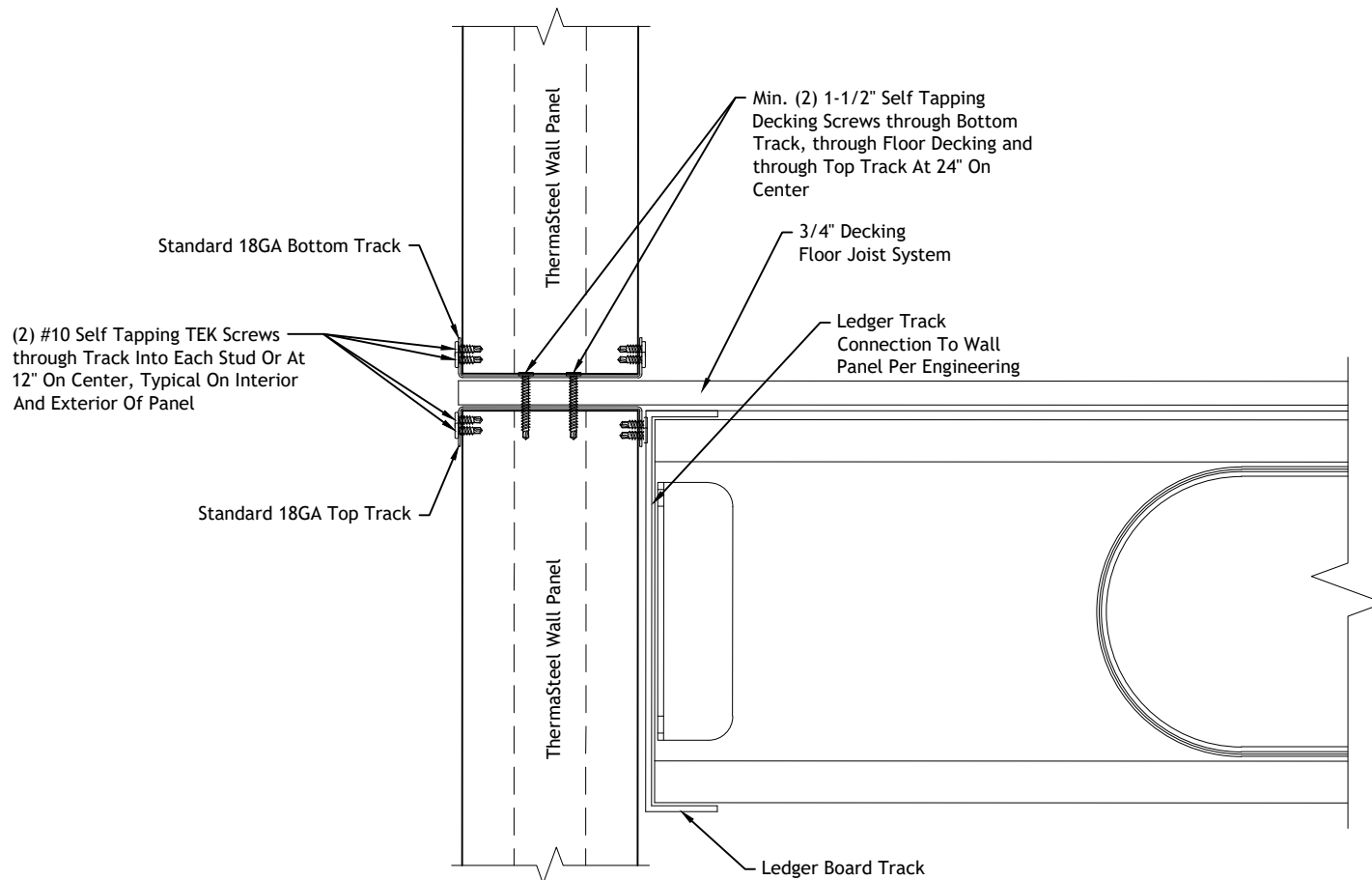
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Floor Connection
Typical Platform Framing Steel Floor Joist
With Decking Over Wall Panel
Section View

| |
|-----------------|
| Not To Scale |
| Rev: 11/30/2021 |
| Drawing Number |
| FC-006 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Ledger Track
To Panel Per
Dietrich TradeReady
Floor System
Specifications For
Steel Stud
Connection

Dietrich
TradeReady
Floor
System
Joists

ThermaSteel Wall Panels

Ledger Track
Per Dietrich
TradeReady
Floor System

Dietrich TradeReady Floor
System Is To Be Installed
Per Manufacturer,
Architect And/Or
Engineers Specifications

INTERIOR



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Balloon Framing Of Dietrich
TradeReady Floor System Connection
Section View

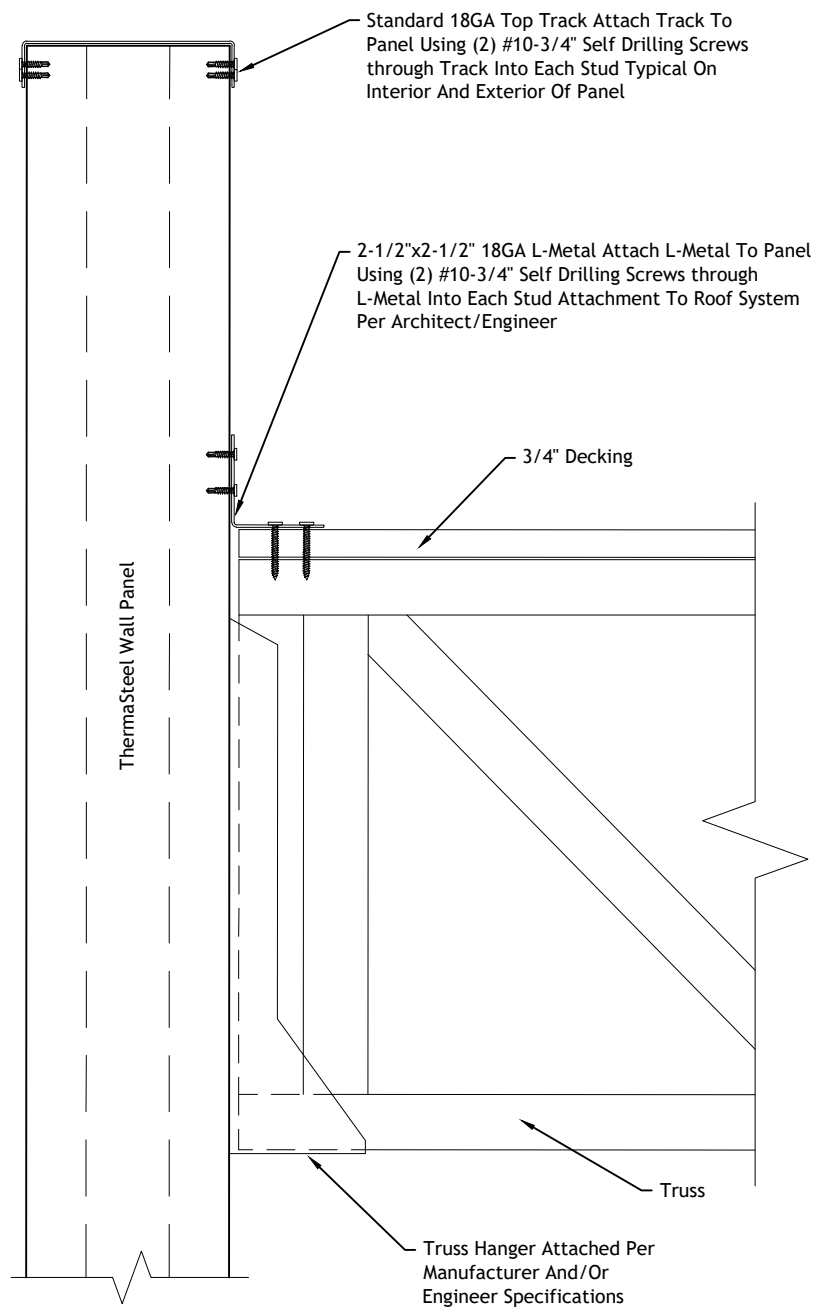
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Floor Connection

Typical Wood Truss To Wall Panel
Connection With Hanger

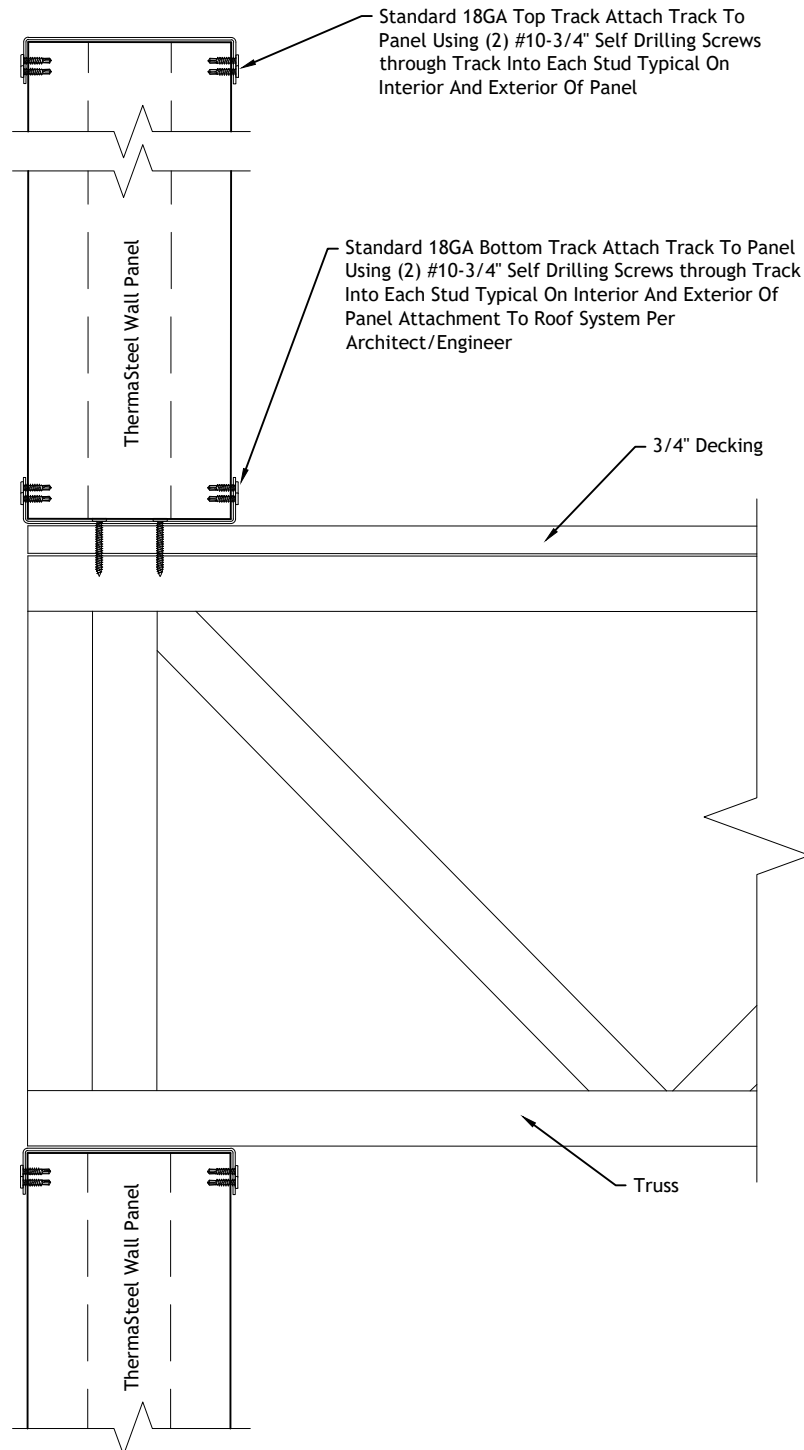
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Wood Truss To Wall
Panel Connection Without
Hanger

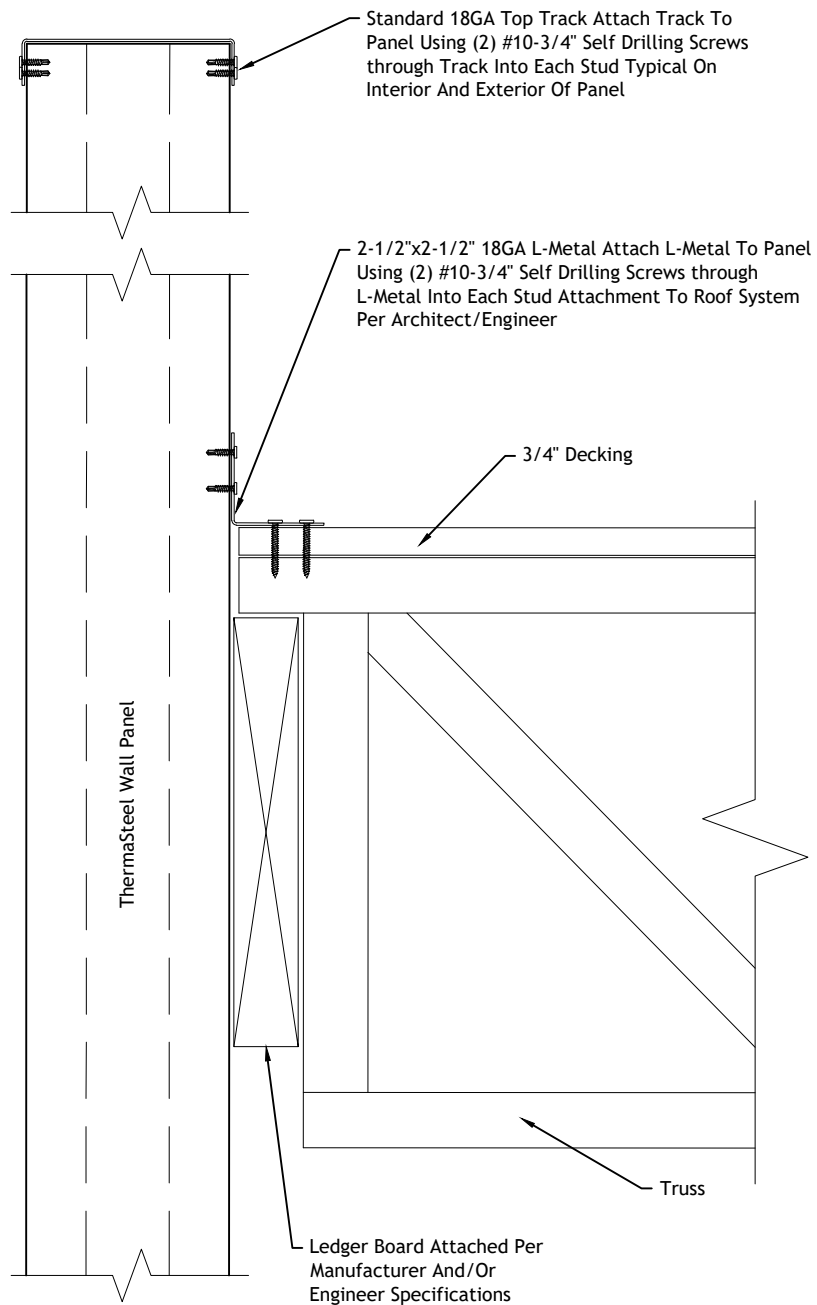
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Wood Truss To Wall
Panel Connection With
Ledger

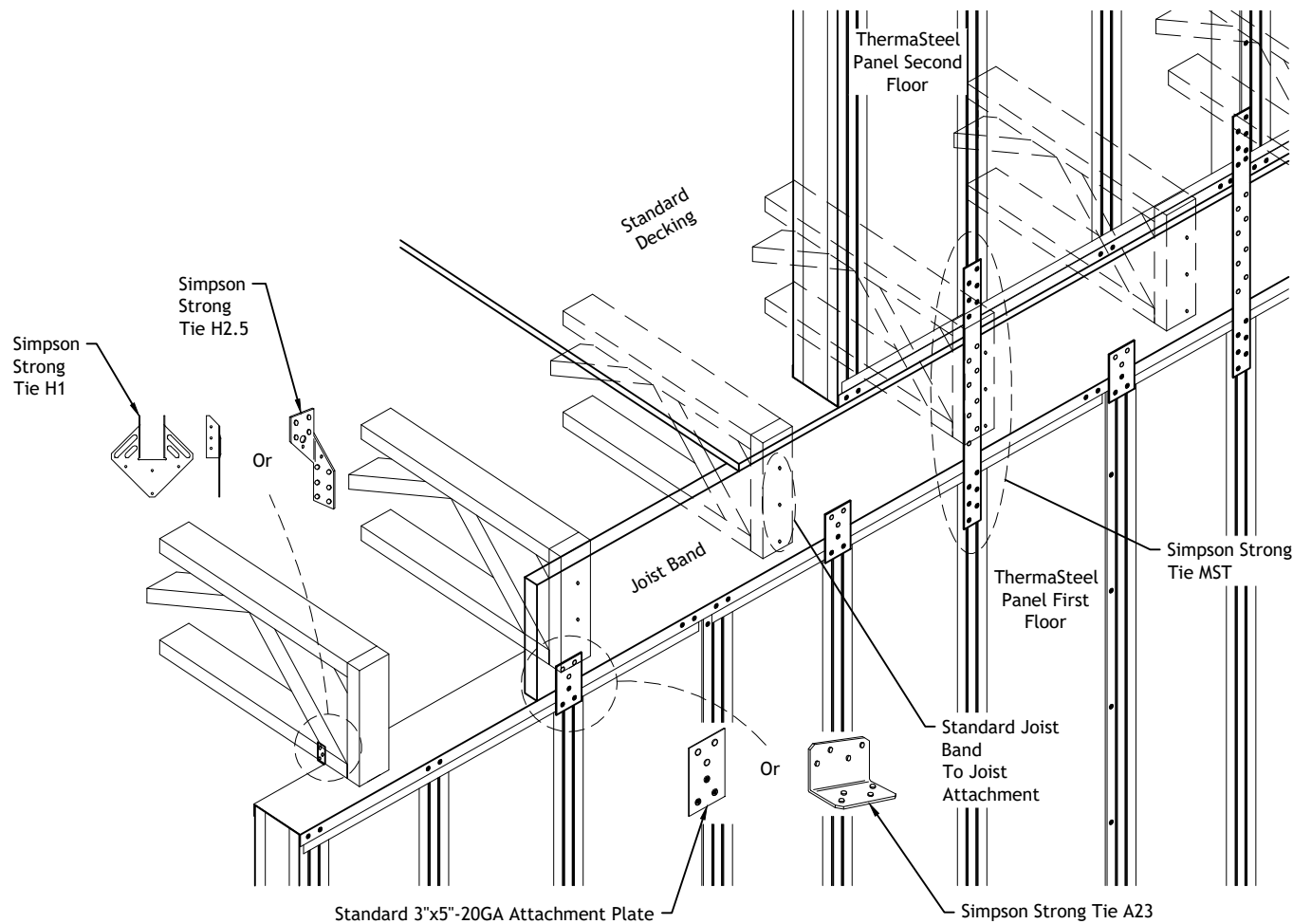
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-010

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Floor Connection

Typical Attachment Of Panels To Wood Trusses - Platform Floor System

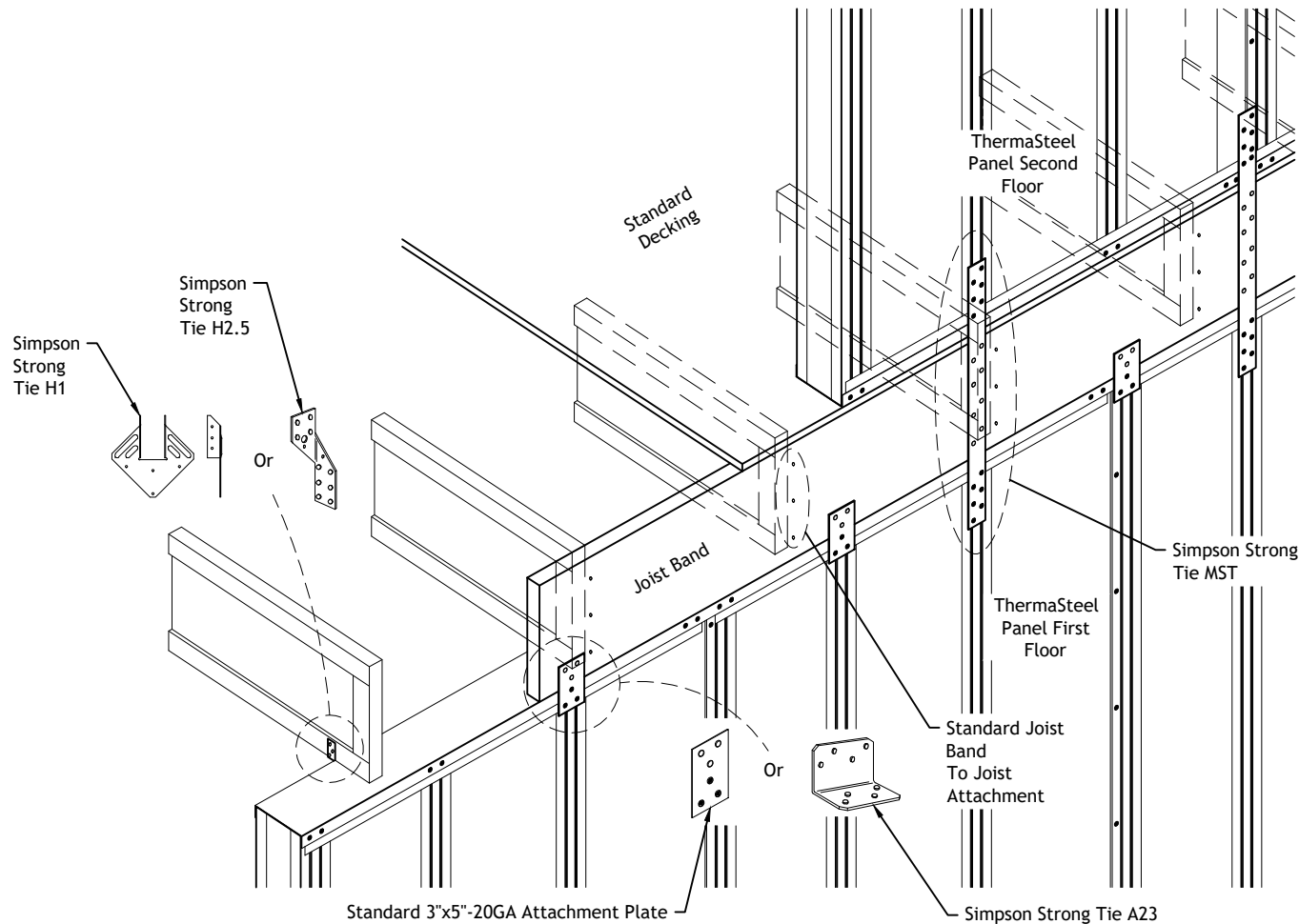
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-011

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Attachment Of Panels To Wood I-Beams - Platform Floor System

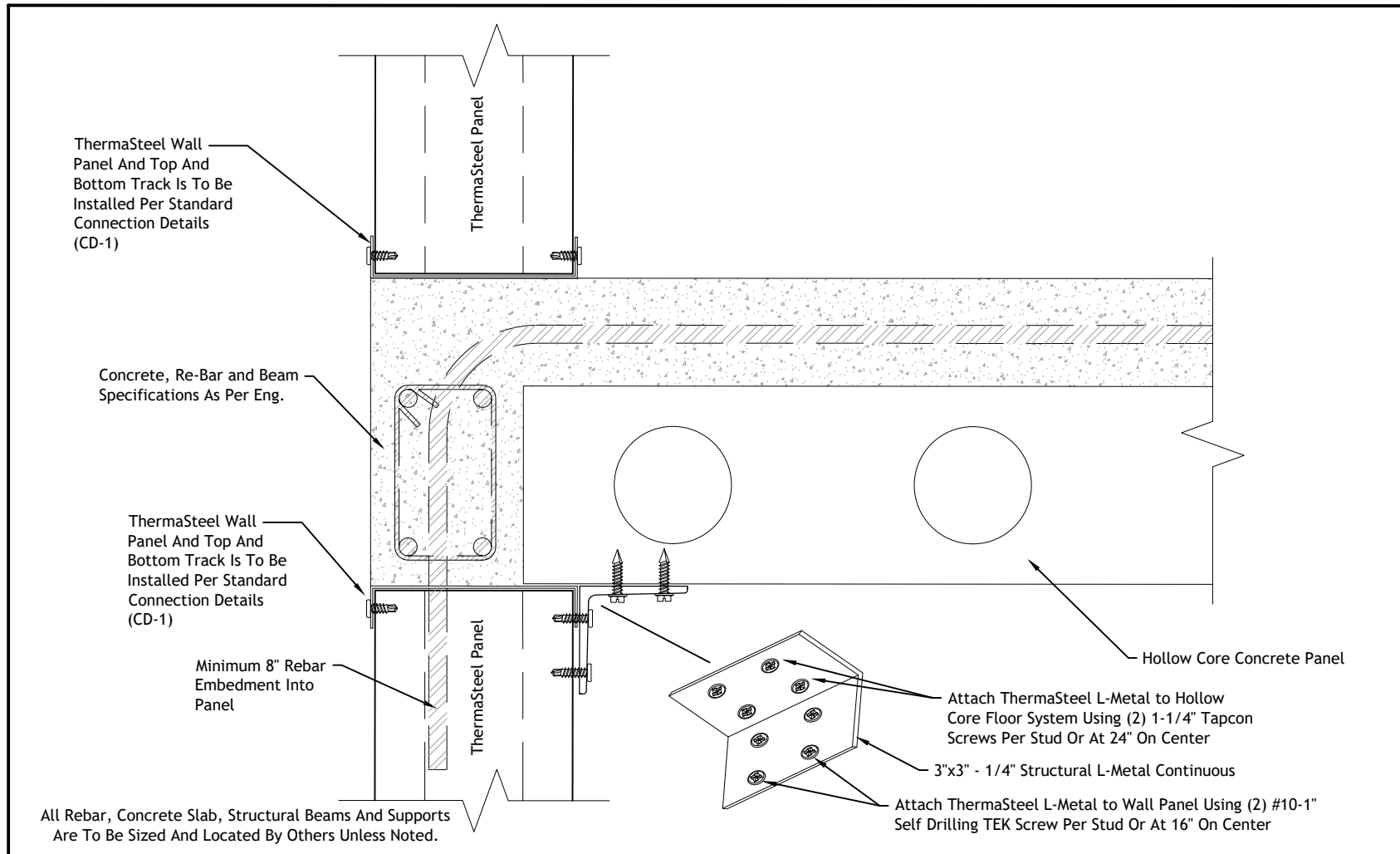
Not To Scale


Rev: 11/30/2021

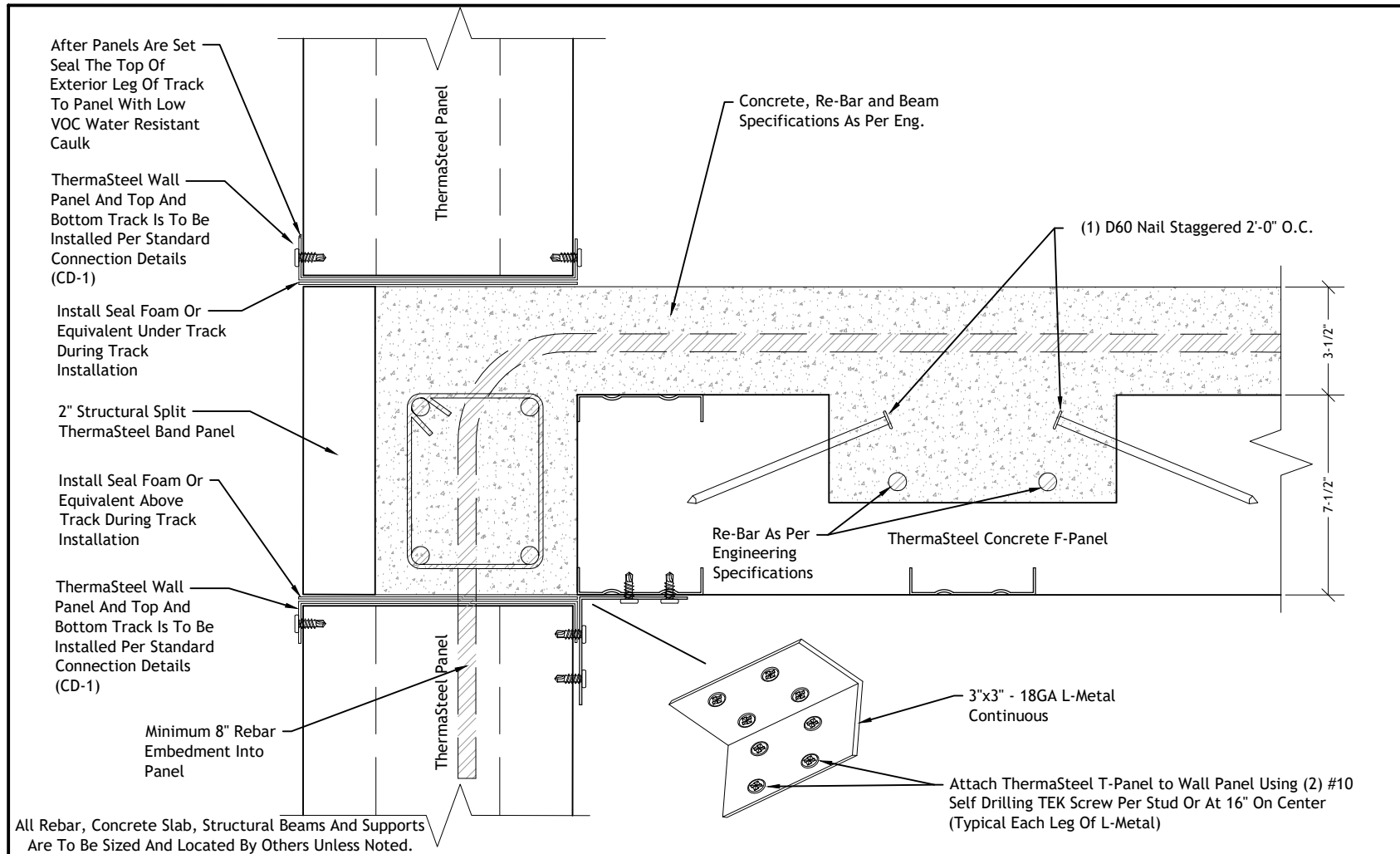
Drawing Number


FC-012

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

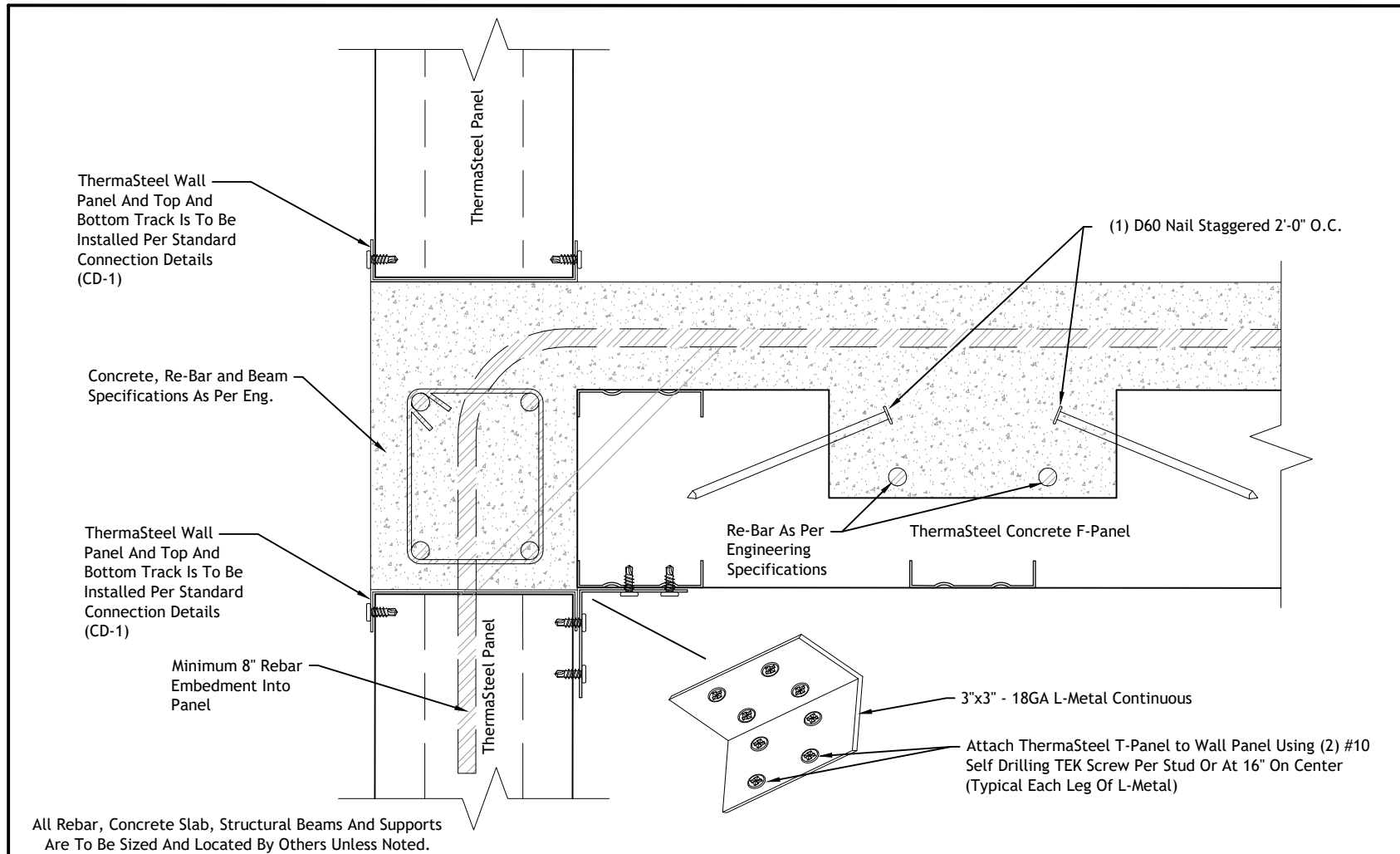



| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Floor Connection | |
| | Typical Concrete Hollow Core Floor System Connection - Section View | |
| | | |
| | | |
| THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000 www.thermasteelinc.com | | Not To Scale Rev: 11/30/2021 Drawing Number FC-013 |



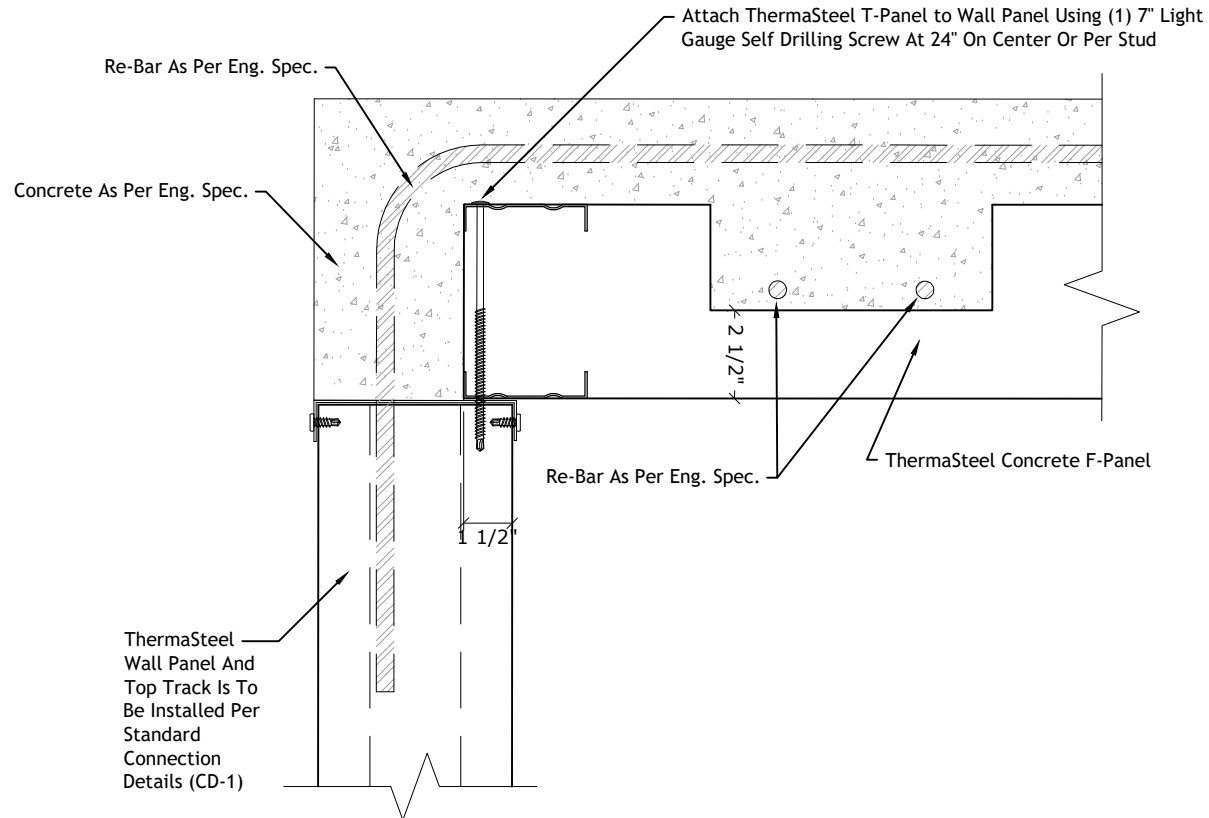
| | | |
|--|---|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Floor Connection | |
| | Typical Concrete F-Panel Floor System Connection With Band Panel - Section View | |
| | | |
| | | |
| | | Not To Scale Rev: 11/30/2021 Drawing Number FC-014 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|---|---|-----------------|
|  THERMASTEEL TM ADVANCED PANEL SYSTEM | Floor Connection | |
| | Typical Concrete F-Panel To Wall Connection - Section View | Not To Scale |
| | | Rev: 11/30/2021 |
| | | Drawing Number |
| | | FC-015 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



All Rebar, Concrete Slab, Structural Beams And Supports
Are To Be Sized And Located By Others Unless Noted.



Floor Connection

Alternative A, Concrete F-Panel System To Wall Section View

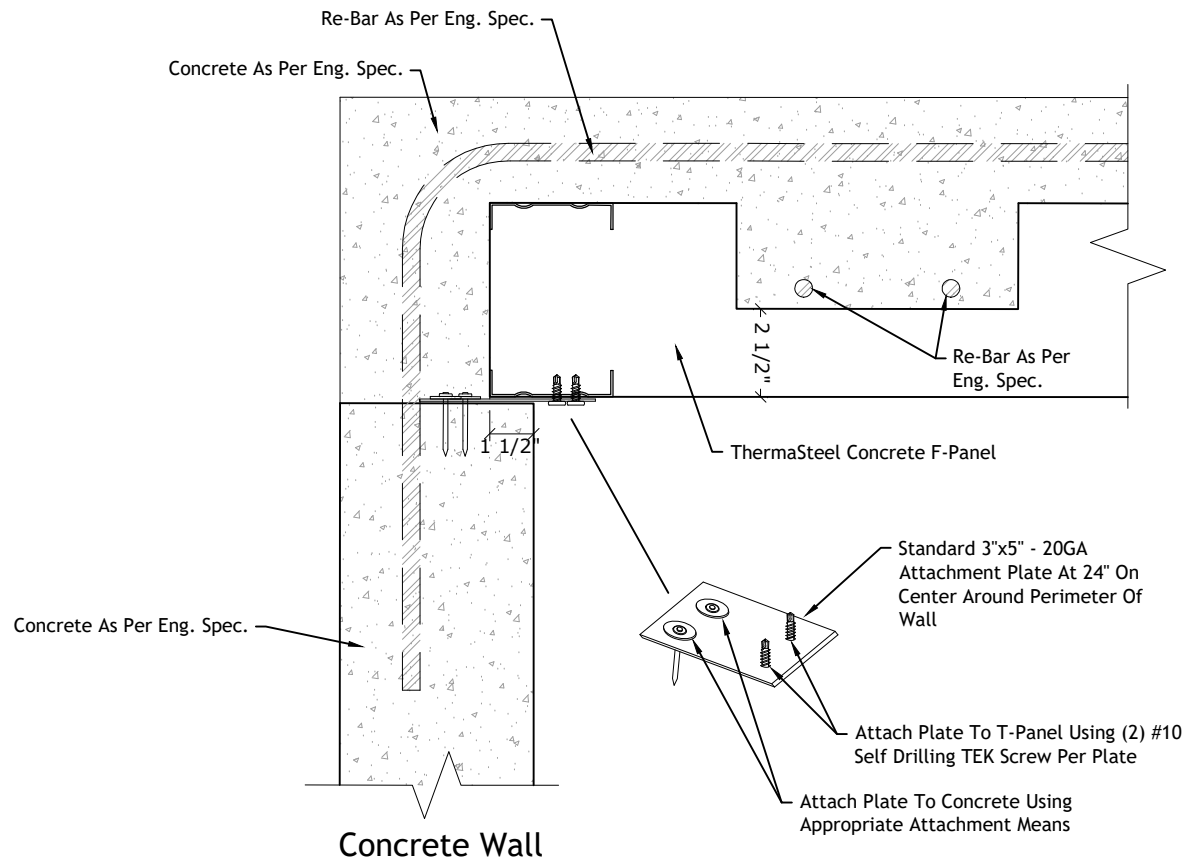
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-016

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



All Rebar, Concrete Slab, Structural Beams And Supports
Are To Be Sized And Located By Others Unless Noted.



Floor Connection

Alternative B, Concrete F-Panel System To Wall, Section View

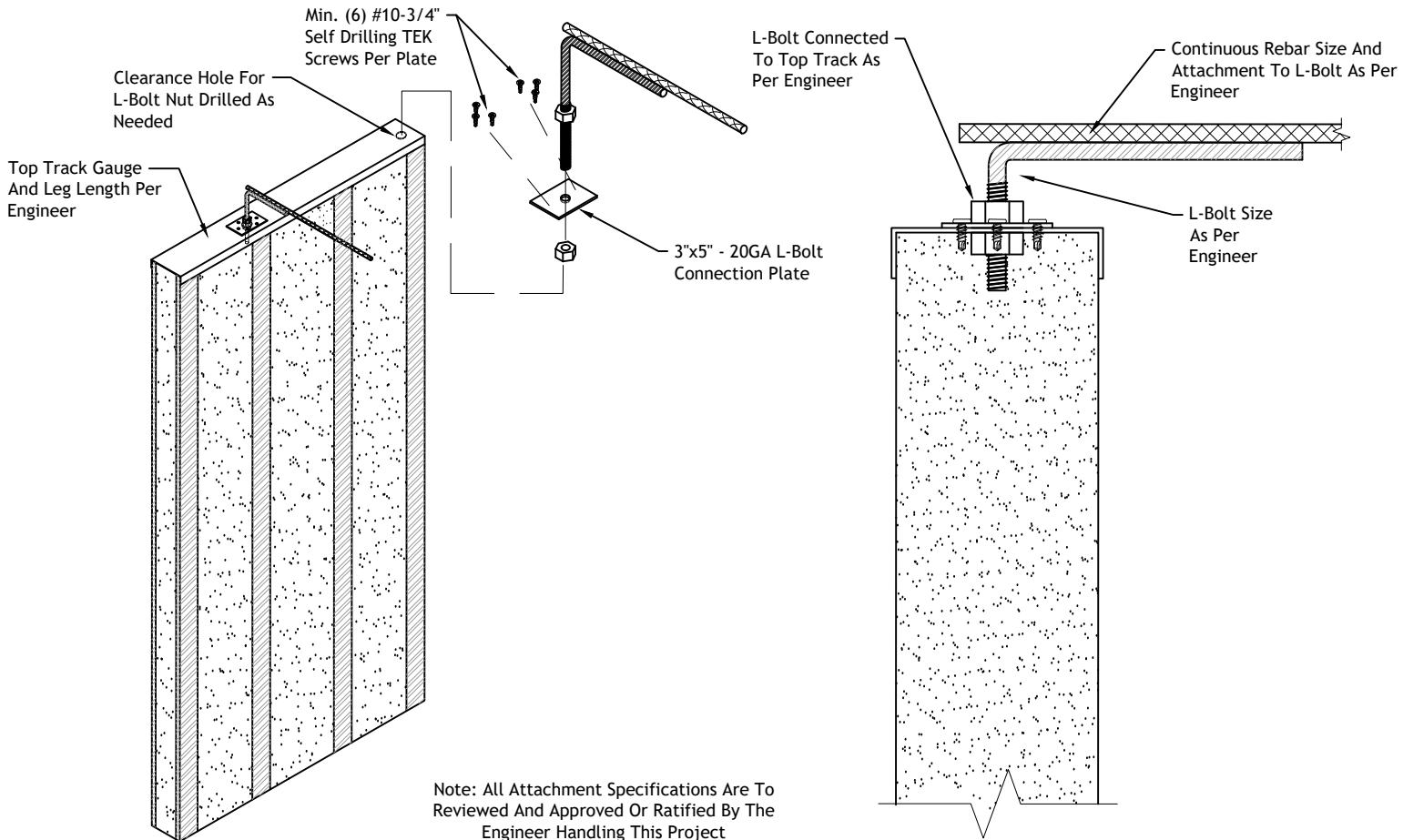
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-017

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Typical Concrete (F-Panel) To Wall Connection Tie Via L-Bolt

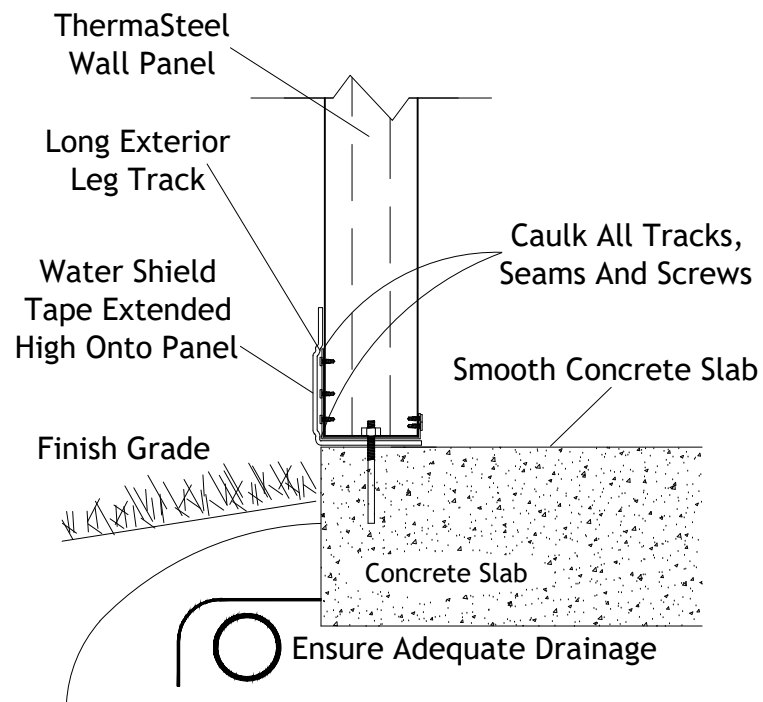
Not To Scale

Rev: 11/30/2021

Drawing Number

FC-018

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Floor Connection

Concrete Slab To Wall Connection in High
Water Table Locations

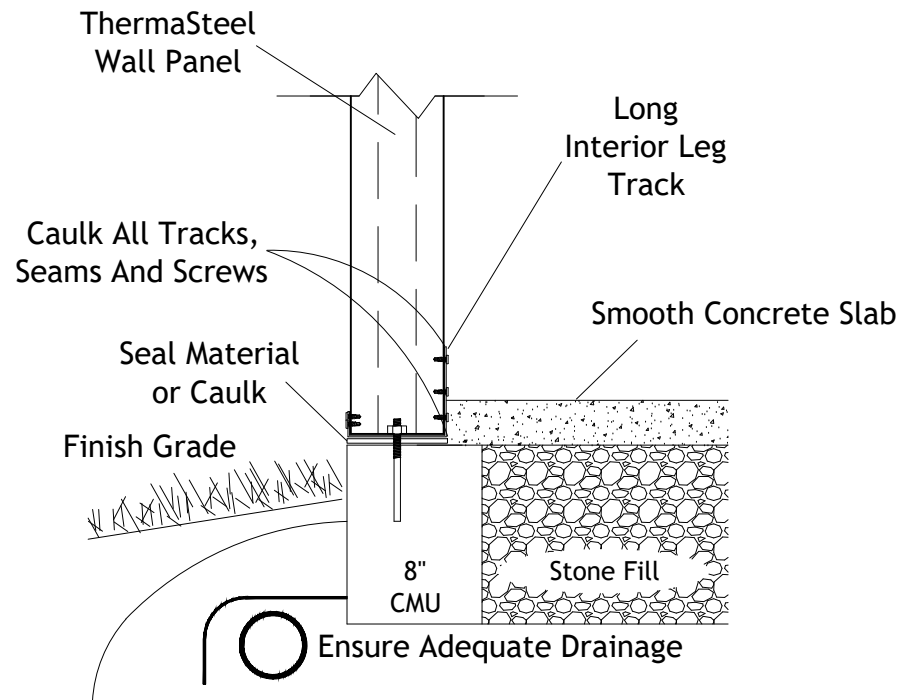
Not To Scale

Rev: 11/05/2024

Drawing Number

FC-019

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Floor Connection

Wall Panel as Pour Stop for Concrete Slab
over Stone Fill/ CMU Foundation Wall

Not To Scale

Rev: 11/05/2024

Drawing Number

FC-020

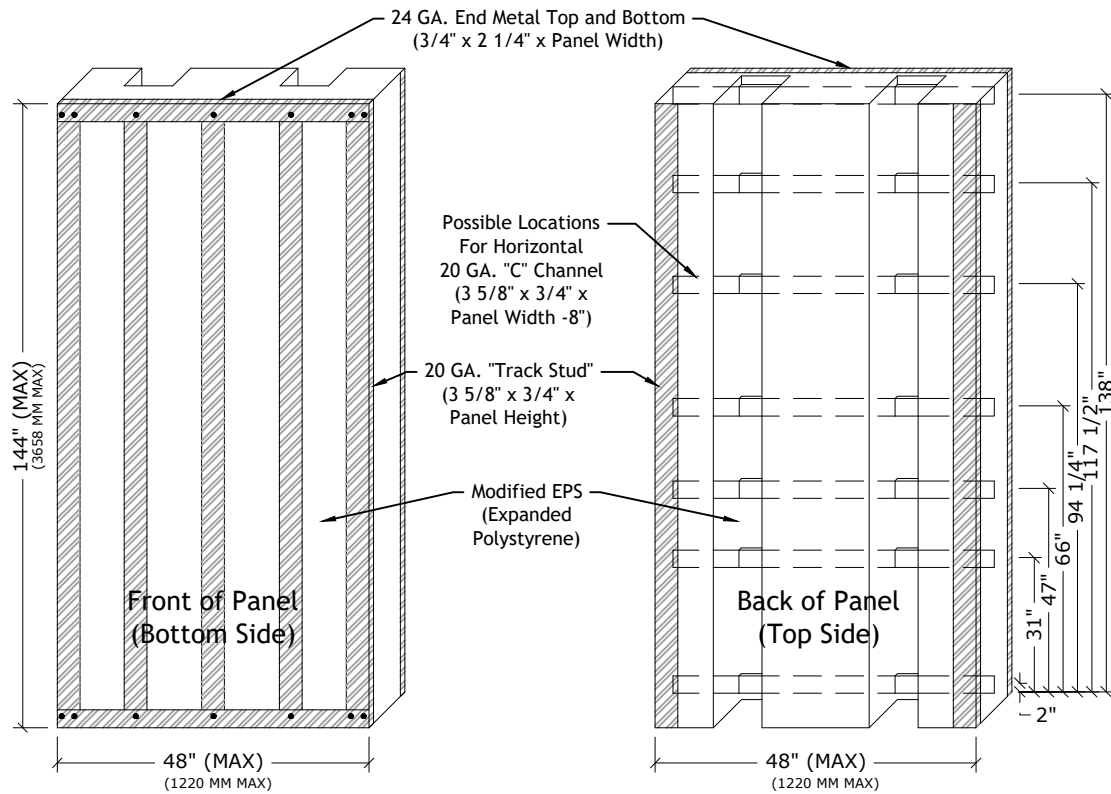
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Floor Design

FD-001 F-Panel Standard Detail

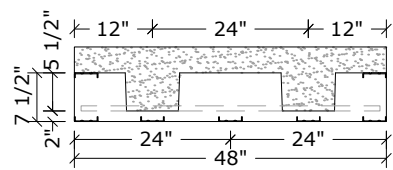
FD-002 Example F-Panel Cross Sections

[Back To Connection Detail
Chapters](#)




ThermaSteel F-Panels are installed with the "front of panel" facing downward toward the ground and the leading edge to the right.

PANEL ELEVATION

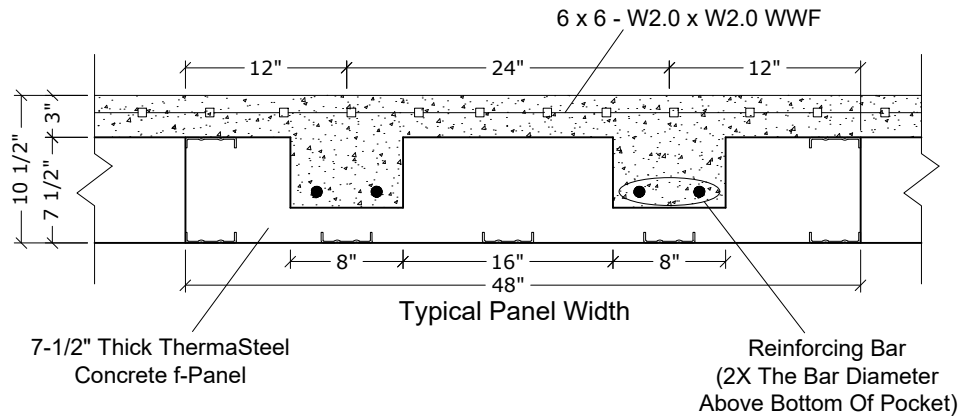


Trough Inserts Size
8" x 5-1/2"

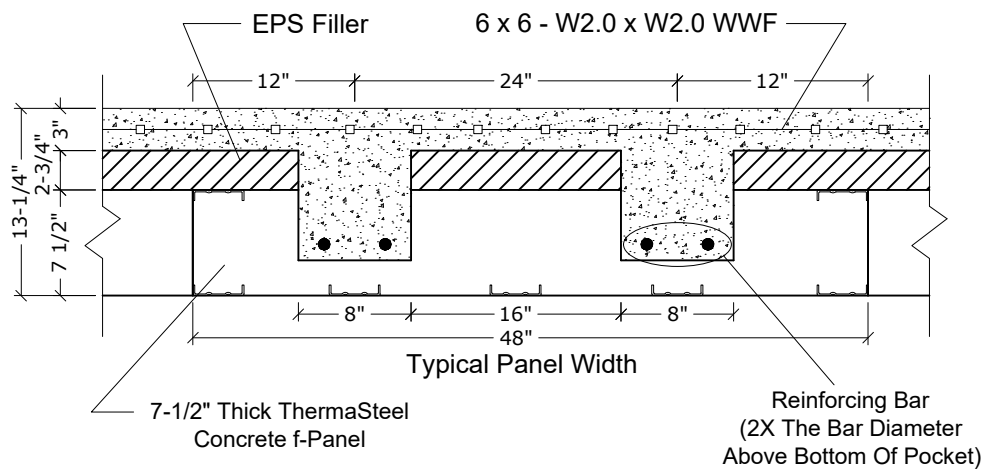
SECTION VIEW

| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Floor Design | |
| | F-Panel Standard Detail | |
| | Not To Scale Rev: 4/21/2025 Drawing Number | |
| | FD-001 | |

Example F- Panel Cross Sections



FPB - 1



FPB - 2

For Technical Details, Refer To:
<https://thermasteelinc.com/resources/>
 Code 220



THERMASTEEL™
 ADVANCED PANEL SYSTEM

Floor Design

**Example F- Panel
 Cross Sections**

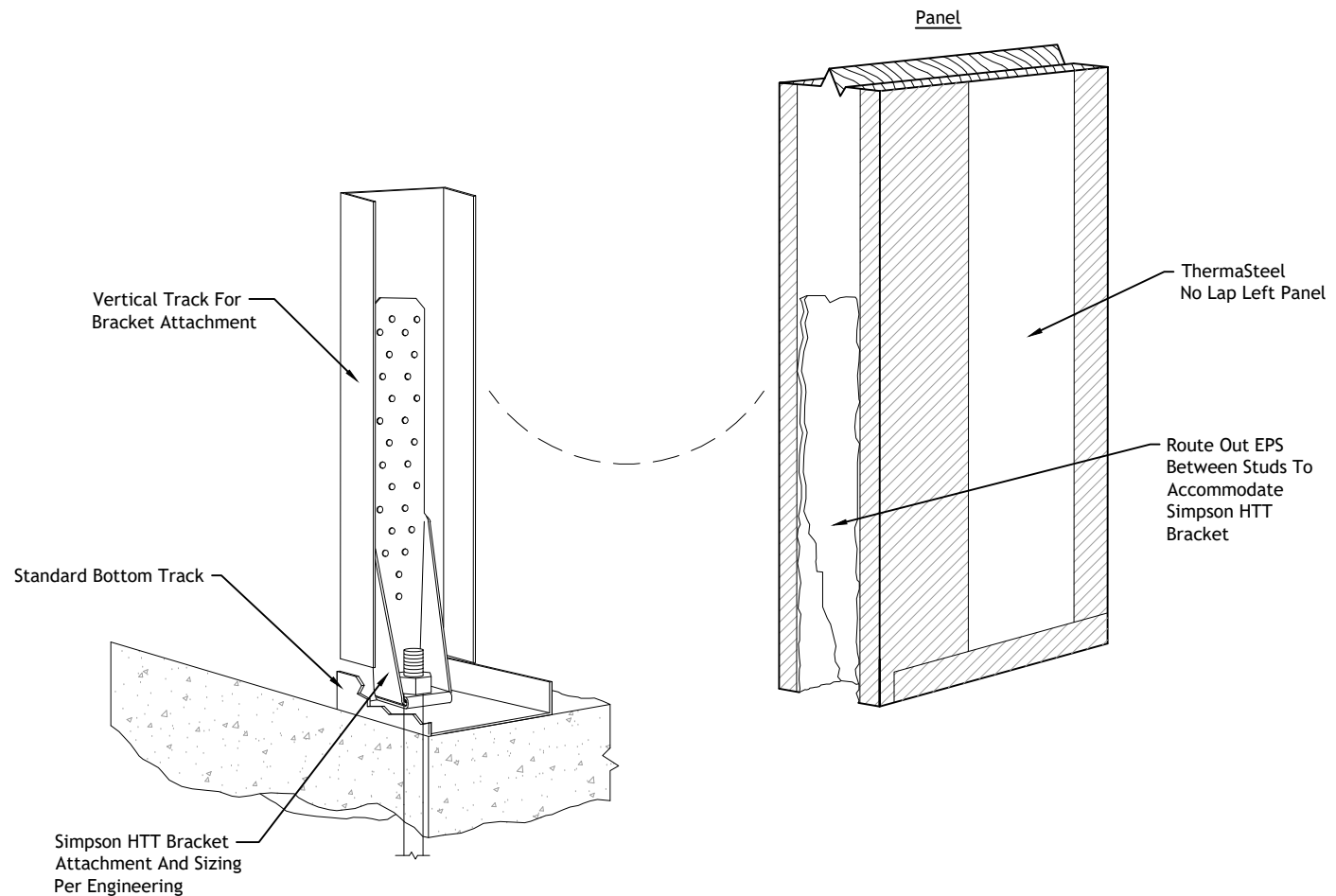
Not To Scale
 Rev: 4/21/2025
 Drawing Number
FD-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Panel Hold Downs And Track Connections

- HD-001 Typical Hold Down To Foundation Connection
- HD-002 Typical Hold Down To Foundation Connection - Reversed Track
- HD-003 Typical Hold Down To Foundation Connection - Via Strap
- HD-004 Typical Bottom Track Connection To Concrete Slab
- HD-005 Typical Bottom Track Connection To Wood Floor System
- HD-006 Typical Bottom Track Connection For Shear And Load Bearing Walls
- HD-007 Typical Bottom Track Connection For Shear And Load Bearing Walls
- HD-008 Typical Top Track Connection For Shear And Load Bearing Walls
- HD-009 Typical Top Slip Track Connection To Pre-Stressed Concrete Planks With Camber
- HD-010 Typical Top Slip Track Connection To Pre-Stressed Concrete Planks With Camber - Section View
- HD-011 Typical Interior Track Connection To Overlapping Partitions
- HD-012 Typical Interior Track Connection To Overlapping Partitions On A Non-Load Bearing Wall
- HD-013 Typical Insulation Band Connection With Strap
- HD-014 Typical Track Connection To Steel And Wood Beams
- HD-015 Typical Top And Bottom Panel To Split Track Connection
- HD-016 Typical Top And Bottom Panel To Split Track Connection - Alternative A
- HD-017 Typical Top And Bottom Panel To Split Track Connection - Alternative B

[Back To Connection Detail
Chapters](#)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Hold Down To Foundation Connection

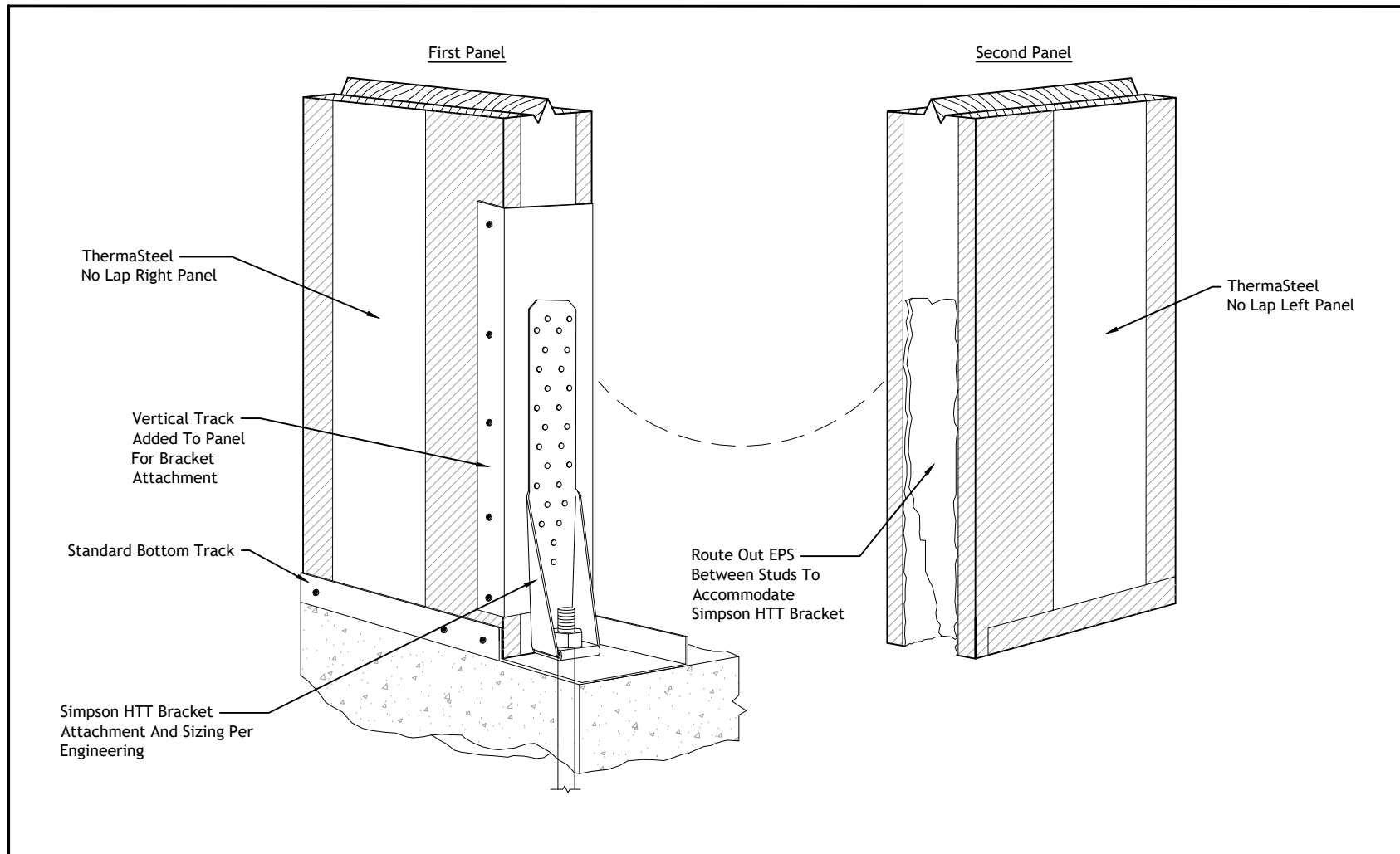
Not To Scale


Rev: 11/30/2021

Drawing Number

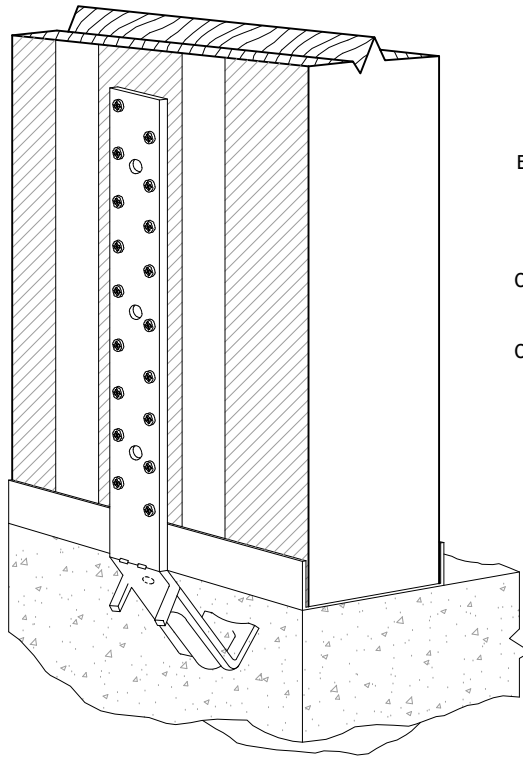
HD-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|--|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Panel Hold Downs And Track Connections | |
| | Typical Hold Down To Foundation Connection Reversed Track | |
| | Not To Scale | Rev: 11/30/2021 |
| | Drawing Number | HD-002 |

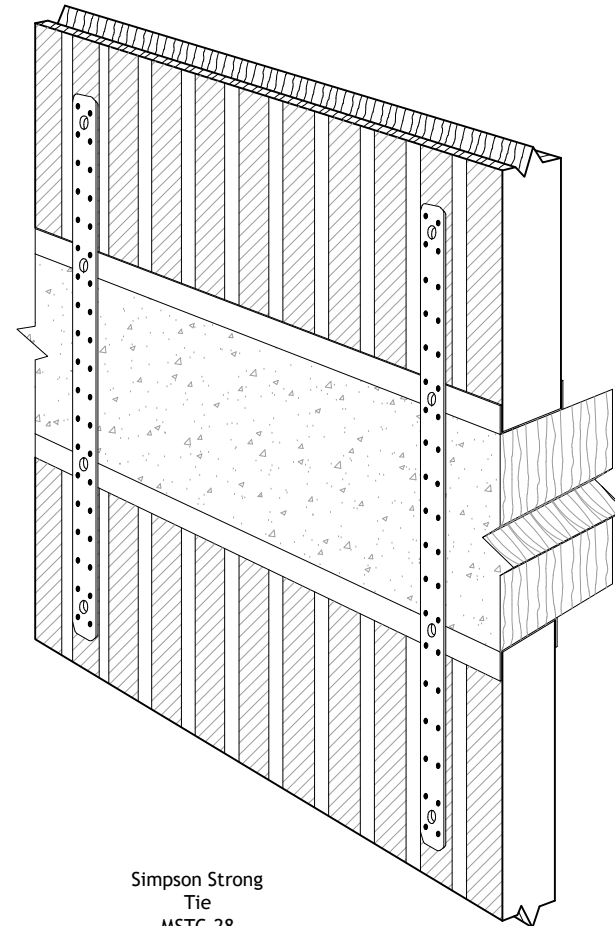
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Simpson Strong
Tie
PAHD-42

Attachment And
Placement Is Per
Engineer And/Or Erector
And/Or Manufacturers
Specifications

Suggested Placement:
One At Each Side Of Each
Window Or Door
And
One At Each Side Of Each
Corner Of The Building
And
One At 48" On Center



Simpson Strong
Tie
MSTC-28



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Hold Down To Foundation Connection Via Strap

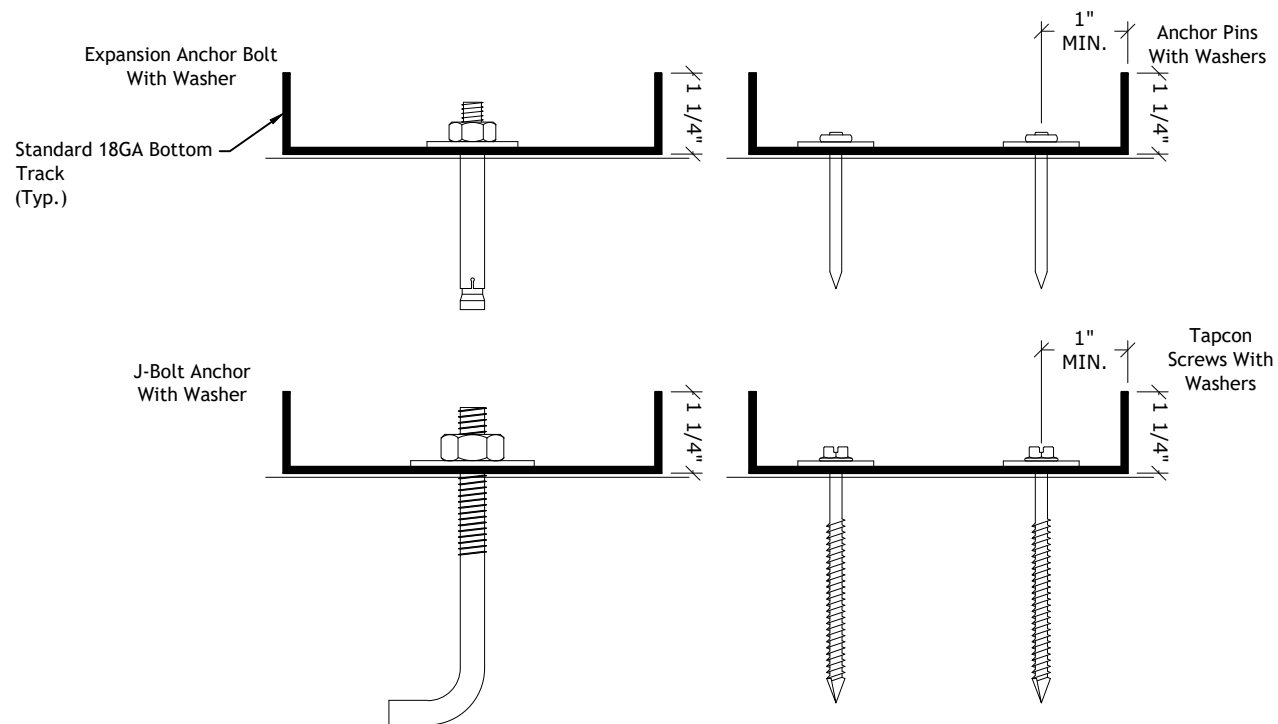
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Track Sizing Specified
Per Project Correlating To Panel Thickness

(Concrete Connection Is To Conform With Engineers
Specifications And/Or State And Local Code)



Panel Hold Downs And Track Connections

Typical Bottom Track Connection To Concrete Slab

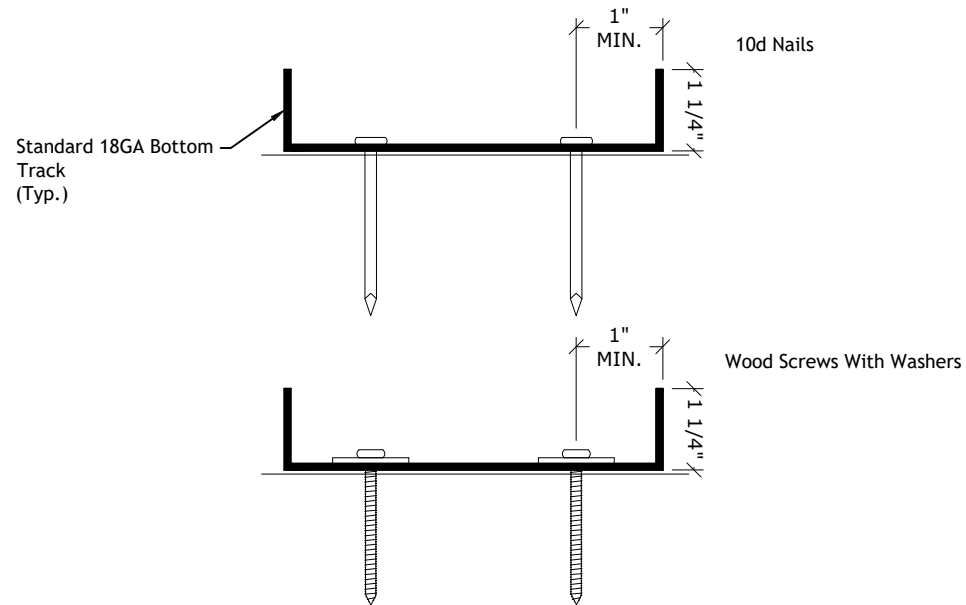
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Track Sizing Specified Per Project Correlating To Panel Thickness

(Wooden Floor System Connection Is To Conform With
Engineers Specifications And/or State And Local Code)



Panel Hold Downs And Track Connections

Typical Bottom Track Connection To Wood Floor System

Not To Scale

Rev: 11/30/2021

Drawing Number

HD-005

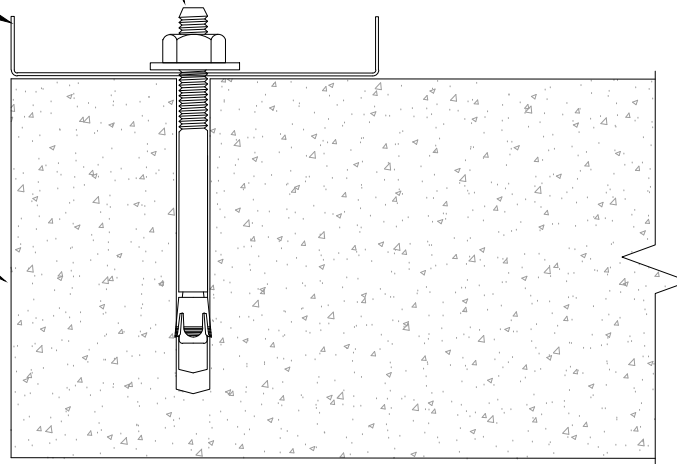
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Hilti Carbon Steel Kwik Bolt TZ (KB-TZ) Anchor
Size And Spacing Per Engineering Specifications

Continuous
Bottom Track

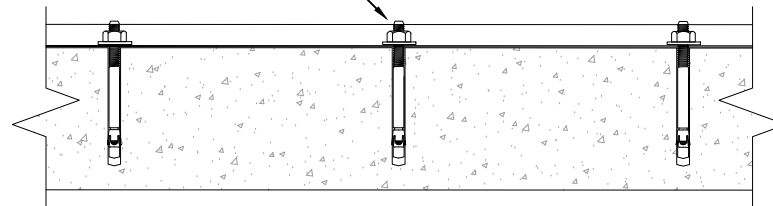
Section View

Concrete
Slab Or
Hollow Core



Spacing Per Engineering
Specifications

Side View



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Bottom Track Connection For
Shear And Load Bearing Walls

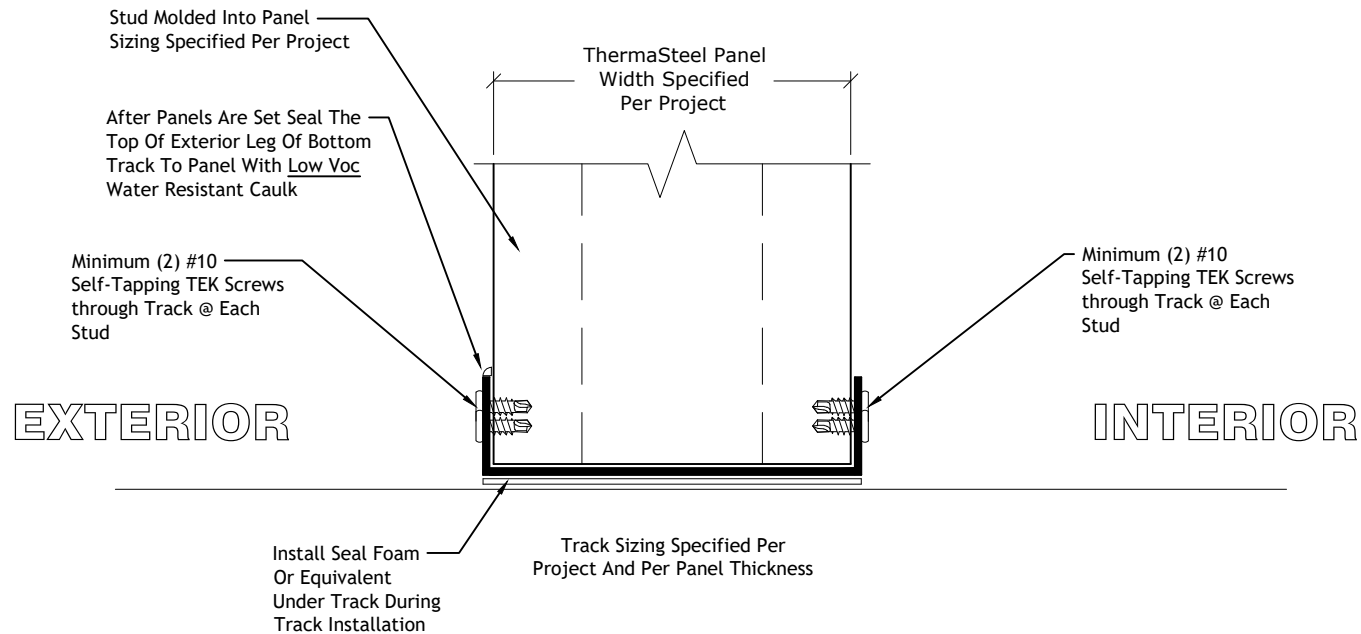
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Bottom Track Connection For Shear And Load Bearing Walls

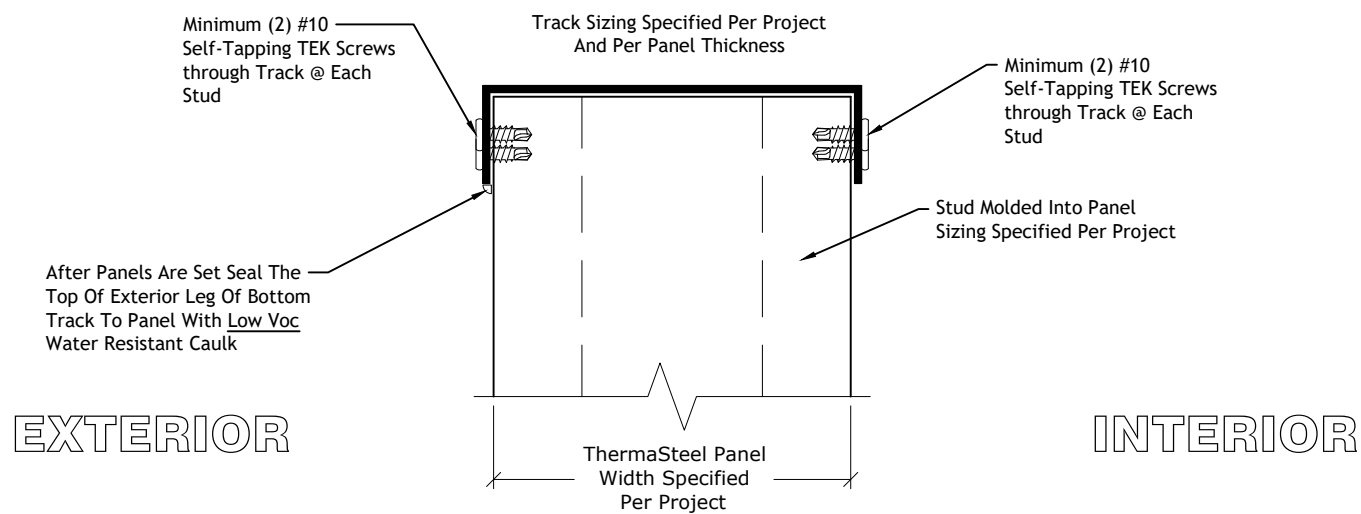
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Typical Top Track Connection For Shear And Load Bearing Walls

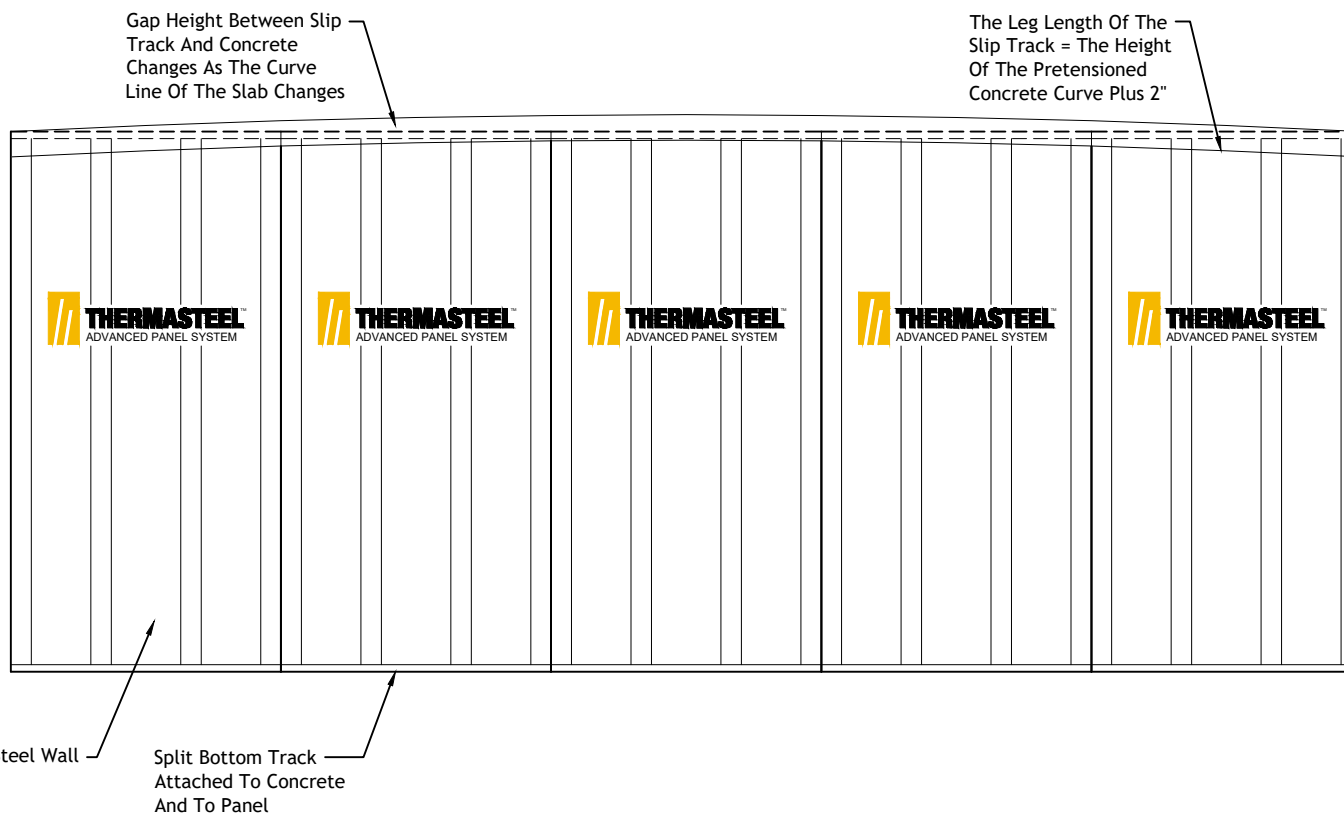
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Top Slip Track Connection To Pre-Stressed Concrete Planks With Camber

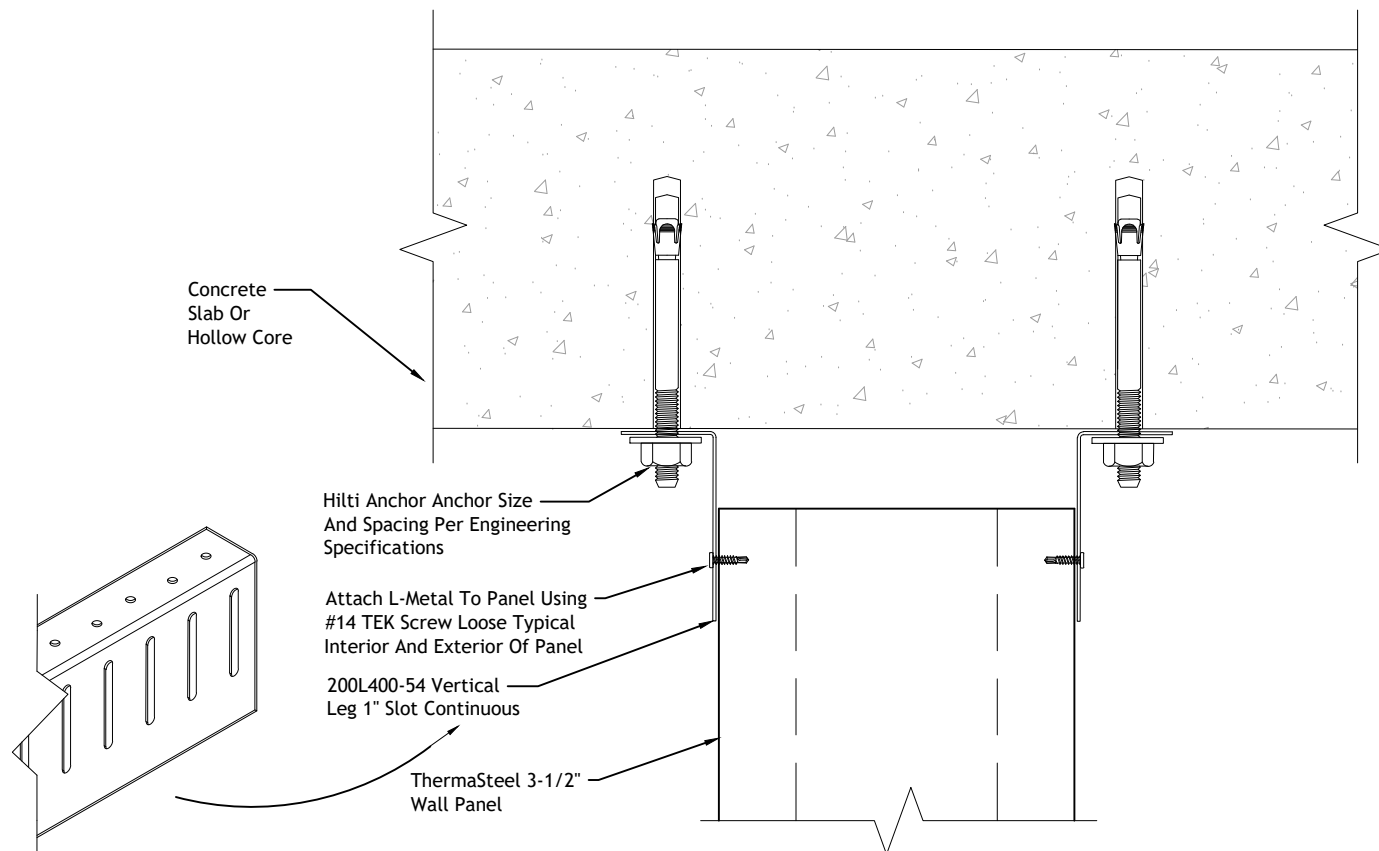
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Top Slip Track Connection To Pre-Stressed Concrete Planks With Camber

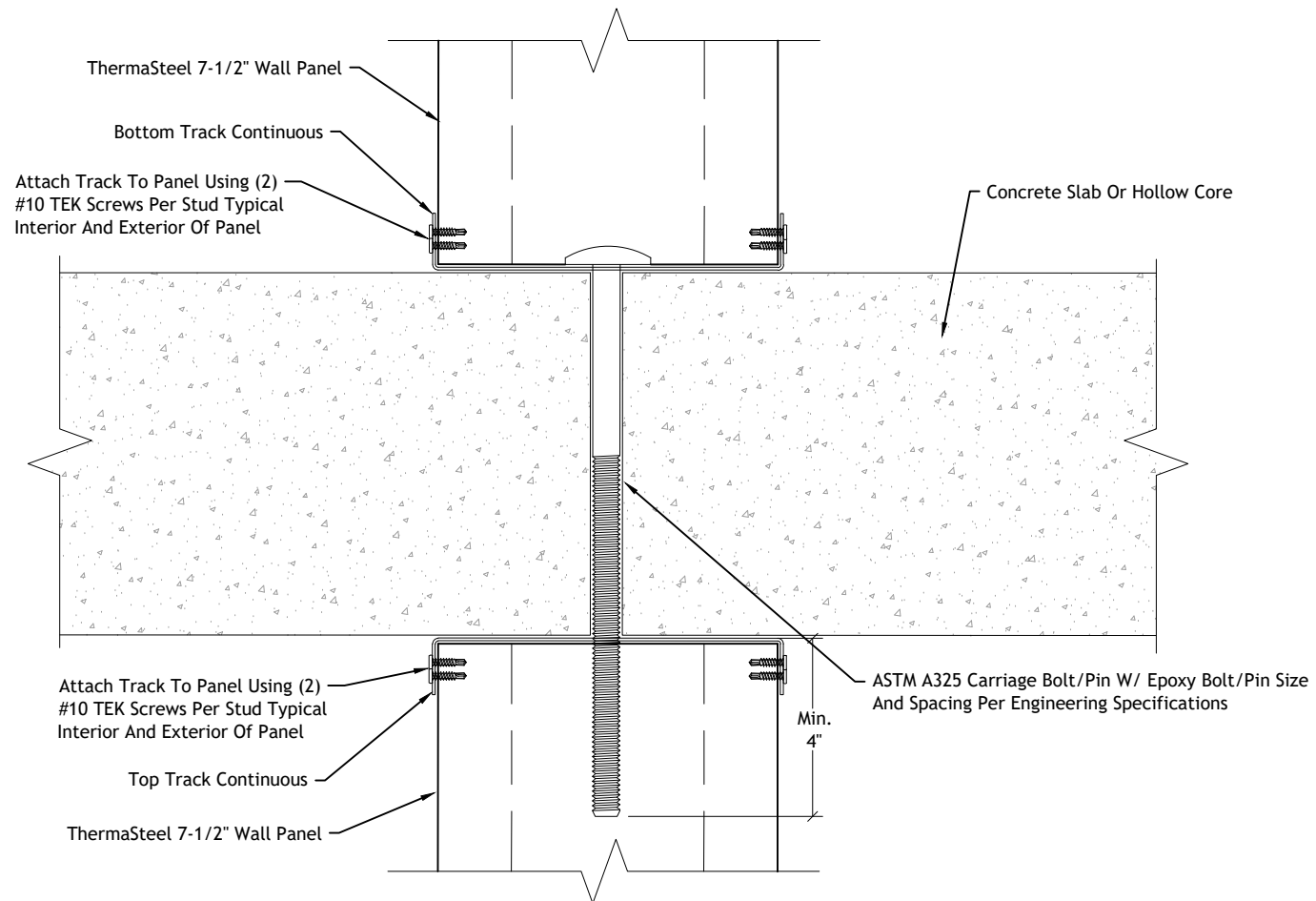
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-010

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Typical Interior Track Connection To Overlapping Partitions

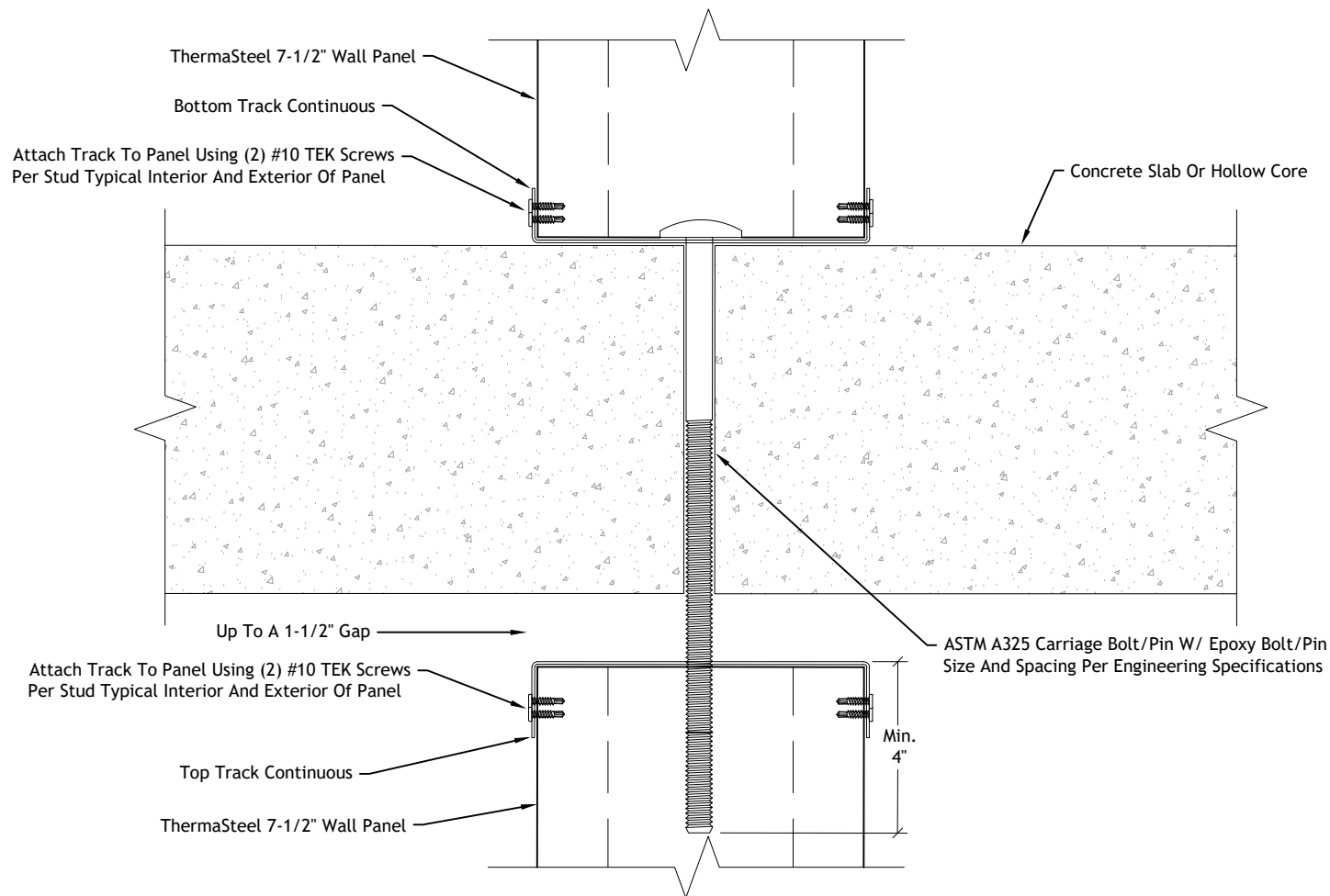
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-011

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Typical Interior Track Connection To Overlapping Partitions On A Non-Load Bearing Wall

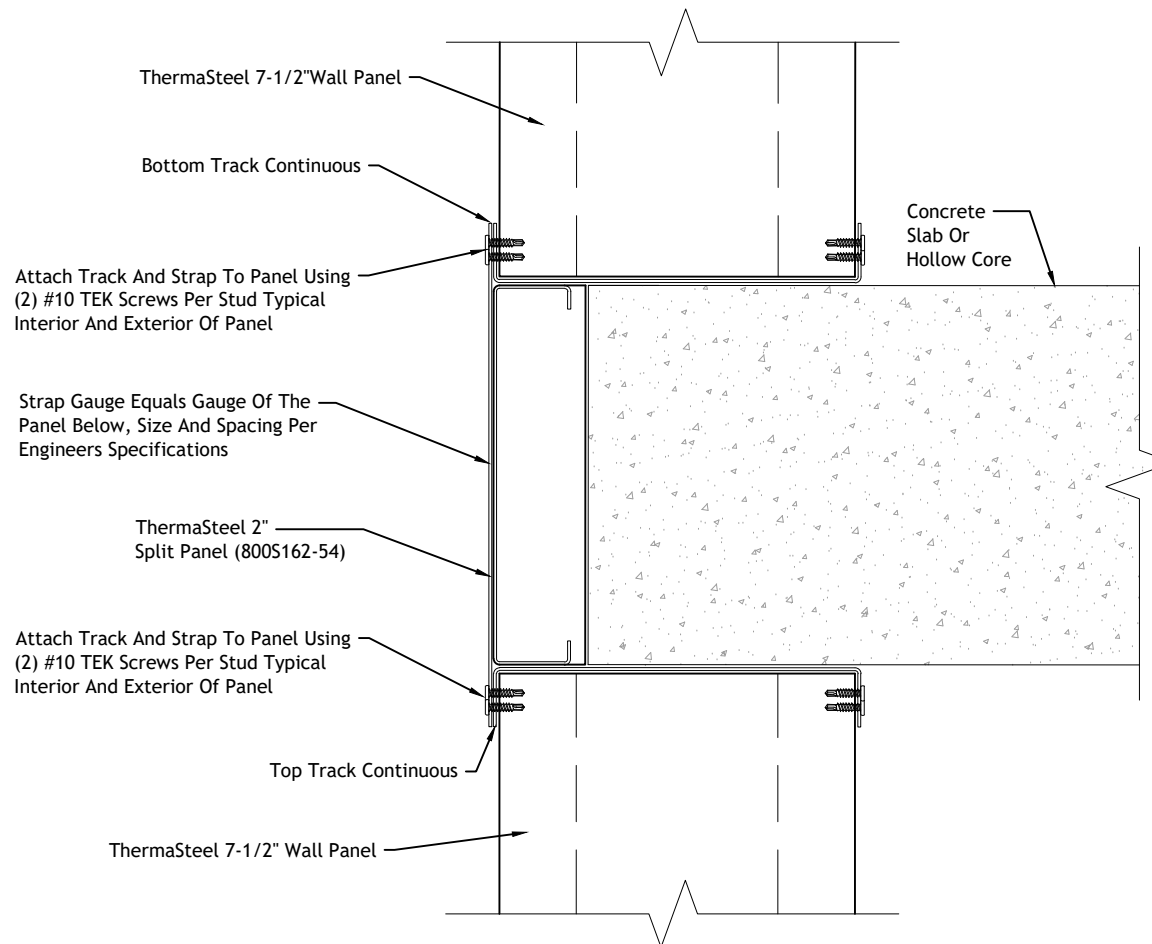
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-012

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Insulation Band Connection With Strap

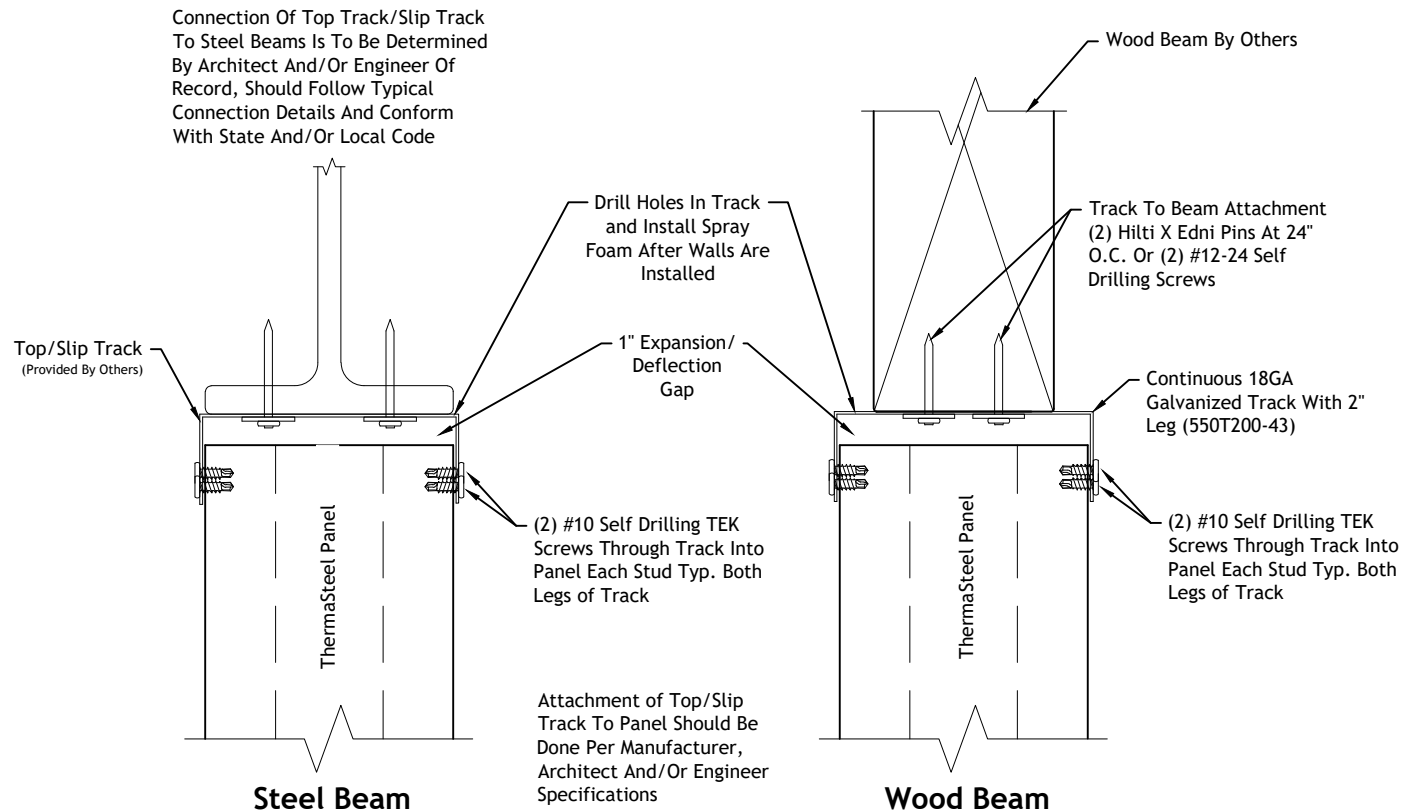
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-013

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Track Connection To Steel And Wood Beams

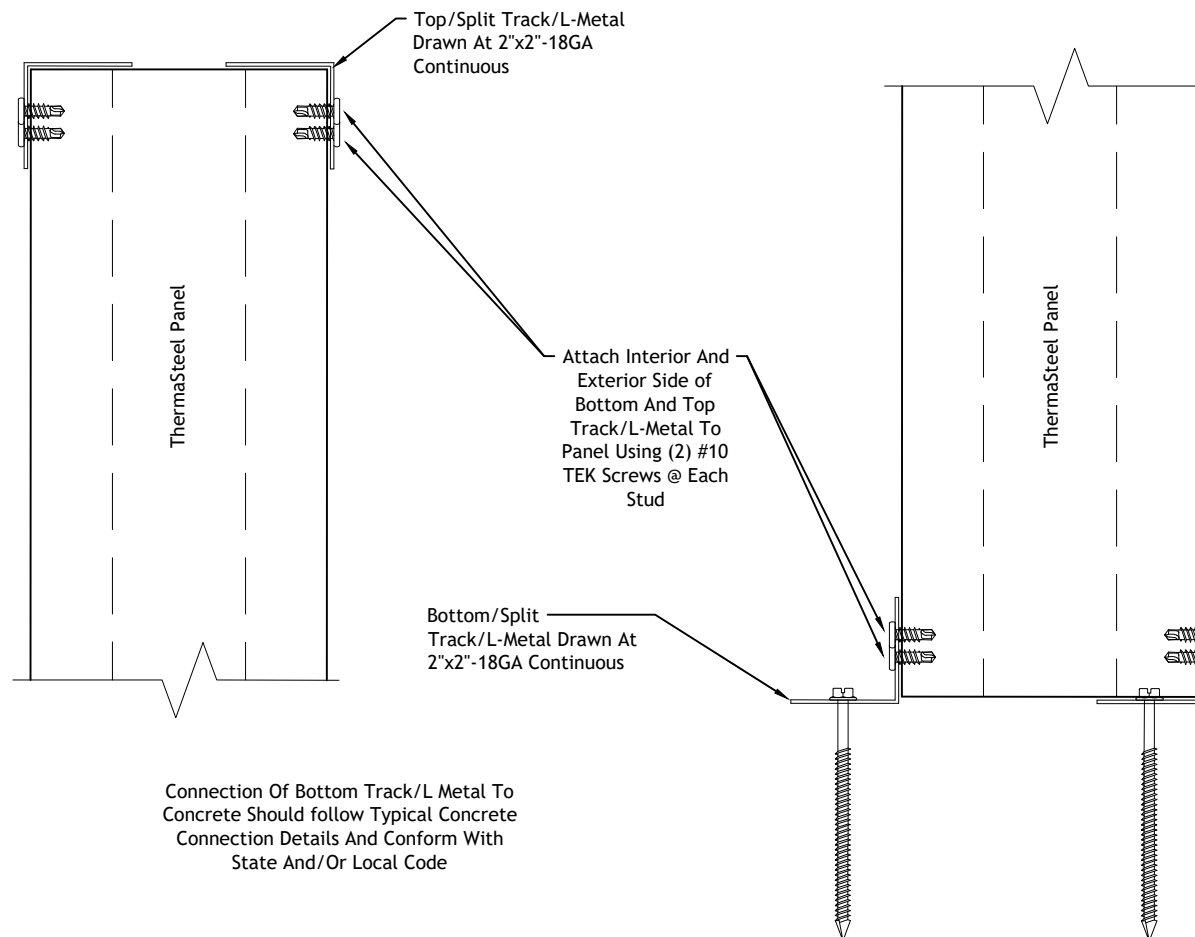
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-014

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Typical Top And Bottom Panel To Split Track Connection

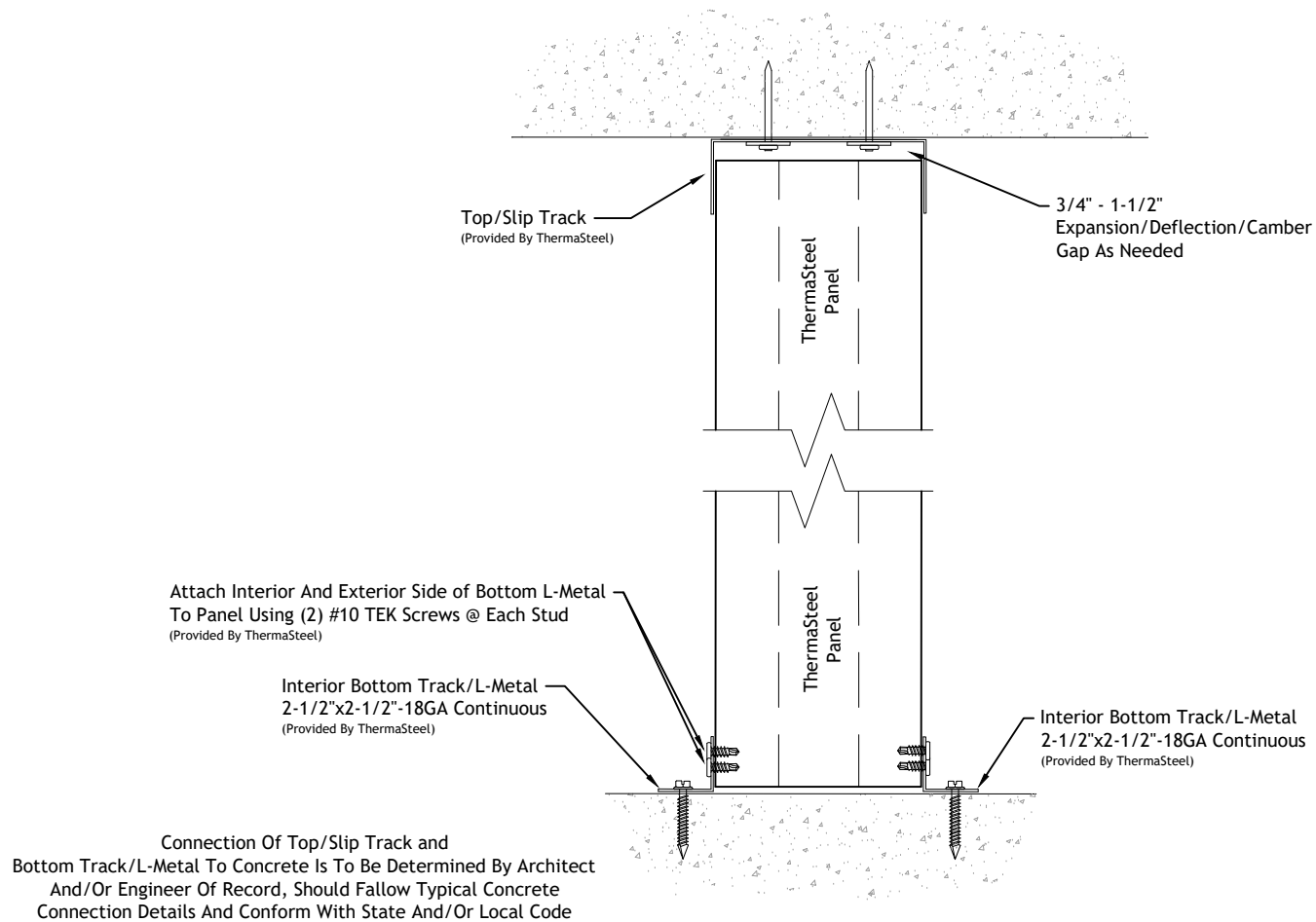
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-015

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel Hold Downs And Track Connections

Typical Split Top And Bottom Track Connection

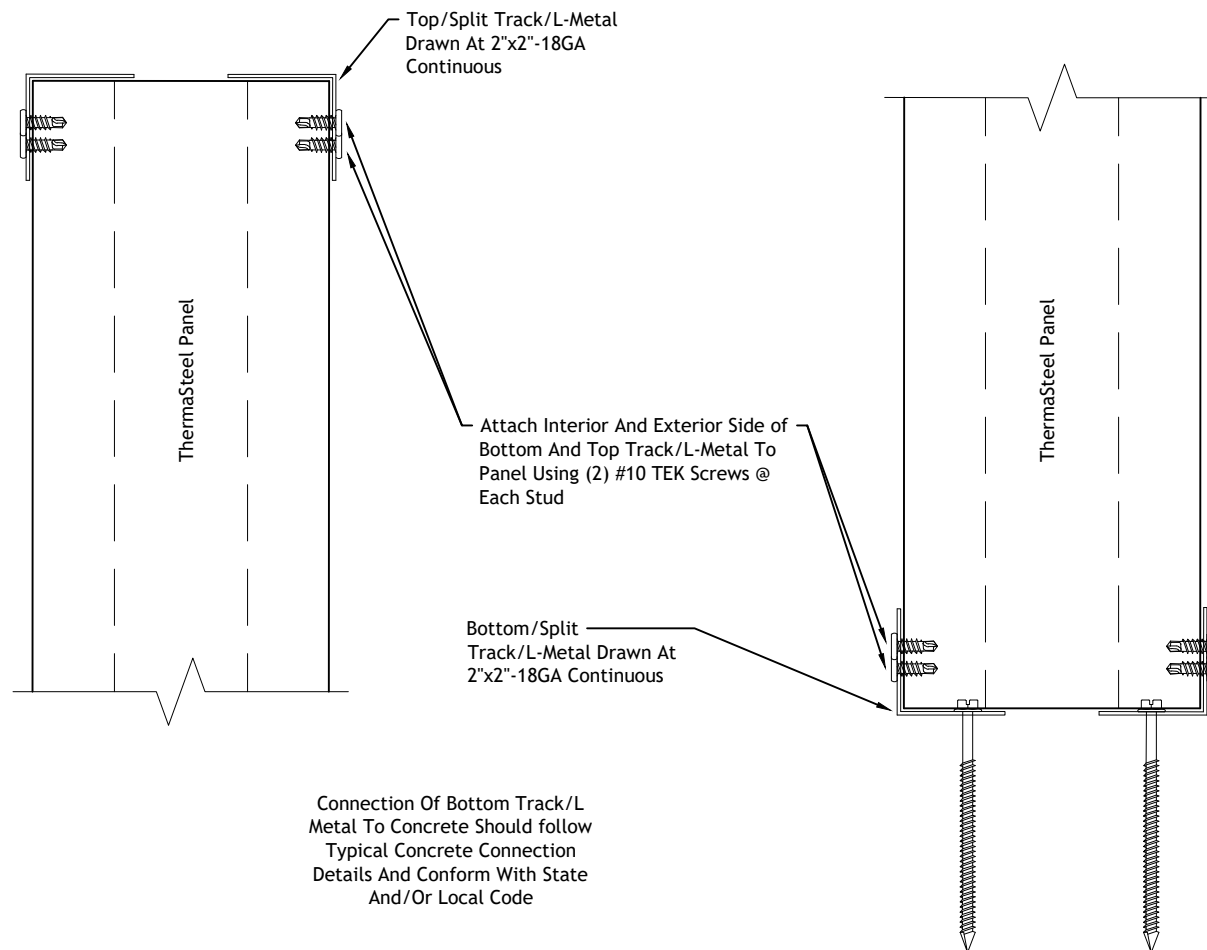
Not To Scale

Rev: 11/30/2021

Drawing Number

HD-016

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel Hold Downs And Track Connections

Typical Split Top And Bottom Track Connection Alternative

Not To Scale

Rev: 11/30/2021

Drawing Number

HD-017

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Headers/Sills

HS-001 Typical Header/Boxed Beam

HS-002 Typical Exploded Header With Stiffeners

HS-003 Typical Bottom Chord Structural Combination Header

HS-004 Typical Top Chord Structural Combination Header

HS-005 Combo Header Panels Detail

HS-006 Header Panel Detail

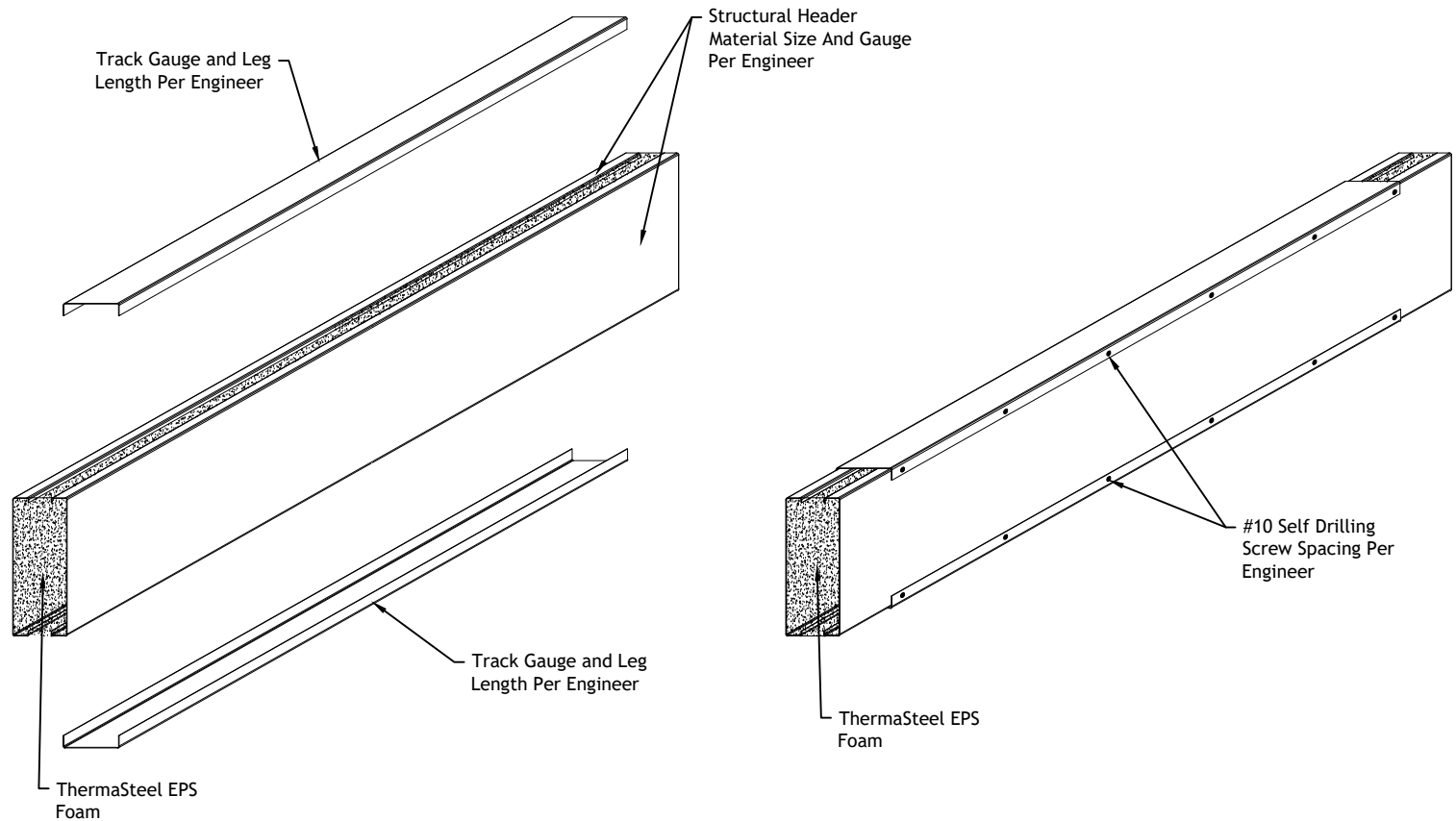
HS-007 Sill Panel Detail

HS-008 Typical Connection Of Header/Sill To Wall Panel

HS-009 Typical Garage/Large Opening Header

HS-010 Typical Header/ Sill/ Wall Connections

[Back To Connection Detail
Chapters](#)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Headers And Sills

Typical Header/Boxed Beam

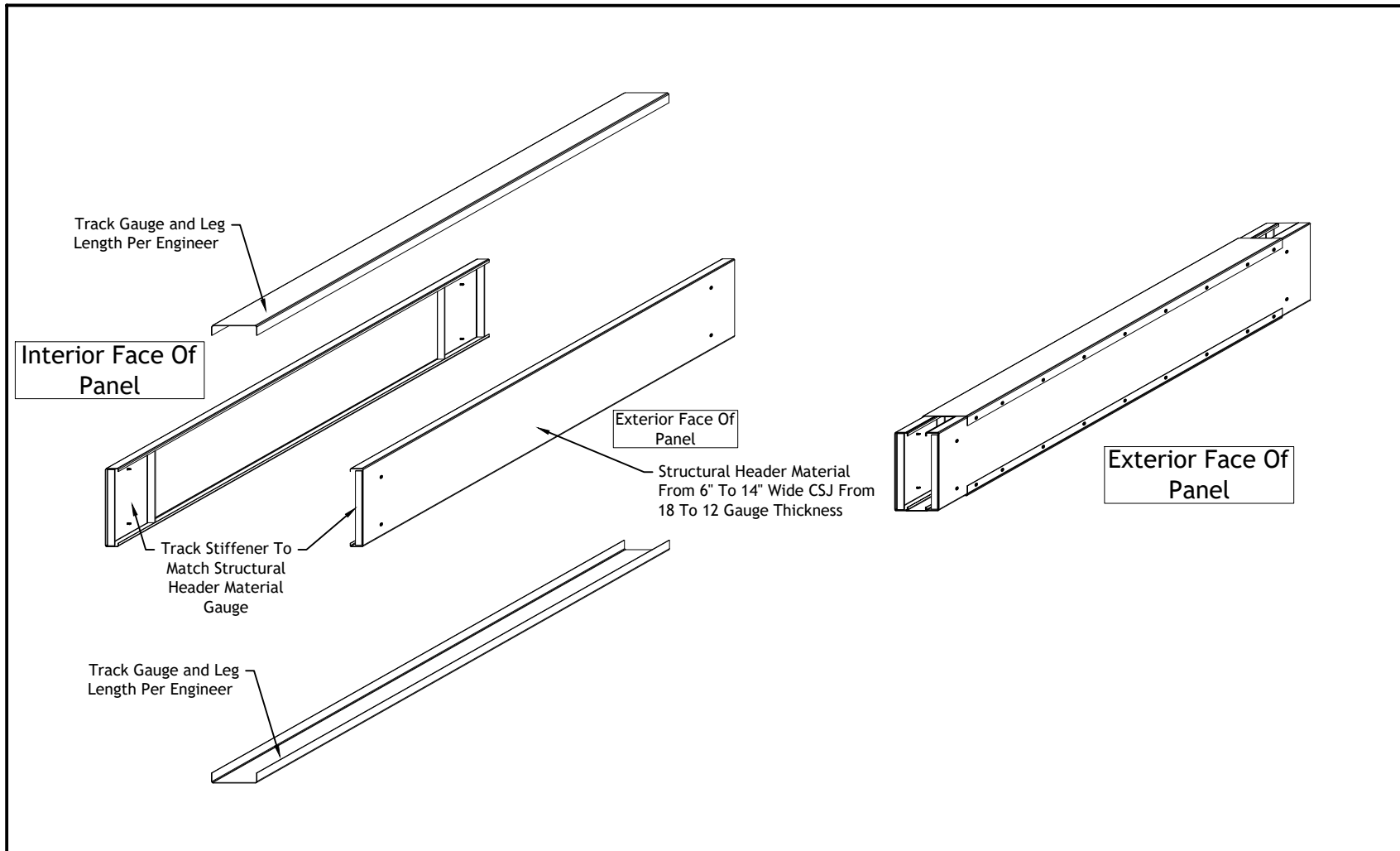
Not To Scale


Rev: 11/30/2021

Drawing Number

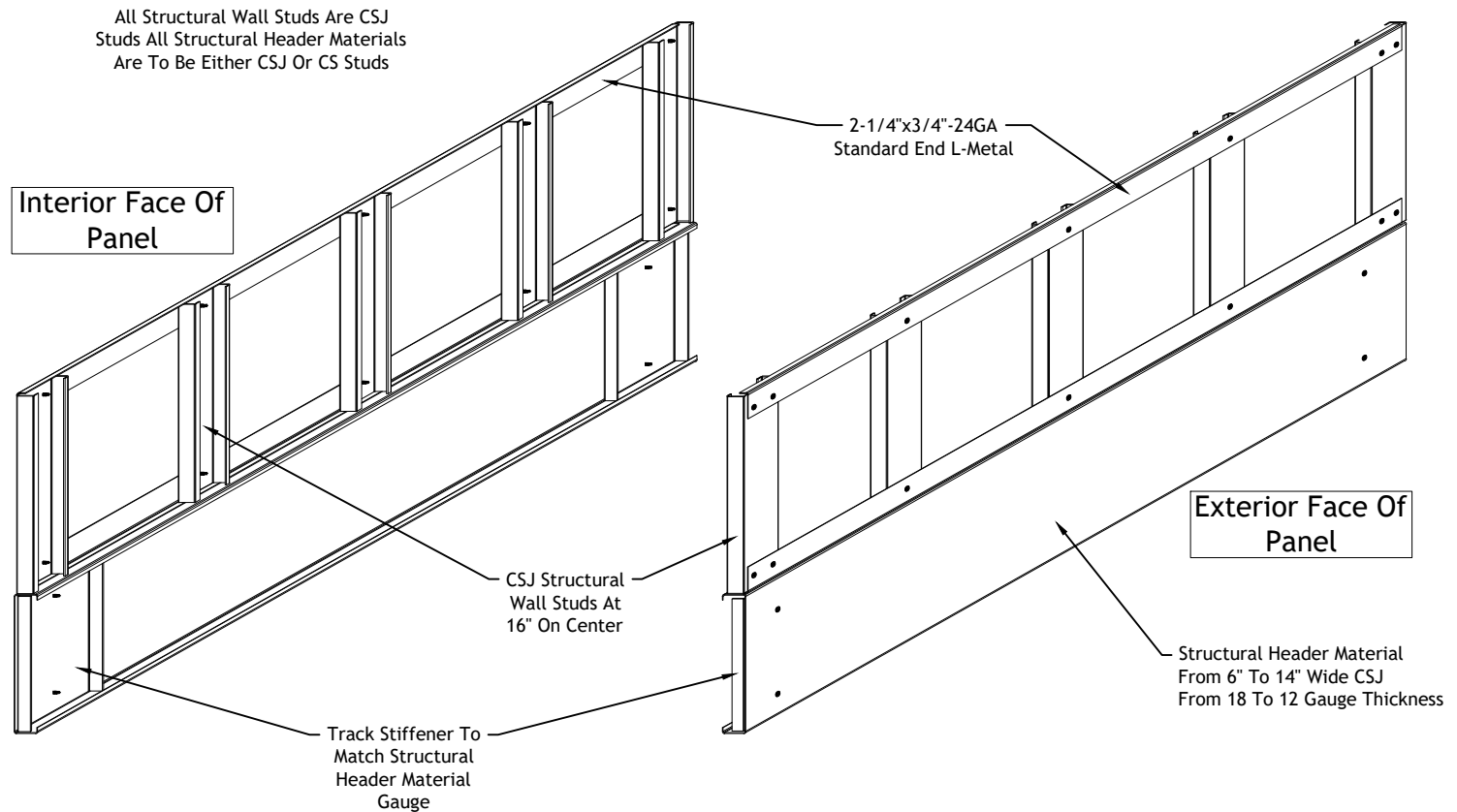
HS-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|---|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Headers And Sills | |
| | Typical Exploded Header With Stiffeners | |
| | | |
| | | |
| | | Not To Scale Rev: 11/30/2021 Drawing Number HS-002 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Headers And Sills

Typical Bottom Chord Structural Combination Header

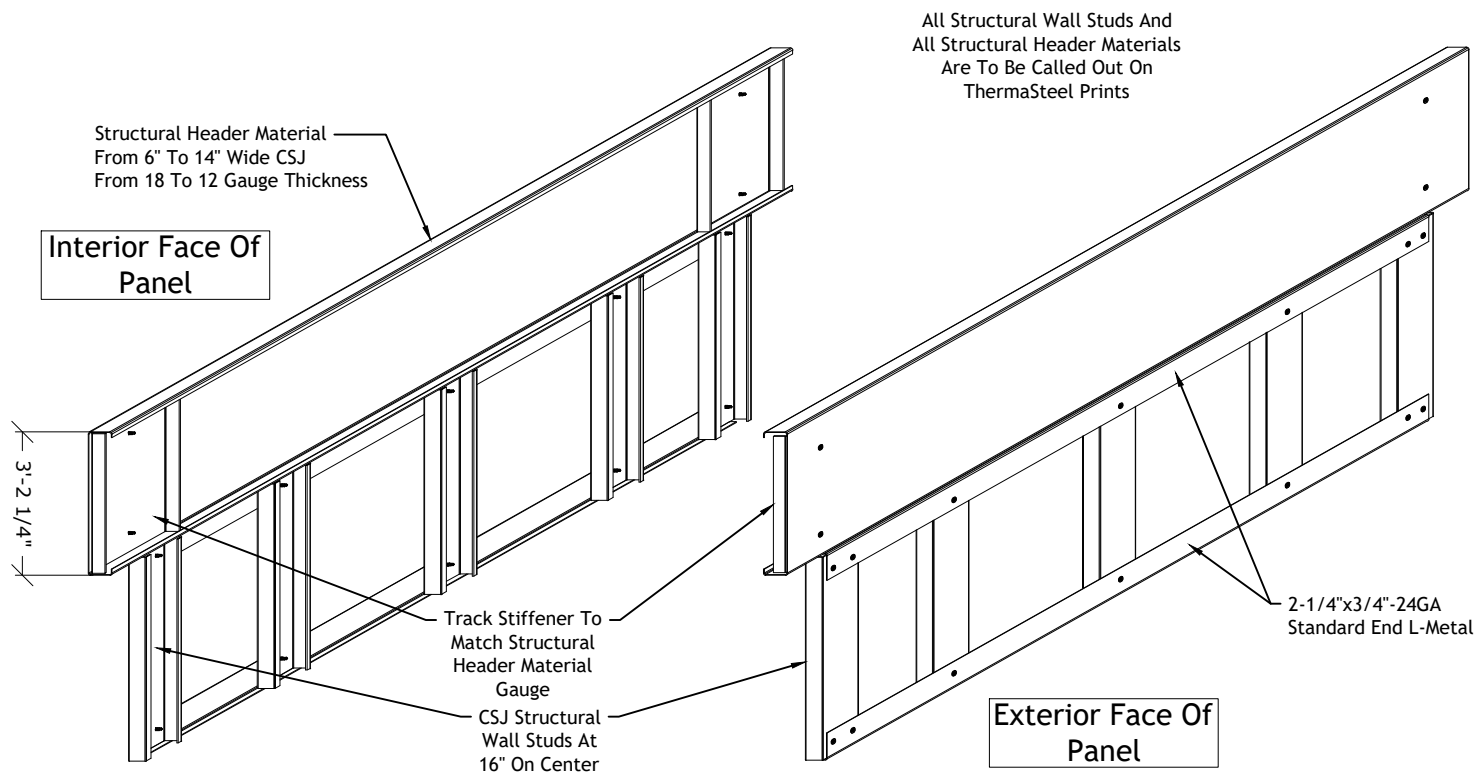
Not To Scale

Rev: 11/30/2021

Drawing Number

HS-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Headers And Sills

Typical Top Chord Structural Combination Header

Not To Scale

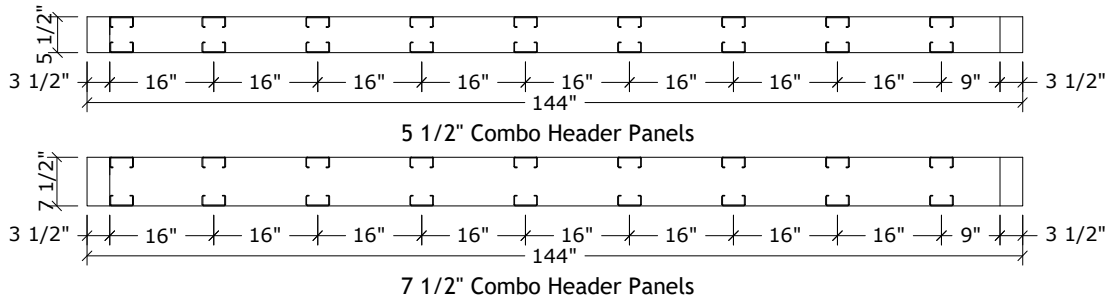
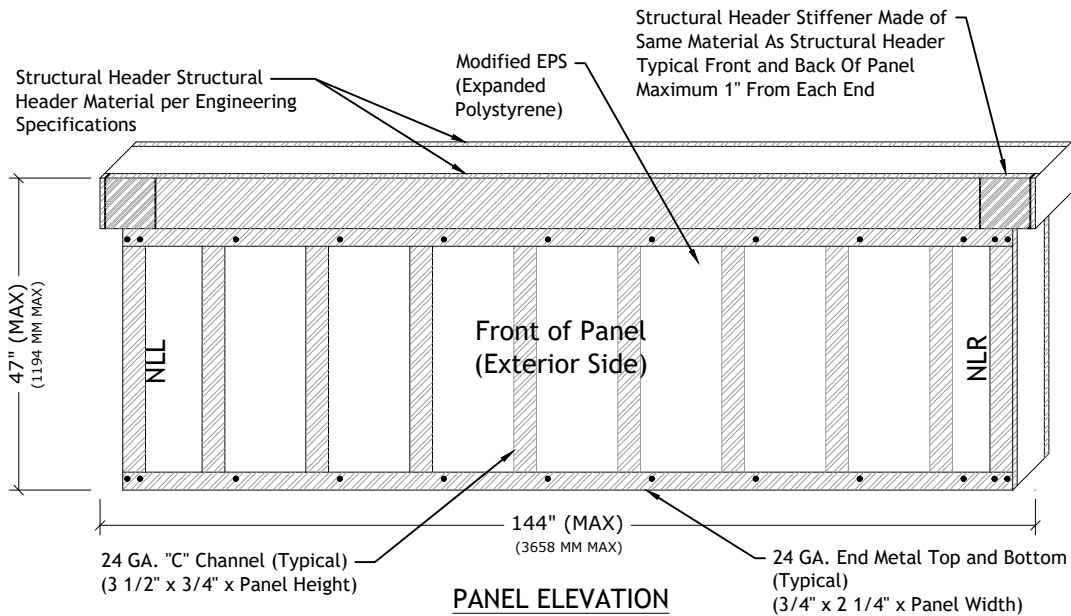
Rev: 11/30/2021

Drawing Number

HS-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

A Combo Header consists of a combination of a load bearing header panel and a non-load bearing filler panel



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)
(WIRE CHASES NOT TYPICAL ON THIS PANEL, INSTALLED UPON REQUEST)



THERMASTEELTM
ADVANCED PANEL SYSTEM

Headers And Sills

Combo Header Panels Detail

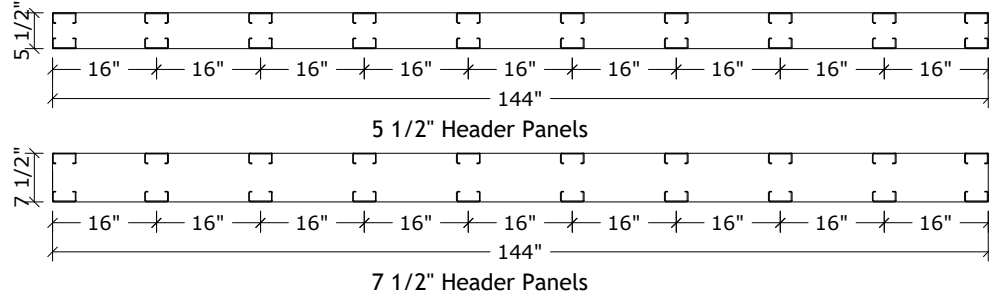
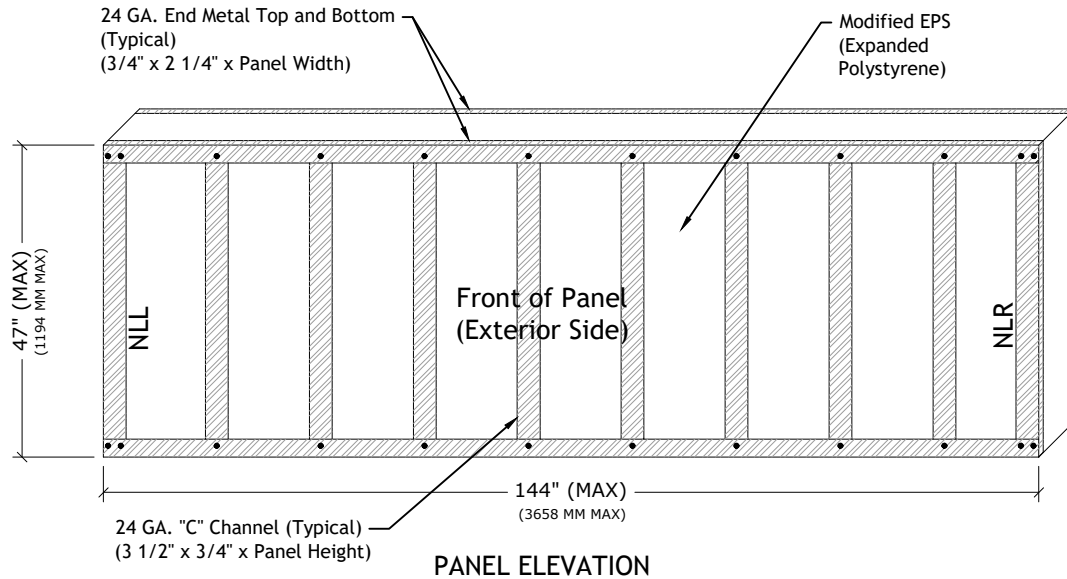
Not To Scale

Rev: 11/30/2021

Drawing Number

HS-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



BOTTOM VIEW

FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)
(WIRE CHASES NOT TYPICAL ON THIS PANEL, INSTALLED UPON REQUEST)



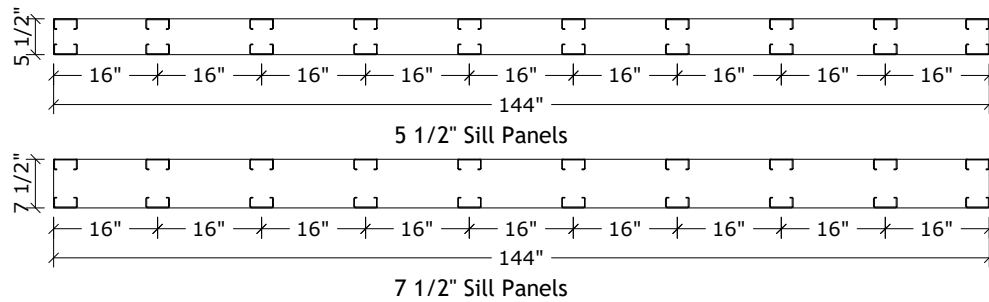
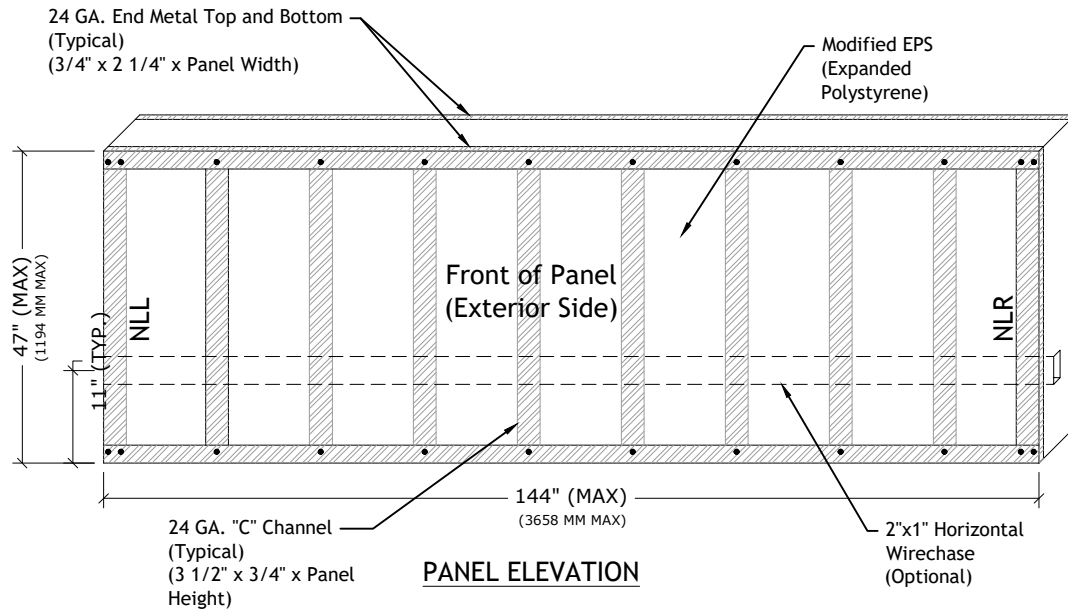
THERMASTEEL™
ADVANCED PANEL SYSTEM

Headers And Sills

Header Panels Detail

Not To Scale
Rev: 11/30/2021
Drawing Number
HS-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



BOTTOM VIEW

FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



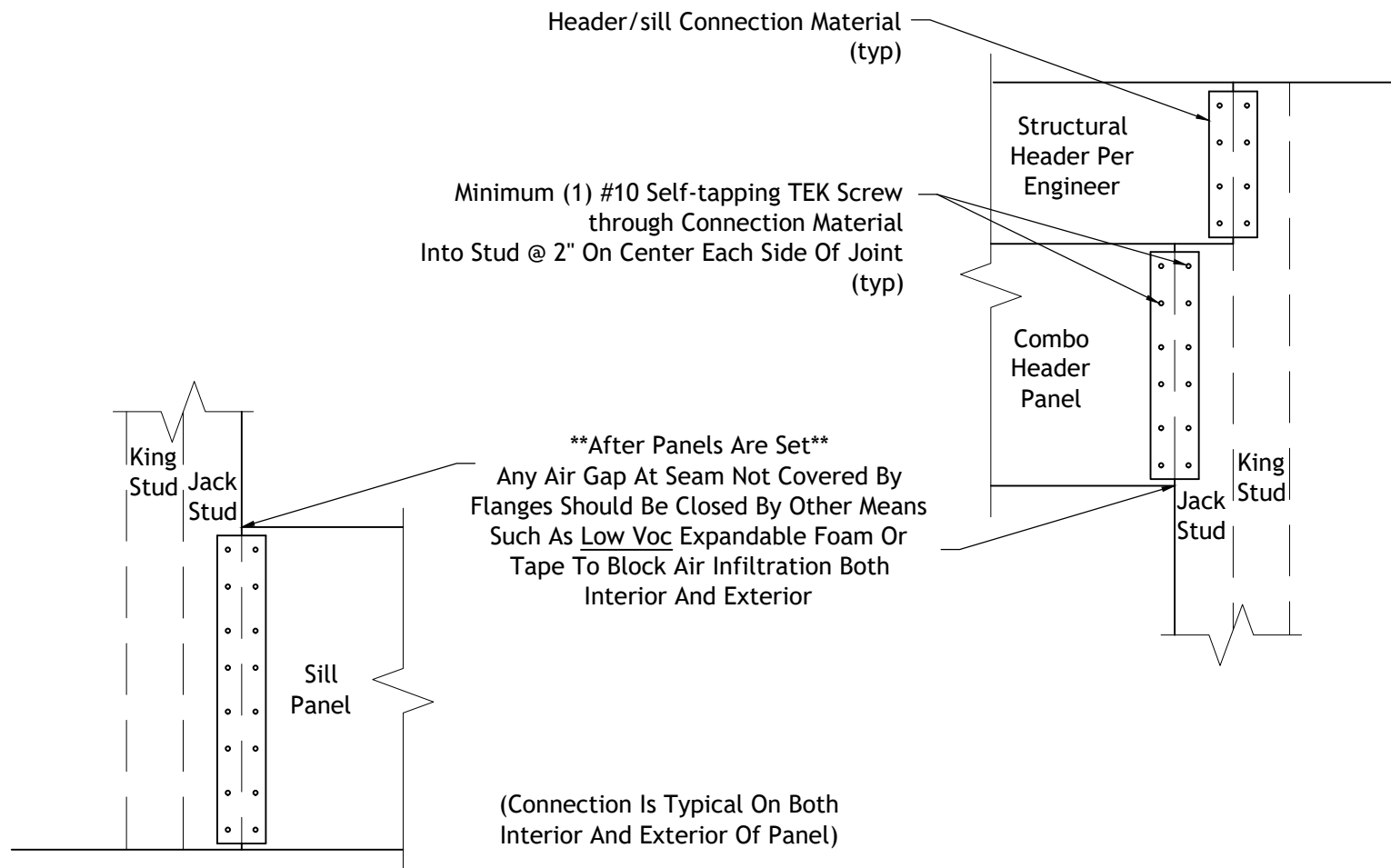
THERMASTEELTM
ADVANCED PANEL SYSTEM

Headers And Sills

Sill Panels Detail

Not To Scale
Rev: 11/30/2021
Drawing Number
HS-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Headers And Sills

Typical Connection Of Header/Sill To Wall Panel

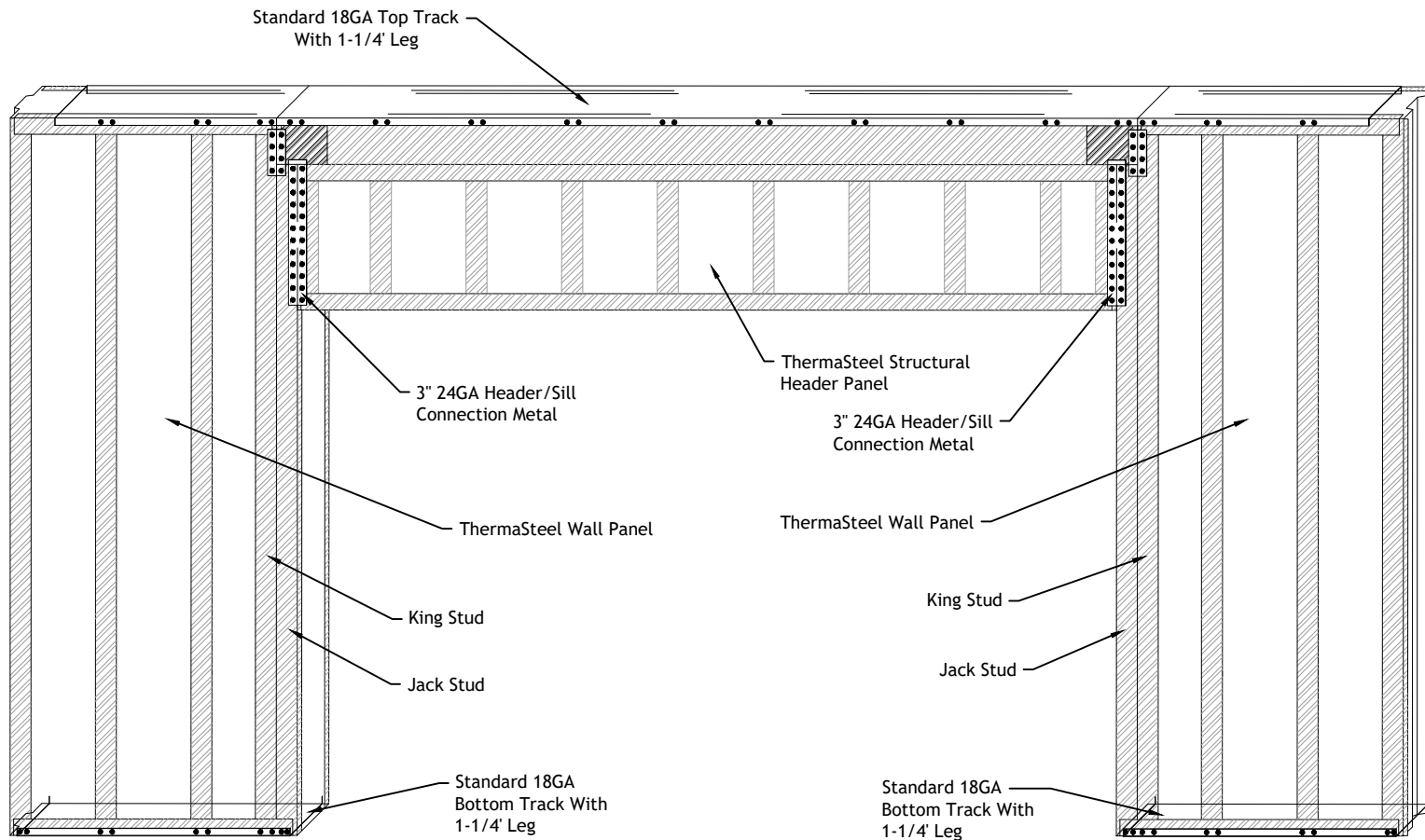
Not To Scale

Rev: 5/22/2023

Drawing Number

HS-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Headers And Sills

Typical Garage/Large Opening Header

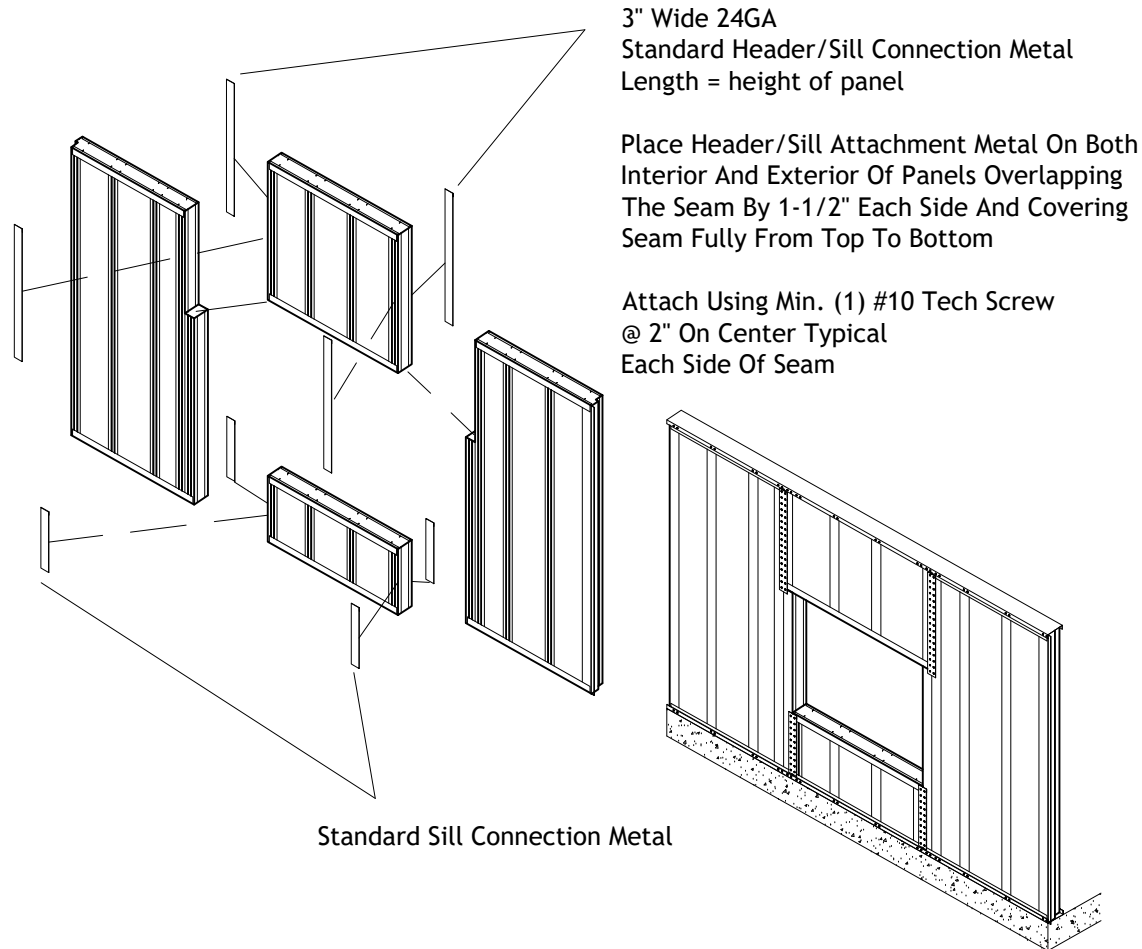
Not To Scale

Rev: 11/30/2021

Drawing Number

HS-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Headers And Sills

Typical Header/Sill/Wall Connections

Not To Scale

6/29/2023

Drawing Number

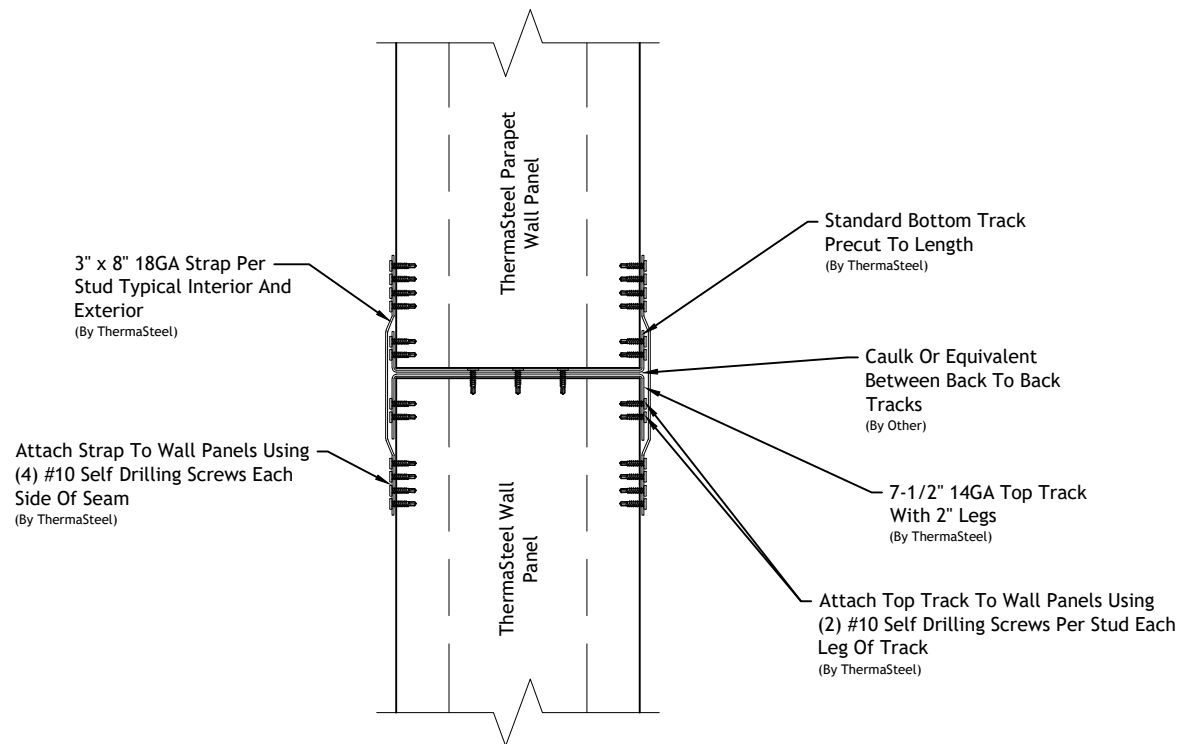
HS-010

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Panel To Panel Connections

- PP-001 Typical Multi-Level Panel Connection - Section View
- PP-002 Typical Interior Attachment Plate Connection
- PP-003 Typical Staggered Panel/Multi-Panel Connection
- PP-004 Typical Panel To Panel No Lap Corner Connection
- PP-005 Typical Panel To Panel 90° Corner Connection
- PP-006 Typical Panel To Panel Joint Connection
- PP-007 Typical Wall Panel to Ceiling Panel Connection
- PP-008 Typical Panel To Panel "T" Connection
- PP-009 Typical Panel To Panel Angled Corner Connection

[Back To Connection Detail
Chapters](#)



Panel To Panel Connections

Typical Multi Level Panel Connection Section View

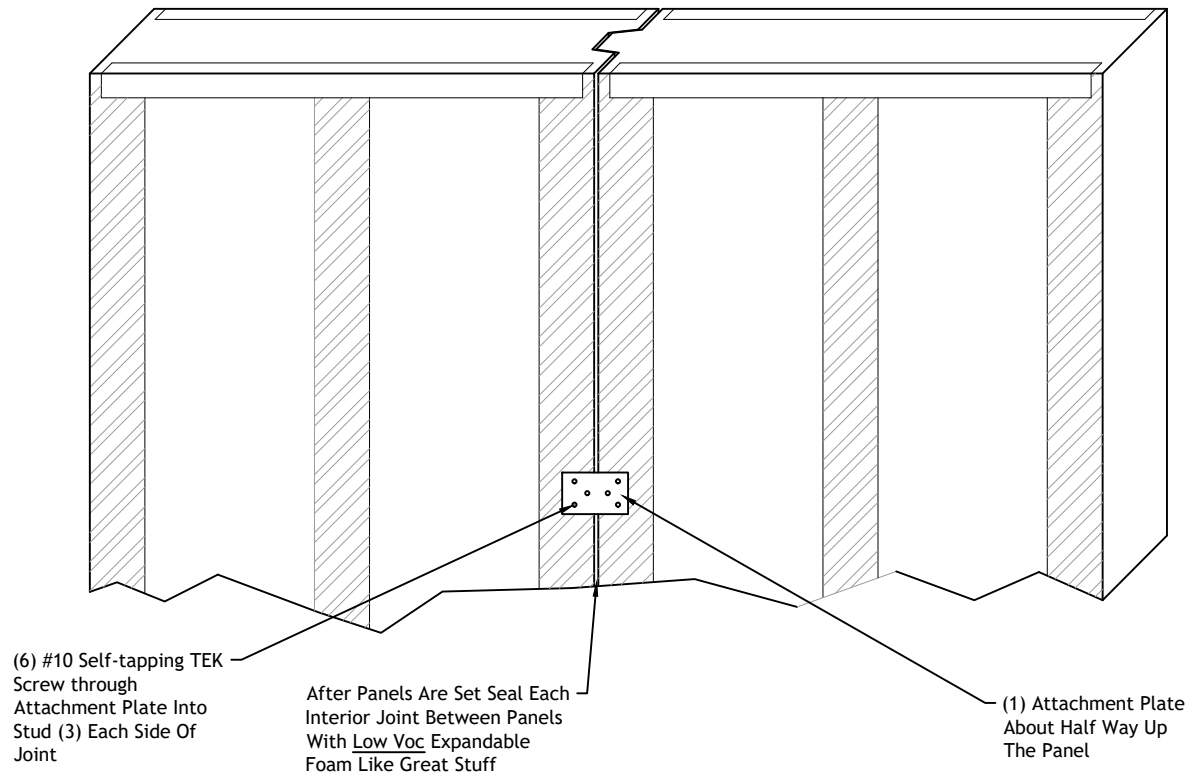
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



(Typical For All Panel Greater Than 9' Tall And All Stem/Basement Wall Panels)

(Connection Is Typical On Interior Of Panel Only)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel To Panel Connections

Typical Interior Attachment Plate Connection

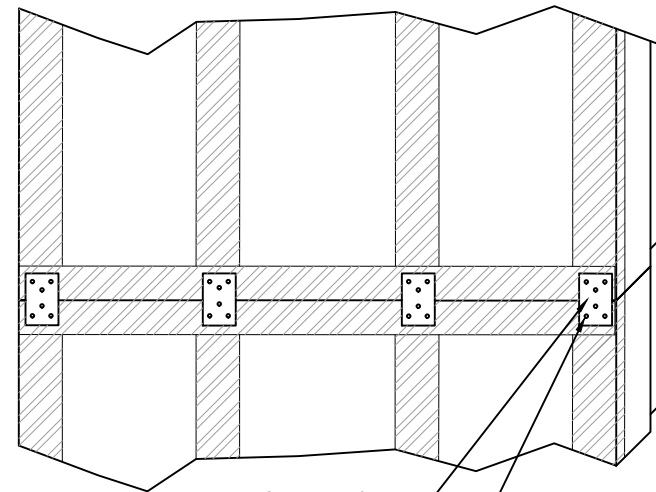
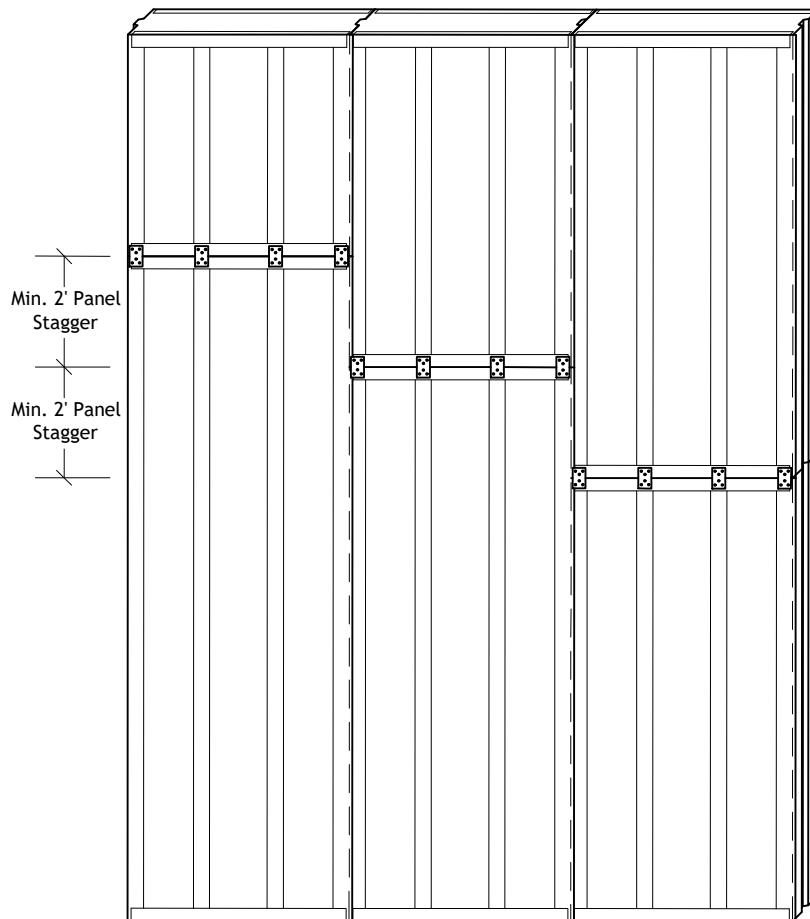
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



(1) 3"x5" Attachment Plate At Each Stud Location Typical Interior And Exterior Of Panel

Minimum (6) #8 Self-tapping TEK Screw through Attachment Plate Into Stud (3) Each Side Of Joint

(Connection Is Typical On Both Interior And Exterior Of Panel)



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Panel To Panel Connections

Typical Staggered Panel/Multi-Panel Connection

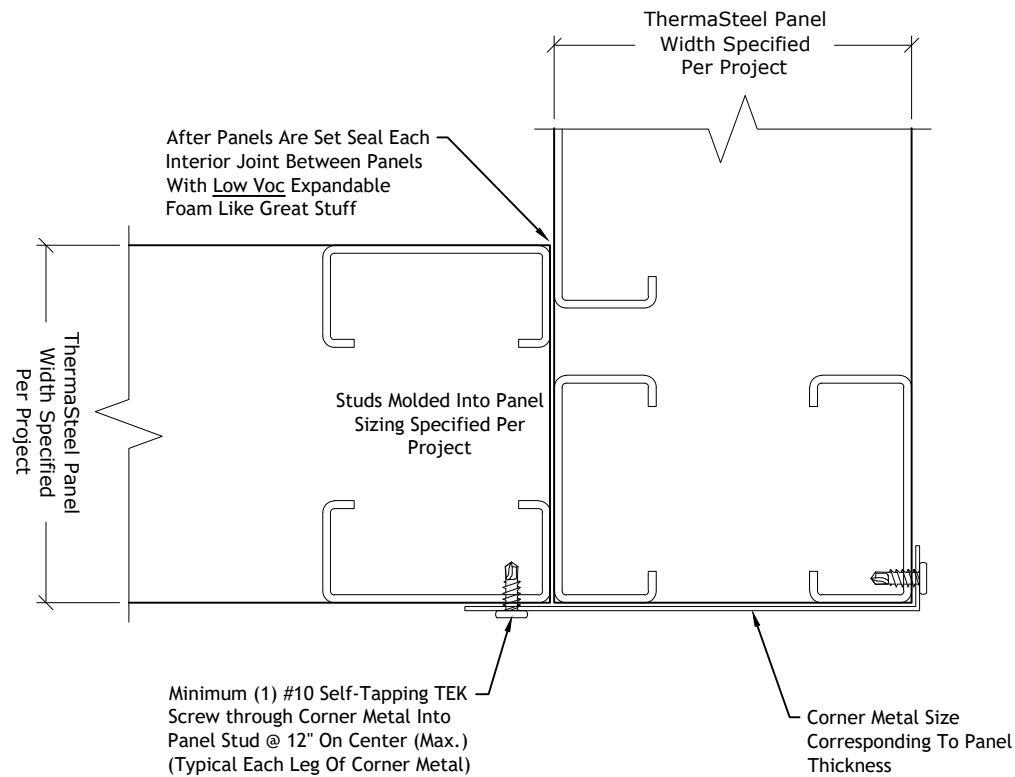
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel To Panel Connections

Typical Panel To Panel No Lap Corner Connection

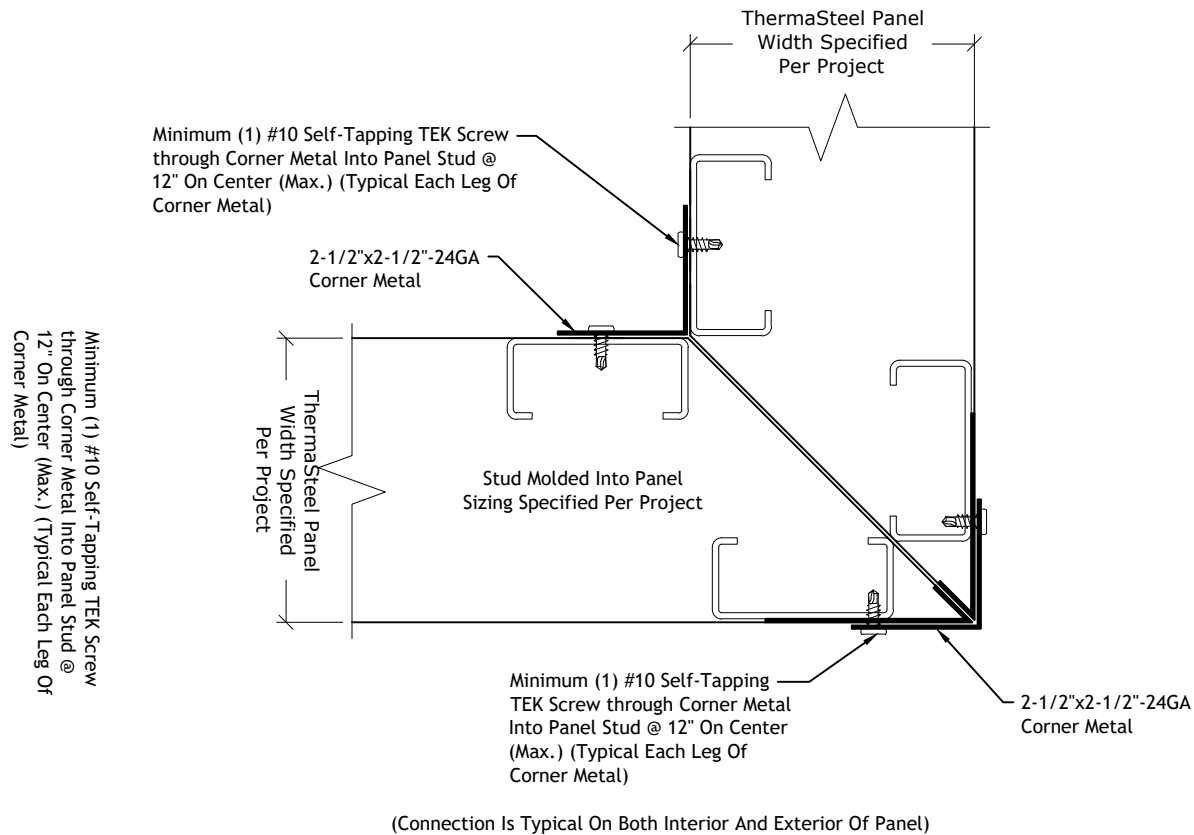
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Panel To Panel Connections

Typical Panel To Panel 90° Corner Connection

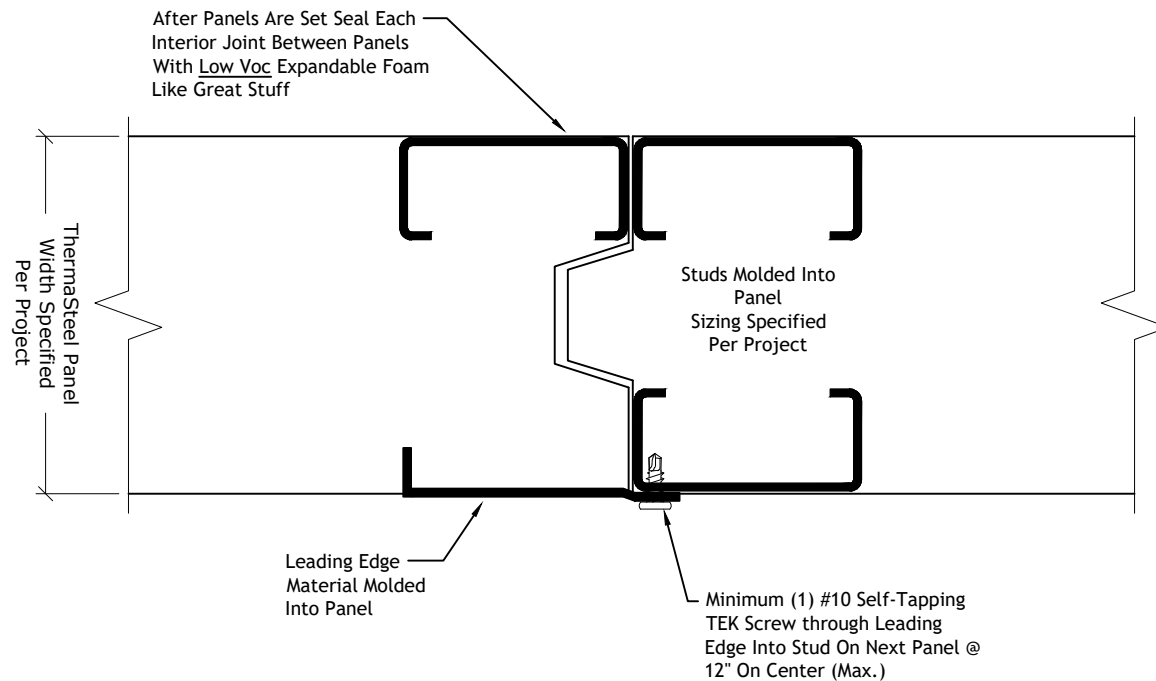
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel To Panel Connections

Typical Panel To Panel Joint Connection

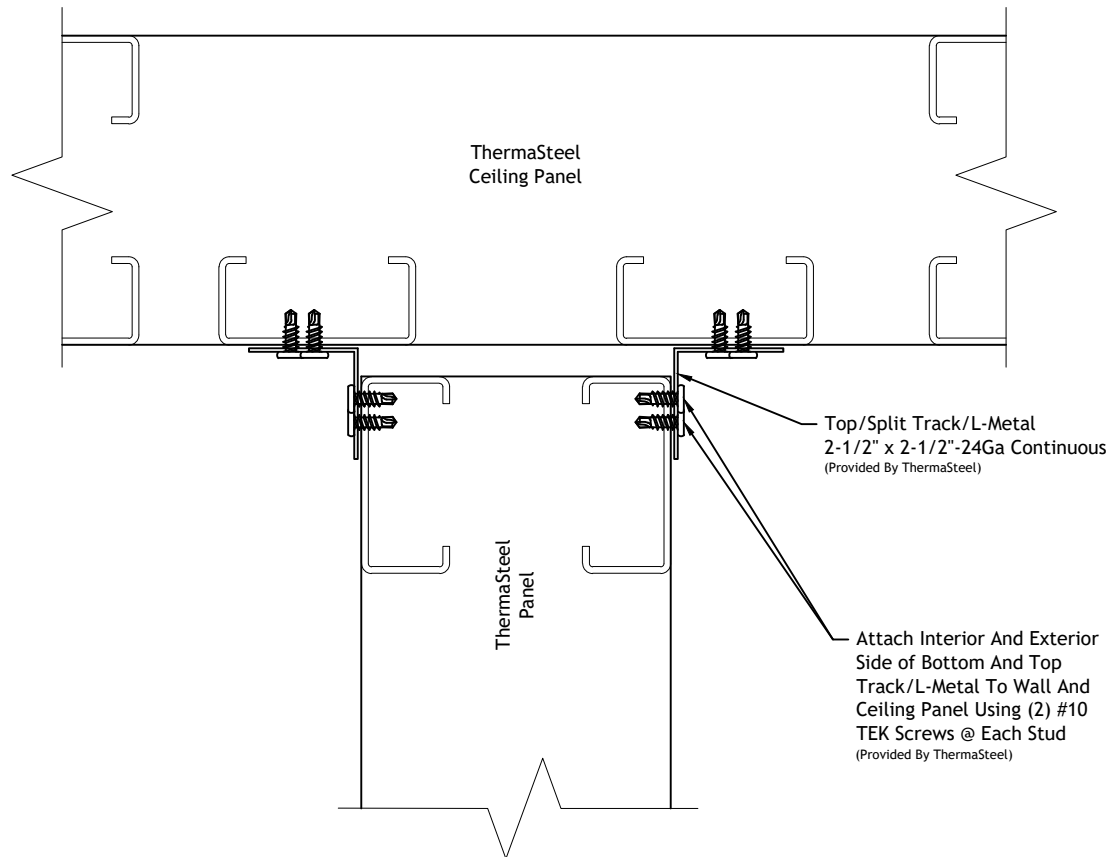
Not To Scale

Rev: 11/30/2021

Drawing Number

PP-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel To Panel Connections

Typical Wall Panel to Ceiling Panel Connection

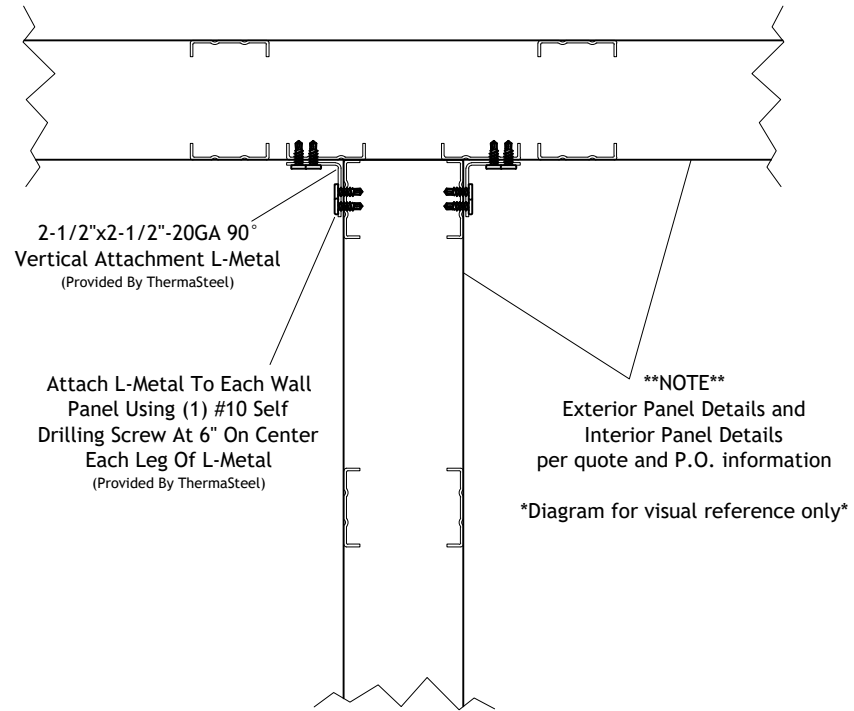
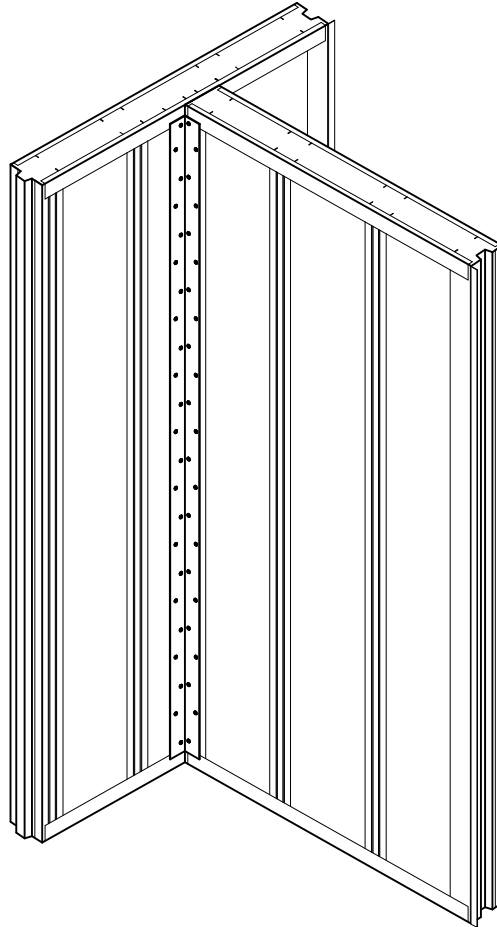
Not To Scale

Rev: 9/5/2023

Drawing Number

PP-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Typical Intersecting Panel Connection

(Connection Is Typical Each Side Of Intersecting Panel)



Panel To Panel Connections

Typical Panel To Panel "T" Connection

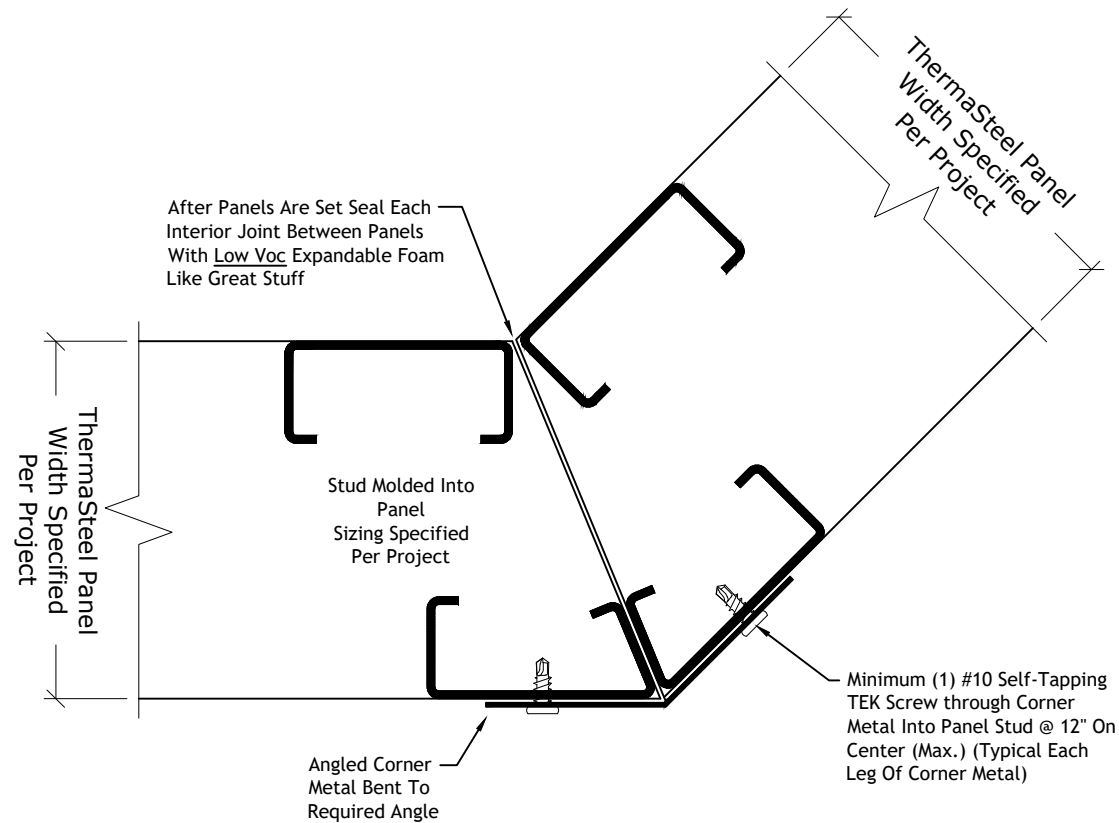
Not To Scale

Rev: 9/5/2023

Drawing Number

PP-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



(Connection Is Typical On Exterior Of Panel Only)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Panel To Panel Connections

Typical Panel To Panel Angled Corner Connection

Not To Scale

Rev: 9/5/2023

Drawing Number

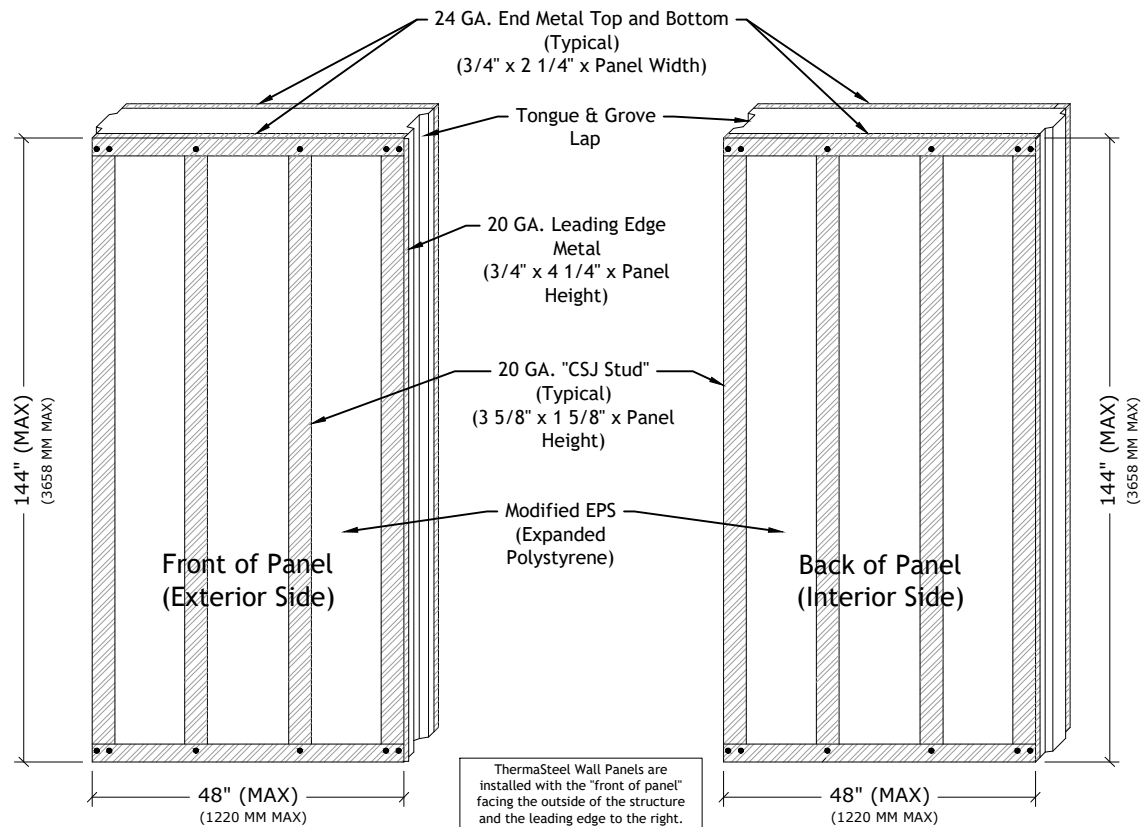
PP-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

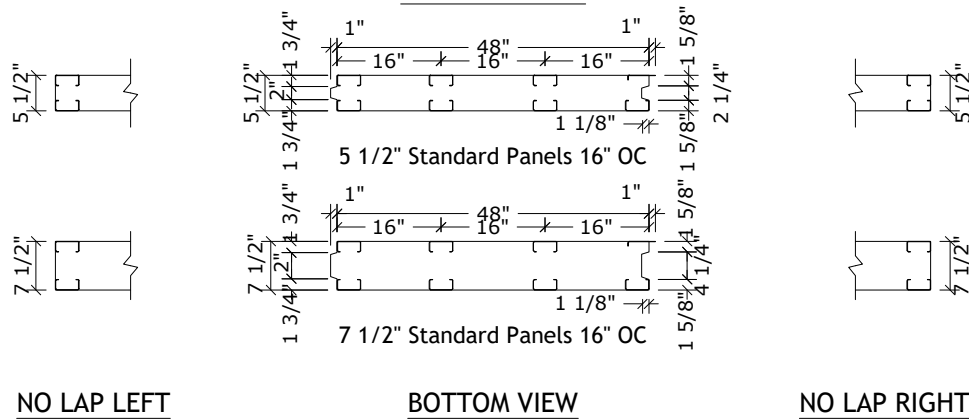
Roof Connections

- RC-001 Standard Roof Panel Detail
- RC-002 Typical Roof Panel Connection To Wall System - Section View
- RC-003 Typical Roof Panel Connection At Purlin/Rafter - Section View
- RC-004 Typical Flush Roof Panel Connection At Gable Ends - Section View
- RC-005 Typical Roof Panel Connection At Ridge Beam - Section View
- RC-006 Typical Ridge Cap Connection - Section View
- RC-007 Typical Roof Truss/Simpson Strap To Panel Connection
- RC-008 Typical Metal/Joist To Wall And Roof Panel Connection - Section View
- RC-009 Typical Overhang Of Roof Panel Connection - Section View
- RC-010 Typical Roof Panel To Truss Connection - Section View
- RC-011 Typical Roof Panel To Metal Truss Connection - Section View
- RC-012 Typical Wall To Flush Roof Panel Connection - Section View
- RC-013 Typical Panel Connection At Gable End With Overhang - Section View
- RC-014 Typical Roof Panel With Overhang And Reinforced Top Plate Connection, High Wind Speed - Section View
- RC-015 Typical Flush Roof Panel And Reinforced Top Plate Connection, High Wind Speed - Section View
- RC-016 Typical Roof Panel Connection To Wall Over Boxed Beam - Section View
- RC-017 Typical Roof Panel To Panel Connection At Purlin - Section View
- RC-018 Typical Roof Panel At Eve/Peak End Connections - Section Views
- RC-019 Typical Roof Truss To Wall Panel Connection

[Back To Connection Detail
Chapters](#)



PANEL ELEVATION



FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)
(WIRE CHASES NOT TYPICAL ON THIS PANEL, INSTALLED UPON REQUEST)



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Roof Connections

Standard Roof Panel
Detail

Not To Scale

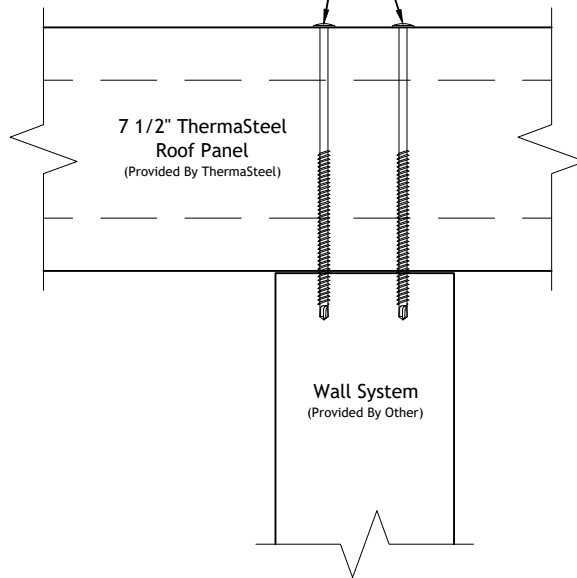
Rev: 11/30/2021

Drawing Number

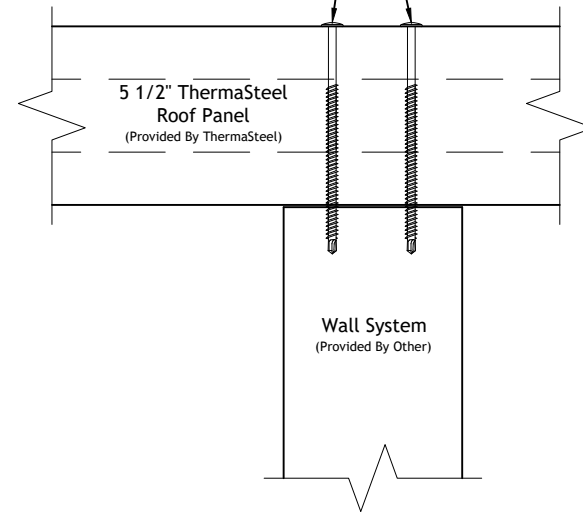
RC-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Wall System Using
(2) 7'-10" long Light Gauge Attachment Screw
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud Or At 16" On Center
(Screws by others)



Attach Roof Panels To Wall System Using
(2) 7'-10" long Light Gauge Attachment Screw
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud Or At 16" On Center
(Screws by others)



Roof Connections

Typical Roof Panel To Wall System Connection Section View

Not To Scale

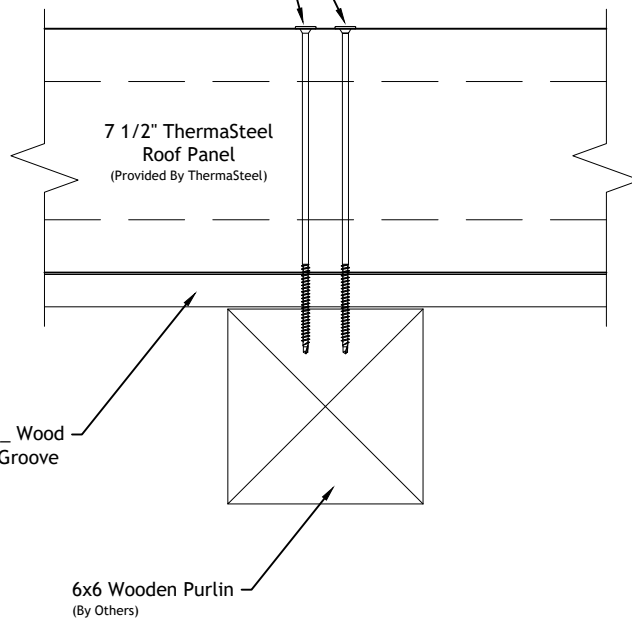
Rev: 11/30/2021

Drawing Number

RC-002

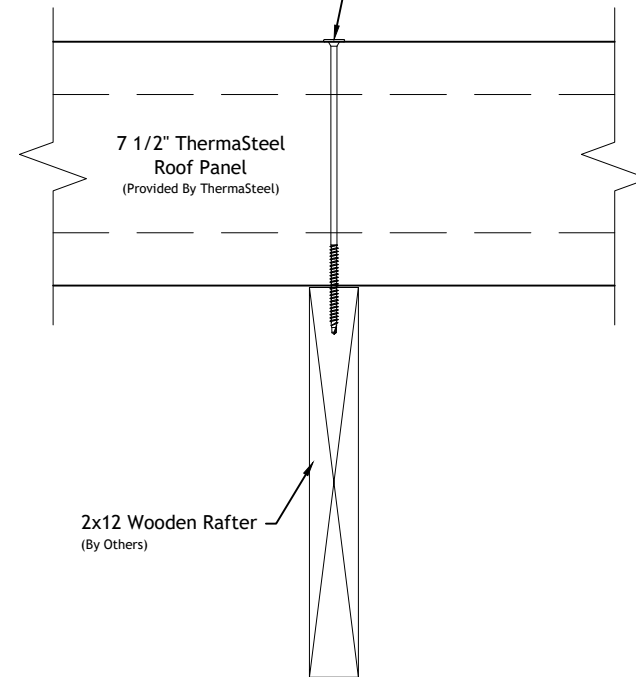
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Purlin
Using (2) 7'-10" long Self Drilling Screws
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud/Purlin Crossing
(Screws by others)



Roof Panel Attachment At Purlin

Attach Roof Panels To Rafter
Using (1) 7'-9" long Self Drilling Screw
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud/Roof Rafter Crossing
(Screws by others)



Roof Panel Attachment At Rafter



Roof Connections

Typical Roof Panel Connection At Purlin/Rafter Section View

Not To Scale

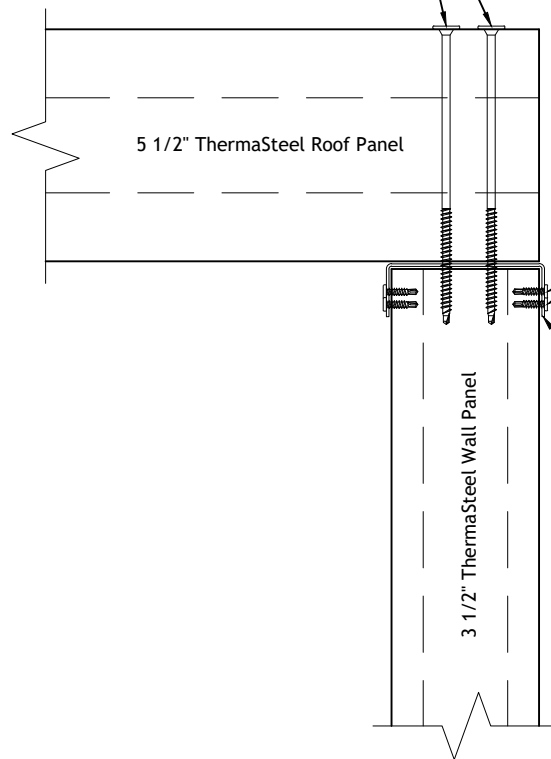
Rev: 11/30/2021

Drawing Number

RC-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Wall Panel Top Track
Using (2) 7"-10" long Self Drilling Screws
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud (Screws by others)



Attach Top Track To Wall
Panel Using (2) #10 Self
Drilling Screw Per Stud
Typical Interior And Exterior
(By ThermaSteel)

Standard 5-1/2" 18GA Top Track
(By ThermaSteel)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Flush Roof Panel
Connection Flush At Gable
Ends - Section View

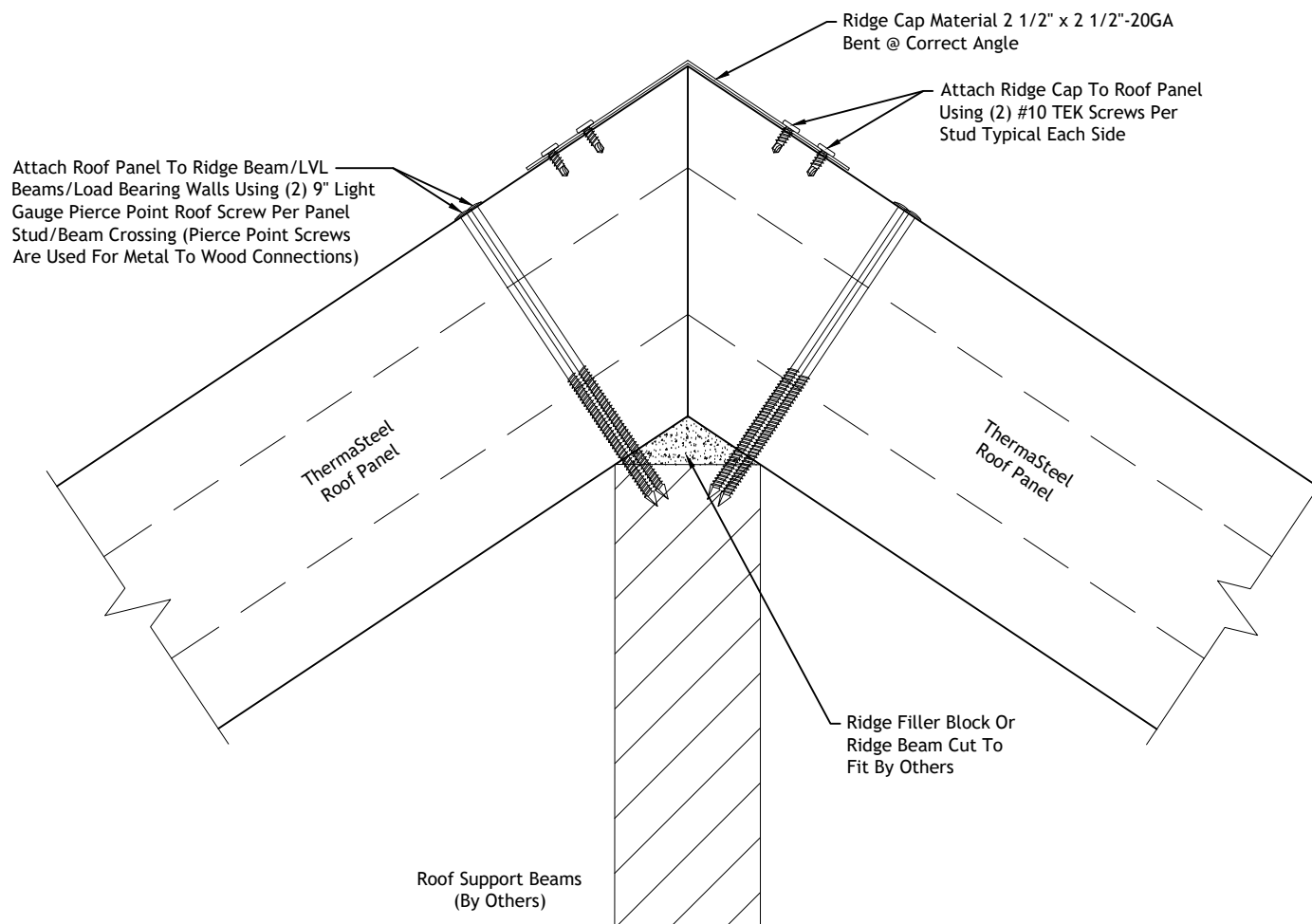
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Roof Panel Connection At Ridge Beam Section View

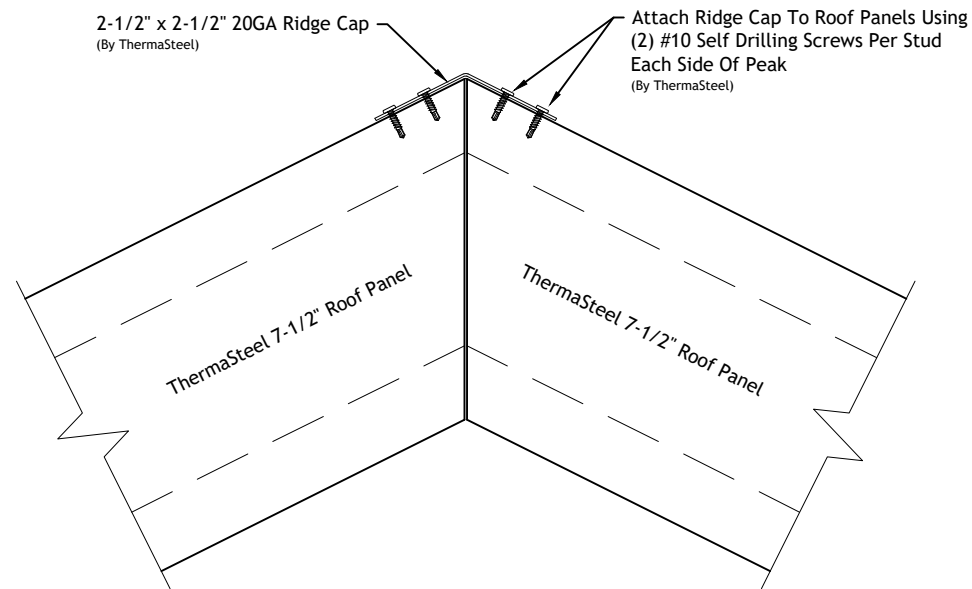
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Ridge Cap Connection Section View

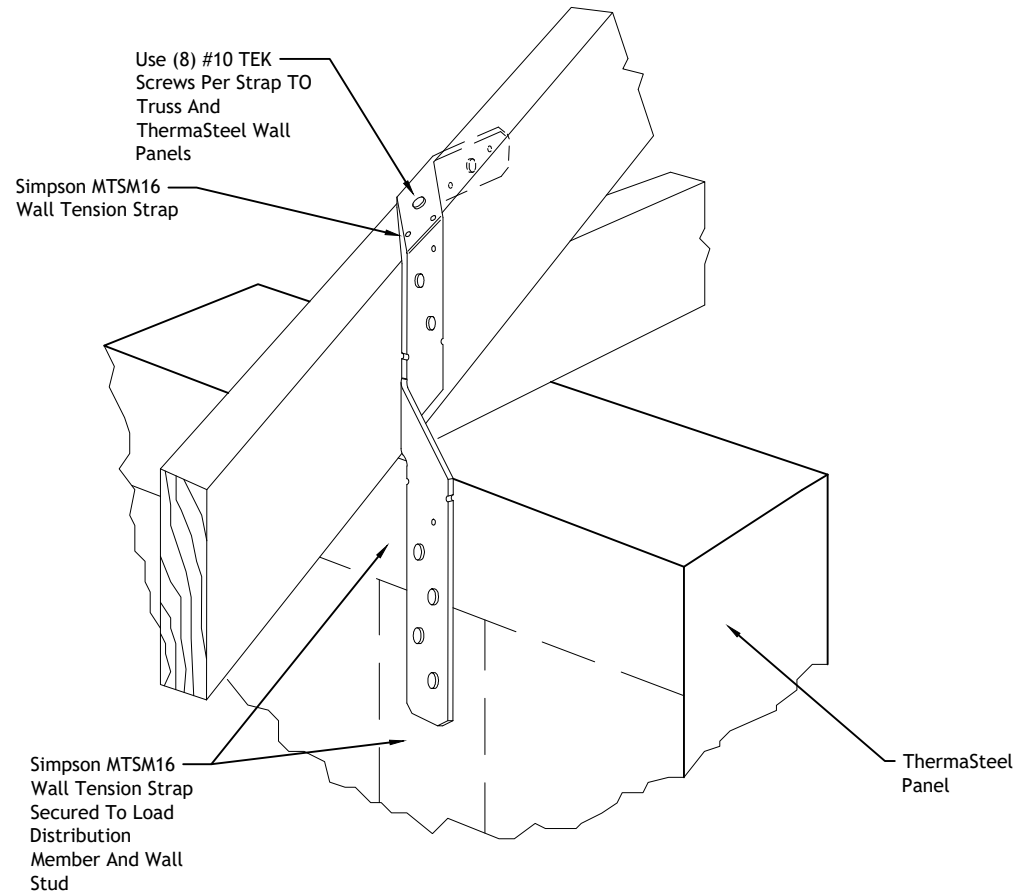
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Roof Truss/Simpson Strap To Panel Connection

Not To Scale

Rev: 11/30/2021

Drawing Number

RC-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Interior Side of Top Track through Rafter Ledge To Panel Using (2) #10-3/4" TEK Screws @ Each Stud

Bevel Top Track 18GA. 6-1/4" Inside Dimension (1-1/4" Front Leg Bent @ 63°, 1-1/4" Back Leg Bent @ 117°)

Attach Exterior Side of Top Track To Panel Using (2) #10 TEK Screws @ Each Stud

Rafter Clip 2"x2"x4"-18GA.

Attach Rafter Clip To Rafter Ledge Using (2) #10 TEK Screws Into Each Leg

Rafter Ledge 18GA. (8-3/4" Inside Dimension 3-1/4" Leg Bent @ 117°)

Attach Rafter Ledge To Panel Using (2) #10 TEK Screws @ Each Stud

Attach ThermaSteel Panel to Roof Rafter Using (1) 8" Heavy Gauge Self Drilling Screw Per Stud/Roof Rafter Crossing

Roof Rafter By Others

Attach Rafter Ledge To Rafter Using (1) #10 TEK Screws @ Each Rafter

Attach Joist Track To Panel Using (3) #10 TEK Screws @ Each Stud

Ceiling/Floor Joists By Others

Attach Joist Track To Joist Using (1) #10-3/4" TEK Screws @ Each Joist Each Leg Of Track



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Metal Rafter/Joist To Wall And Roof Panel Connection - Section View

Not To Scale

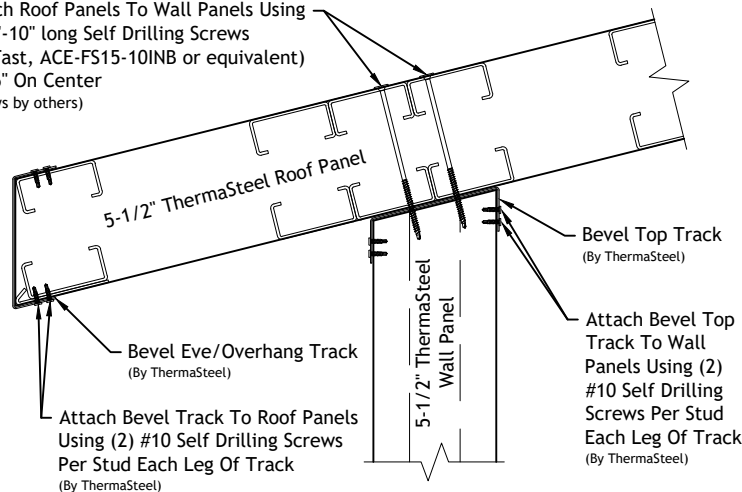
Rev: 11/30/2021

Drawing Number

RC-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Wall Panels Using
(2) 7"-10" long Self Drilling Screws
(TruFast, ACE-FS15-10INB or equivalent)
At 16" On Center
(Screws by others)

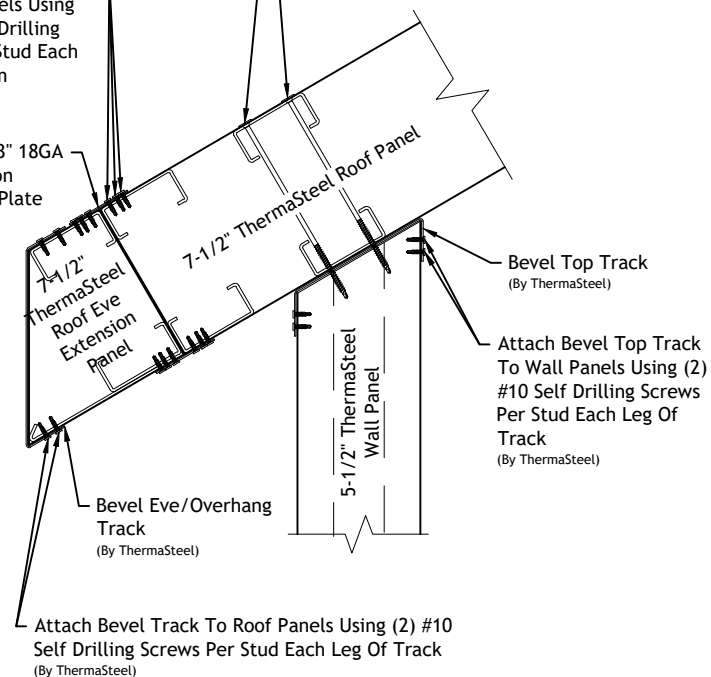


Eve Overhang

Attach Roof Panels To Wall Panels Using
(2) 9"-10" long Self Drilling Screws
(TruFast, ACE-FS15-10INB or equivalent)
Per Stud (Screws by others)

Attach Extension Plate
To Roof Panels Using
(3) #10 Self Drilling
Screws Per Stud Each
Side Of Seam
(By ThermaSteel)

Continuous 3" 18GA
Eve Extension
Connection Plate
(By ThermaSteel)



Roof Panel Eve Extension



Roof Connections

Typical Overhang Of Roof Panel Connection Section View

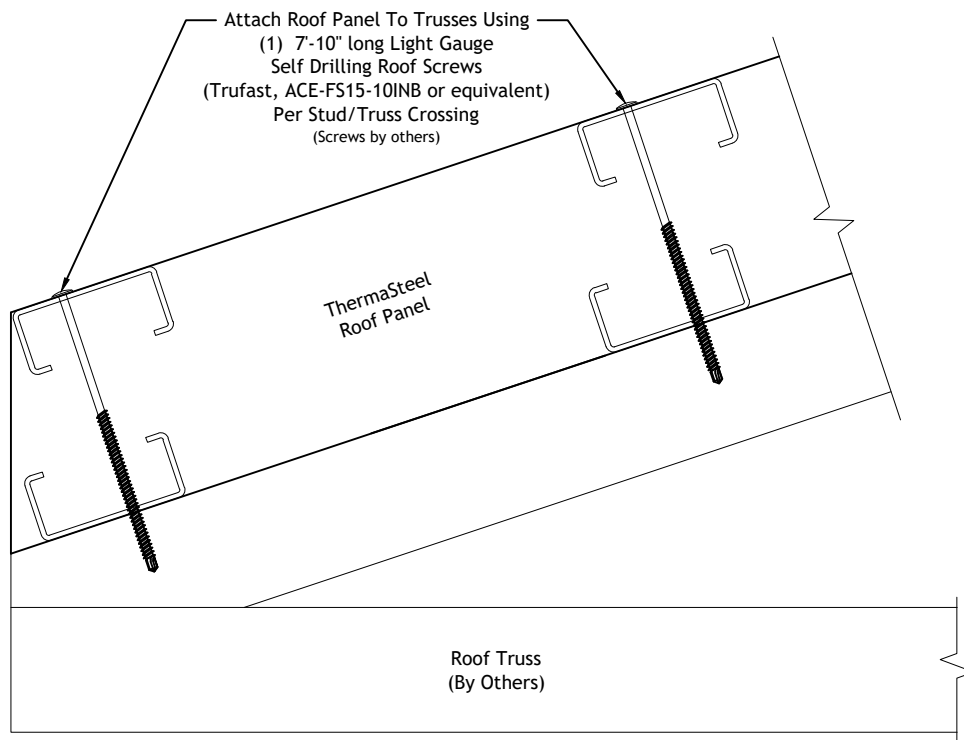
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Roof Panel To
Truss Connection
Section View

Not To Scale

Rev: 11/30/2021

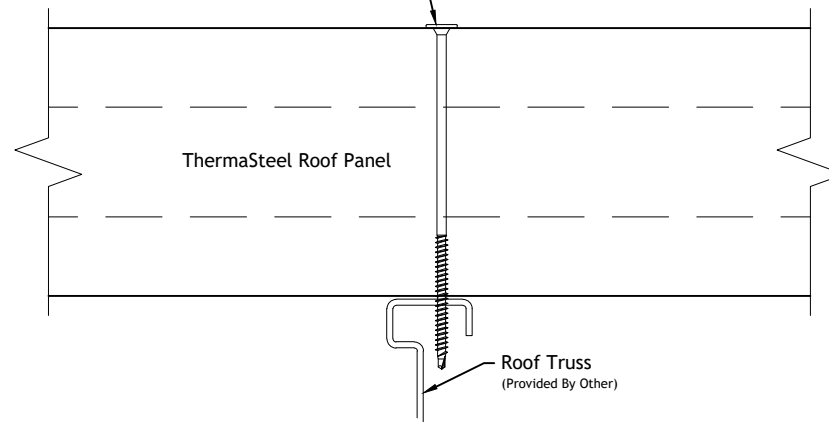
Drawing Number

RC-010

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Roof Rafter Using
(1) 7"-10" long Light Gauge Attachment Screw
(Trufast, ACE-FS15-10INB or equivalent)
Per Stud/Rafter Crossing
(Screws by others)

Note: At Perimeter Of Roof
Attach Roof Panels To Roof Rafter Using
(2) 7"-10" long Light Gauge Attachment Screw
(Trufast, ACE-FS15-10INB or equivalent)
Per Stud/Rafter Crossing
(Provided By ThermaSteel)



Roof Connections

Typical Roof Panel To Metal Truss Connection Section View

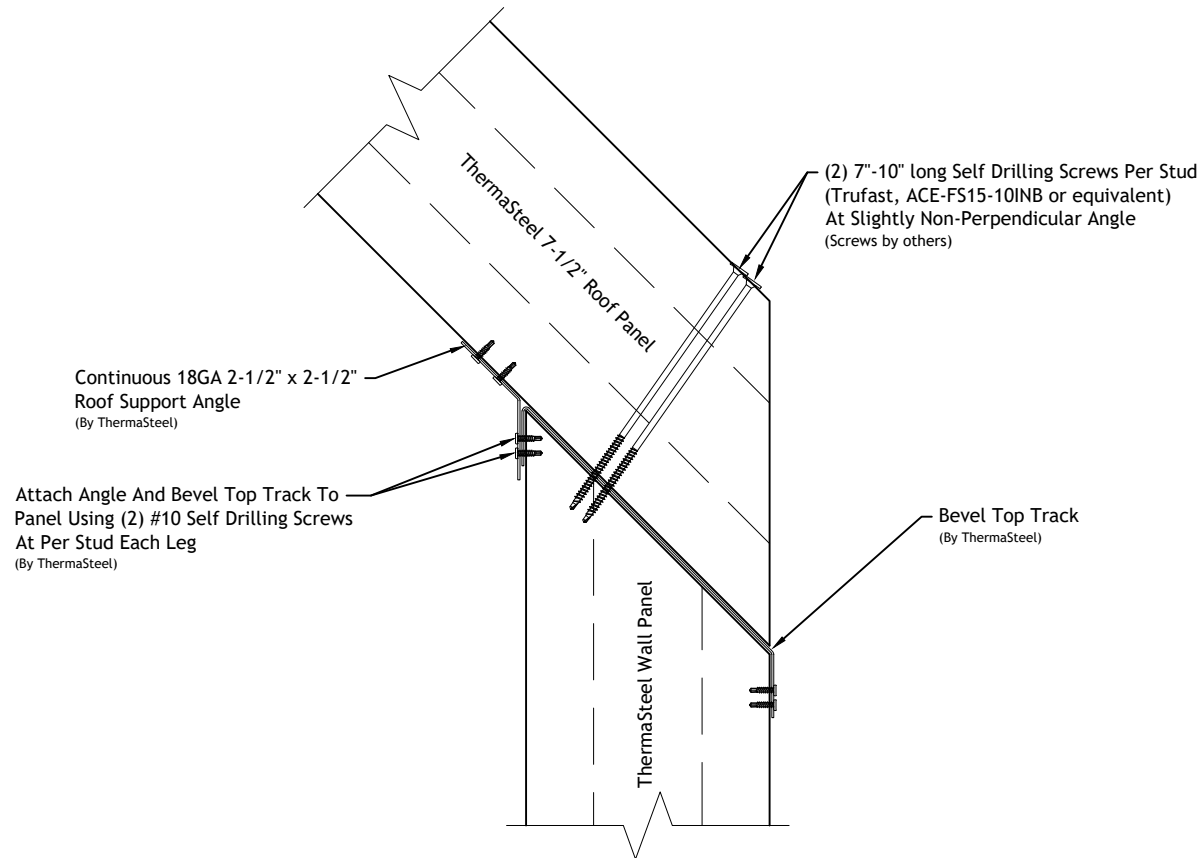
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-011

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Roof Connections

Typical Wall To Flush Roof Panel Connection Section View

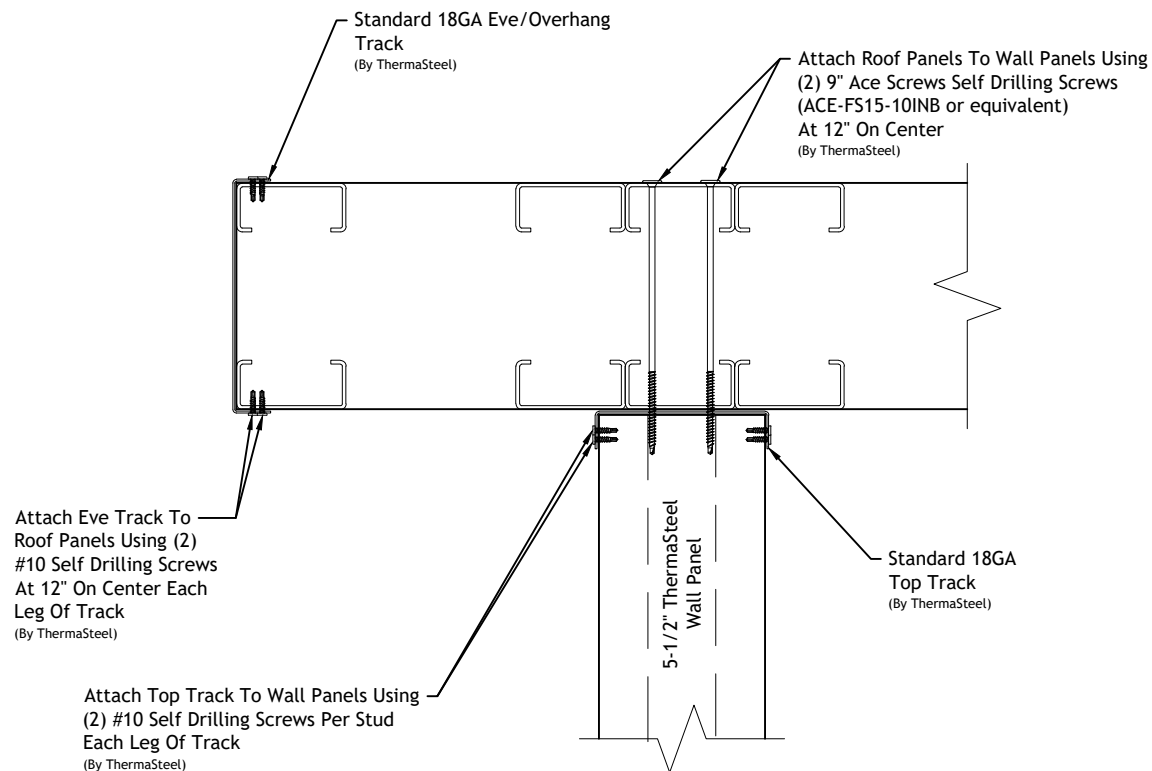
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-012

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Roof Connections

Typical Roof Panel Connection At Gable End With Overhang - Section View

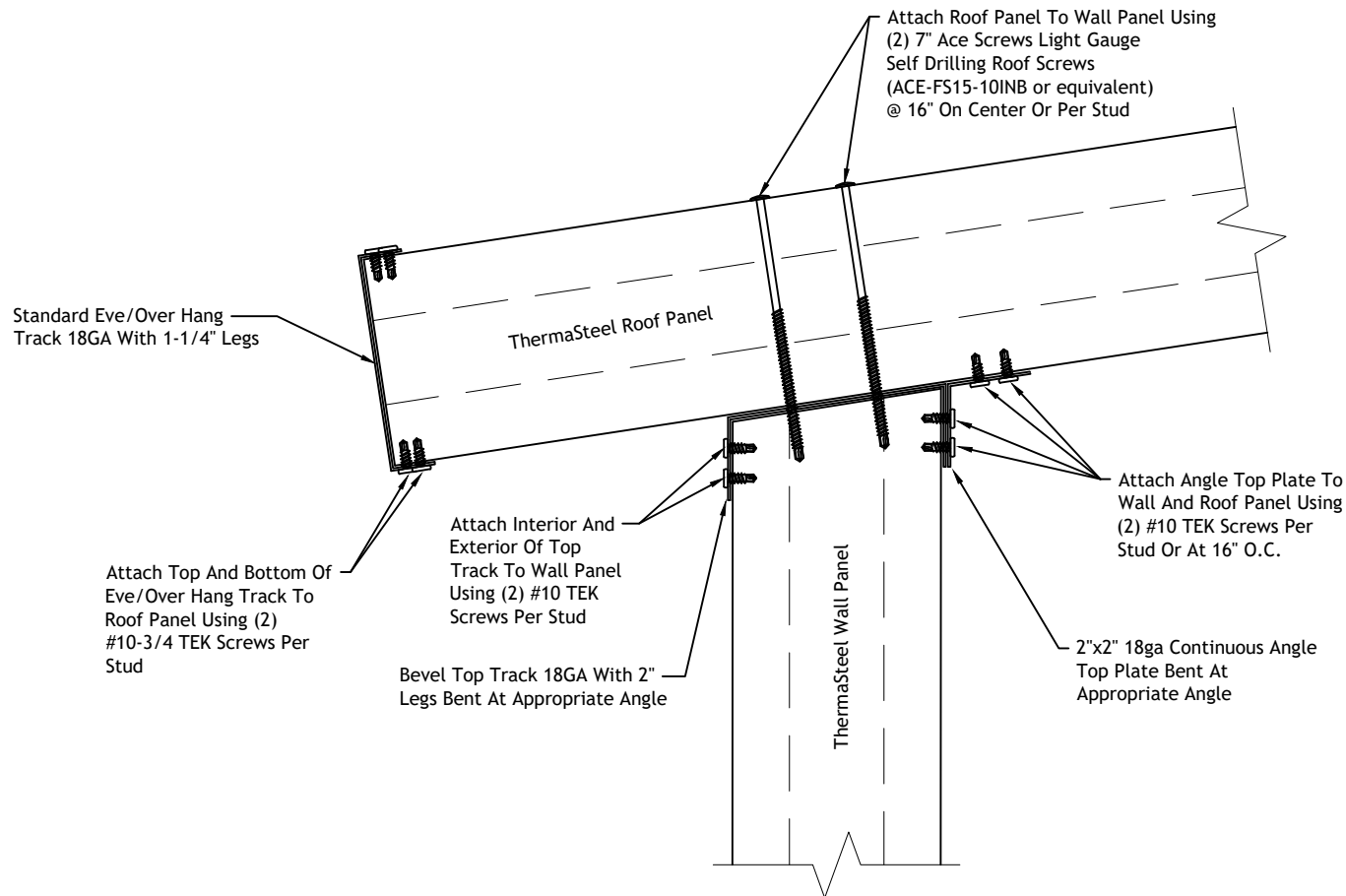
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-013

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Roof Panel With Overhang And Reinforced Top Plate Connection, High Wind Speed - Section View

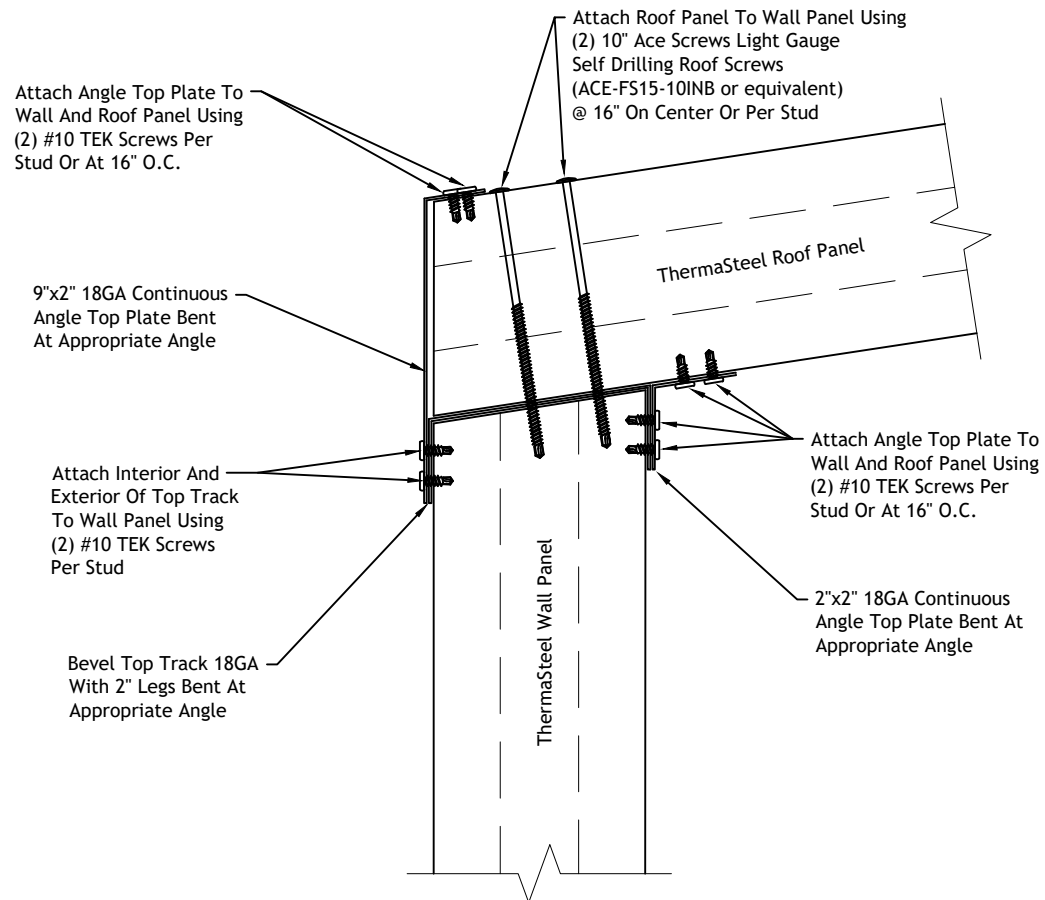
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-014

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Flush Roof Panel And Reinforced Top Plate
Connection, High Wind Speed - Section View

Not To Scale

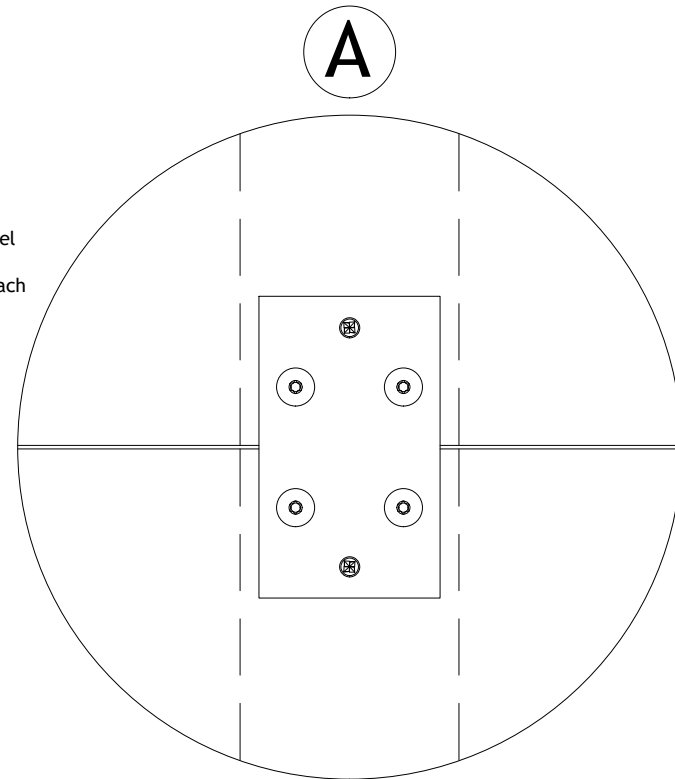
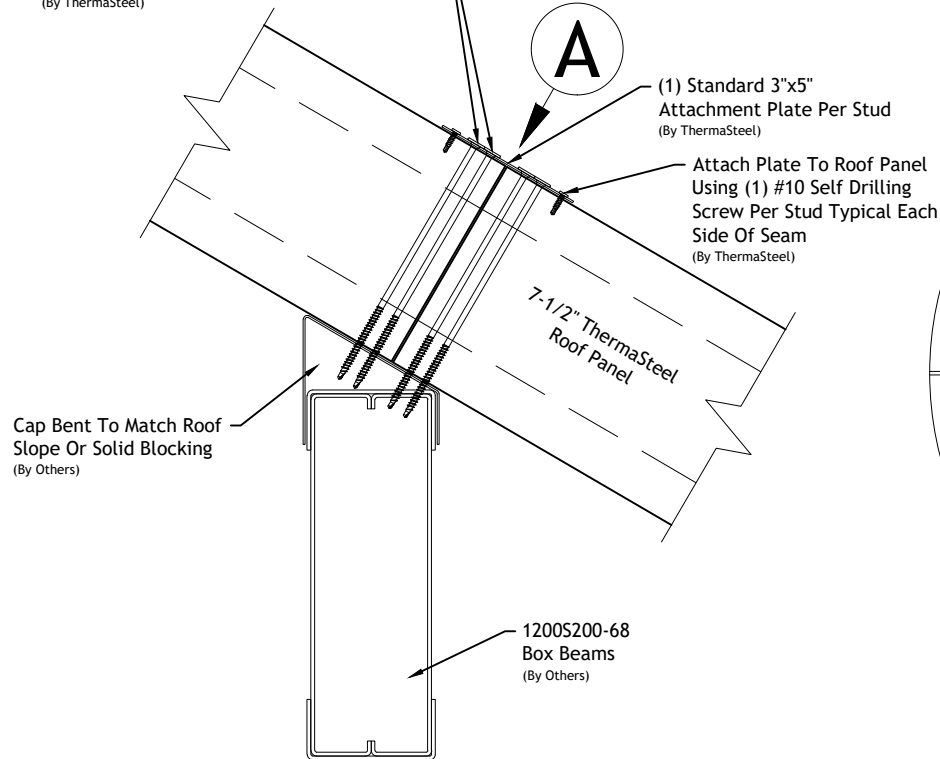
Rev: 11/30/2021

Drawing Number

RC-015

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Roof Panels To Beam through Plate
Using (2) 10" Ace Screws Self Drilling Screws
(ACE-FS15-10INB or equivalent)
Each Side Of Seam Approx. 1" From Seam
(By ThermaSteel)



Roof Connections

Typical Roof Panel Connection To Wall Over Boxed Beam - Section View

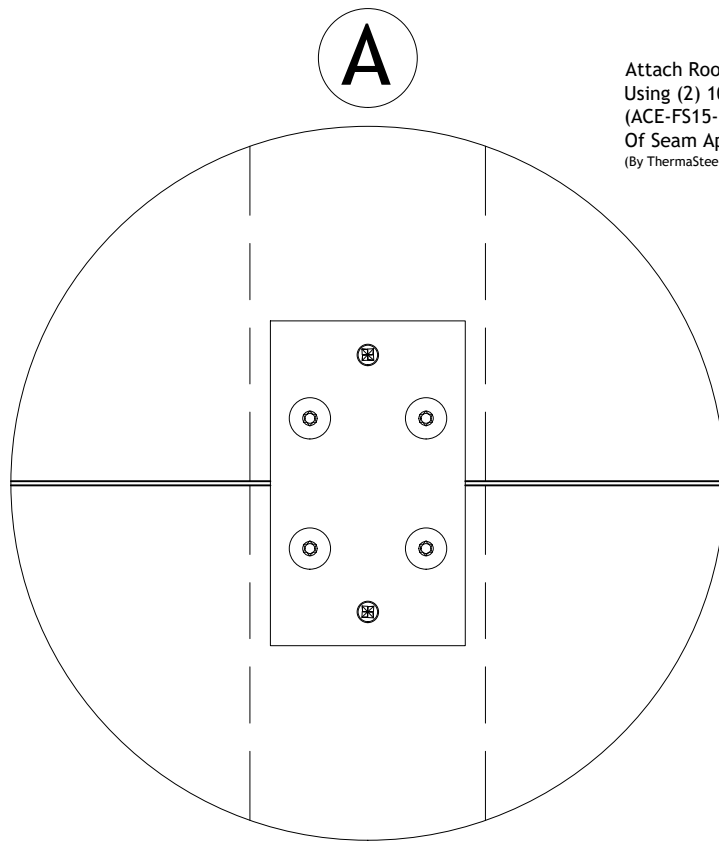
Not To Scale

Rev: 11/30/2021

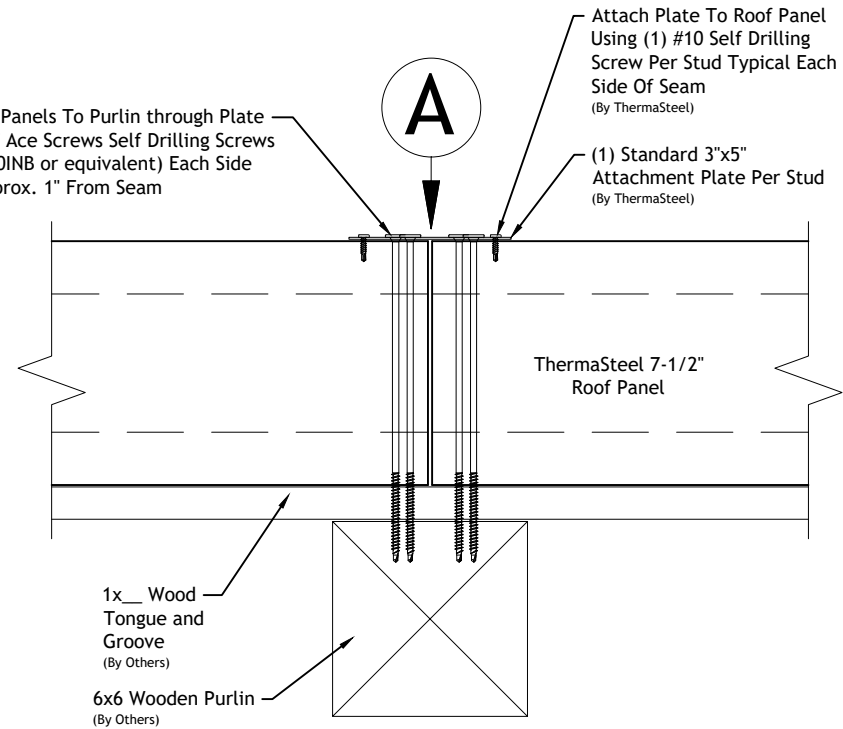
Drawing Number

RC-016

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Attach Roof Panels To Purlin through Plate
Using (2) 10" Ace Screws Self Drilling Screws
(ACE-FS15-10INB or equivalent) Each Side
Of Seam Approx. 1" From Seam
(By ThermaSteel)



Roof Connections

Typical Roof Panel To Panel Connection At Purlin Section View

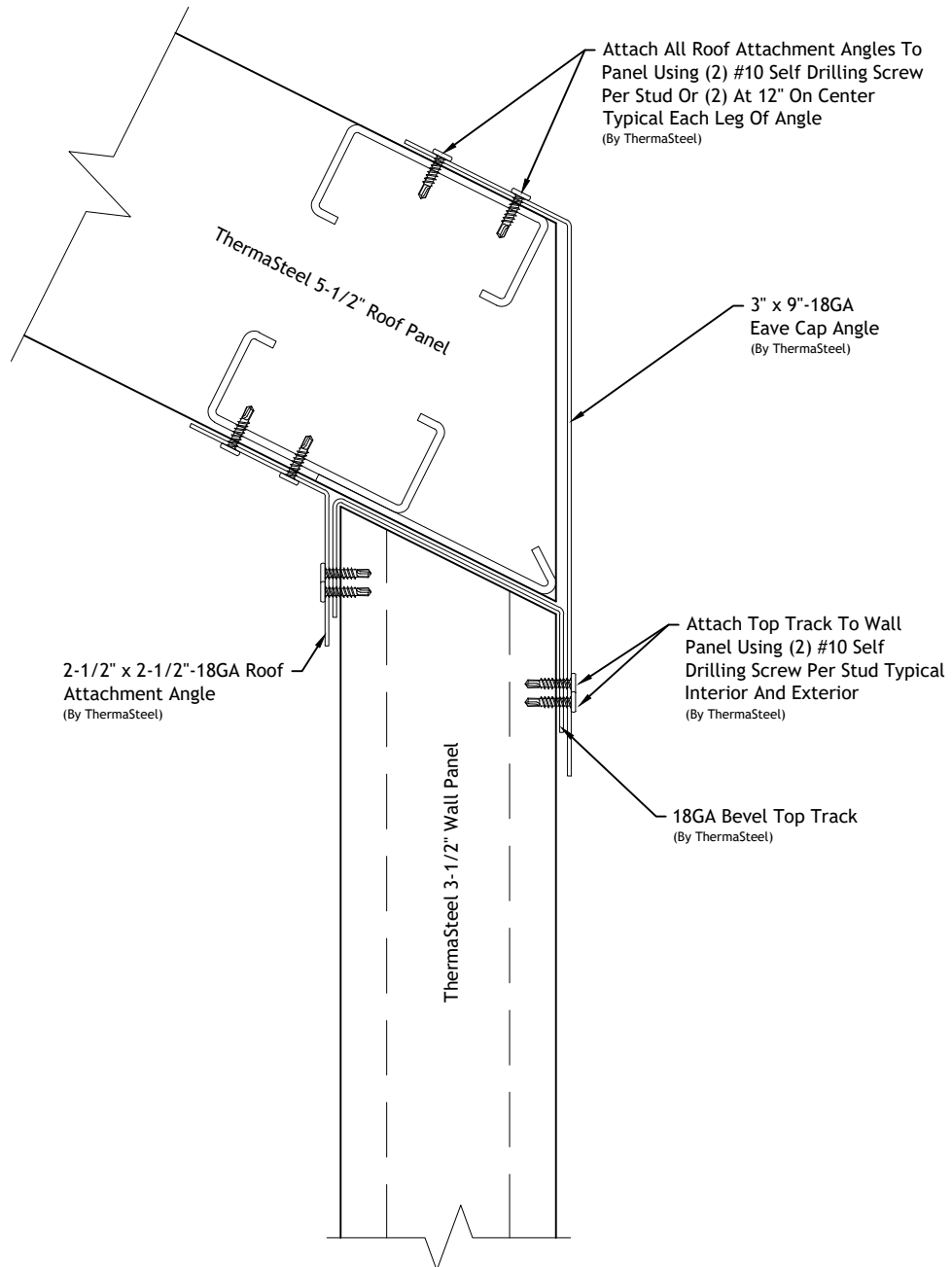
Not To Scale

Rev: 11/30/2021

Drawing Number

RC-017

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

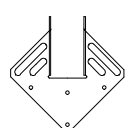


THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections
Typical Roof Panel At
Eave/Peak End Connection
Section View

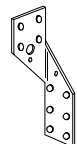
Not To Scale
Rev: 11/30/2021
Drawing Number
RC-018

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



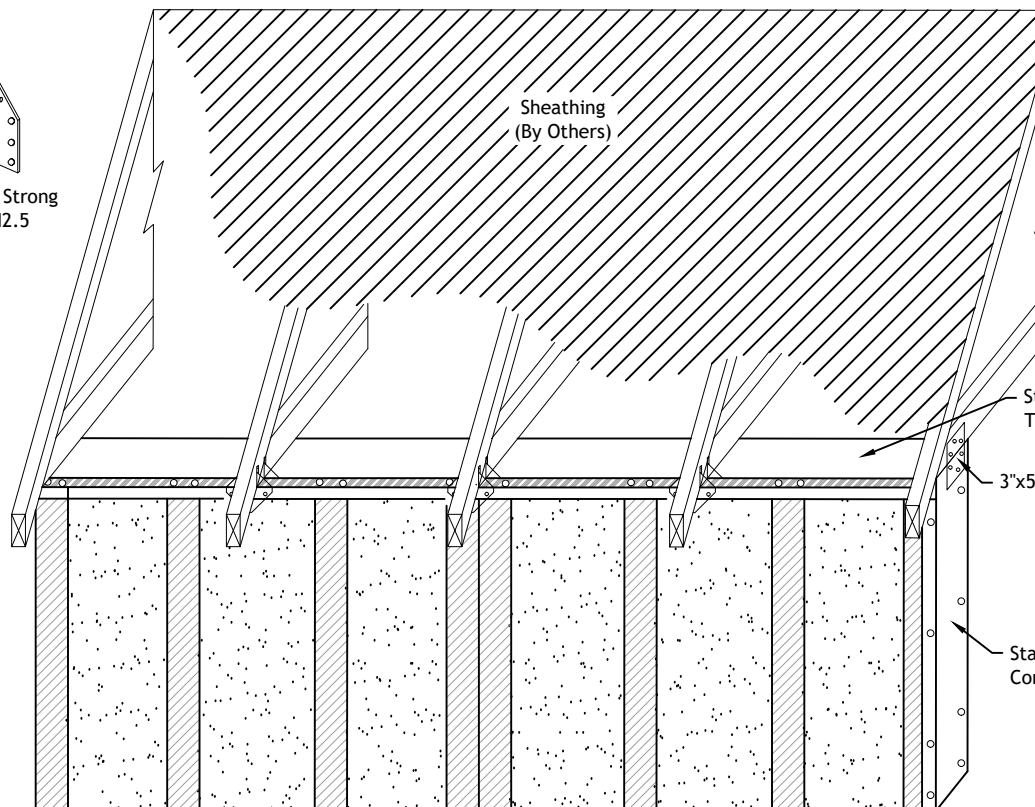
Simpson Strong Tie H1

Or



Simpson Strong Tie H2.5

- #10-3/4" TEK Screws Through Bracket Into Panel As Required
- Simpson N10 Nails Through Bracket Into Truss As Required



(2) #10 Self Tapping TEK Screws Per Stud Each Leg Of Track

Standard 18GA Top Track With 1-1/4" Leg

3"x5" 20ga Attachment Plate

(3) 10P Nails Plate To Truss

(3) #10 Self Tapping TEK Screws Plate To Panel

Standard 24GA Corner Metal 1"x7"

Attach Each Leg of Corner Metal To Panel Using Min. (1) #10-3/4" TEK Screws @ 12" On Center



THERMASTEEL™
ADVANCED PANEL SYSTEM

Roof Connections

Typical Roof Truss To Wall Panel Connection

Not To Scale

Rev: 11/30/2021

Drawing Number

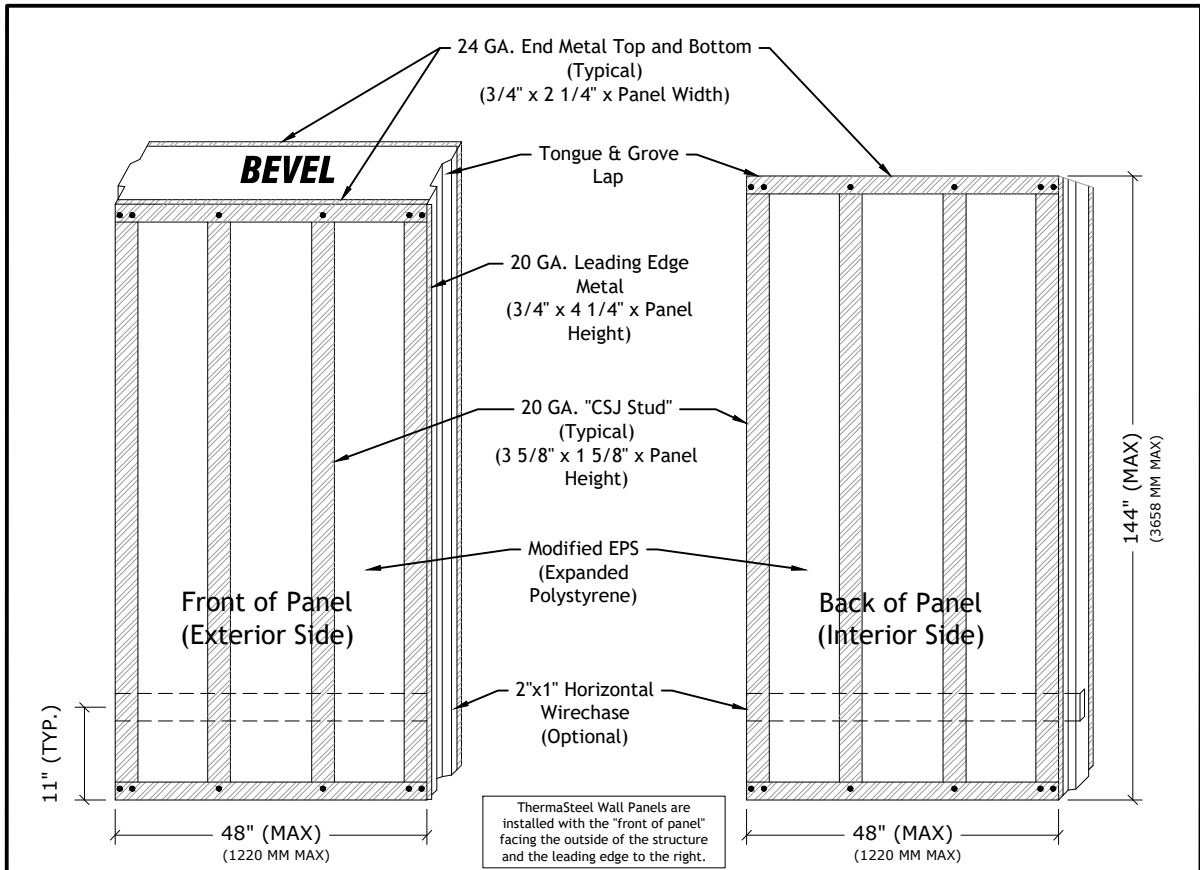
RC-019

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Special Panels

- SP-001 Horizontal Bevel Panel Detail
- SP-002 Vertical Bevel Panel Detail
- SP-003 Structural Overhang Panel Detail
- SP-004 Hurricane Panel Detail
- SP-005 Ceiling Panel Detail
- SP-006 Typical Ceiling Panel Connection - Section View
- SP-007 Typical STC Rated Assemblies
- SP-008 Shear Panel Detail (Exploded View)
- SP-009 Reinforced Opening for High Wind Load

[Back To Connection Detail
Chapters](#)




PANEL ELEVATION



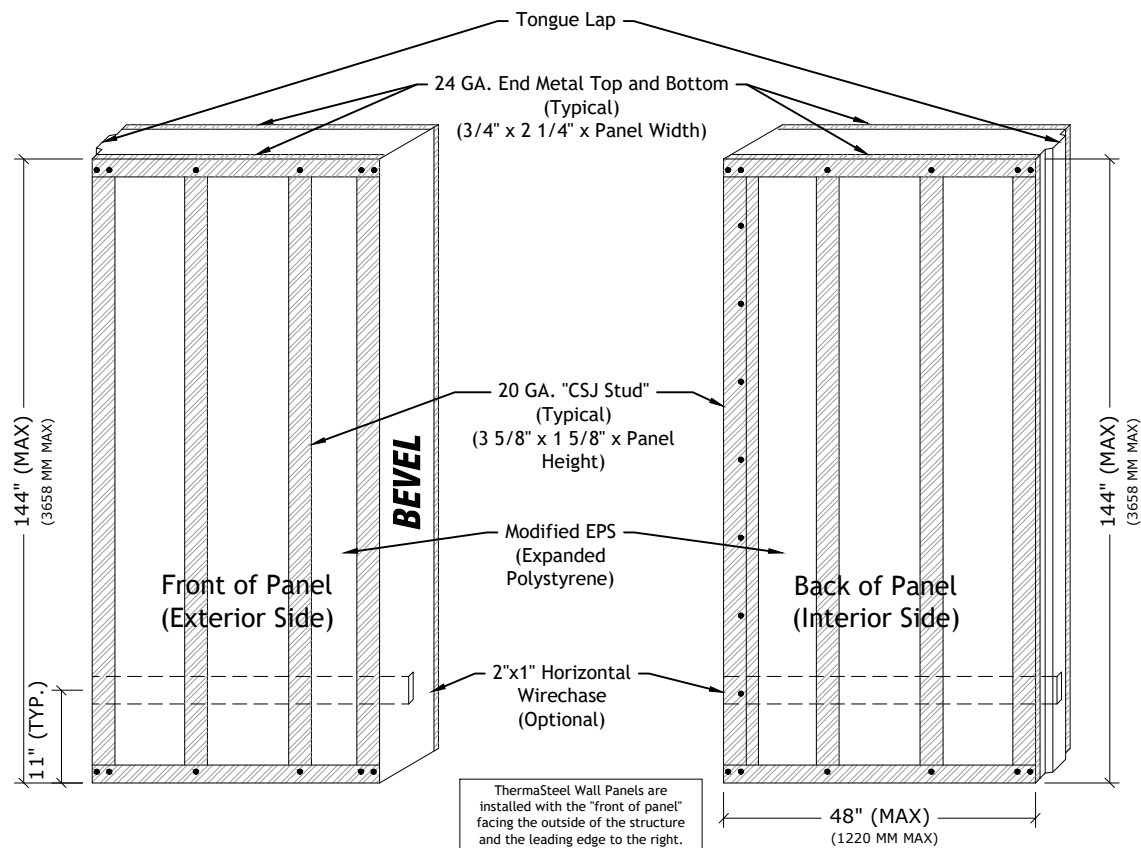
Panel Section With 24GA
Angle Fillers

SIDE VIEW

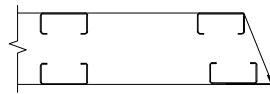
FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)

| | | |
|--|--|---------------------------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Special Panels | |
| | Horizontal Bevel Panel Detail | Not To Scale |
| | | Rev: 11/30/2021 |
| | | Drawing Number SP-001 |

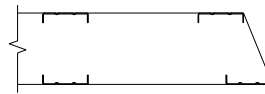
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



PANEL ELEVATION



All Gauge CSJ Panel
Section With 20GA
Angle Filler



24 Gauge TS Panel
Section With Bent Stud Legs

FOR ALL PANEL THICKNESSES
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



THERMASTEELTM
ADVANCED PANEL SYSTEM

Special Panels

Vertical Bevel Panel Detail

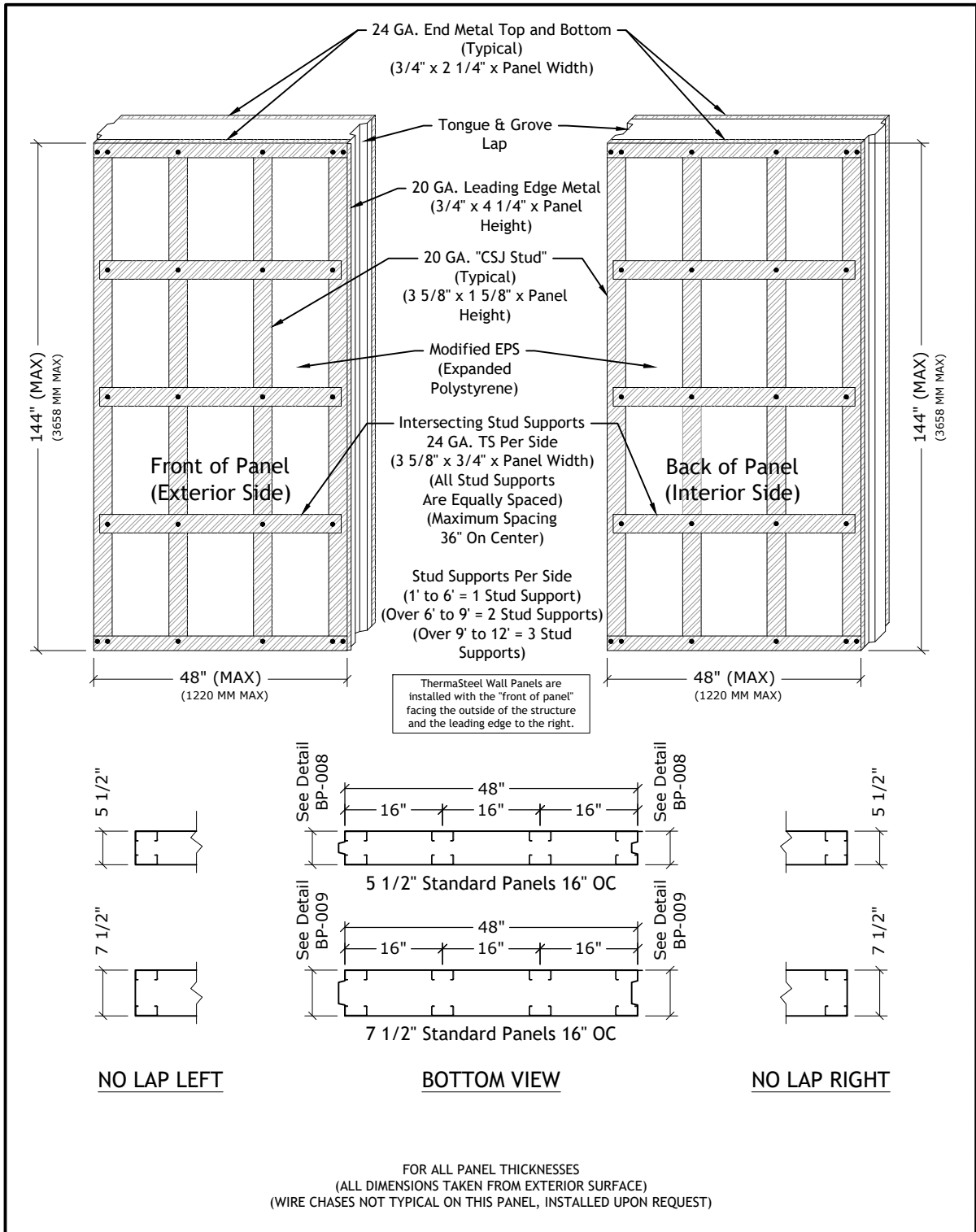
Not To Scale


Rev: 11/30/2021

Drawing Number

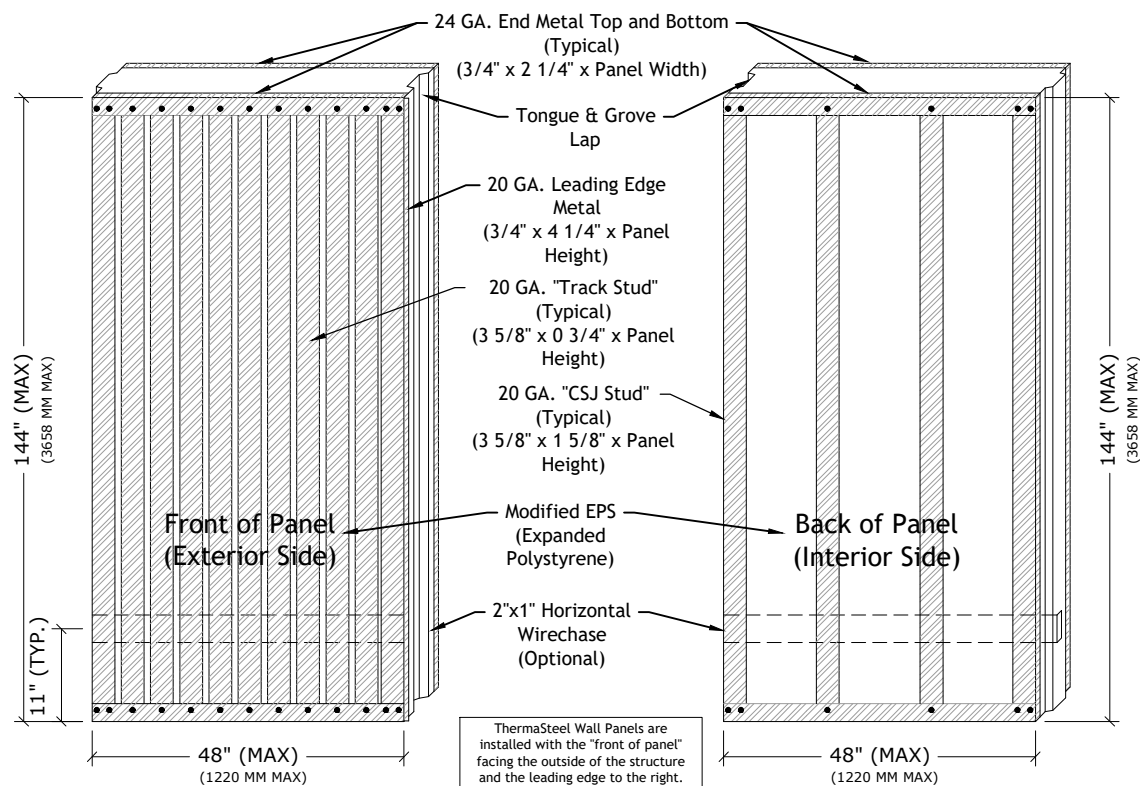
SP-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

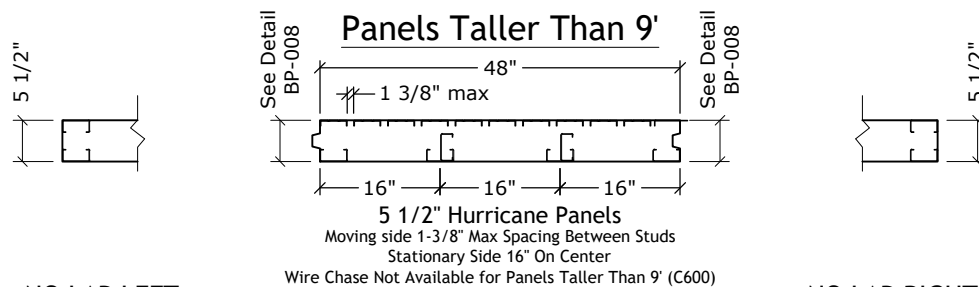
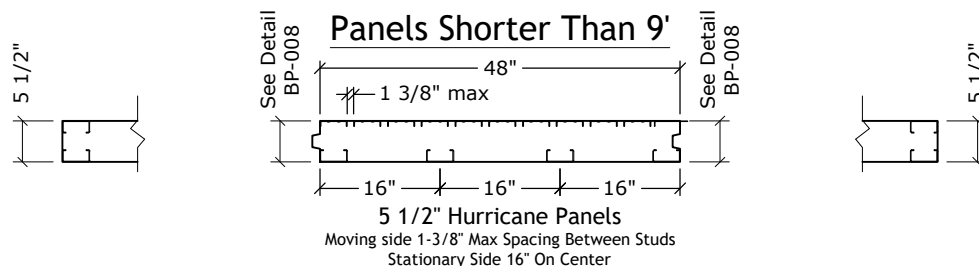


| | | |
|--|---|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Special Panels | |
| | Structural Overhang Panel Detail | |
| | Not To Scale 8/22/2023 Drawing Number | |
| | SP-003 | |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



PANEL ELEVATION



NO LAP LEFT

BOTTOM VIEW

NO LAP RIGHT

FOR 5-1/2" AND 7-1/2" PANEL THICKNESSES ONLY
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



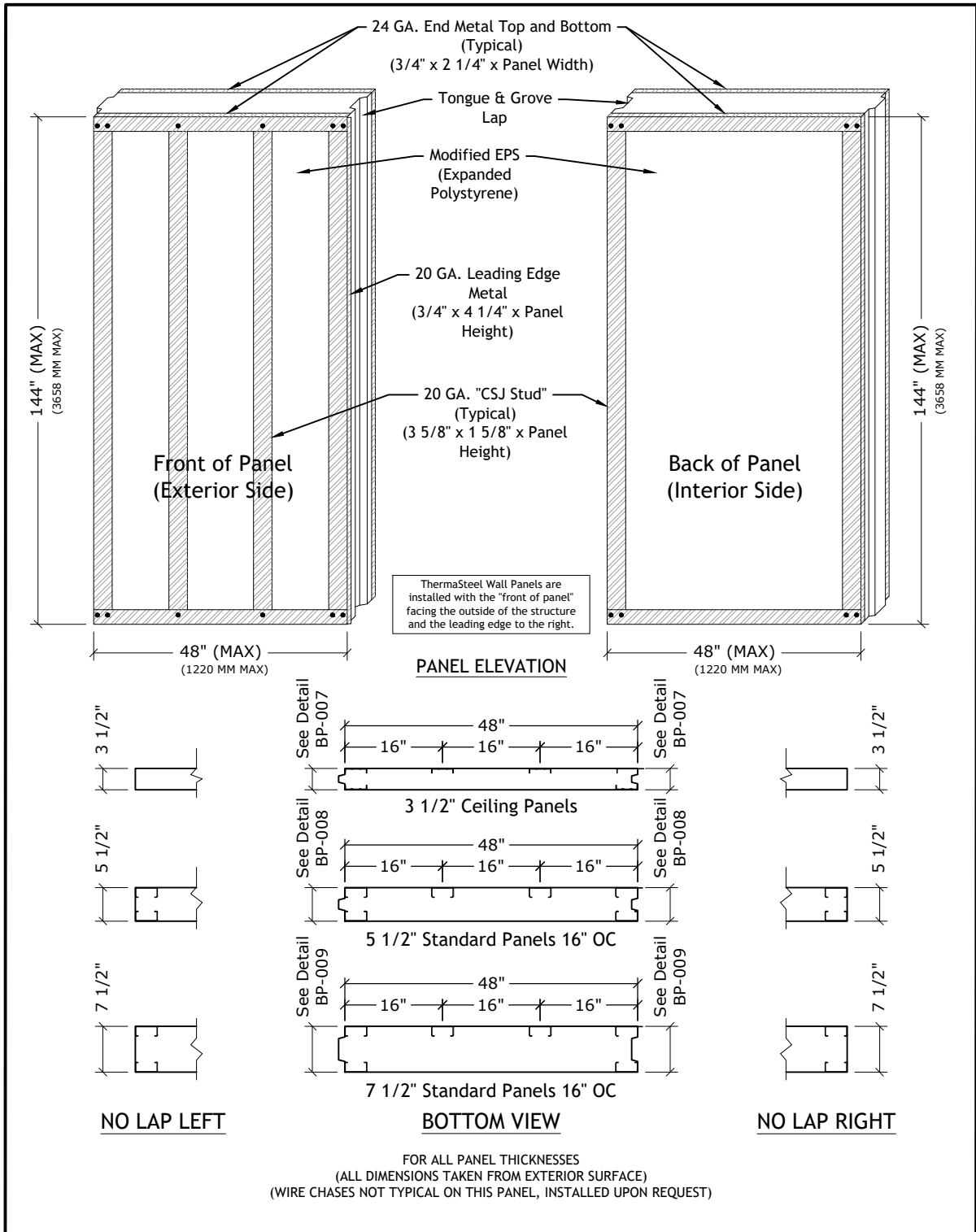
THERMASTEELTM
ADVANCED PANEL SYSTEM

Special Panels

Hurricane Panel Detail

Not To Scale
9/26/2023
Drawing Number
SP-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Special Panels

Ceiling Panel Detail

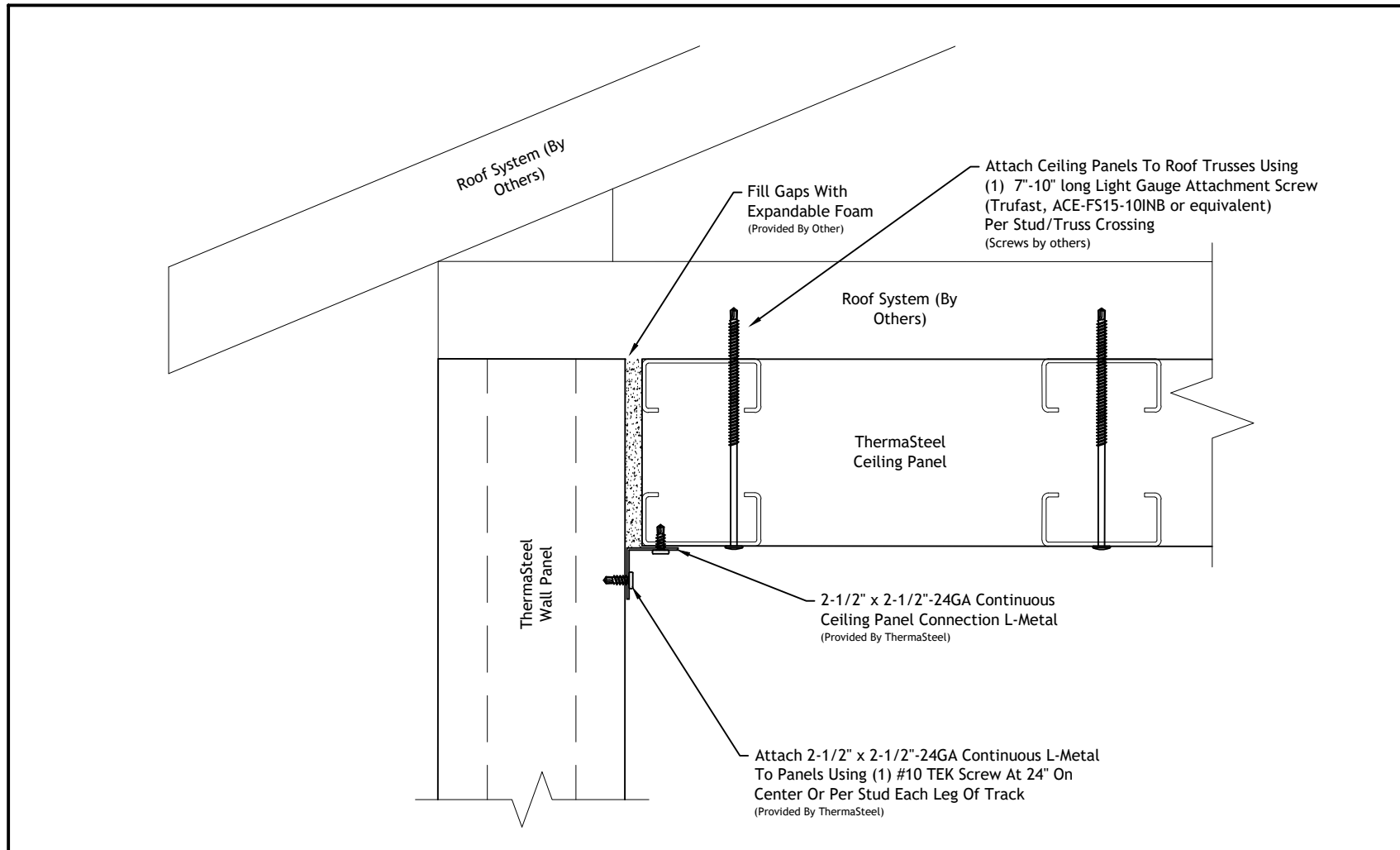
Not To Scale


9/26/2023

Drawing Number

SP-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|---|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Special Panels | |
| | Typical Ceiling Panel Connection | |
| | | |
| | | |
| | | Not To Scale |
| | | Rev: 11/30/2021 |
| | | Drawing Number |
| | | SP-006 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

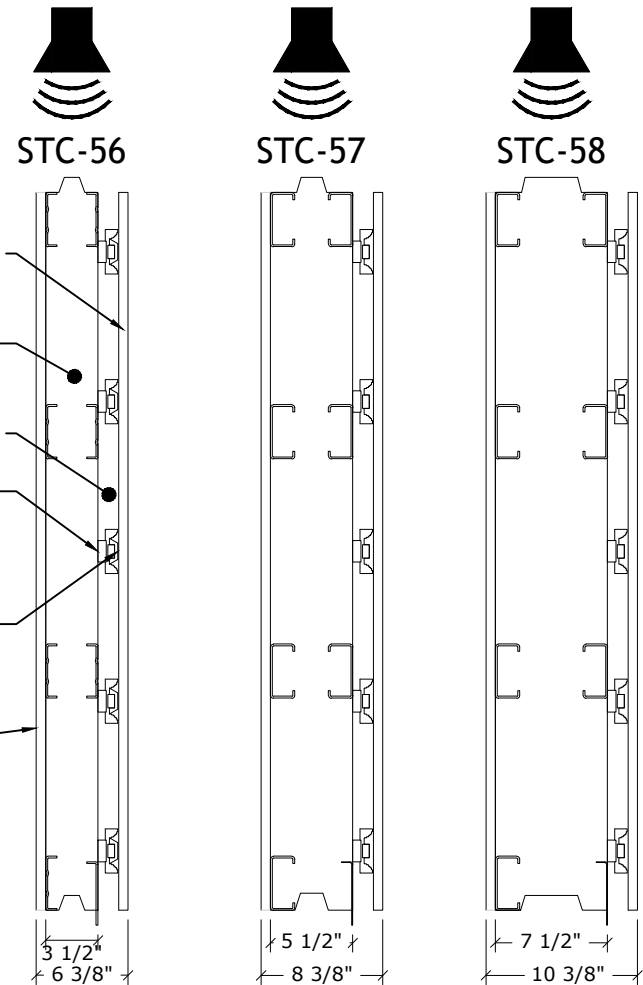
CONSTRUCTION

- 1 Layer 15mm MGO/Gypsum
- ThermaSteel Panel (3 1/2", 5 1/2", 7 1/2")
- RSIC - 1 Clips at 48" O.C.
- 7/8" Furring Channel at 24" O.C.
- 1 Layer 15mm MGO/Drywall

RSIC-1 Clip

C:\ThermaSteel\Projects\In House\Connection Details\RSIC-1-1.jpg

PAC International, LLC All Rights Reserved
(866) 774-2100
RSIC® is a registered Trade Mark.
www.pac-intl.com



Special Panels

Typical STC Rated Assemblies

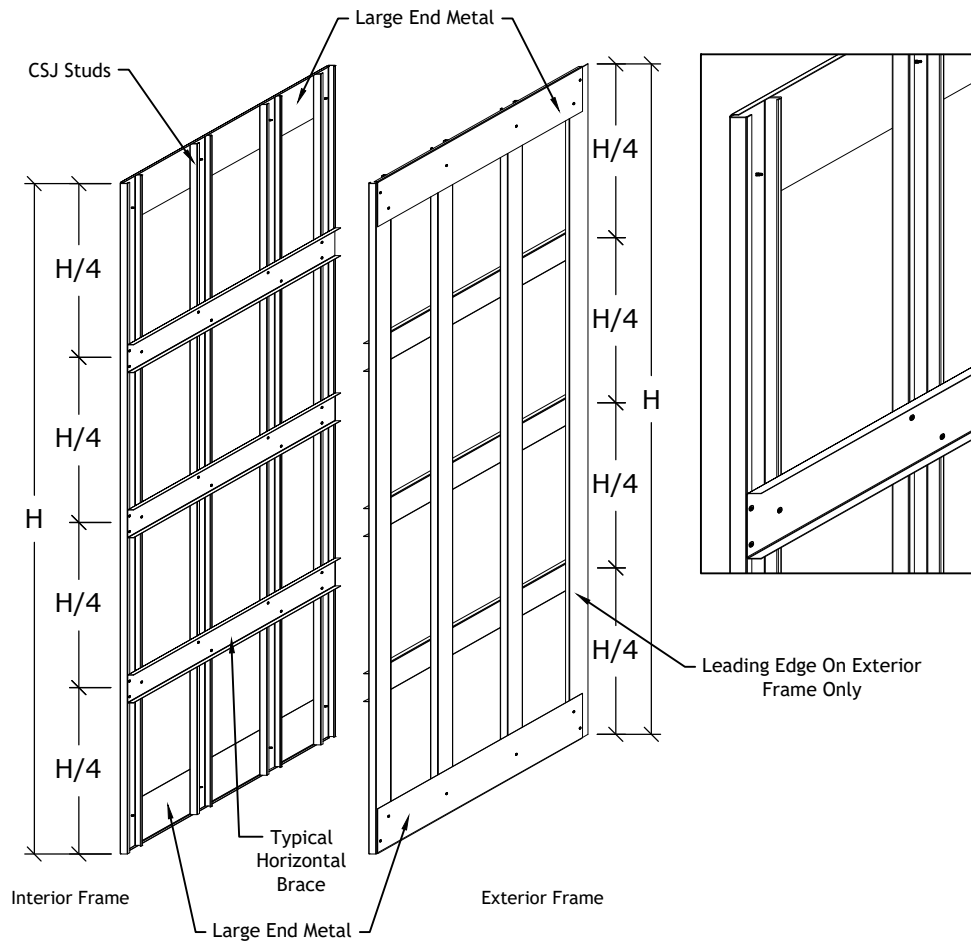
Not To Scale

Rev: 11/30/2021

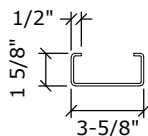
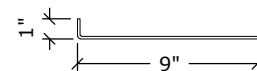
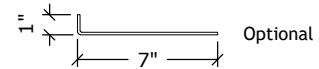
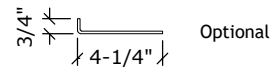
Drawing Number

SP-007

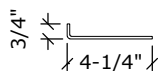
THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



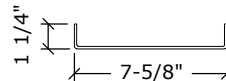
(EPS Foam Not Shown For Clarity)



CSJ Stud
20 ; 18 ; 16 ; 14 Gauge



Leading Edge Metal
4 1/4" X 3/4" Matching
Stud Gauge



Horizontal Brace
7-5/8" - 16 Gauge Track
With 1-1/4" Leg

Large End Metal
20 ; 18 ; 16 Gauge
4-1/4" X 3/4"
7" X 1"
9" X 1"



THERMASTEEL[™]
ADVANCED PANEL SYSTEM

Special Panels

Shear Panel Detail
(Exploded View)

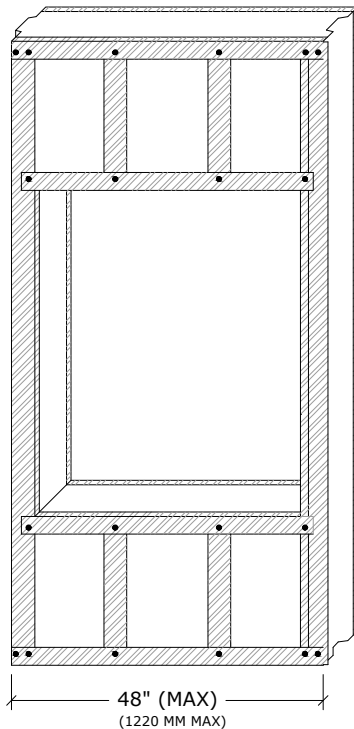
Not To Scale

Rev: 11/30/2021

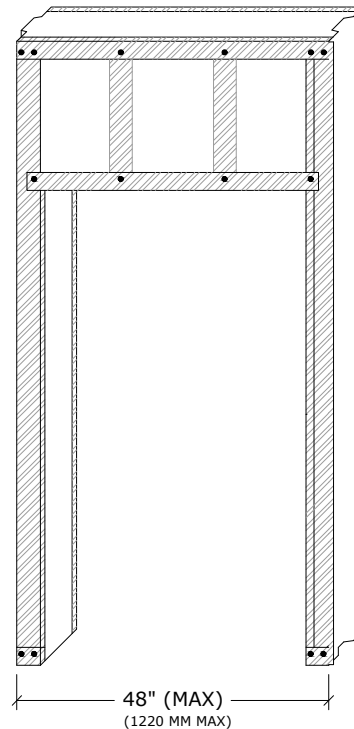
Drawing Number

SP-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

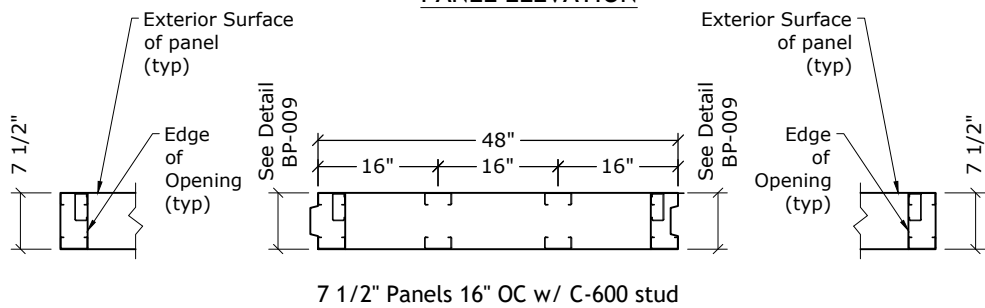


Window Panel - Exterior



Door Panel - Exterior

PANEL ELEVATION



NO LAP LEFT

BOTTOM VIEW

NO LAP RIGHT

****A C-600 Stud is applied as a stiffener
to the exterior face of the panel
for HIGH WIND LOAD****



THERMASTEEL™
ADVANCED PANEL SYSTEM

Special Panel

**Reinforced Opening
for High Wind Load**

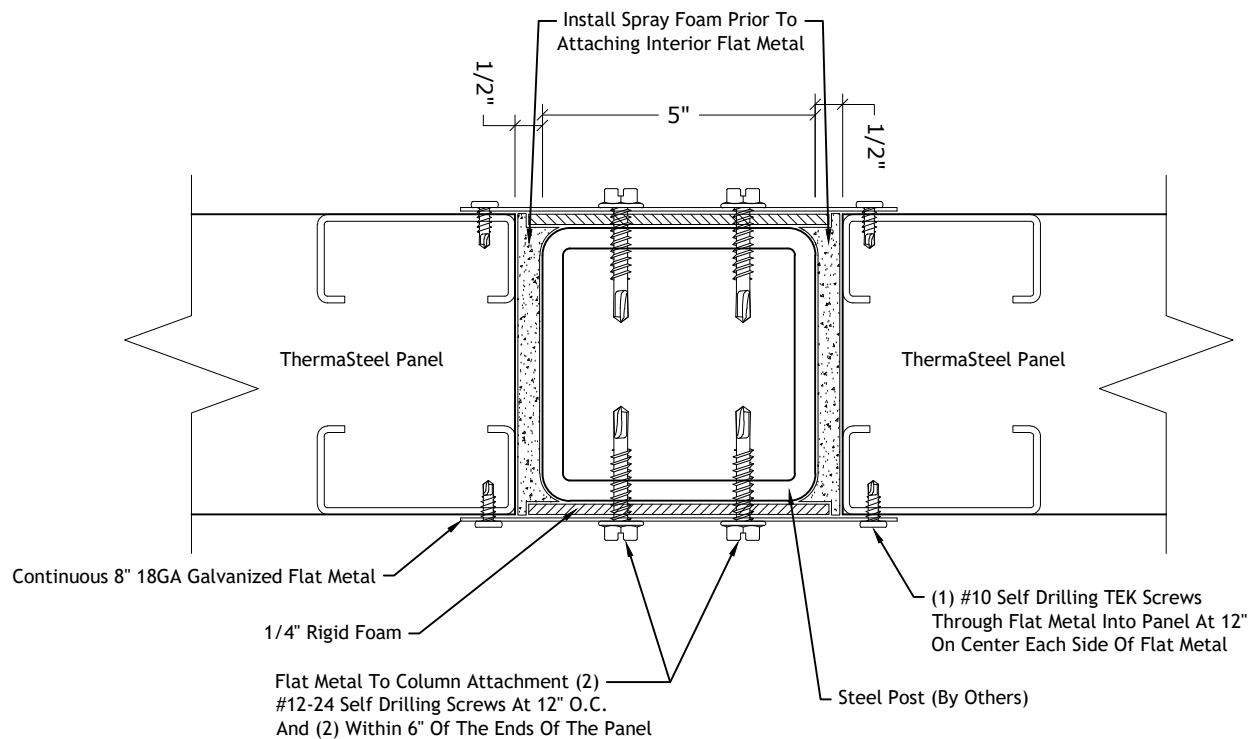
Not To Scale
Rev: 8/22/2023
Drawing Number
SP-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Connections To Other Building Systems

- CB-001 Typical In-Place Panel To Steel Column Connection - Section View
- CB-002 Typical In-Place To Steel Column Connection, Alternative - Section View
- CB-003 Typical Panel To Steel Column Corner Connection - Section View
- CB-004 Typical Panel To Wood Column Connection - Section View
- CB-005 Typical Panel To Wood Column Corner Connection - Section View
- CB-006 Typical Panel To Intersecting Wood Framing Connection - Section View
- CB-007 Typical Panel To Steel Structure Connection, Industrial Building
- CB-008 Typical Panel Connection To Red Iron Structure - Option 1
- CB-009 Typical Panel Connection To Red Iron Structure - Option 2
- CB-010 Typical Multi-Level Panel In A Commercial Application
- CB-011 Typical Purlin To Wall Panel Connection - Section View
- CB-012 Typical Beam Pocket Detail
- CB-013 Typical Roof Truss Pocket Detail
- CB-014 Typical Point Load Connection
- CB-015 Typical Beam To Panel Connection With Strap/Hanger
- CB-016 Typical Top Plate/Beam Over Panel
- CB-017 Typical Panel To Concrete/Brick Connection - Section View
- CB-018 Typical Wall Panel To Concrete Connection - Section View
- CB-019 Typical Attachment of Panels to Floor Trusses - Balloon Floor System

[Back To Connection Detail
Chapters](#)



Attachment Typical Interior and Exterior



Connections To Other Building Systems

In-Place Panel To Steel Column Connection

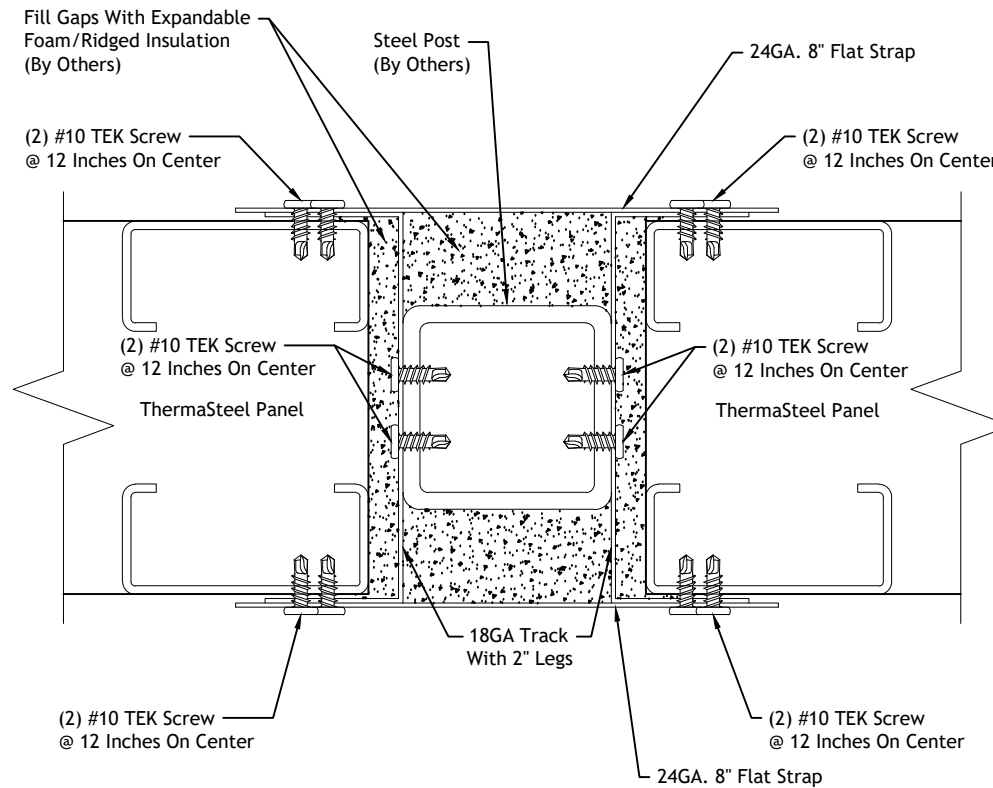
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Attachment Typical Interior and Exterior



Connections To Other Building Systems

In-Place Panel To Steel Column Connection Alternative

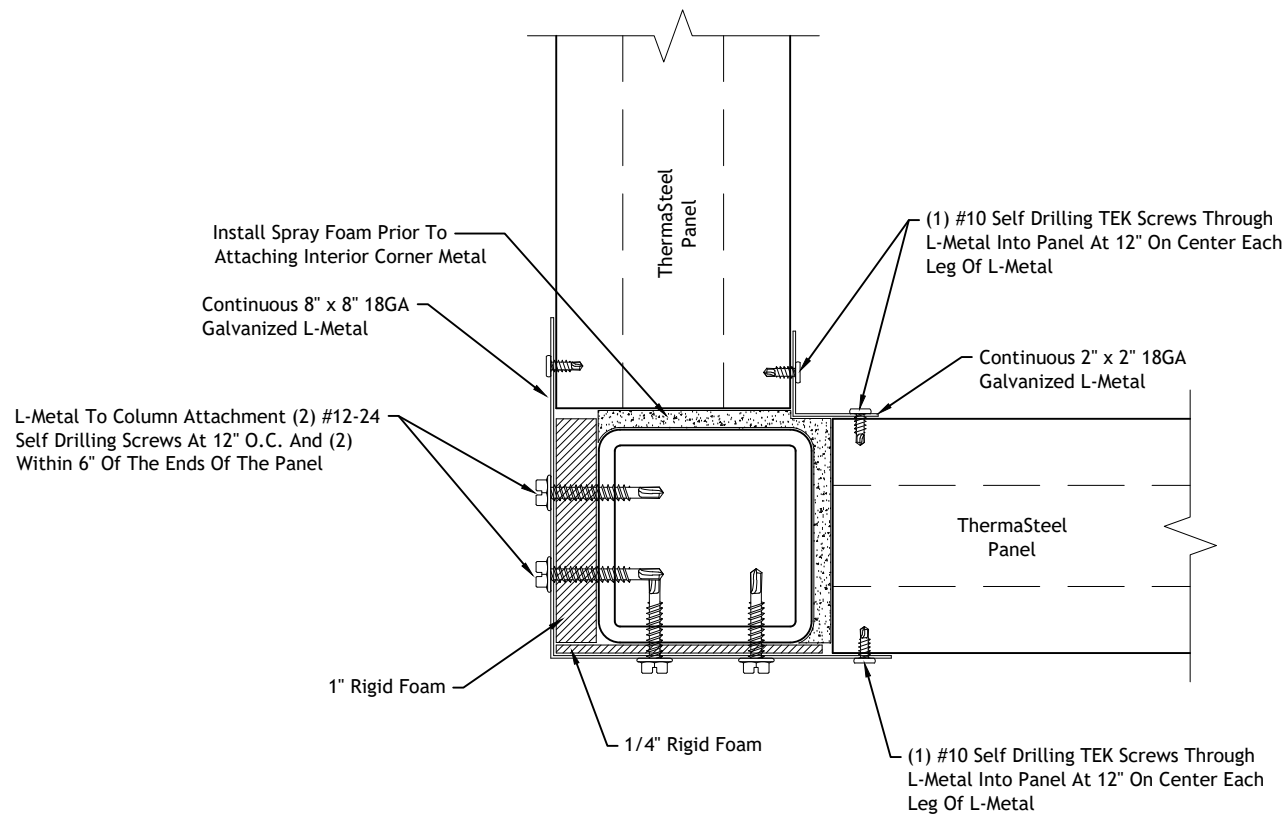
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Panel To Steel Column Corner Connection

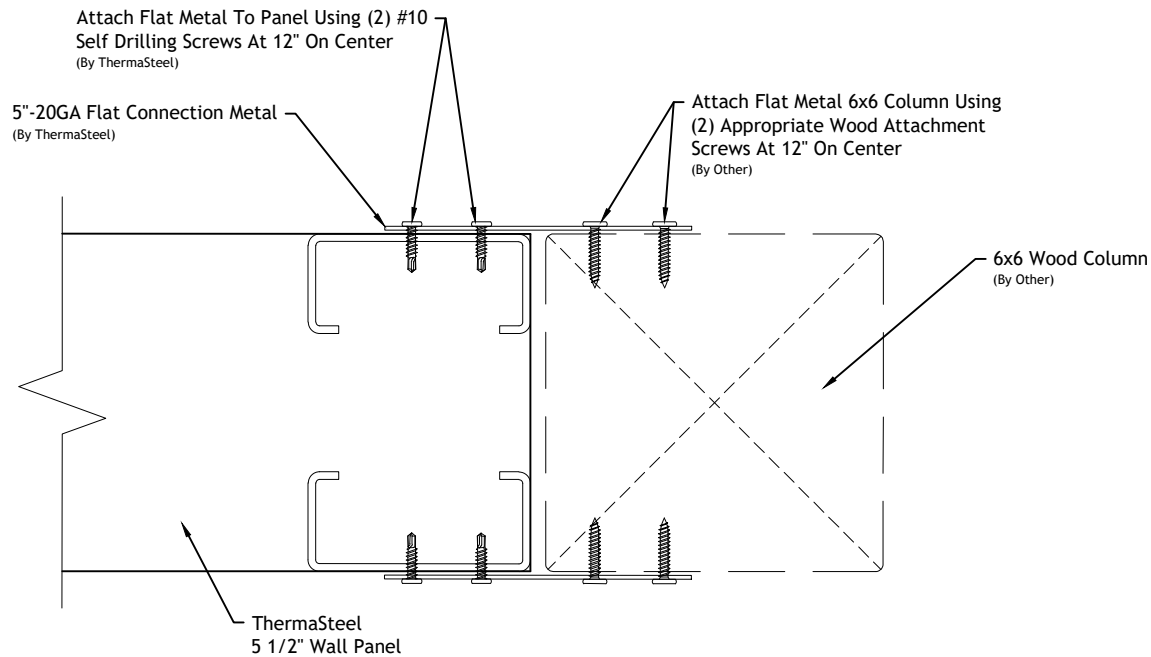
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Panel To Wood Column Connection

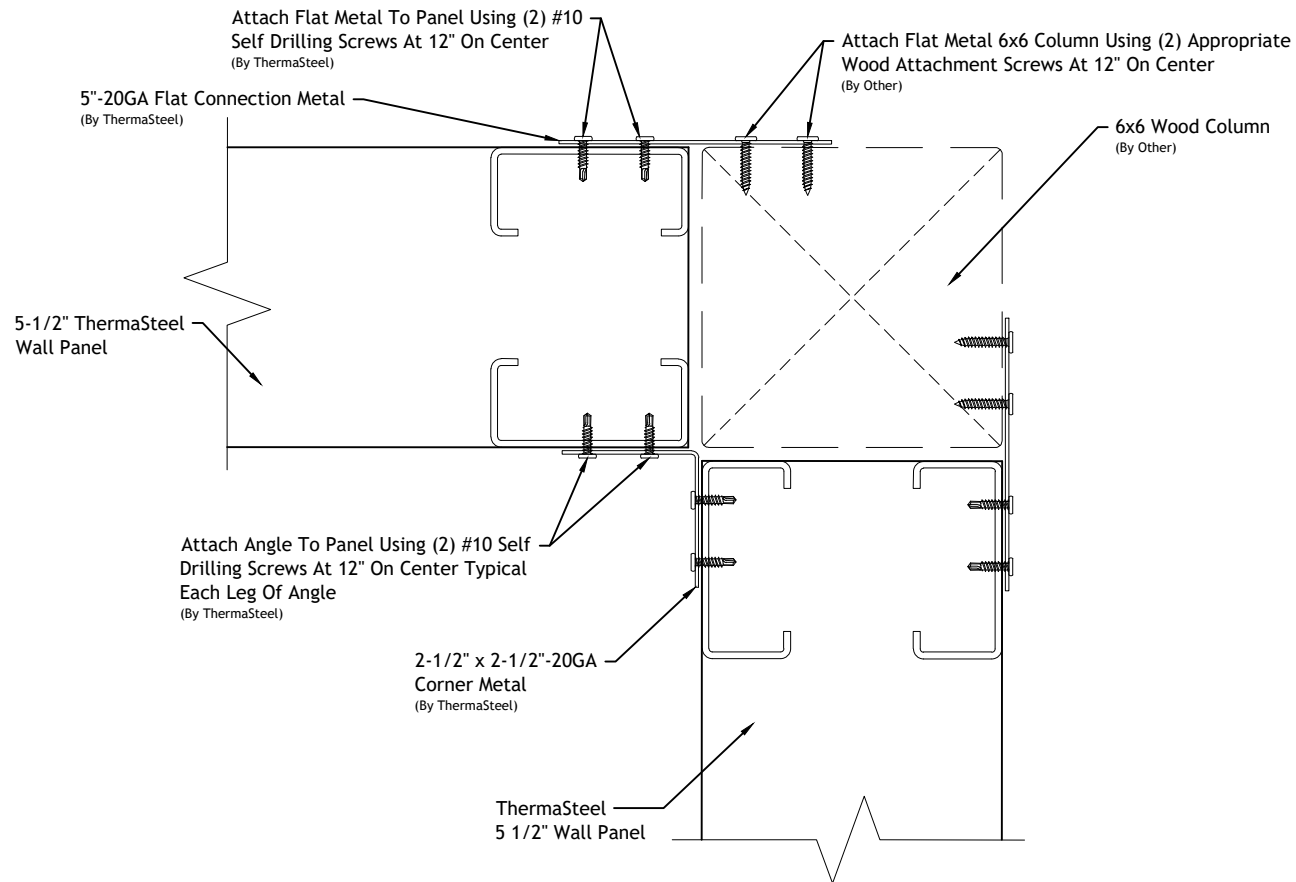
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-004

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Panel To Wood Column Corner Connection

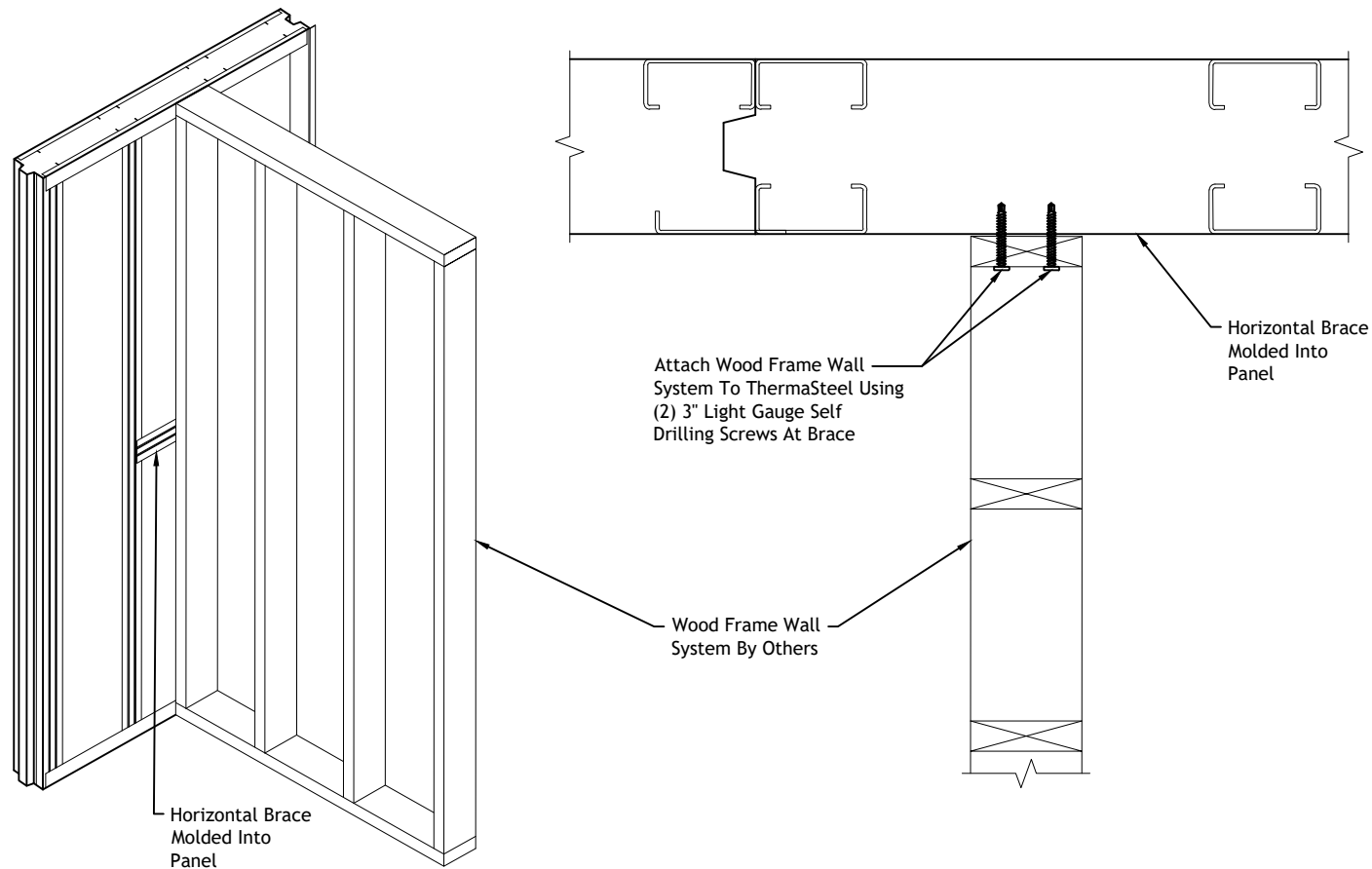
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Typical Panel To Intersecting Wood Framing Connection

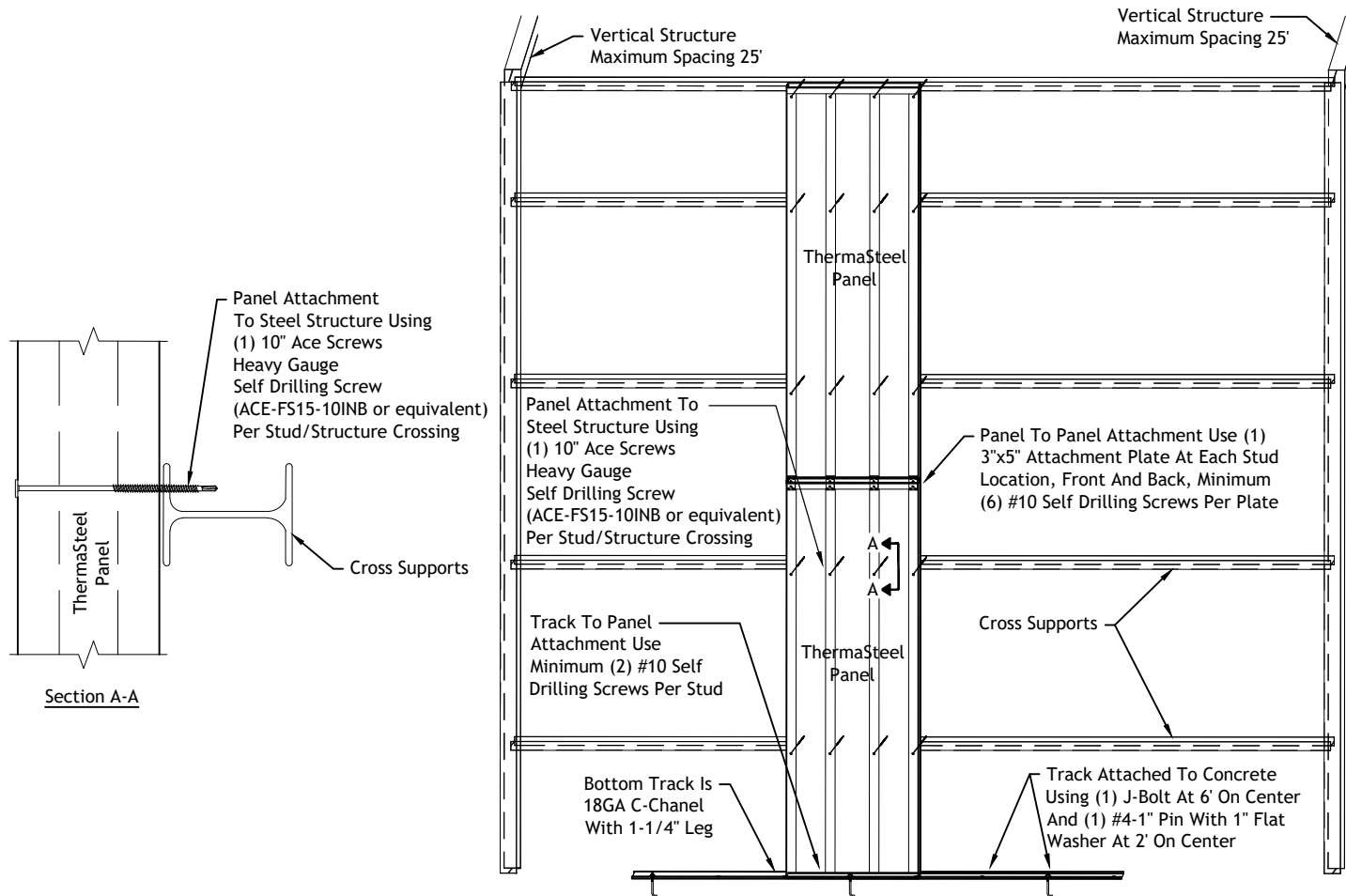
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-006

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Typical Panel To Steel Structure Connection Industrial Building

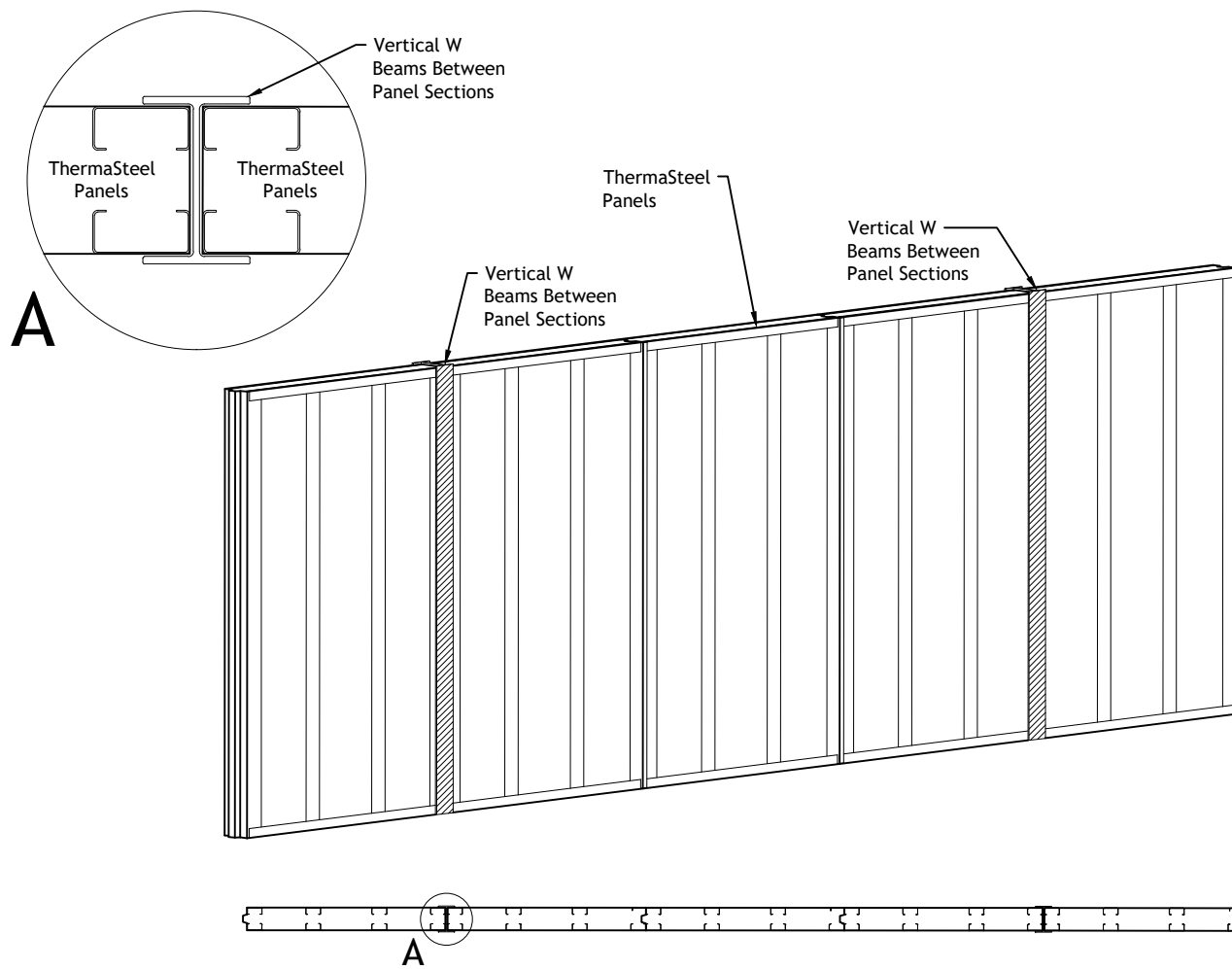
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-007

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Typical Panel Connection To Red Iron Structure Option 1

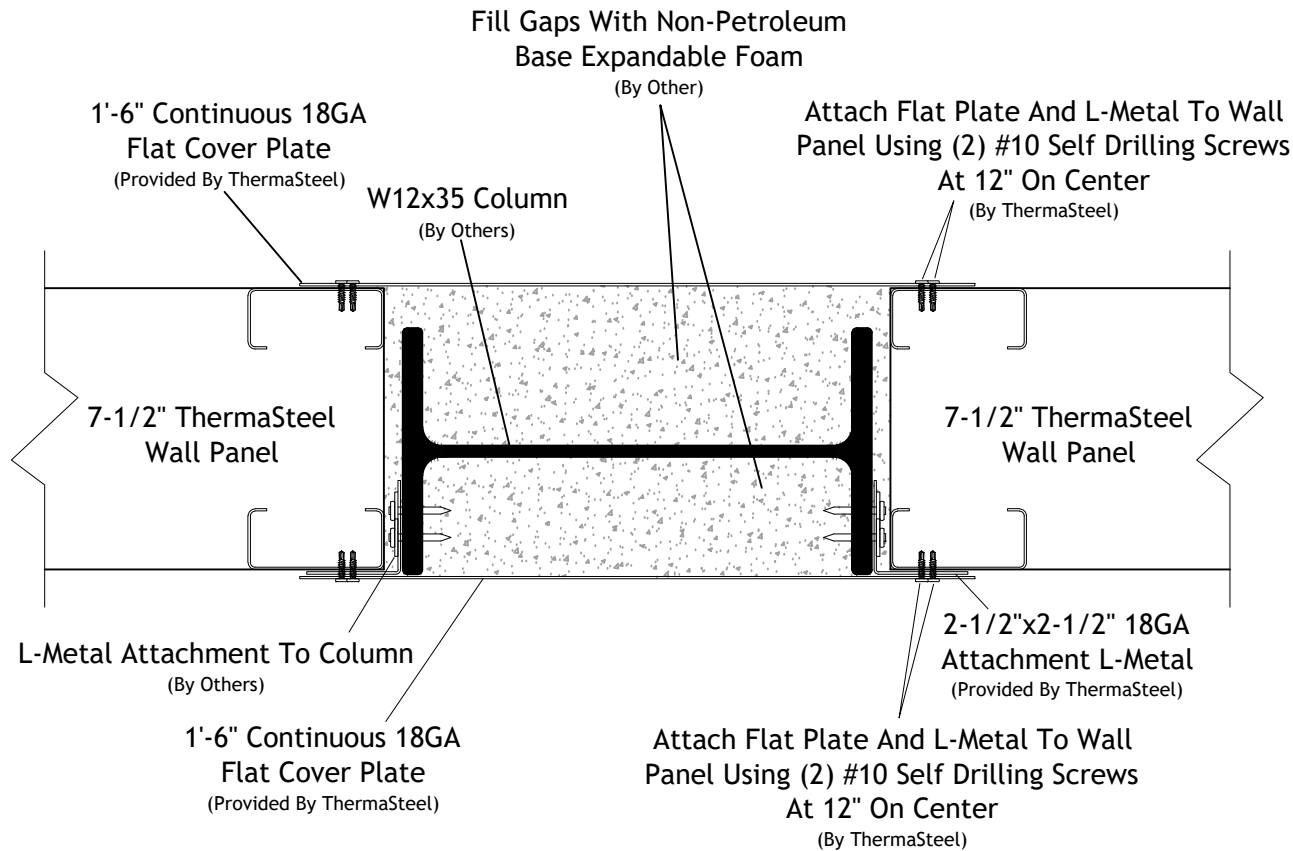
Not To Scale

Rev: 11/30/2021

Drawing Number

CB-008

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Typical Panel Connection To Red Iron Structure Option 2

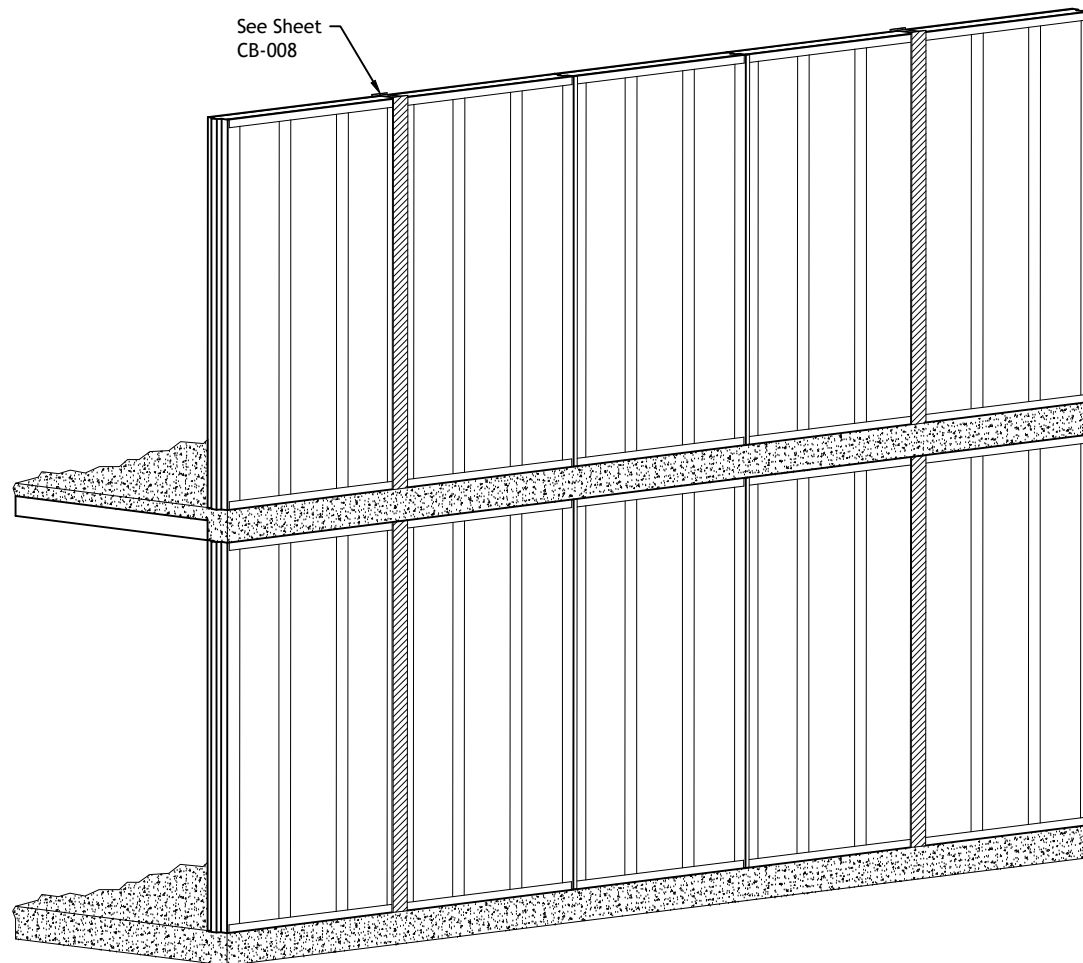
Not To Scale

Rev: 08/07/2023

Drawing Number

CB-009

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Multi-Level Panel In A Commercial Application

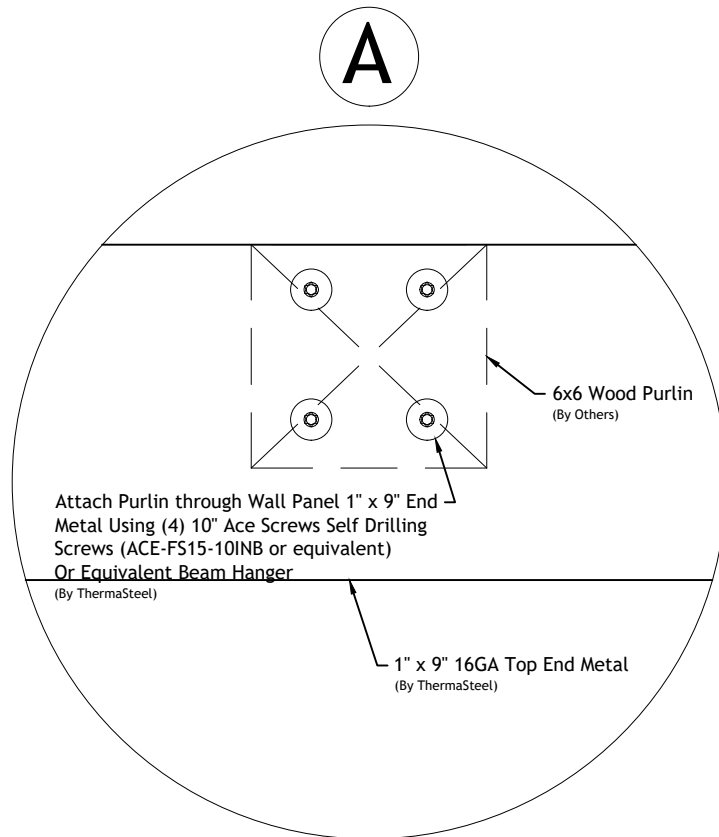
Not To Scale

Rev: 08/07/2023

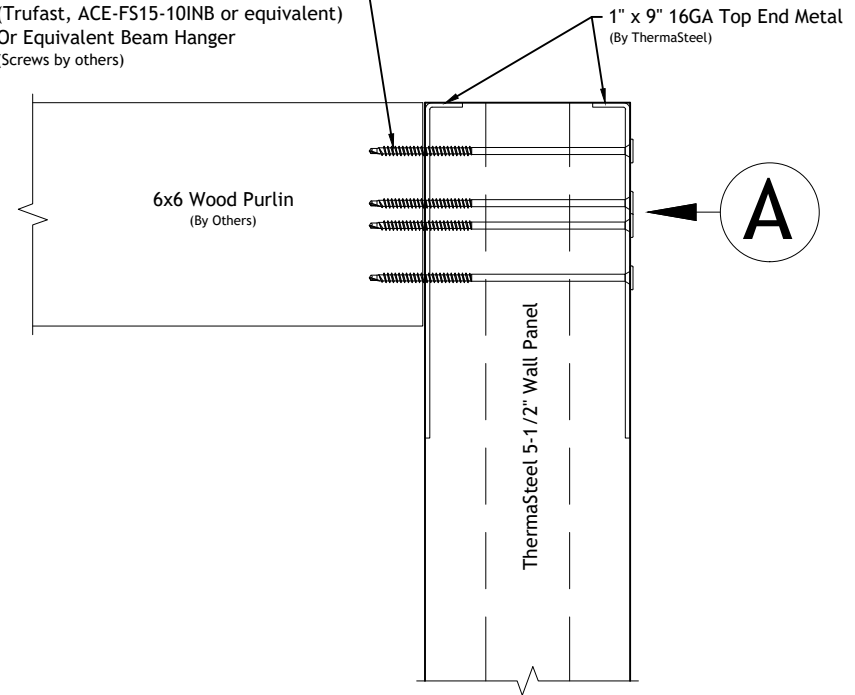
Drawing Number

CB-010

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Attach Purlin through Wall Panel
1" x 9" End Metal
Using (4) 7"-10" long Self Drilling Screws
(Trufast, ACE-FS15-10INB or equivalent)
Or Equivalent Beam Hanger
(Screws by others)



Connections To Other Building Systems

Typical Purlin To Wall Panel Connection

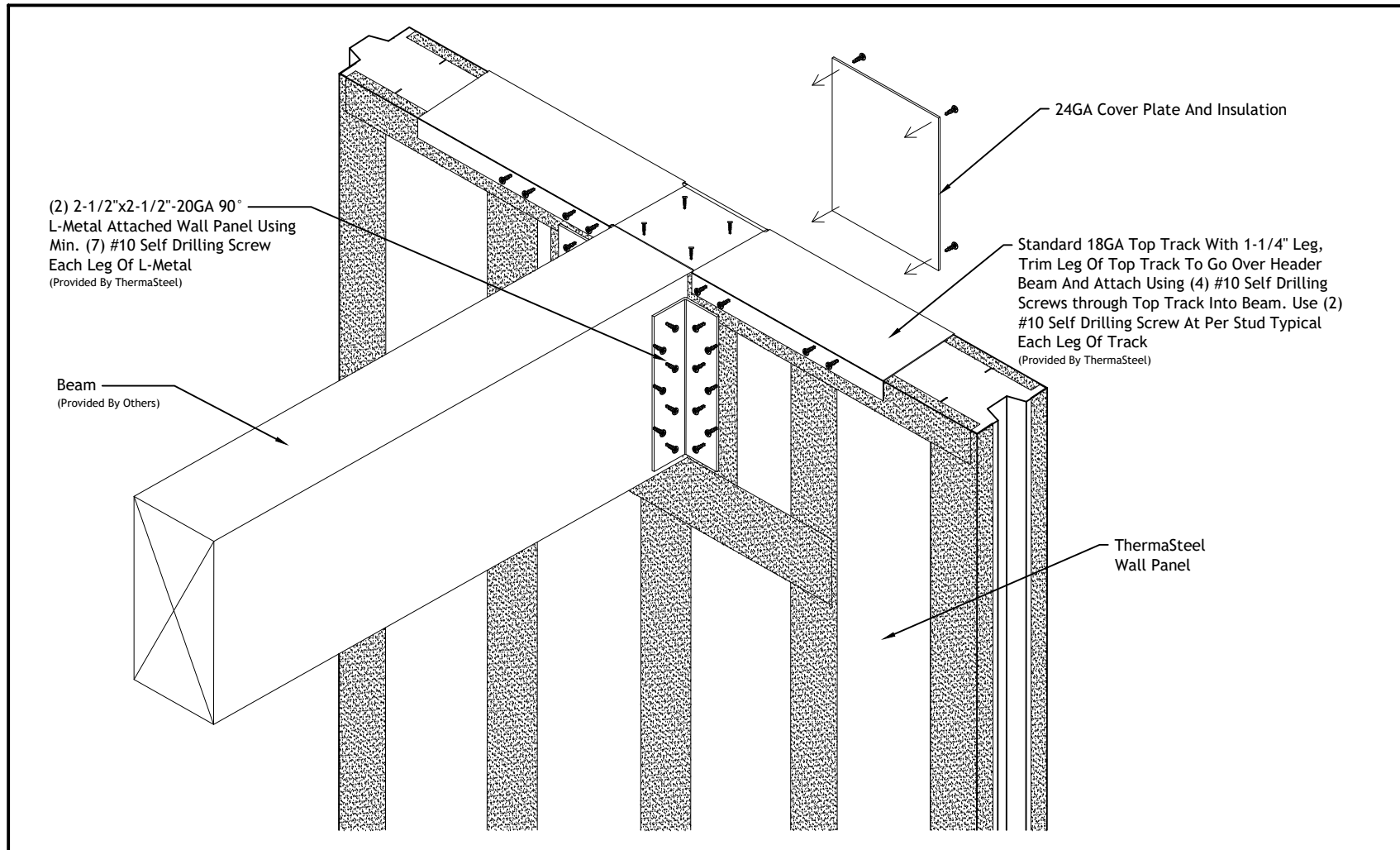
Not To Scale


Rev: 08/07/2023

Drawing Number

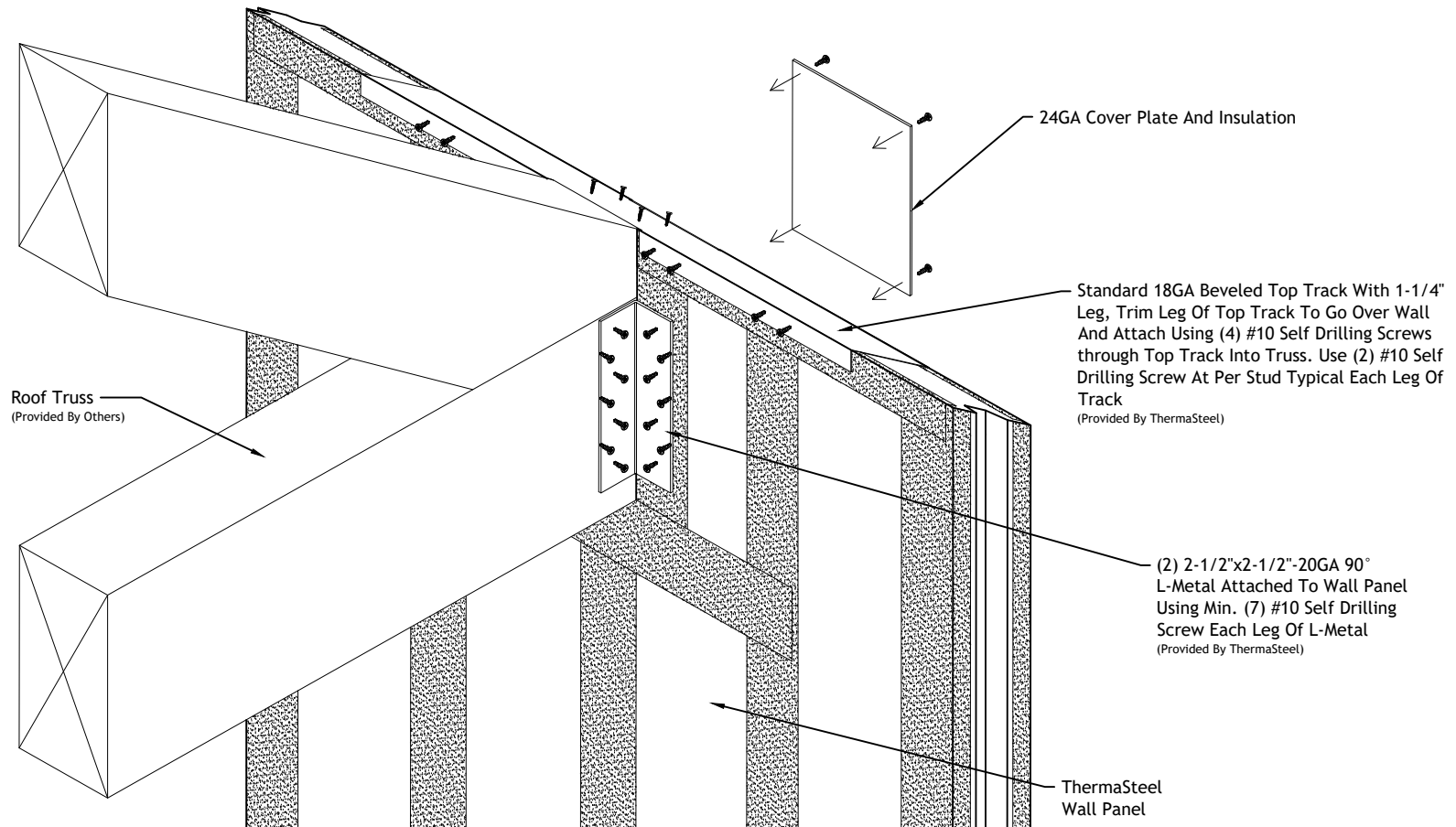
CB-011

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|---------------------------------------|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Connections To Other Building Systems | |
| | Typical Beam Pocket Detail | |
| | | Not To Scale |
| | | Rev: 11/05/2024 |
| | | Drawing Number |
| | | CB-012 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Typical Truss Pocket Detail

Not To Scale

Rev: 11/05/2024

Drawing Number

CB-013

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Attach Column To Wall Panels Using Strapping Connected To Studs Parallel With Column (Strapping Size, Gauge, Placement and Proper Attachment To Steel Column Is To Be Determined By Engineer)

Attach Strap To Wall Panels Using Min #8 Self Drilling Screws through Strap Into Each Wall Stud (Amount Of Screws To Be Determined By Engineer)

Panel Foam And Steel Materials Must Be Cut Out To Allow Placement Of Column

Point Load

Steel Column Installed (Gauge and Size Of Column To Be Determined By Engineer)

Fill Gaps With Expandable Foam

(Strap Detail Is To Be Used On Interior And Exterior Of Panel)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Typical Point Load Connection

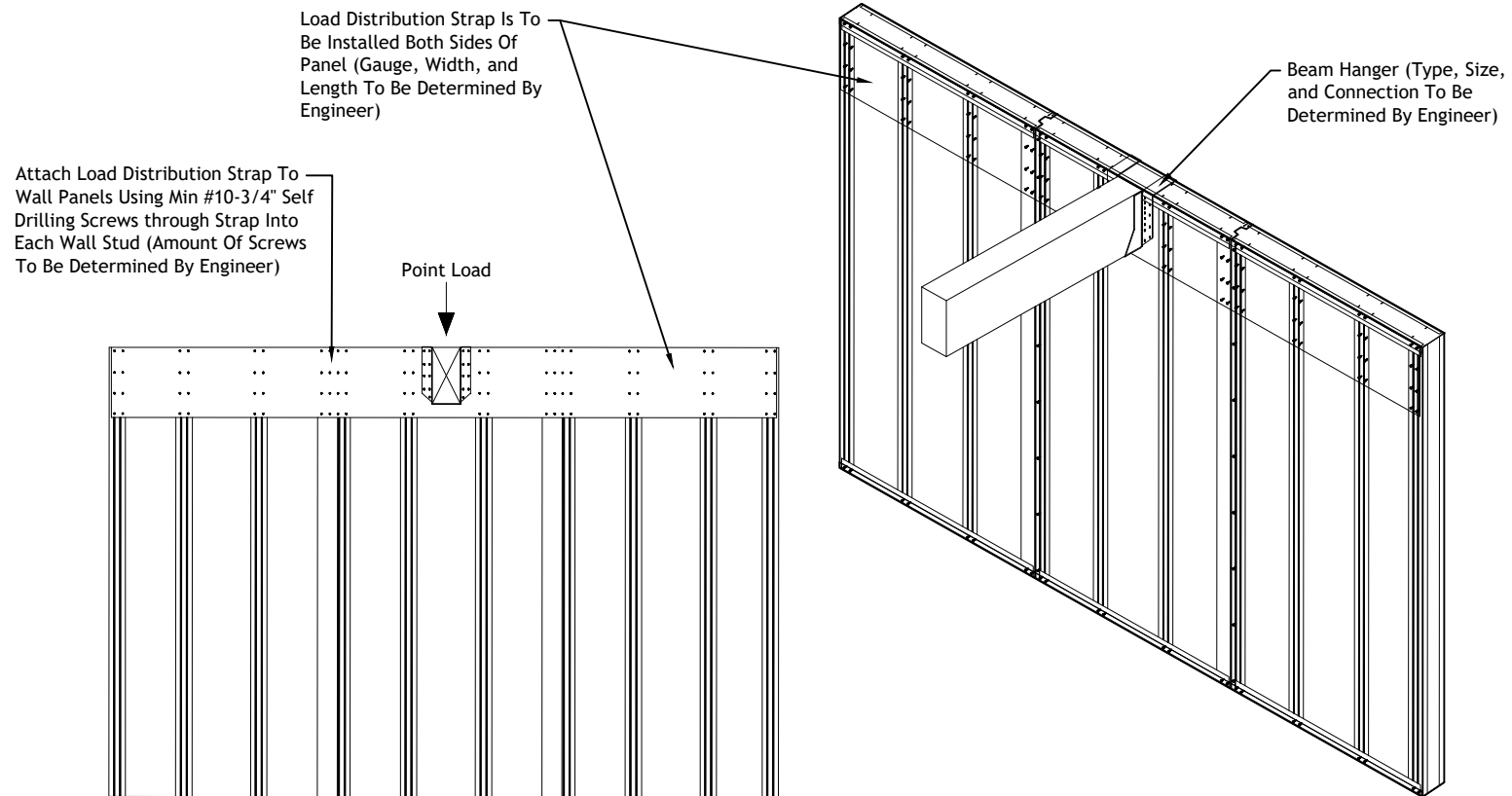
Not To Scale

Rev: 08/07/2023

Drawing Number

CB-014

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



(Strap Detail Is To Be Used On Interior And Exterior of Panel)



Connections To Other Building Systems

Typical Beam To Panel Connection With Strap/Hanger

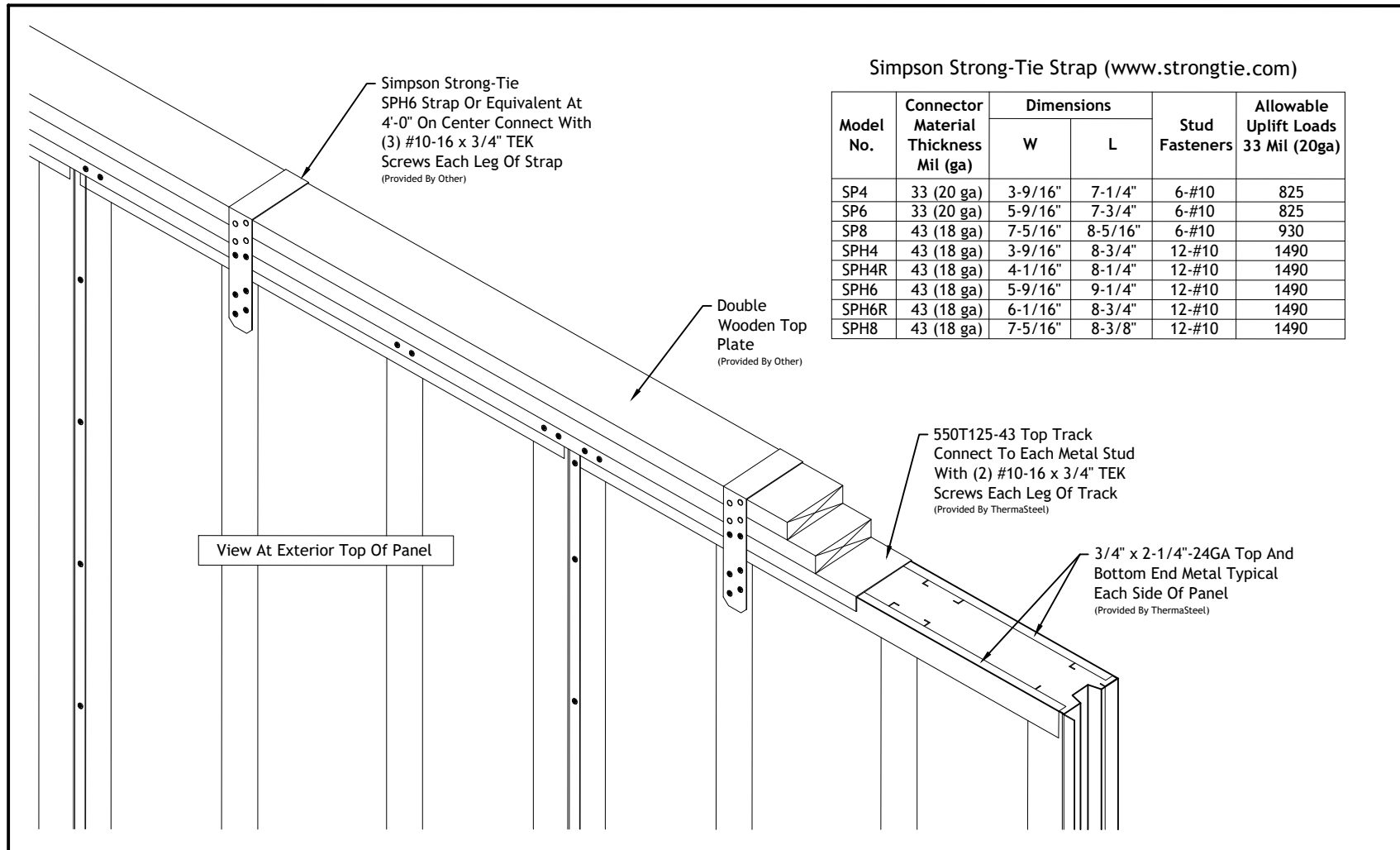
Not To Scale

Rev: 08/07/2023

Drawing Number


CB-015

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

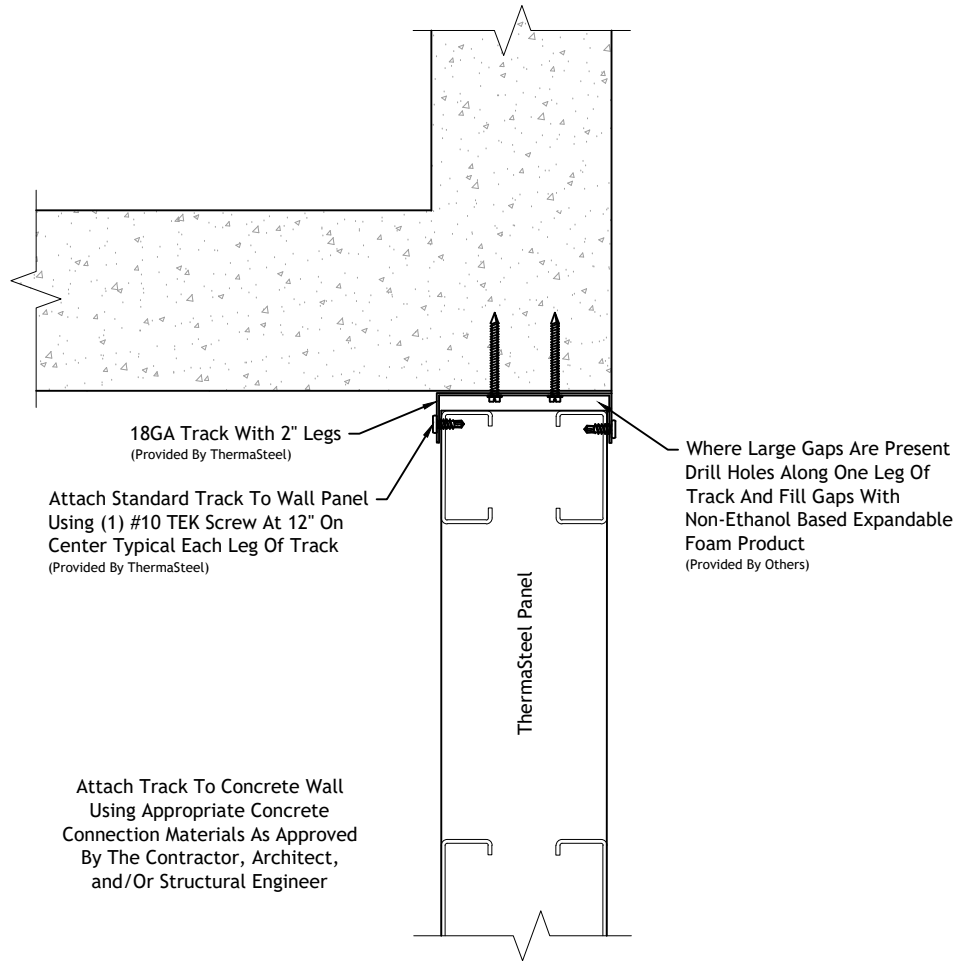
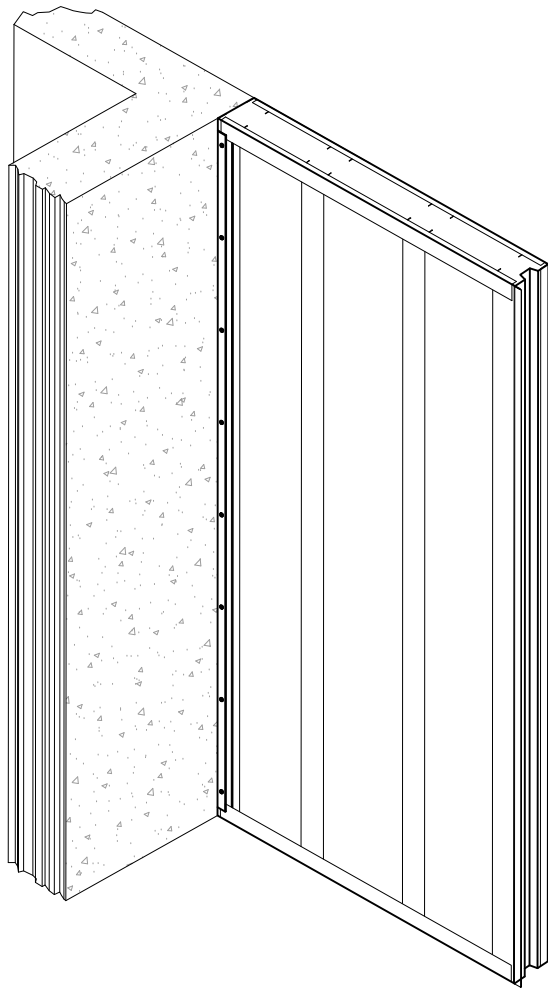


Simpson Strong-Tie Strap (www.strongtie.com)

| Model No. | Connector Material Thickness Mil (ga) | Dimensions | | Stud Fasteners | Allowable Uplift Loads 33 Mil (20ga) |
|-----------|---------------------------------------|------------|---------|----------------|--------------------------------------|
| | | W | L | | |
| SP4 | 33 (20 ga) | 3-9/16" | 7-1/4" | 6-#10 | 825 |
| SP6 | 33 (20 ga) | 5-9/16" | 7-3/4" | 6-#10 | 825 |
| SP8 | 43 (18 ga) | 7-5/16" | 8-5/16" | 6-#10 | 930 |
| SPH4 | 43 (18 ga) | 3-9/16" | 8-3/4" | 12-#10 | 1490 |
| SPH4R | 43 (18 ga) | 4-1/16" | 8-1/4" | 12-#10 | 1490 |
| SPH6 | 43 (18 ga) | 5-9/16" | 9-1/4" | 12-#10 | 1490 |
| SPH6R | 43 (18 ga) | 6-1/16" | 8-3/4" | 12-#10 | 1490 |
| SPH8 | 43 (18 ga) | 7-5/16" | 8-3/8" | 12-#10 | 1490 |

| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Connections To Other Building Systems | |
| | Typical Top Plate/Beam Over Panel | |
| | Not To Scale | |
| | Rev: 08/07/2023 Drawing Number CB-016 | |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



Connections To Other Building Systems

Typical Panel To Concrete/Brick Connection

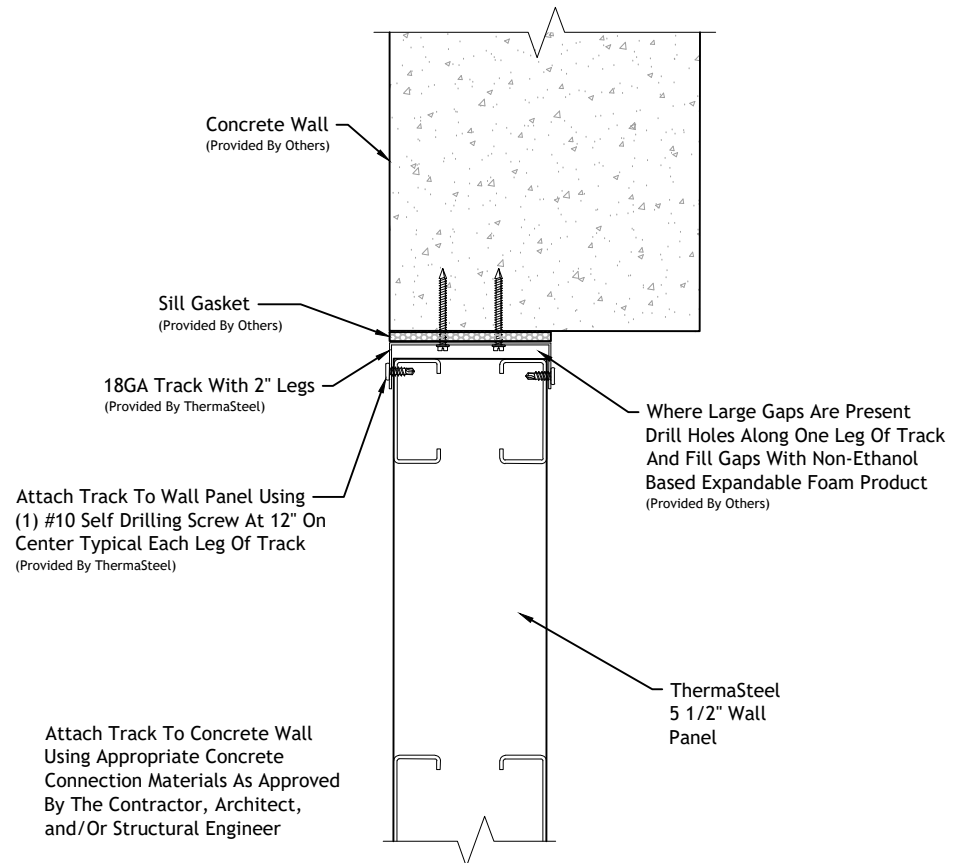
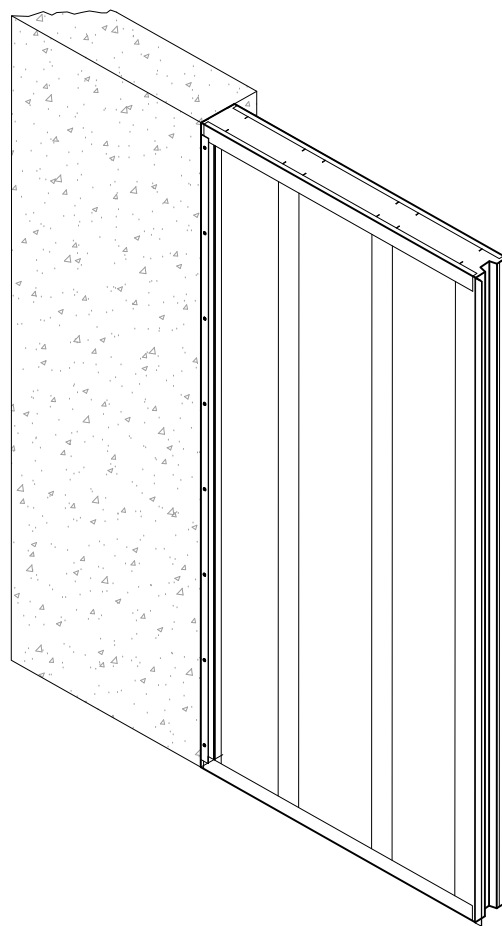
Not To Scale

Rev: 08/07/2023

Drawing Number

CB-017

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

ThermaSteel To Concrete Wall Connection

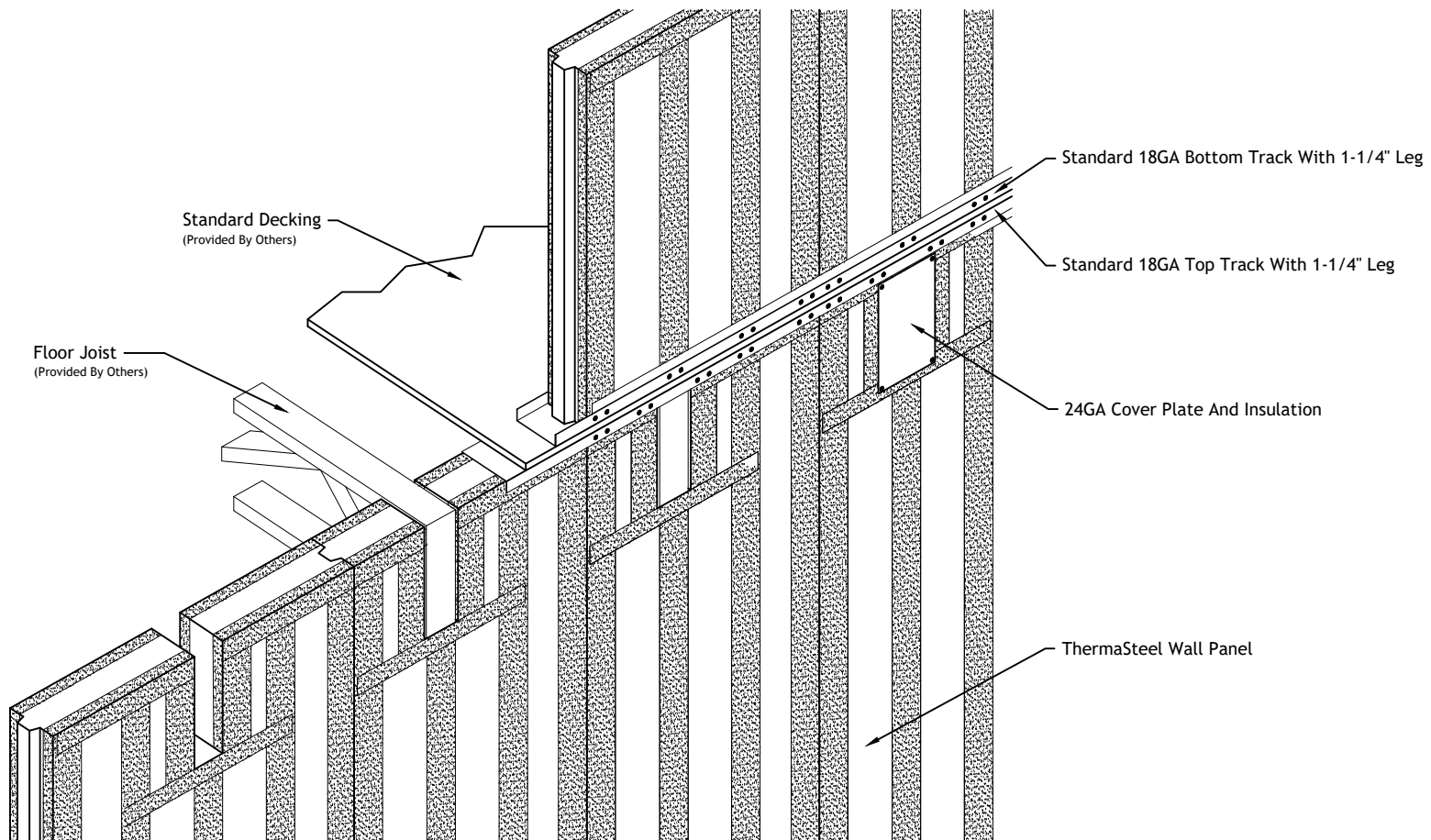
Not To Scale

Rev: 08/07/2023

Drawing Number

CB-018

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Connections To Other Building Systems

Typical Attachment Of Panels To Floor Trusses - Balloon Floor System

Not To Scale

Rev: 11/8/2023

Drawing Number

CB-019

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Miscellaneous

MS-001 Typical Roof Covering Applications - Section View

MS-002 Typical Exterior Cladding Application

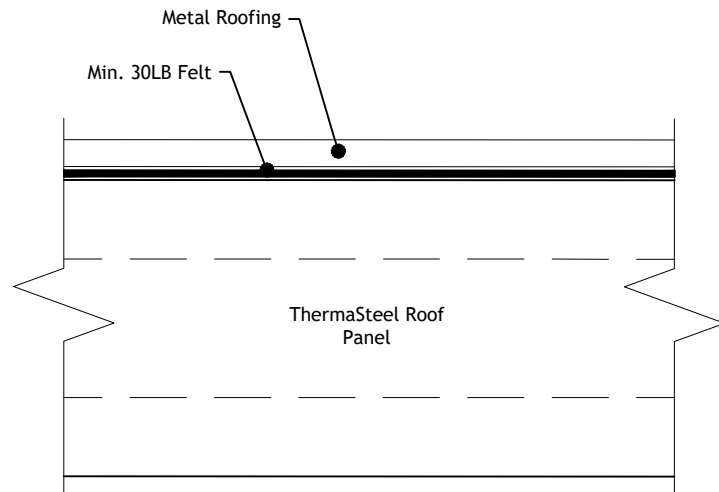
MS-003 Standard Wood Stud Construction, Exterior Wall System, 8 Step Assembly

MS-004 ThermaSteel 5 1/2" Exterior Wall System, 4 Step Assembly

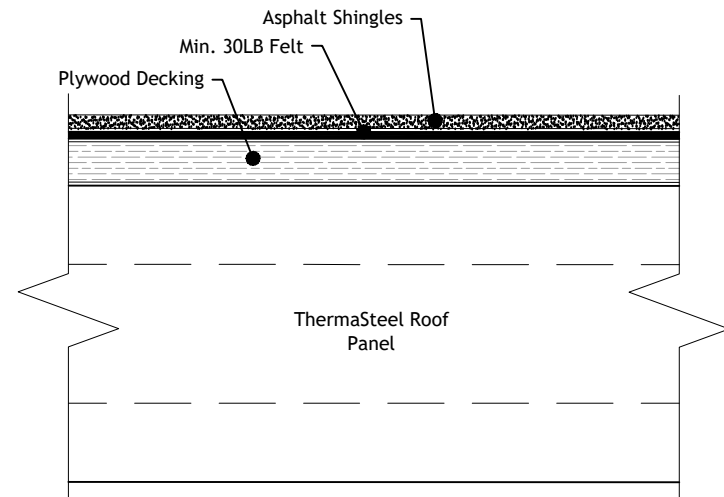
MS-005 Shear Wall Cross Strapping Detail

[Back To Connection Detail
Chapters](#)

Metal Roofing To Roof Panel



Asphalt Shingles To Roof Panel



Miscellaneous

Typical Roof Covering Applications - Section View

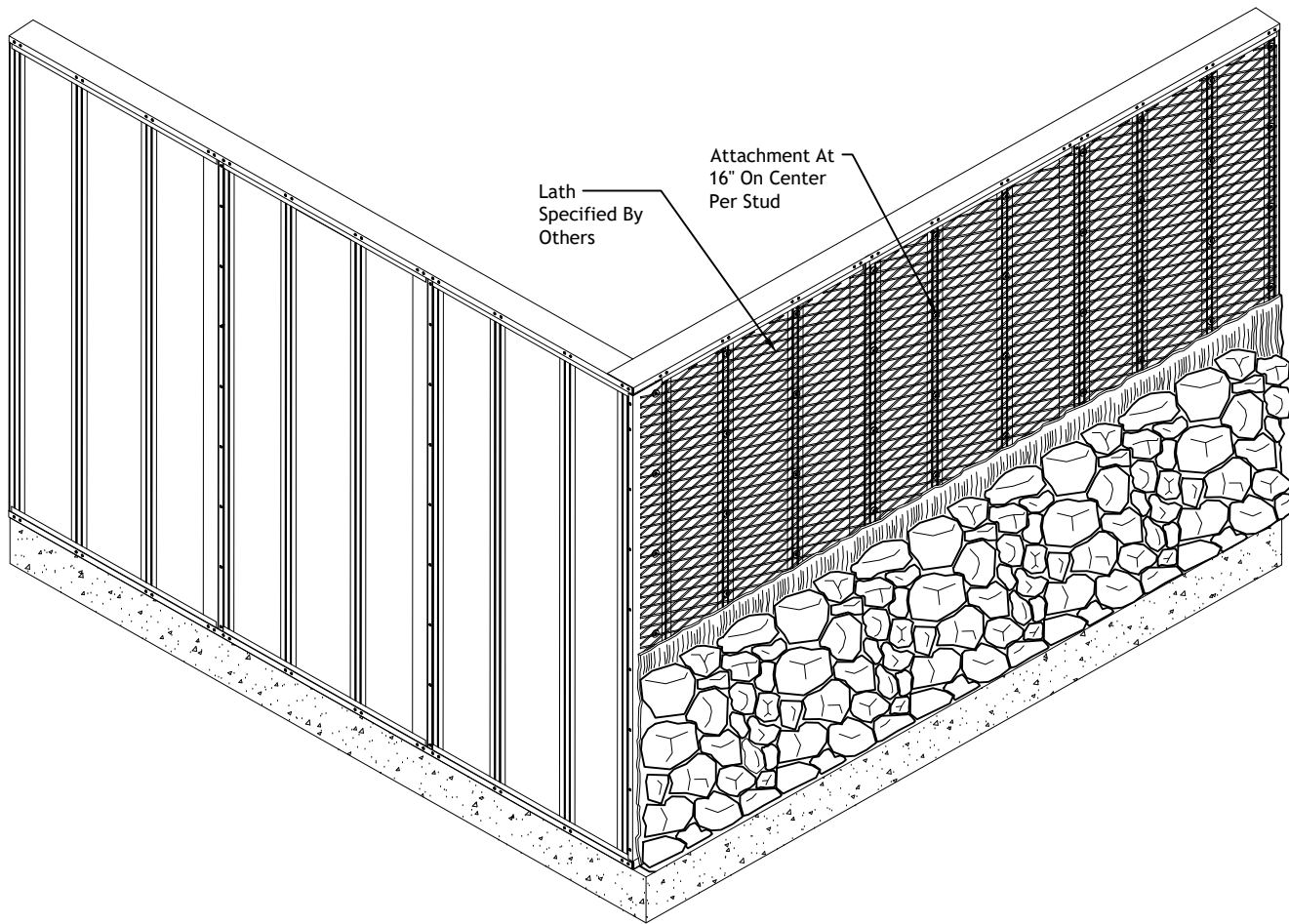
Not To Scale

Rev: 11/30/2021

Drawing Number

MS-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Miscellaneous

Typical Exterior Cladding Application

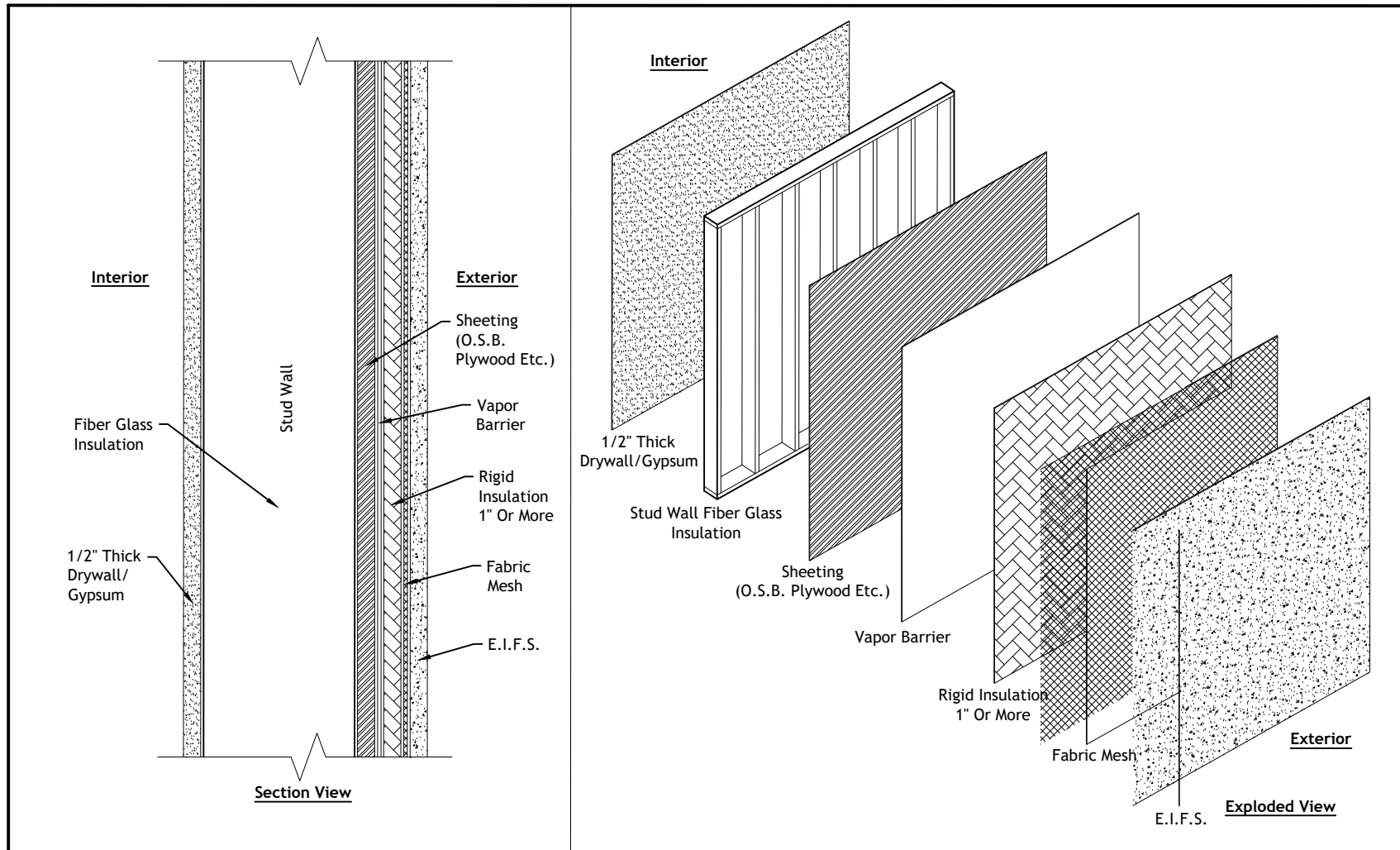
Not To Scale

Rev: 11/30/2021

Drawing Number

MS-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEELTM
ADVANCED PANEL SYSTEM

Miscellaneous

Standard Wood Stud Construction,
Exterior Wall 8-Step Assembly

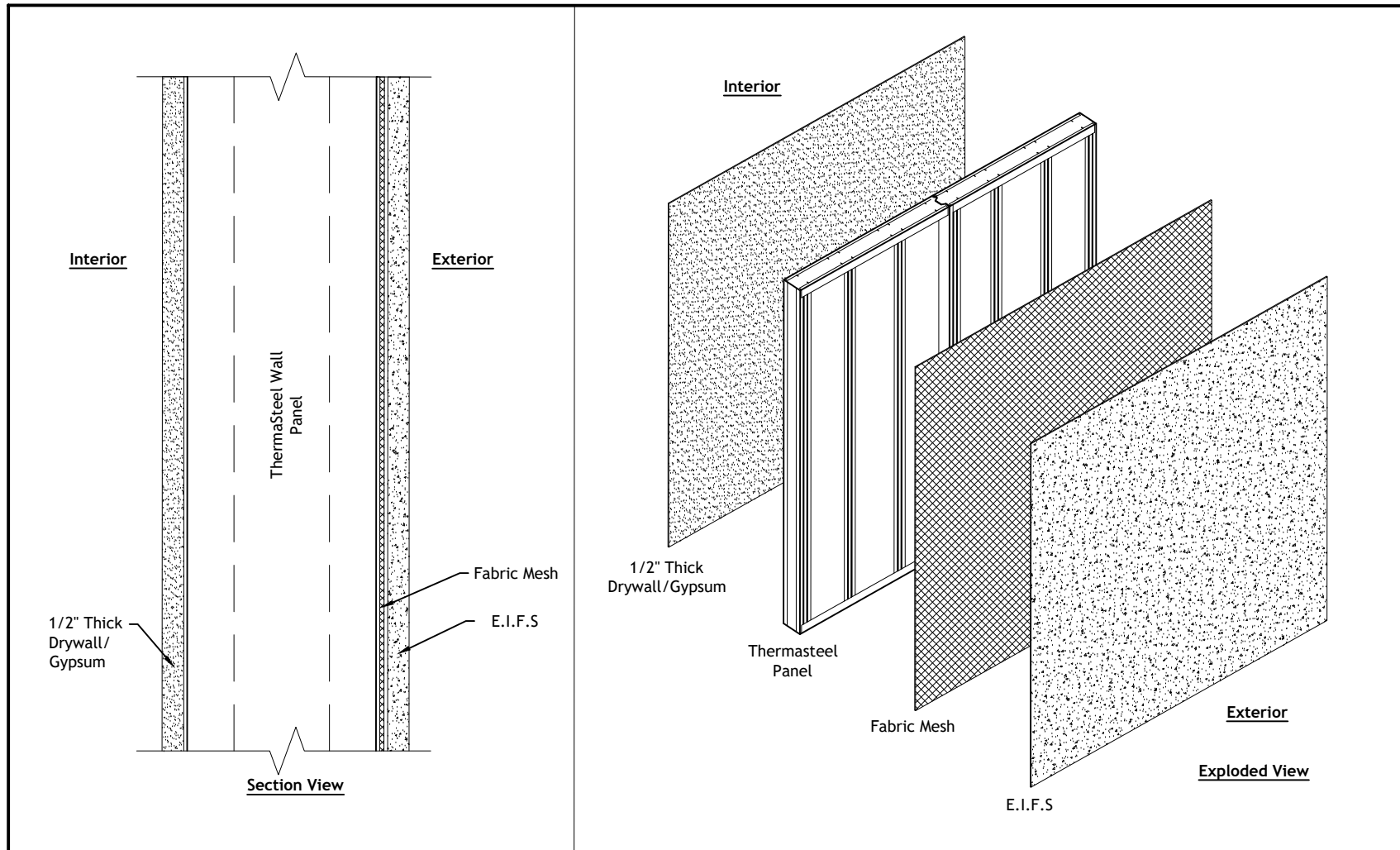
Not To Scale


Rev: 11/30/2021

Drawing Number

MS-003

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|--|--|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Miscellaneous | |
| | ThermaSteel 5 1/2" Exterior Wall System 4-Step Assembly | |
| | | |
| | | |
| | | Not To Scale Rev: 11/30/2021 Drawing Number MS-004 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Connect Strap To Top Track By Folding Strap Over and Attach Using (8) #10 Self Drilling TEK Screws

___" Width - ___GA
X-Brace Strapping
Exterior Of Panel Only

(2) #10 TEK Screws @ Approx 16"
On Center Across The Panel At
Each Stud/Strap Crossing

Flush Mount Connection
Of Strap To Concrete. If
Concrete Slab Is Wider
Than The Wall, Bend Strap
Up At A 90° Angle And
Mount Strap To Concrete
By Appropriate
Connectors.

Standard 18GA Bottom
Track With 1-1/4" Leg

Concrete
Foundation

(Connection Is Typical On Exterior Of Panel Only)

Strap To Top Track Connection

Connect Strap To Top Track By Folding
Strap Over and Attach Using
(8) #10 Self Drilling TEK Screws

Connect Strap To Concrete
By Continuing Strap Over
Concrete And Connect Using
Appropriate Connectors
After Track And Panels Are
Installed. If Concrete Slab Is
Wider Than The Wall, Bend
Strap Up At A 90° Angle And
Mount Strap To Concrete
By Appropriate Connectors.

Connectors Type
And Amount To Be
Determined By
Structural Engineer

Note: Strap To Concrete Connection Should
Be Used At Each Level For Concrete
Connection Above Or Below Panel

Strap To Concrete Connection Section View



Miscellaneous

Shear Wall Cross Strapping Detail

Not To Scale

Rev: 11/30/21

Drawing Number

MS-005

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Field Modifications

FM-001 Typical Field Cut Window With Track

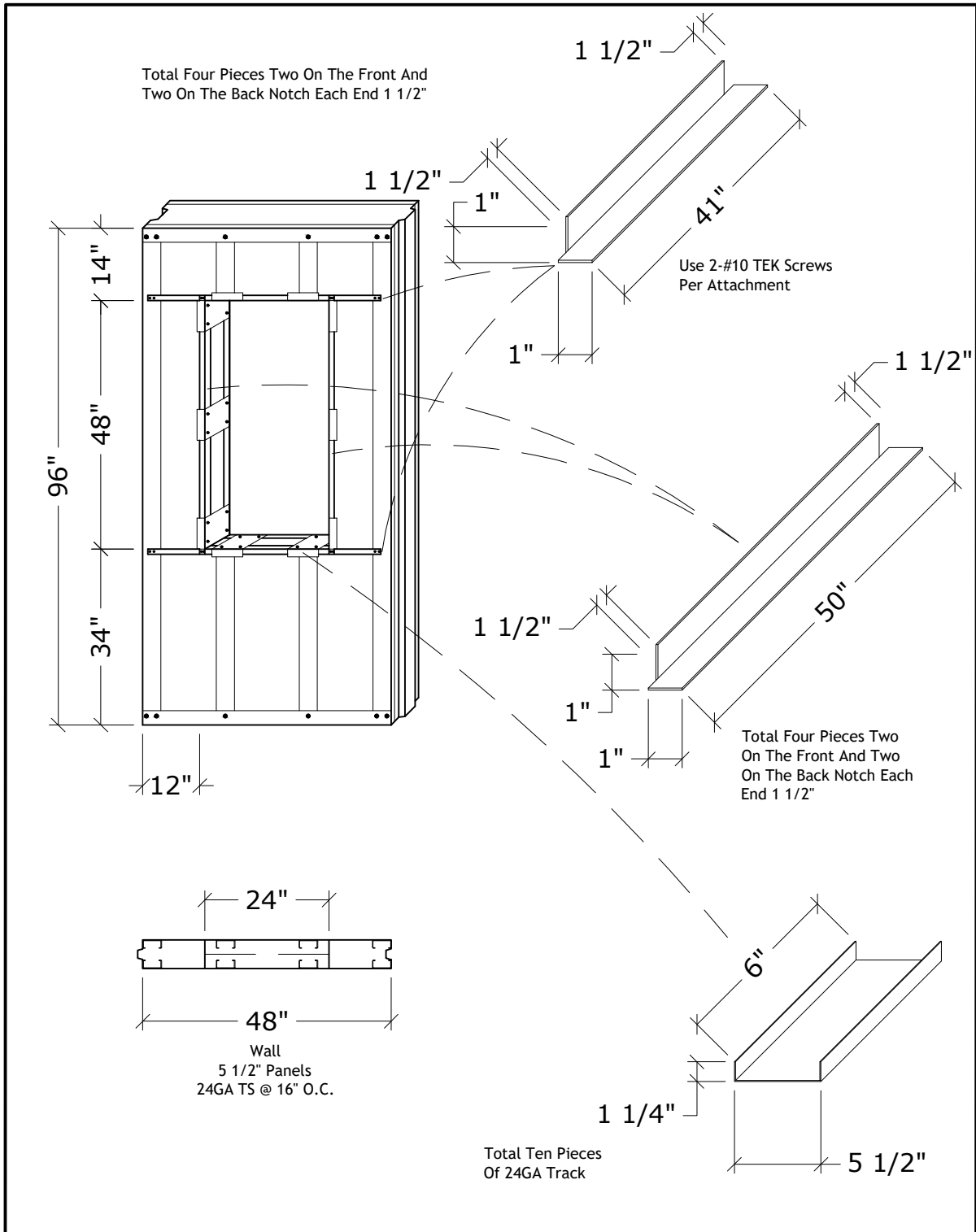
FM-002 Typical Field Cut Window

FM-003 Typical Field Cut Door With Track

FM-004 Typical Field Cut Door With Wood

FM-005 Typical Electrical Box Installation

[Back To Connection Detail
Chapters](#)



THERMASTEEL™
ADVANCED PANEL SYSTEM

Field Modifications

Typical Field Cut
Window With Track

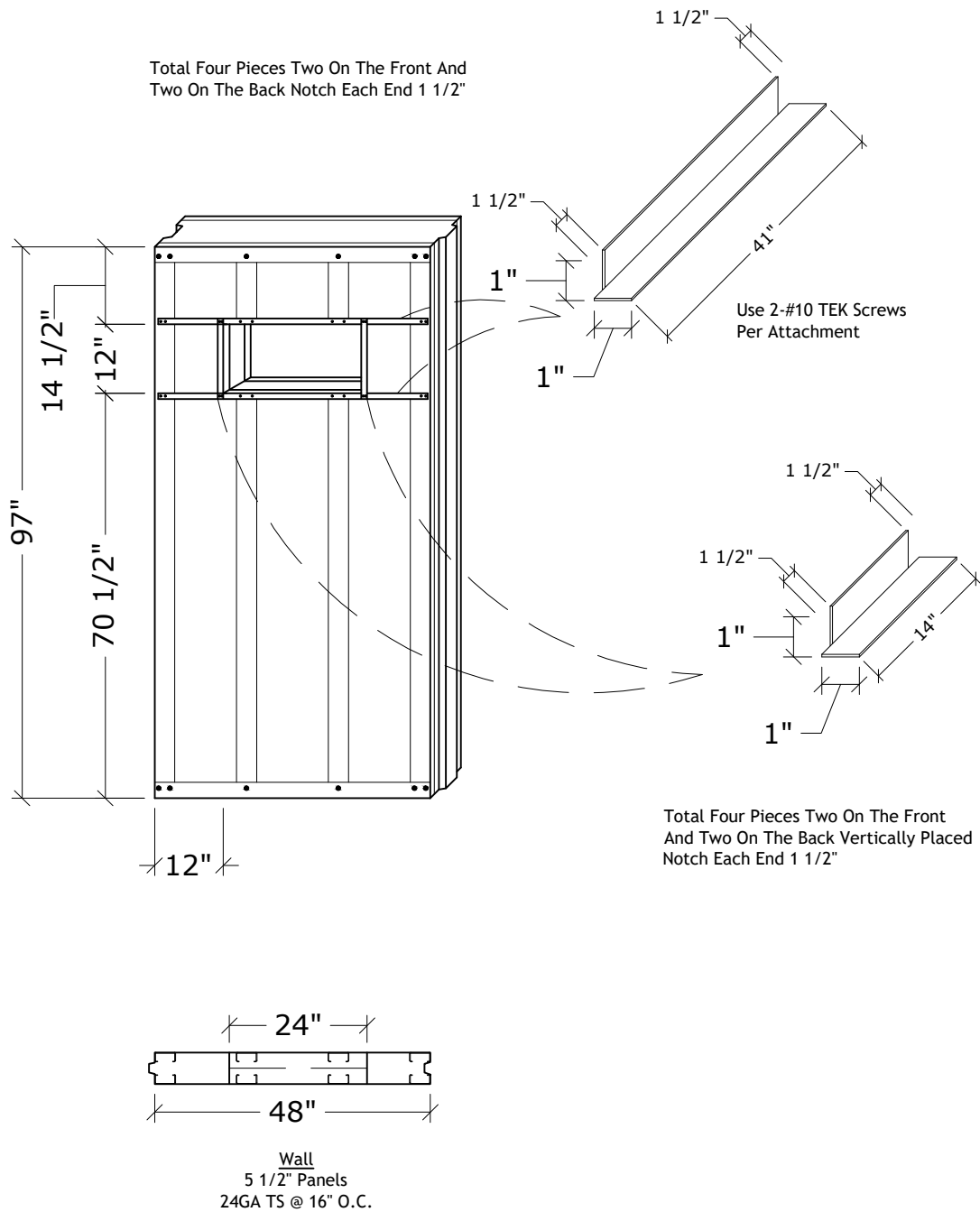
Not To Scale

Rev: 11/30/2021

Drawing Number

FM-001

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



THERMASTEEL™
ADVANCED PANEL SYSTEM

Field Modifications

Typical Field Cut
Window

Not To Scale

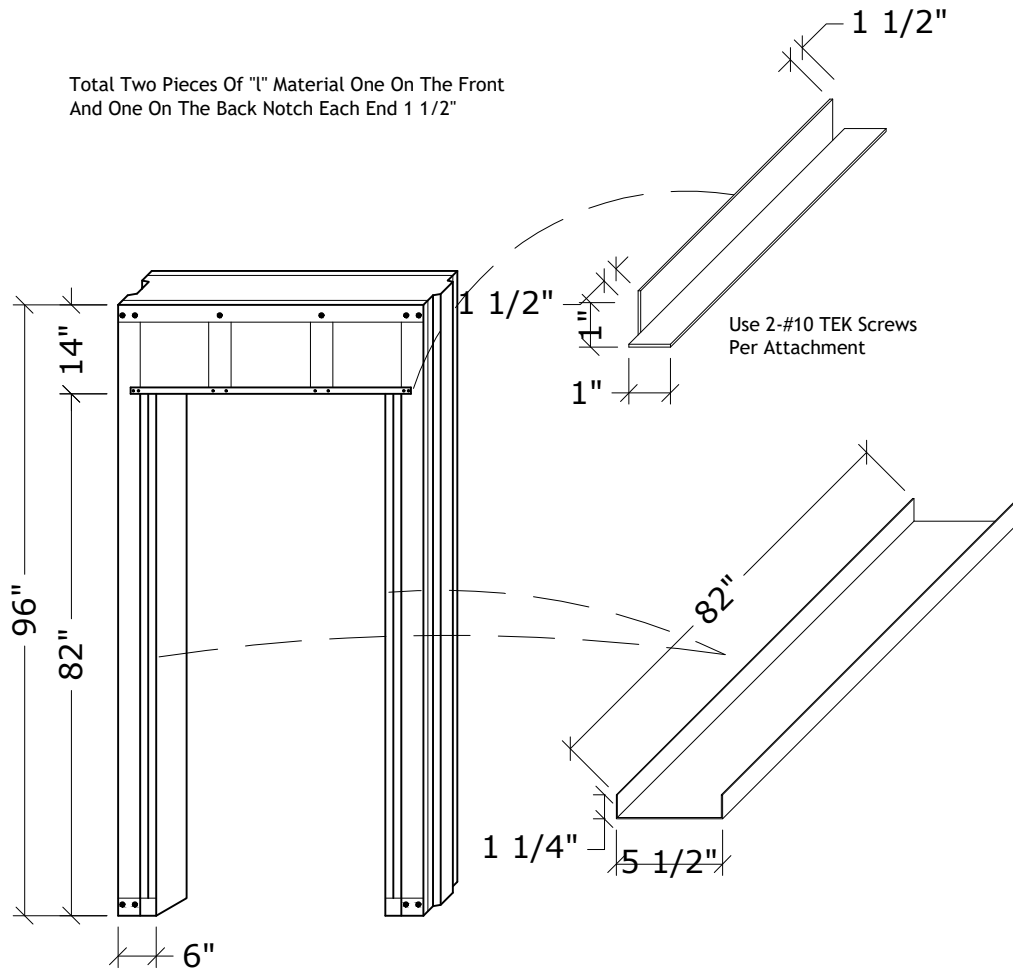
Rev: 11/30/2021

Drawing Number

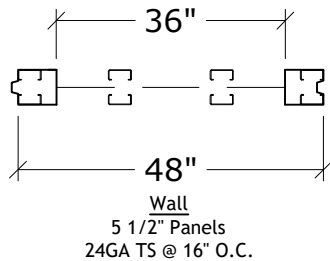
FM-002

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com

Total Two Pieces Of "I" Material One On The Front
And One On The Back Notch Each End 1 1/2"



Total Two Pieces Of 24 Ga
Track One On Each Side



THERMASTEEL™
ADVANCED PANEL SYSTEM

Field Modifications

Typical Field Cut
Door With Track

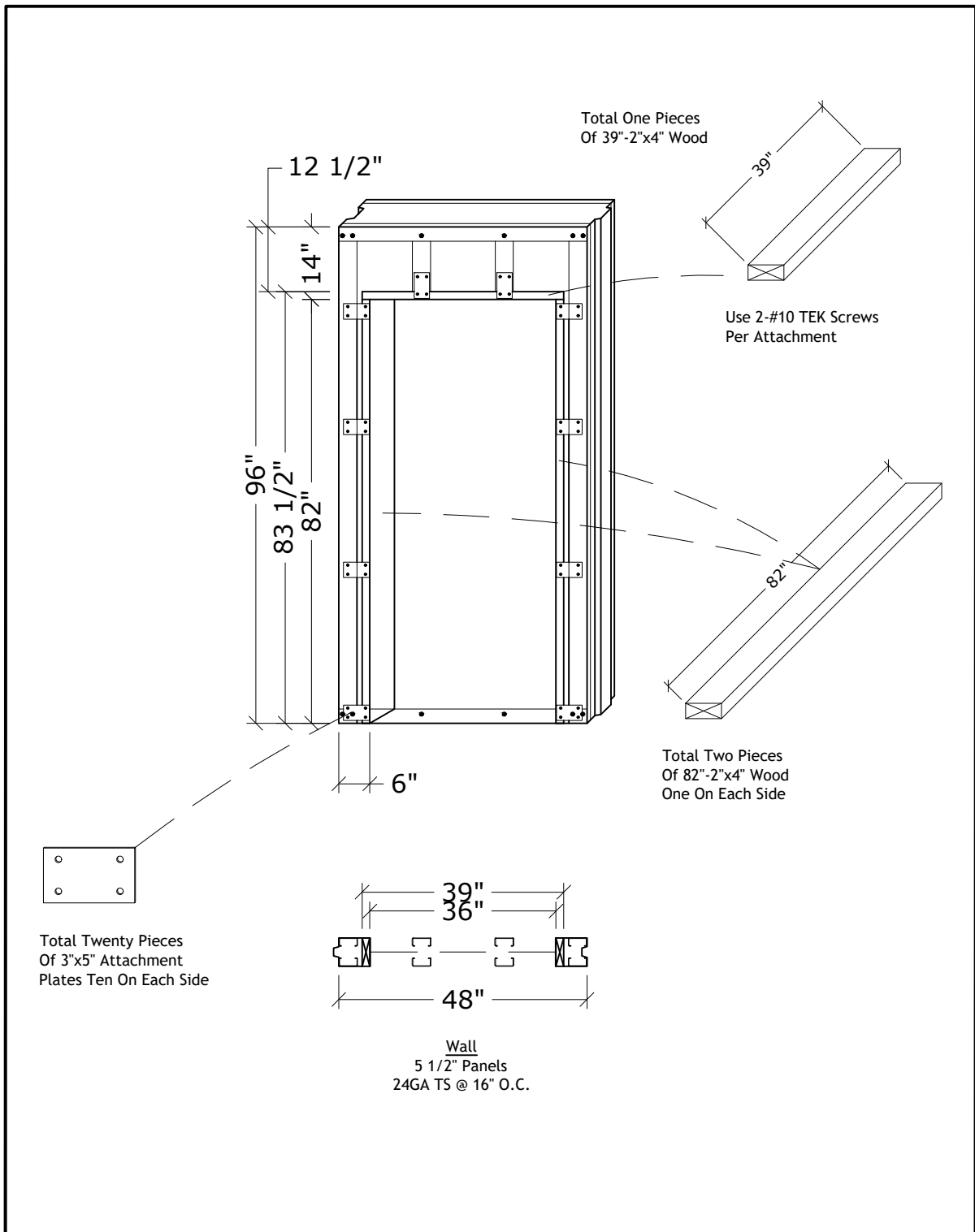
Not To Scale


Rev: 11/30/2021

Drawing Number

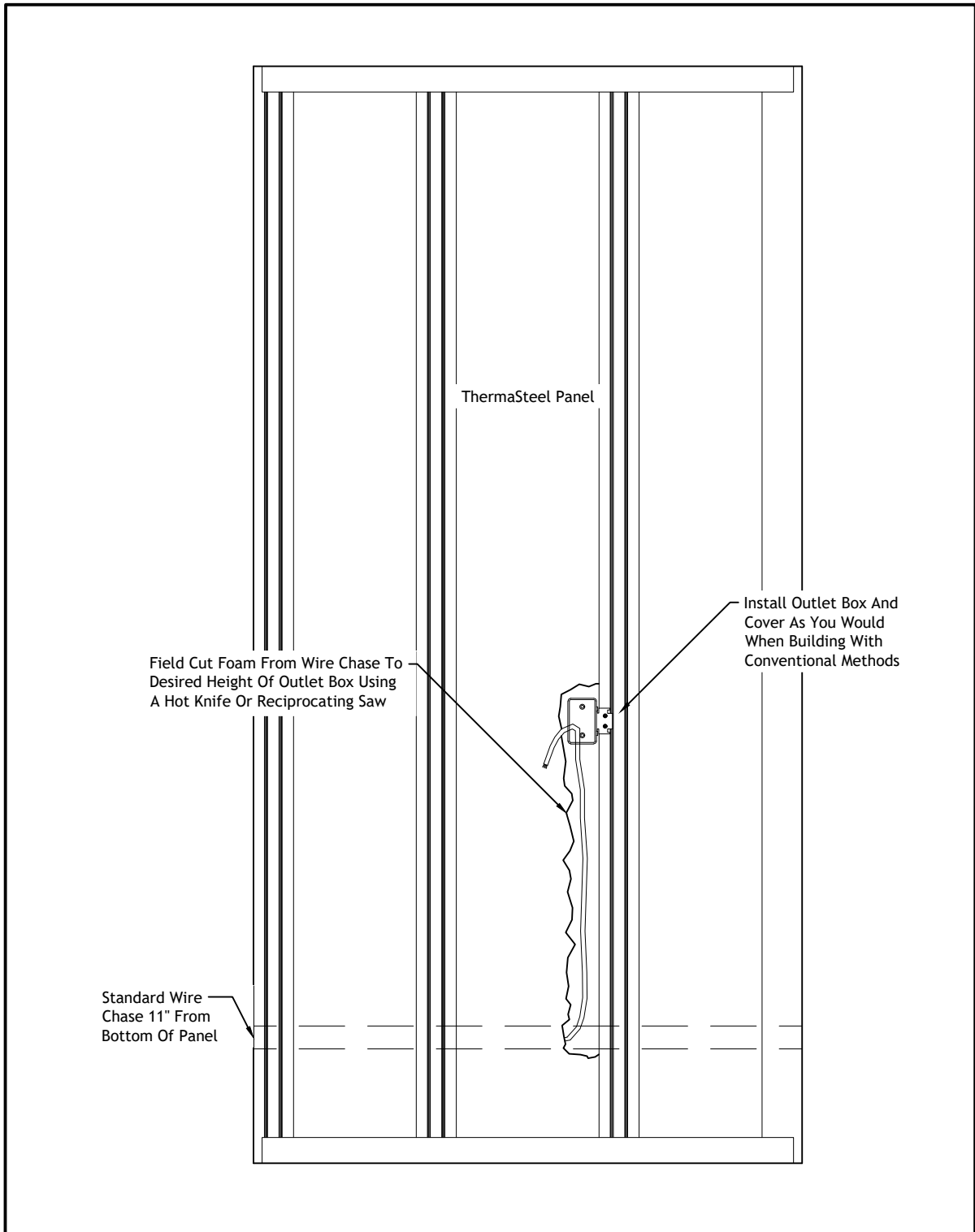
FM-003


THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|---|-----------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Field Modifications | |
| | Typical Field Cut Door With Wood | |
| | | |
| | | |
| | | Not To Scale |
| | | Rev: 11/30/2021 |
| | | Drawing Number |
| | | FM-004 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com



| | | |
|--|--|---------------------------------|
|  THERMASTEEL™ ADVANCED PANEL SYSTEM | Field Modifications | |
| | Typical Electrical Box Installation | Not To Scale |
| | | Rev: 11/30/2021 |
| | | Drawing Number FM-005 |

THERMASTEEL ADVANCED PANEL SYSTEM - MANUFACTURED BY THERMASTEEL INC
609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000
www.thermasteelinc.com