



# THERMASTEEL™

ADVANCED PANEL SYSTEMS

## 2022 TYPICAL CONNECTION DETAILS

[www.thermasteelinc.com/downloads](http://www.thermasteelinc.com/downloads)



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## Connection Detail Chapters

Basic Panels

Below Grade

Floor Connections

Floor Design

Panel Hold Downs And Track Connections

Headers/Sills

Panel To Panel Connections

Roof Connections

Special Panels

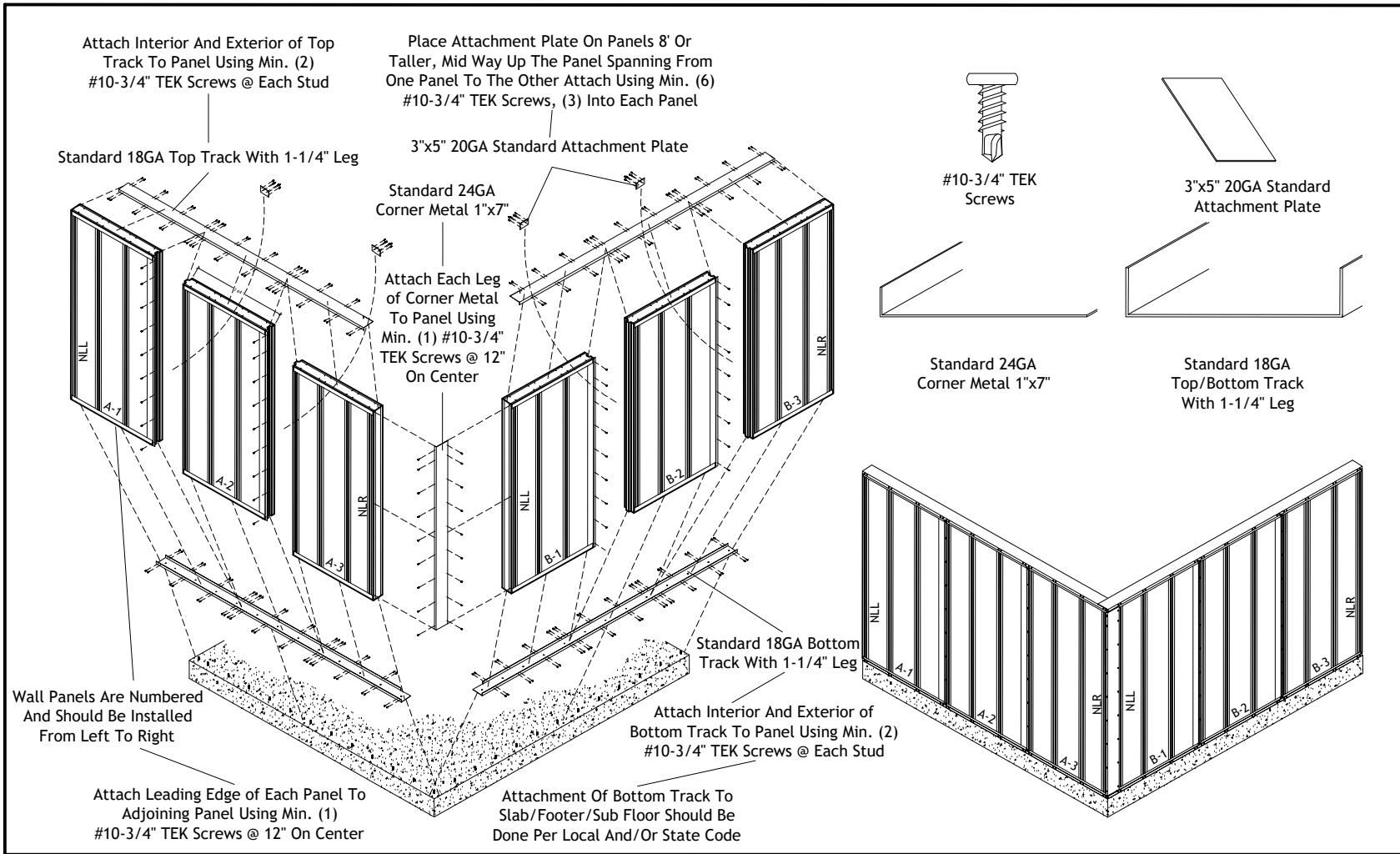
Connections To Other Building Components/Systems


Miscellaneous

Field Modifications

## Basic Panels

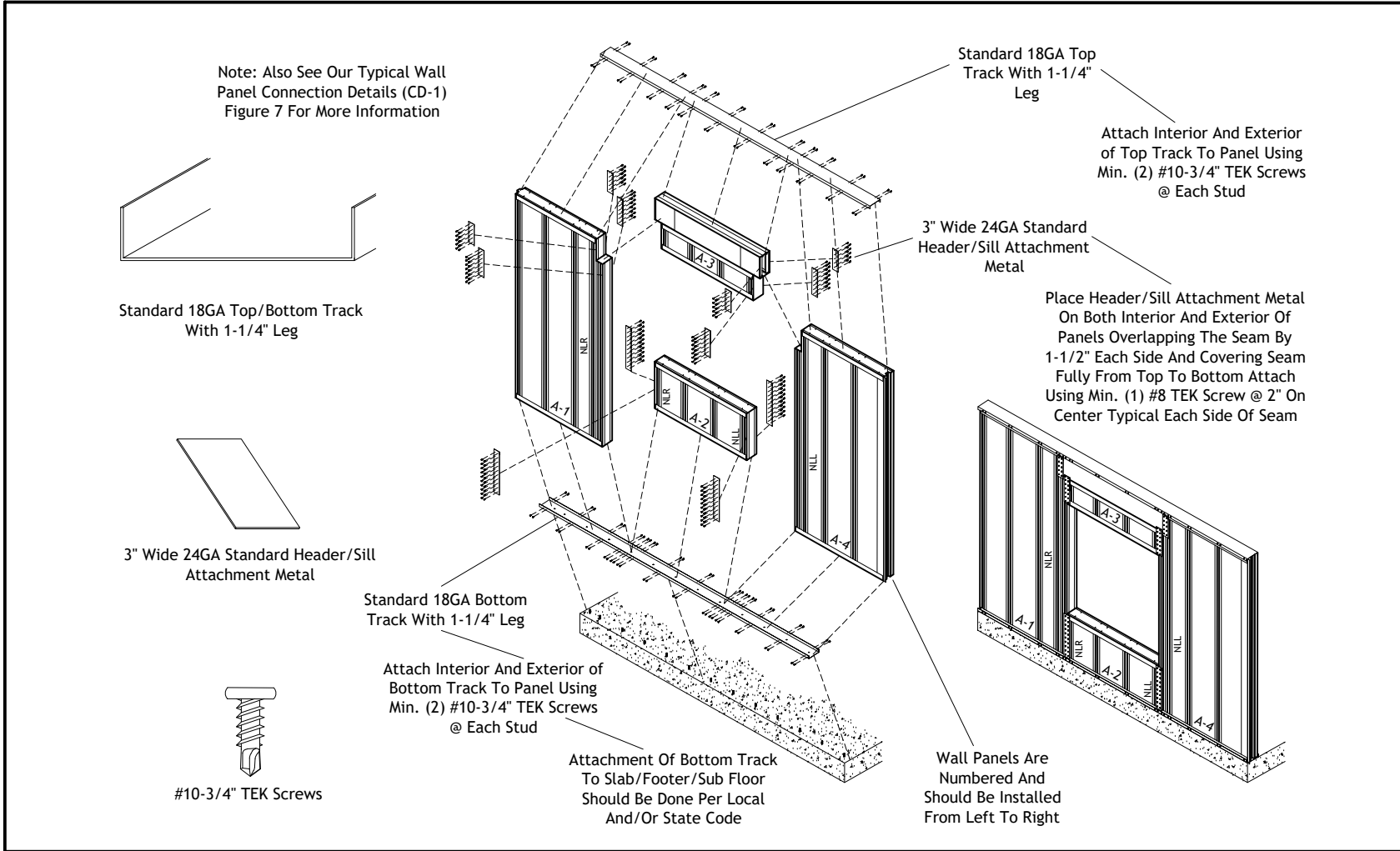
- BP-001 Typical Wall Panel Layout - Exploded View
- BP-002 Typical Wall Panel With Openings - Exploded View
- BP-003 16" O.C. Wall Panel
- BP-004 24" O.C. Wall Panel
- BP-005 Window Opening Wall Panel
- BP-006 Door Opening Wall Panel
- BP-007 Standard 3 1/2" Panel Dimensions
- BP-008 Standard 5 1/2" 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



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Basic Panels</b>	
	Typical Wall Panel Layout - Exploded View	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>BP-001</b>	

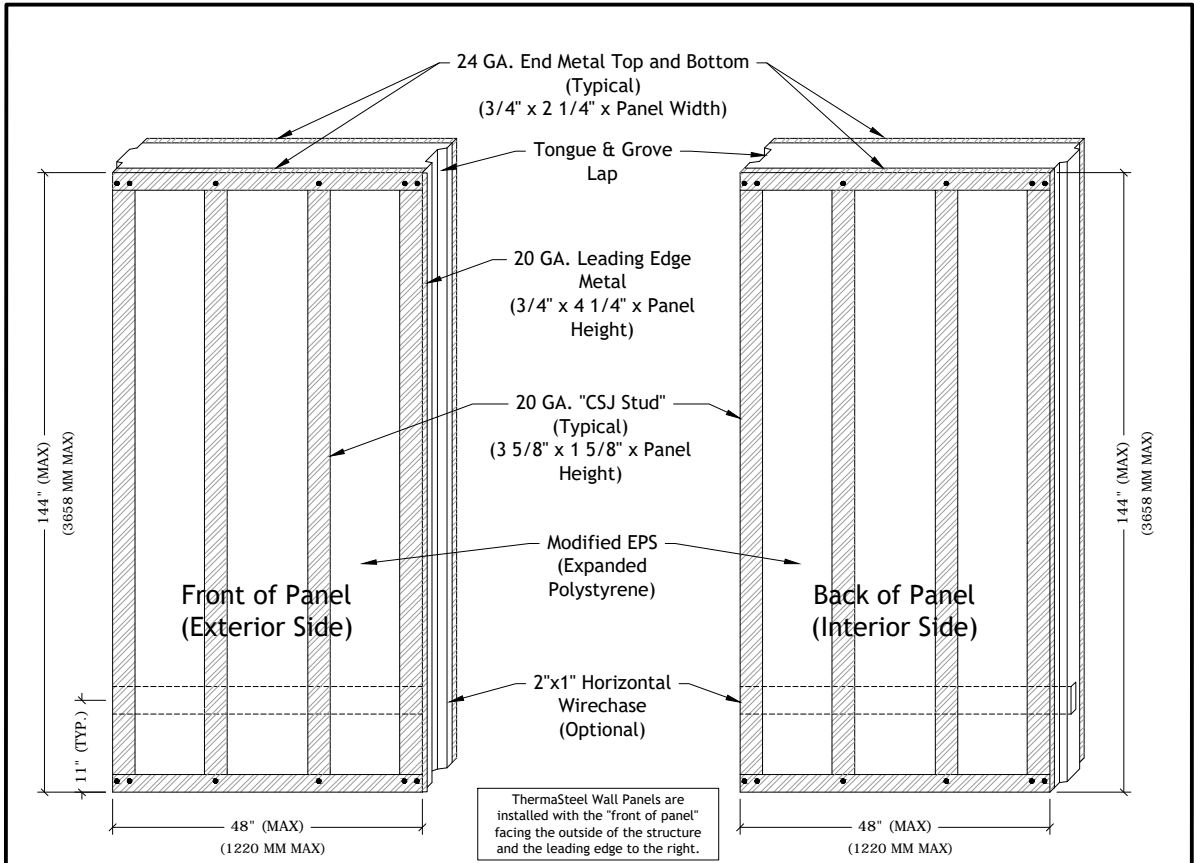
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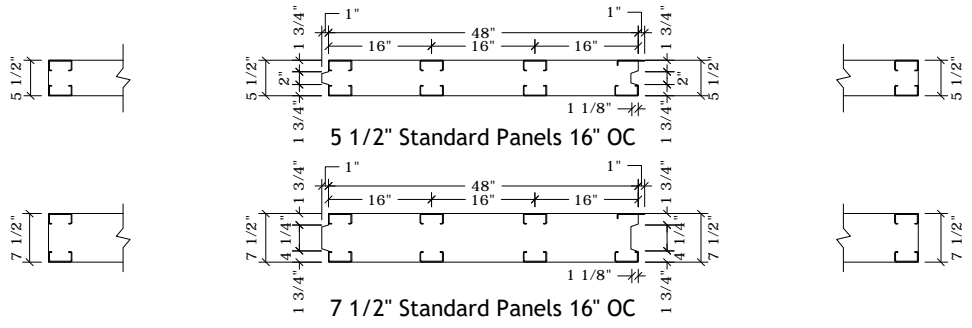
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Basic Panels</b>	
	Typical Wall Panel With Openings - Exploded View	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>BP-002</b>	

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ThermaSteel Wall Panels are installed with the "front of panel" facing the outside of the structure and the leading edge to the right.

**PANEL ELEVATION**



**NO LAP LEFT**

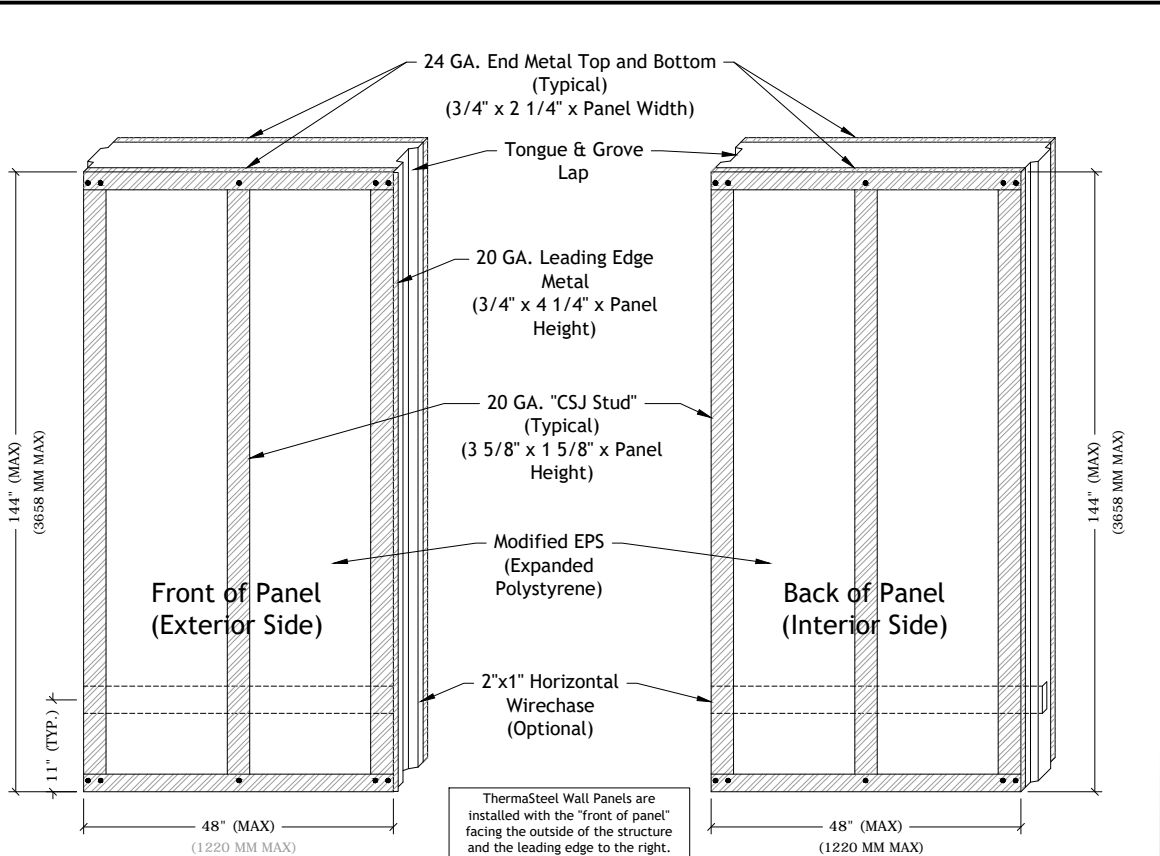
**BOTTOM VIEW**

**NO LAP RIGHT**

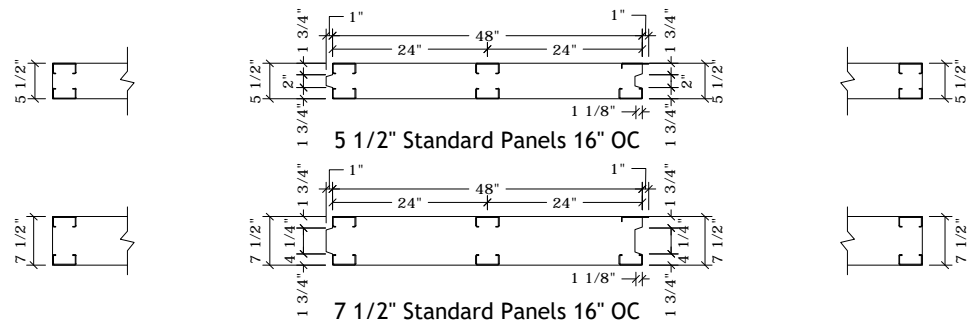
FOR ALL PANEL THICKNESSES  
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)



<b>Basic Panels</b>	
16" O.C. Wall Panel	
Not To Scale	
Rev: 11/30/2021	
Drawing Number	
<b>BP-003</b>	



**PANEL ELEVATION**



**NO LAP LEFT**

**BOTTOM VIEW**

**NO LAP RIGHT**

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

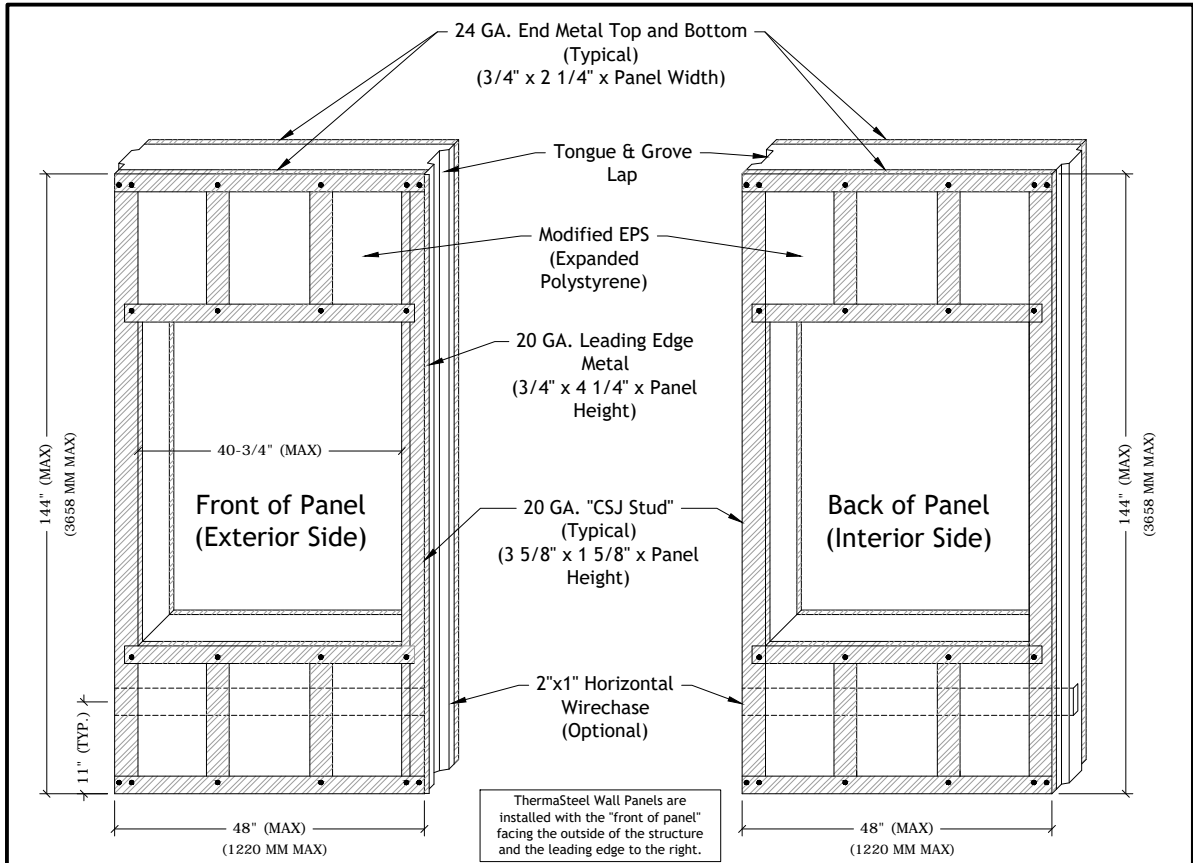


**THERMASTEEL**<sup>TM</sup>  
ADVANCED PANEL SYSTEMS

**Basic Panels**

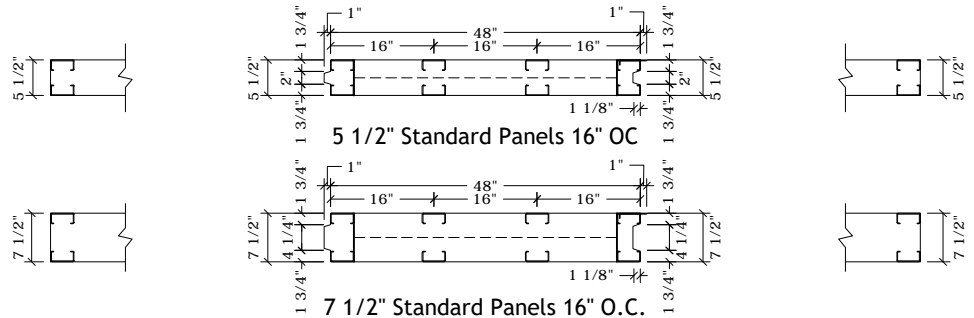
24" O.C. Wall Panel

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**BP-004**



ThermaSteel Wall Panels are installed with the "front of panel" facing the outside of the structure and the leading edge to the right.

**PANEL ELEVATION**




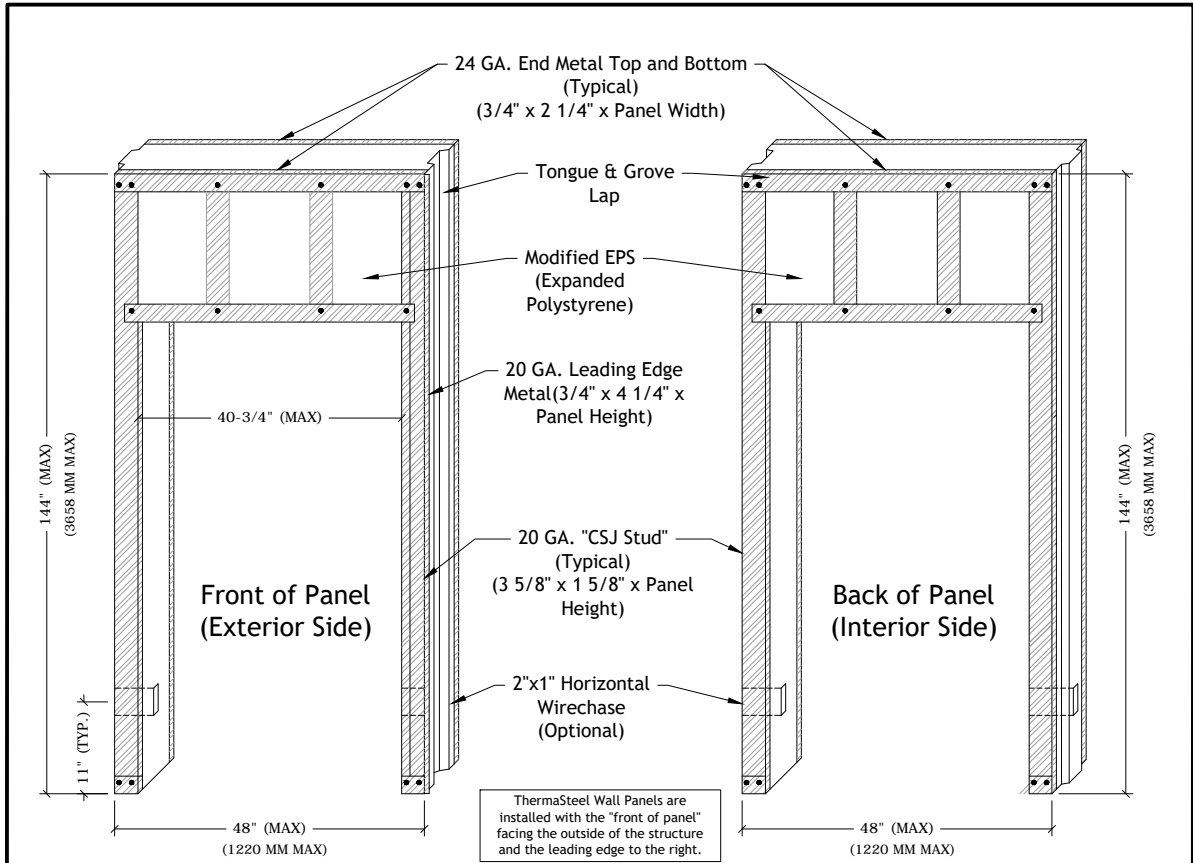
**NO LAP LEFT**

**BOTTOM VIEW**

**NO LAP RIGHT**

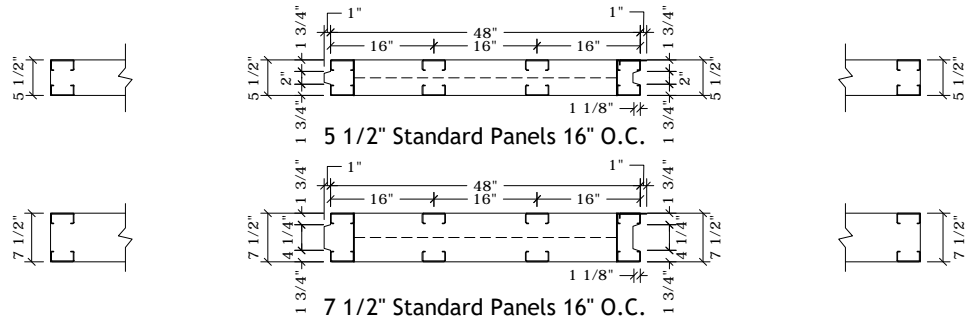
FOR ALL PANEL THICKNESSES  
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)

 <b>THERMASTEEL</b> <sup>™</sup> ADVANCED PANEL SYSTEMS	<b>Basic Panels</b>	
	<b>Window Opening Wall Panel</b>	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>BP-005</b>	



ThermaSteel Wall Panels are installed with the "front of panel" facing the outside of the structure and the leading edge to the right.

**PANEL ELEVATION**




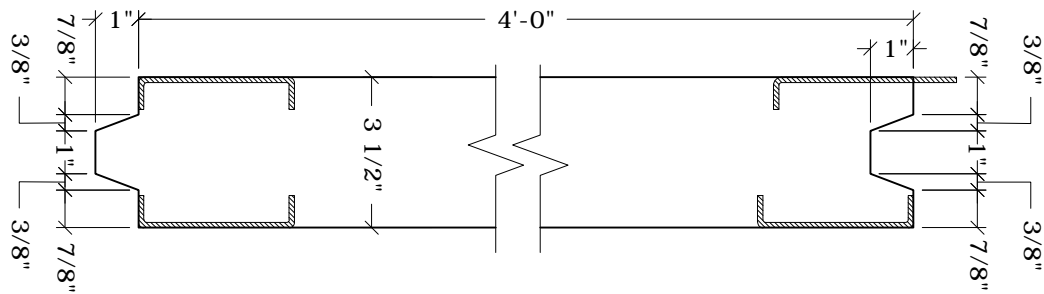
**NO LAP LEFT**

**BOTTOM VIEW**

**NO LAP RIGHT**

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

 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Basic Panels</b>		Not To Scale
	Door Opening Wall Panel		Rev: 11/30/2021
			Drawing Number
			<b>BP-006</b>



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



**Basic Panels**

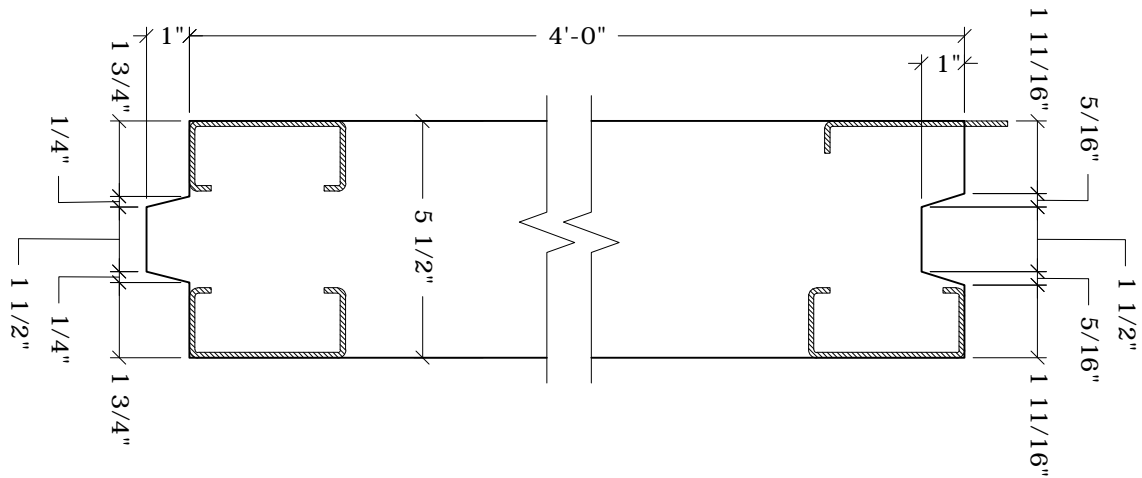
**Standard 3 1/2" Panel Dimensions**

Not To Scale

Rev: 11/30/2021

Drawing Number

**BP-007**



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



**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

**Basic Panels**

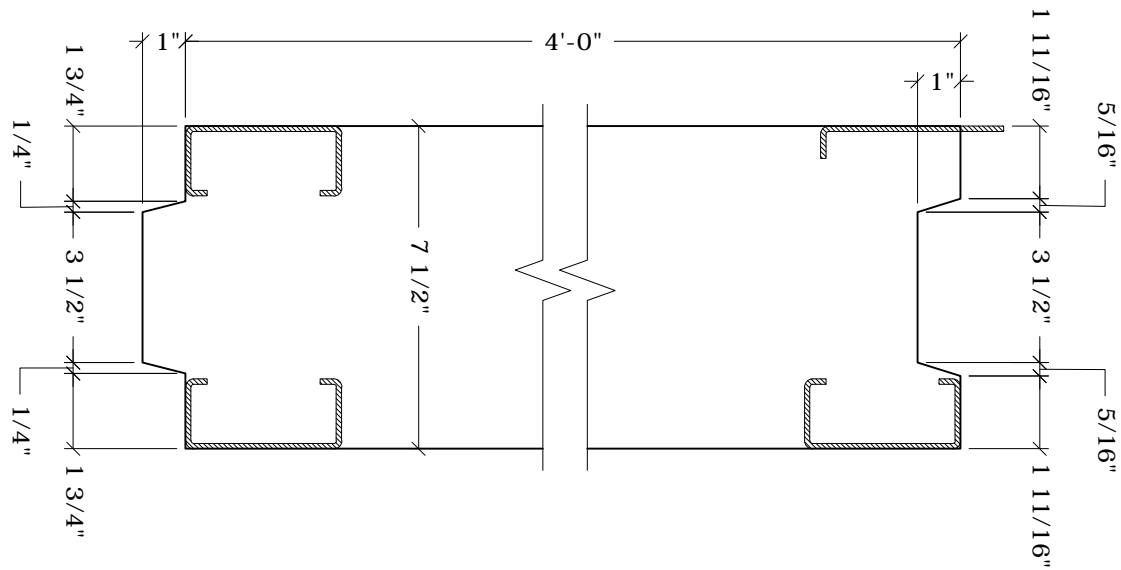
**Standard 5 1/2" Panel Dimensions**

Not To Scale

Rev: 11/30/2021

Drawing Number

**BP-008**



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

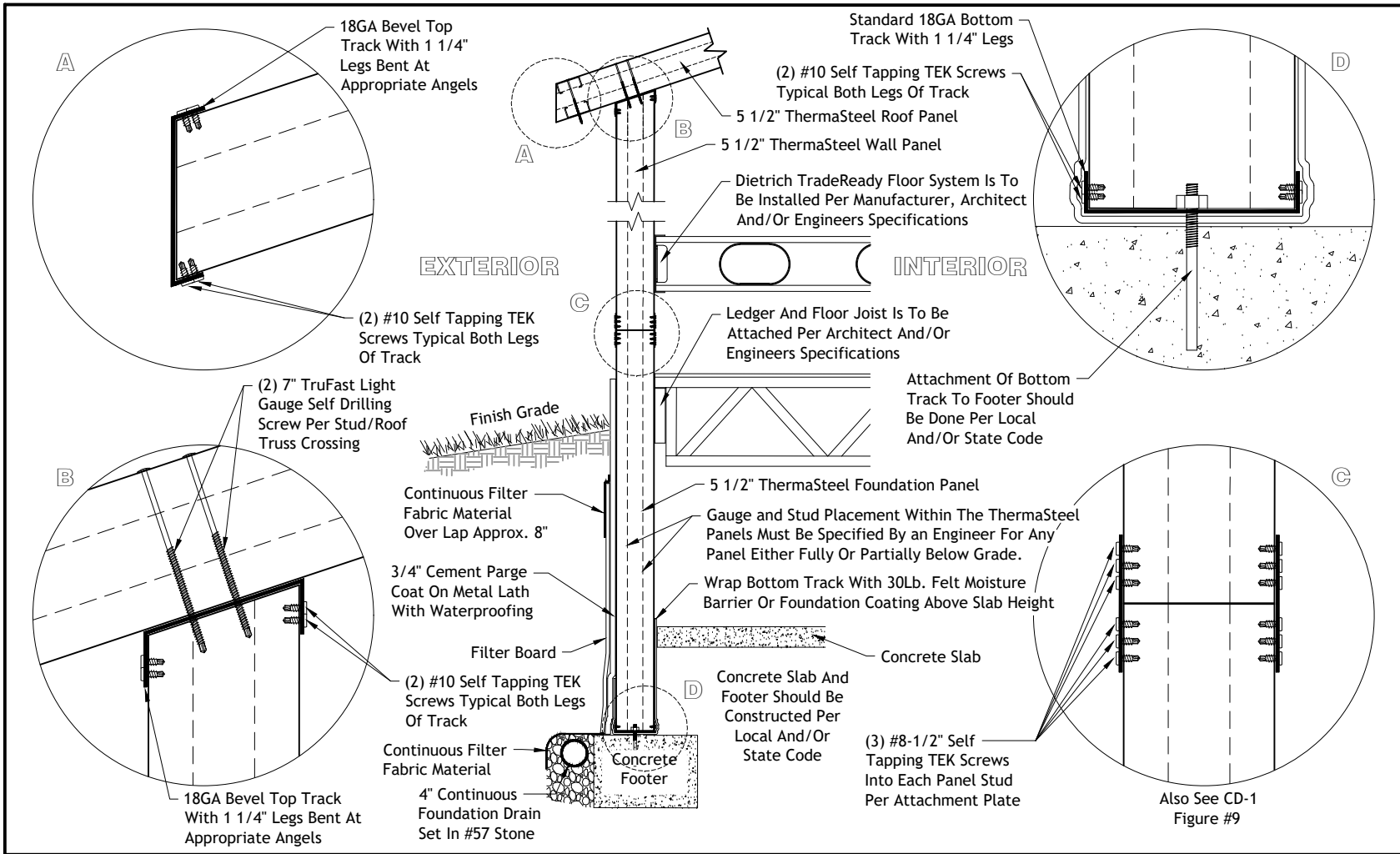


**Basic Panels**

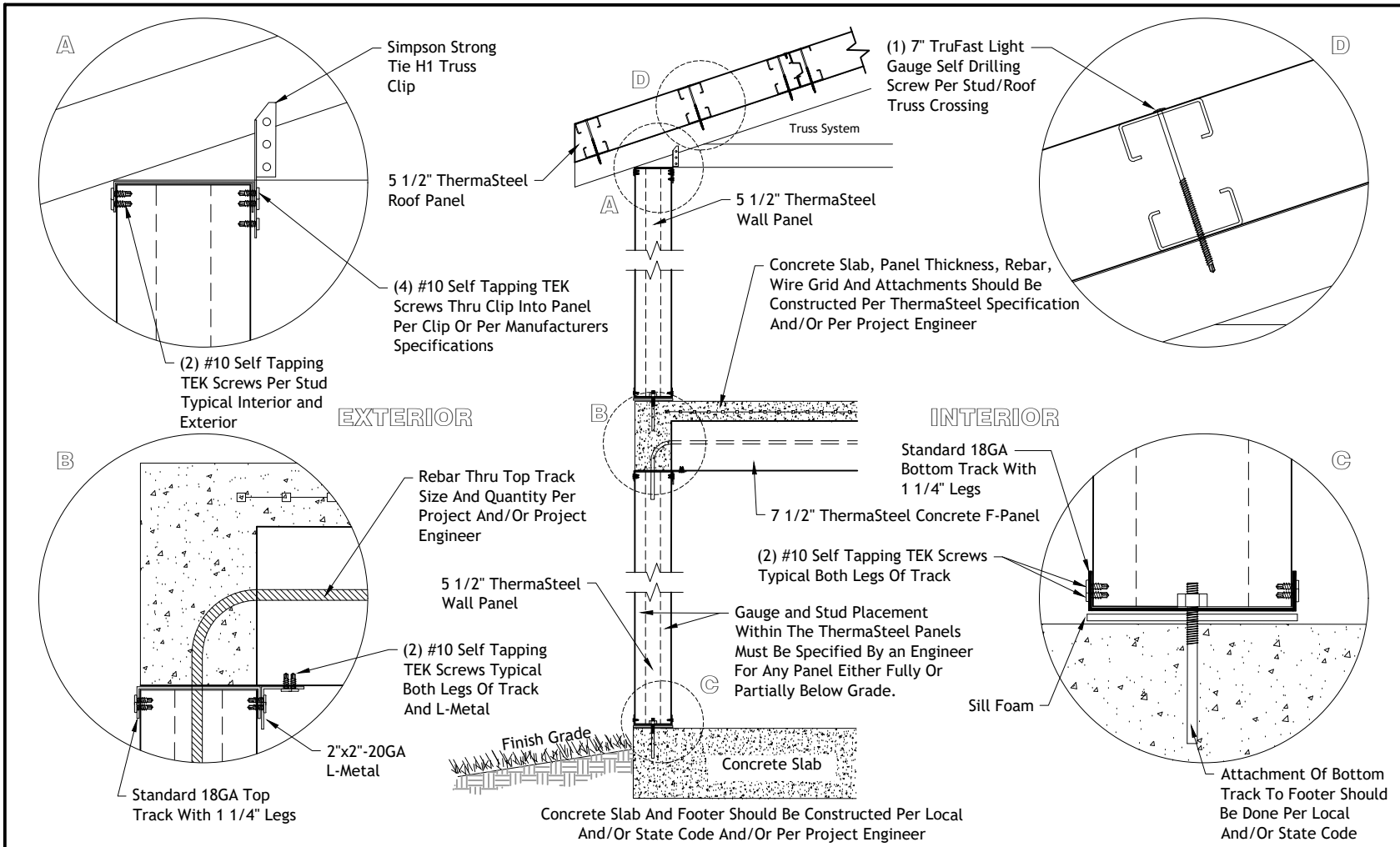
**Standard 7 1/2" Panel Dimensions**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>BP-009</b>





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



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

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## Below Grade

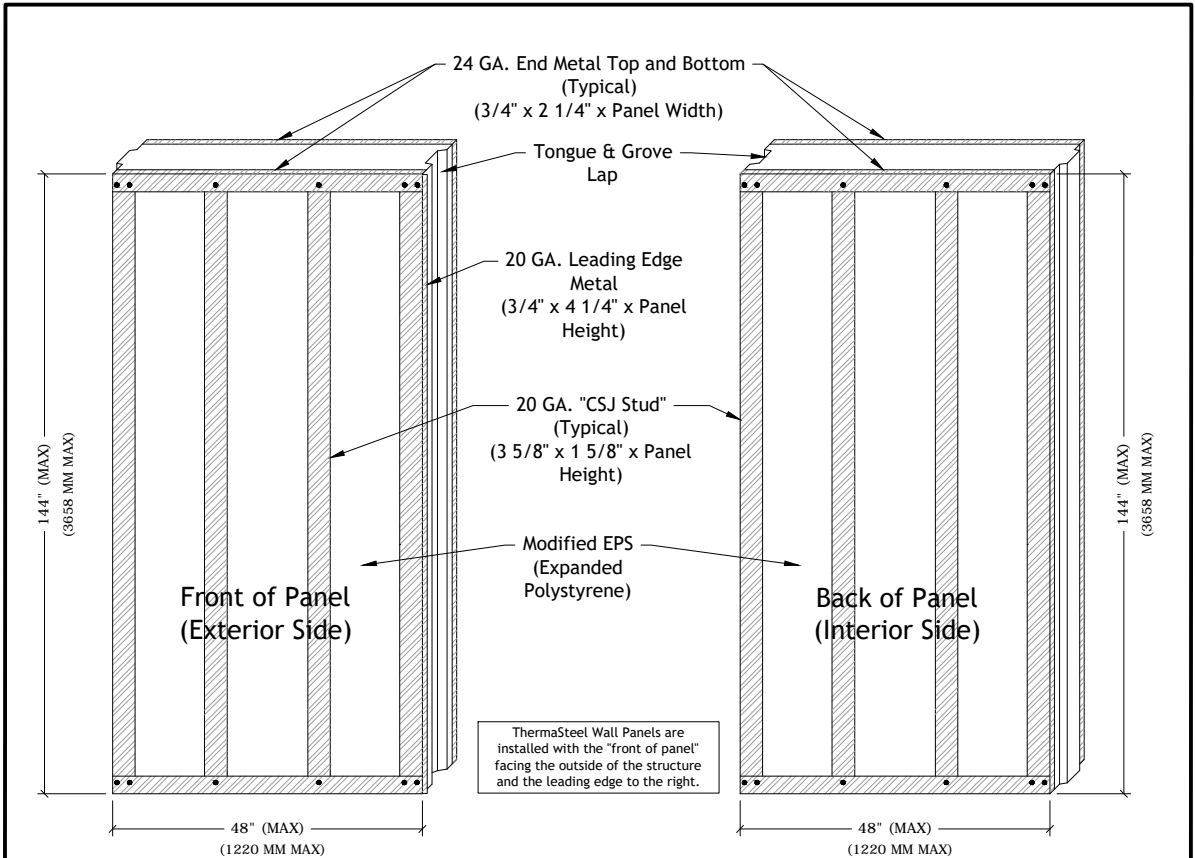
BG-001 C600 Panel Detail

BG-002 Schematic Calculation Model

BG-003 Foundation Wall With 1st Floor Joist Connection

BG-004 Foundation Wall With Hydraulic Insulation

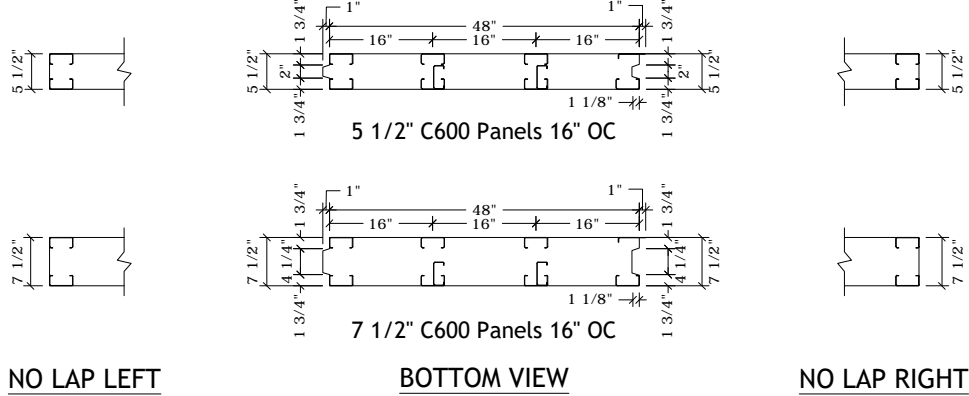
BG-005 Typical Below Grade Wall Section



ThermaSteel Wall Panels are installed with the "front of panel" facing the outside of the structure and the leading edge to the right.

**PANEL ELEVATION**

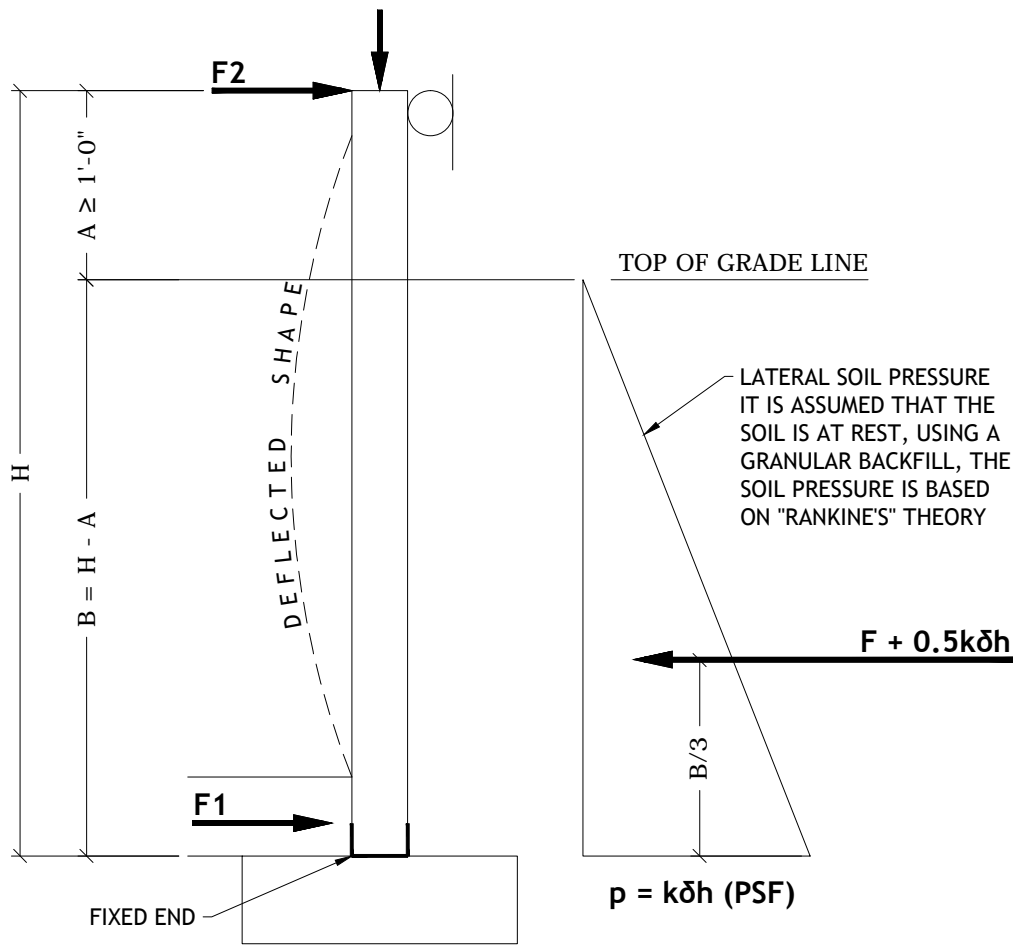
All Rotated Studs Are To Be The Same Gauge As Specified For The Panel Construction Material Unless Otherwise Noted



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



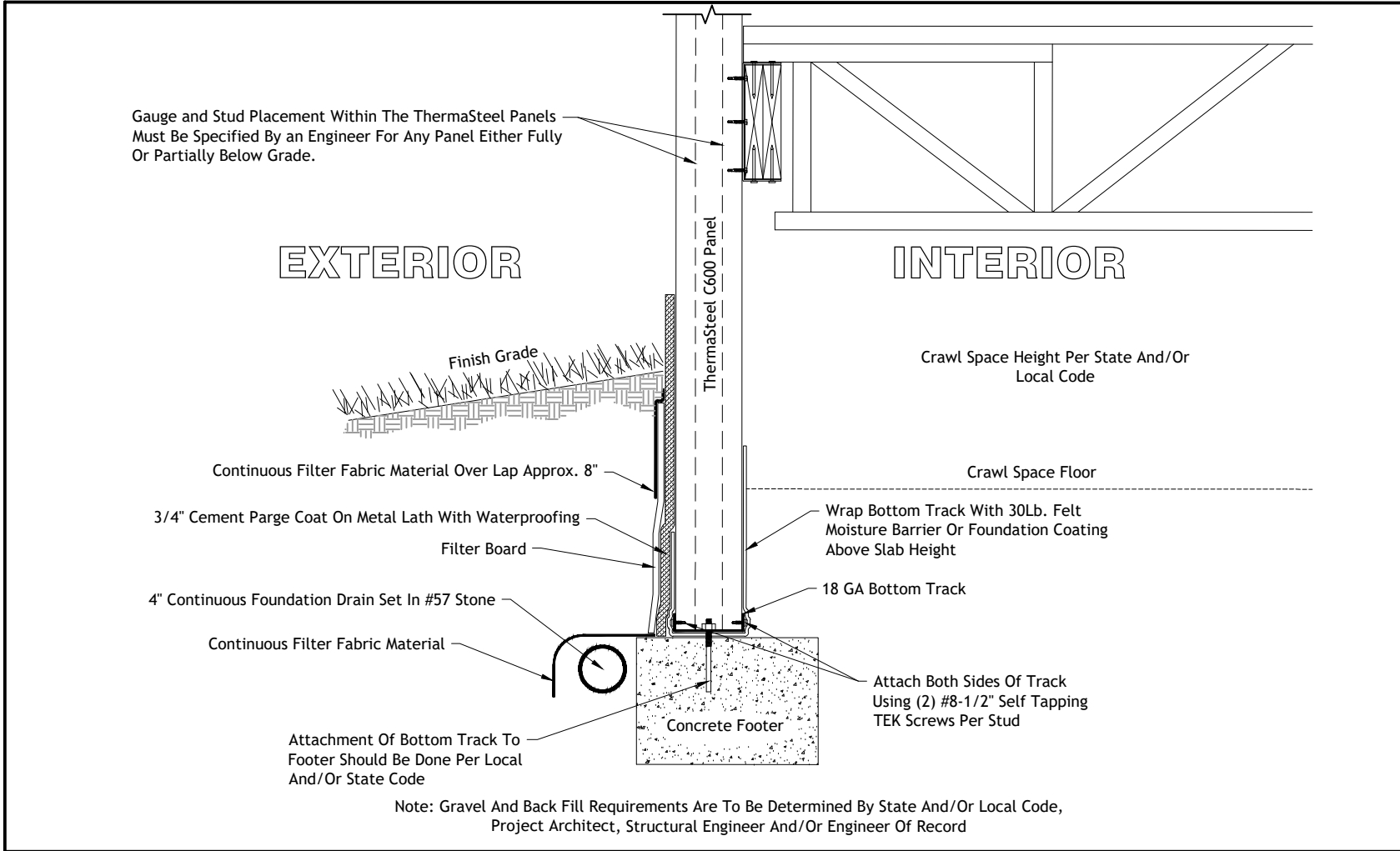
<b>Below Grade</b>	
<b>C600 Panel Detail</b>	Not To Scale
	Rev: 11/30/2021
	Drawing Number
	BG-001



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



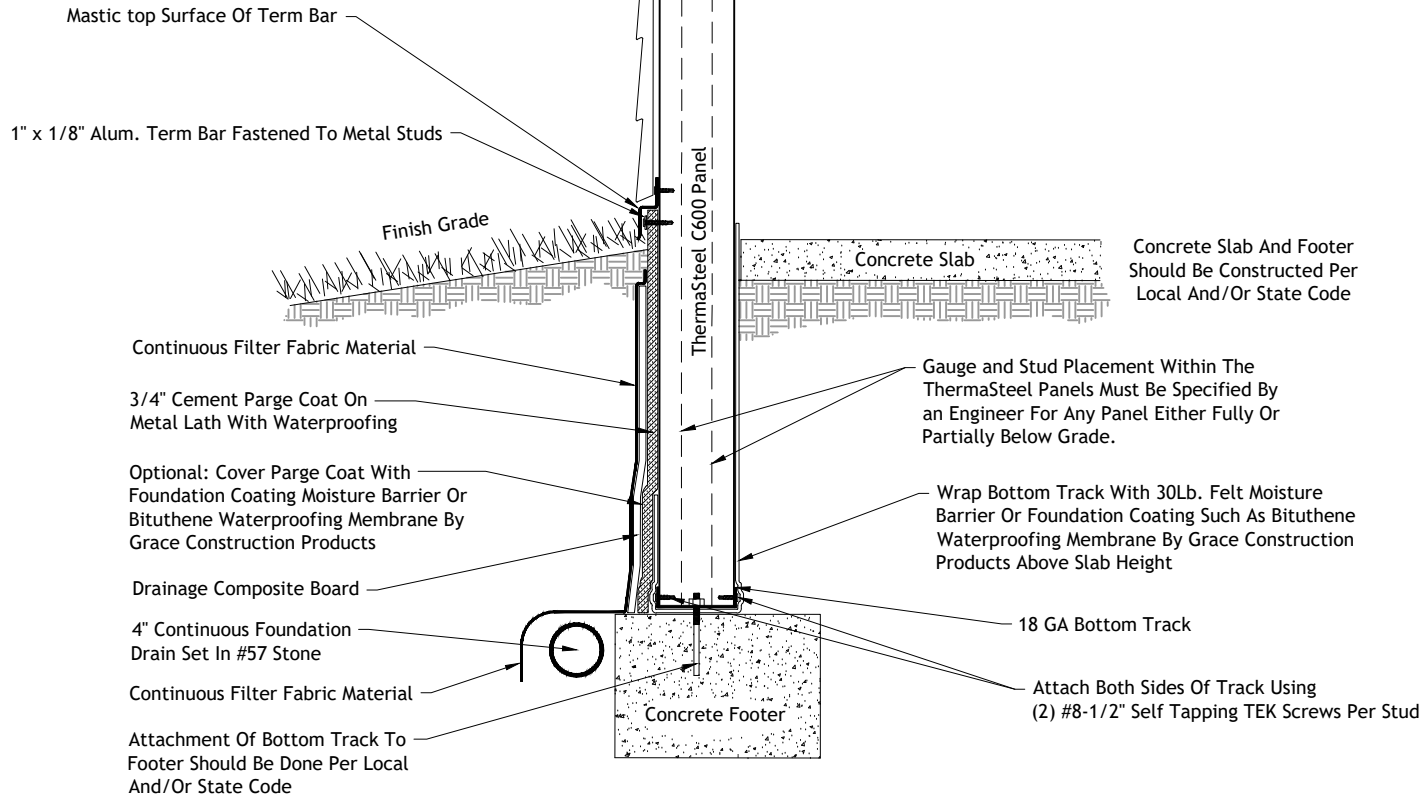
<b>Below Grade</b>	
Schematic Calculation Model	Not To Scale Rev: 11/30/2021 Drawing Number <b>BG-002</b>



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Below Grade</b>	Not To Scale
	Foundation Wall With 1st Floor Joist Connection	Rev: 11/30/2021
		Drawing Number <b>BG-003</b>

EXTERIOR

INTERIOR



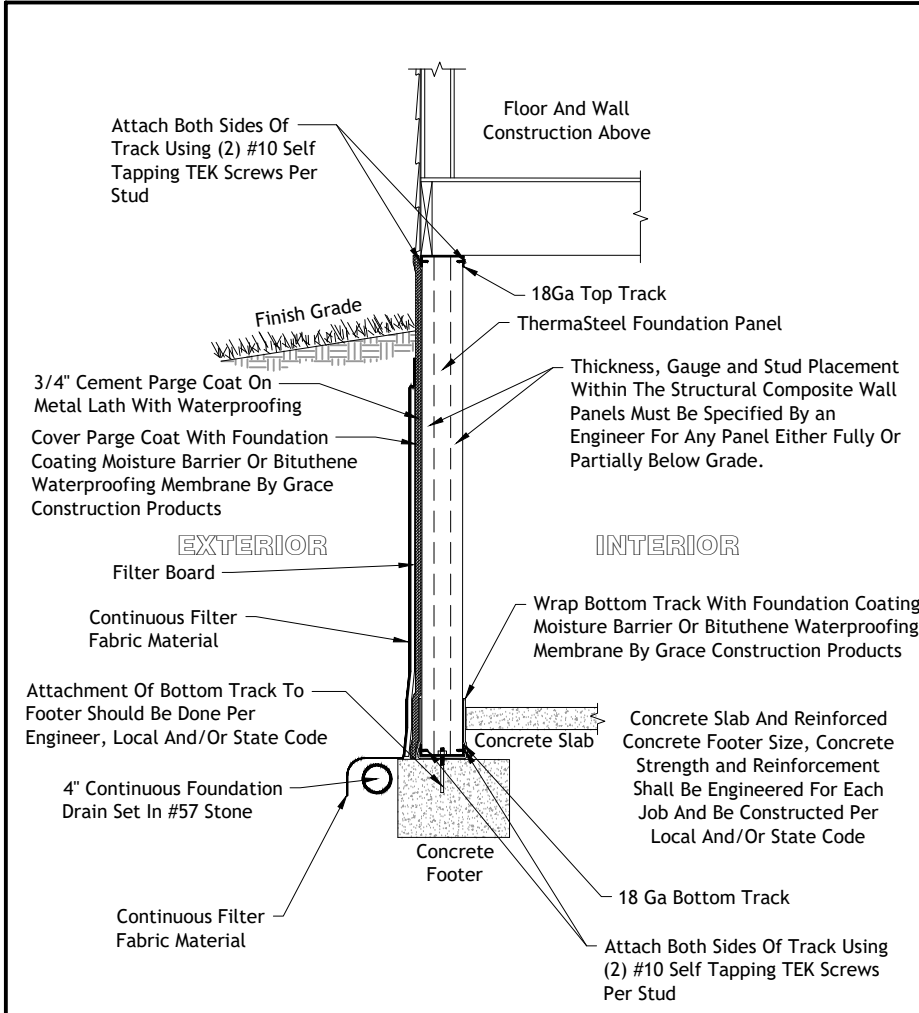
Note: Gravel And Back Fill Requirements Are To Be Determined By State And/Or Local Code, Project Architect, Structural Engineer And/Or Engineer Of Record



Below Grade

Foundation Wall With Hydraulic Insulation

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>BG-004</b>

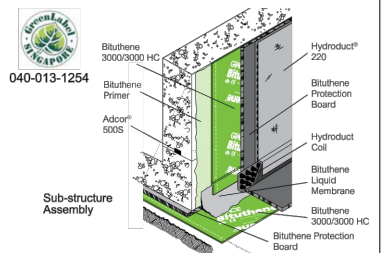


**Grace Waterproofing Systems**

**Bituthene® 3000/3000 HC**  
High performance waterproofing membrane for sub-structures and flat deck applications

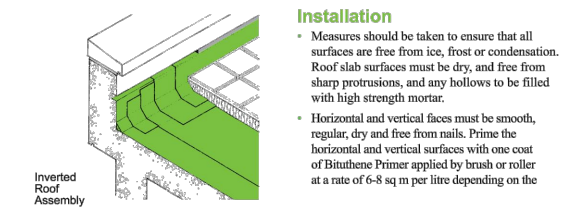
**Description**  
Bituthene® 3000/3000 HC is a high performance, cold applied, flexible, preformed waterproof membrane combining a special high performance cross-laminated, HDPE carrier film with a unique self-adhesive rubber bitumen compound.

- 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 • Provides puncture resistance
Single layer	• Simple, reliable, low labour cost with the benefit of site programmed installation
Gas Resistant	• 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)
Cold applied	• No flame hazard • No heating required
Self-adhesive rubberised asphalt	• Continuity ensured at overlaps • Unique rubber/bitumen formulation allows healing of small punctures
Factory controlled thickness	• No variation by site practices
Chemically resistant	• Provides effective external protection against aggressive environments and ozone attack
Flexible	• Accommodates minor settlement and shrinkage movement
Tanking security	• Combined flexible membrane and waterstop system for security



- 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**

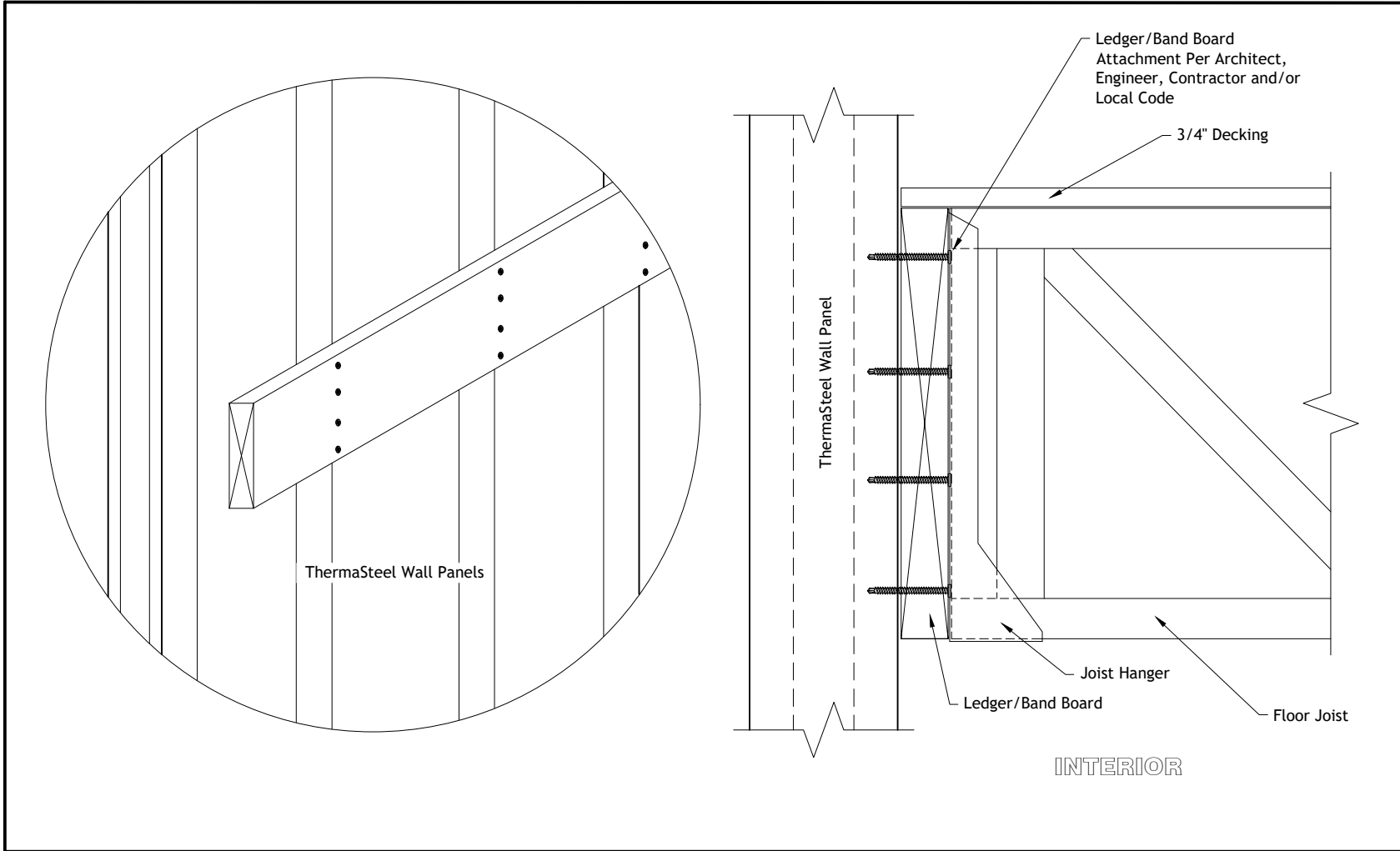
**Typical Below Grade Wall Section**

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**BG-005**



## 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

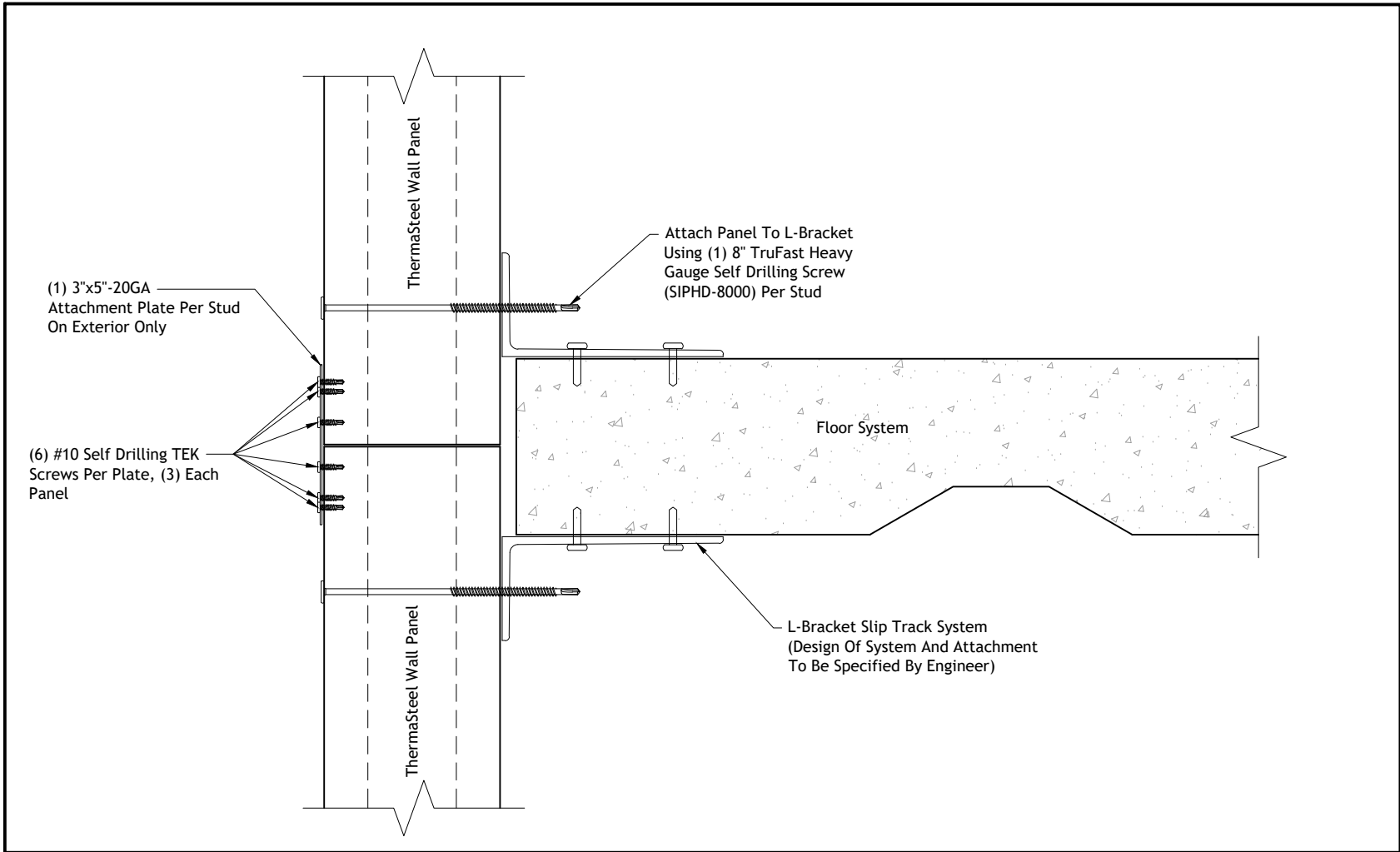



**Floor Connections**  
**Typical Balloon Framing Wood Truss**  
**Connection To A Panel**  
**Section View**

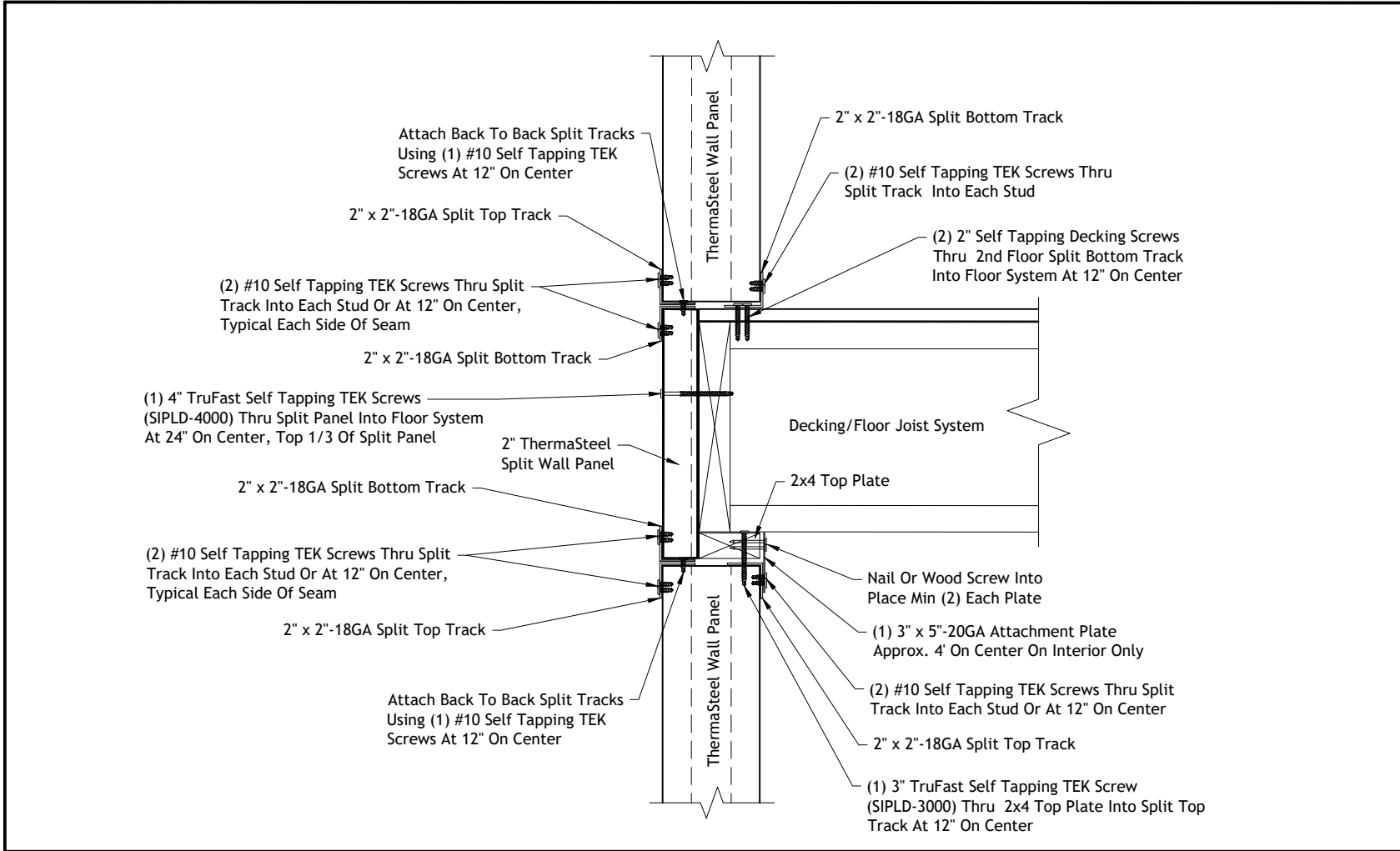
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-001</b>

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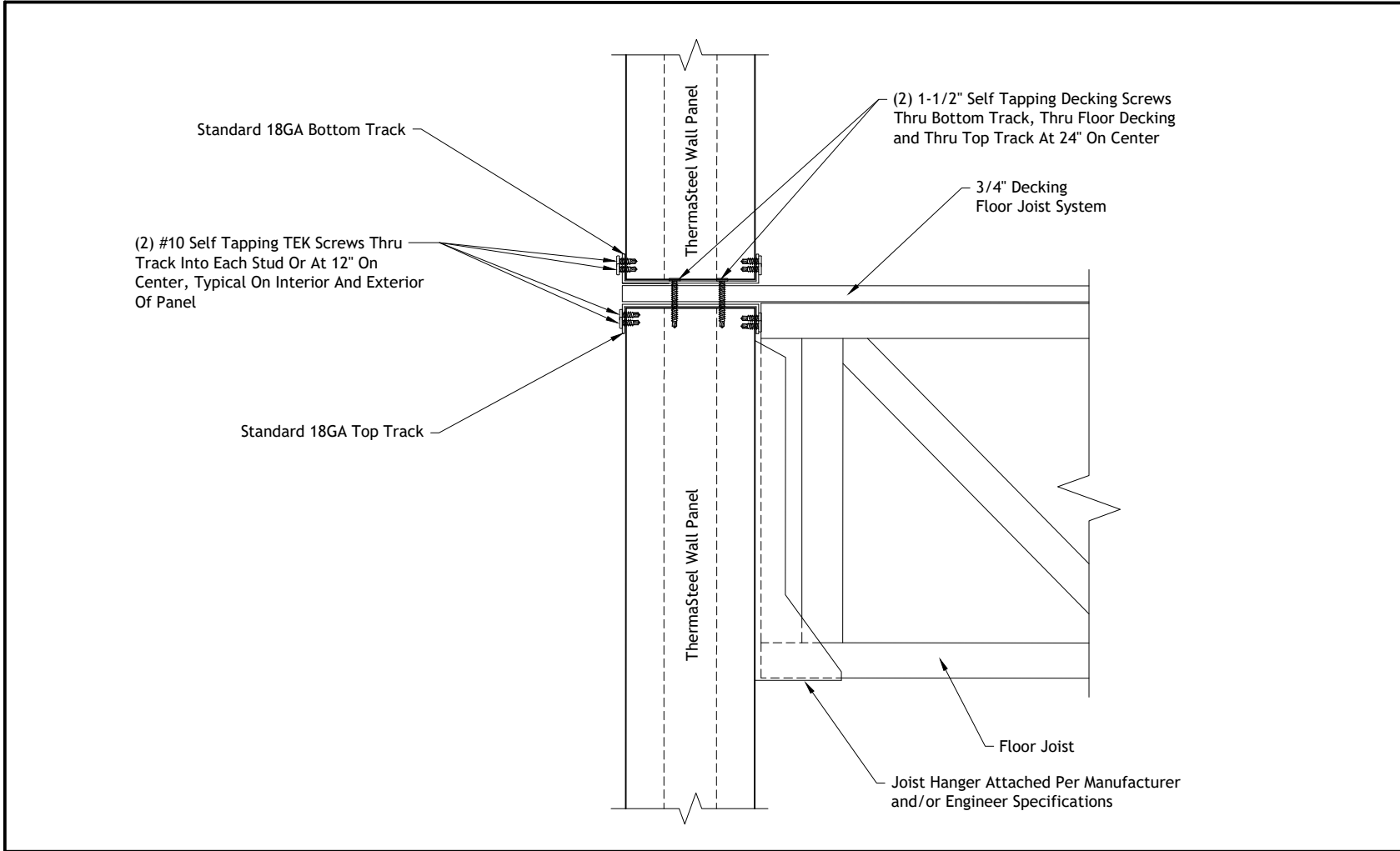


 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>	
	Typical Multi-Level Panel To Concrete Floor Connection - Section View	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>FC-003</b>



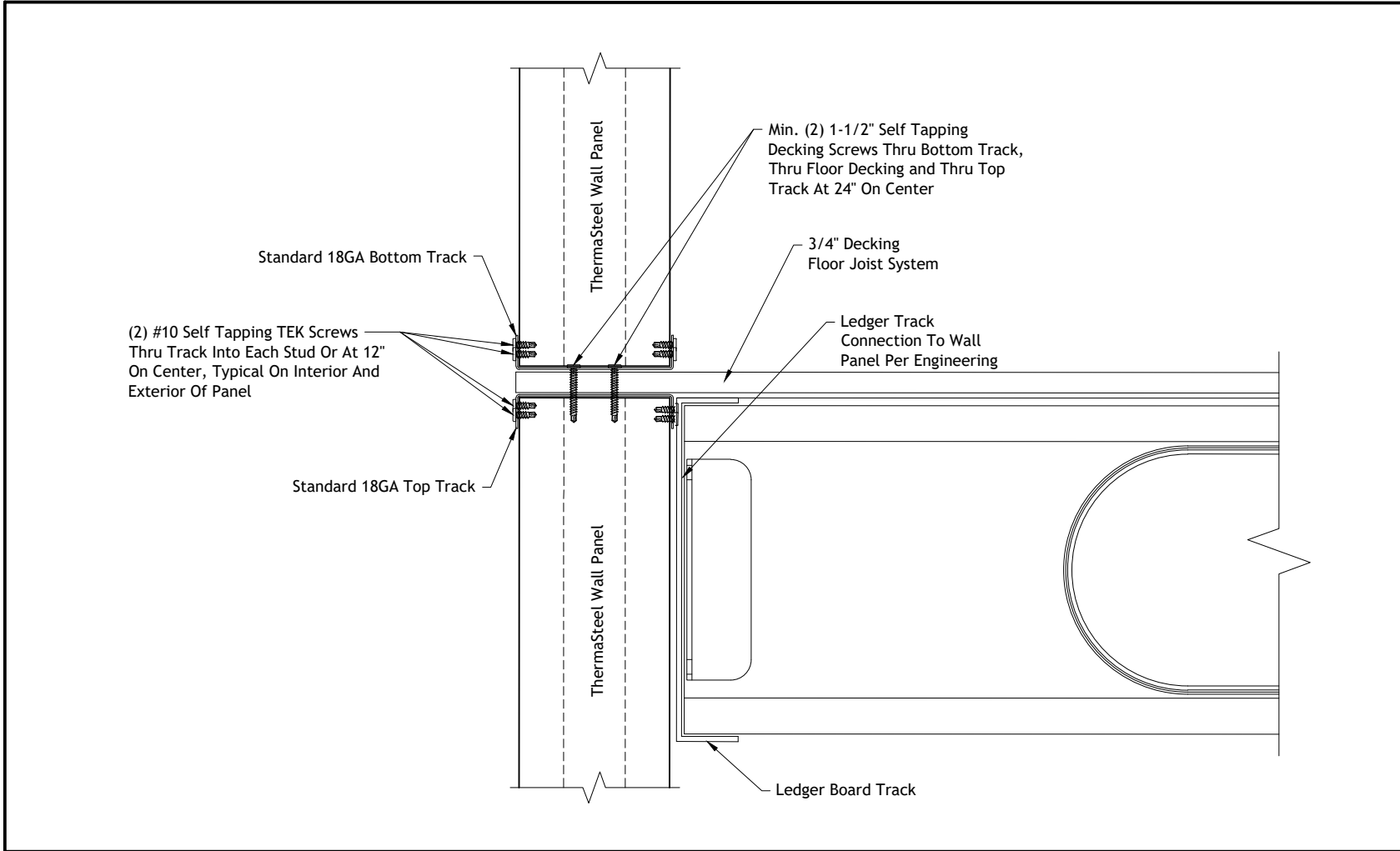
**Floor Connection**  
 Typical Platform Framing Floor Joist With Insulated Band And Split Track Connection  
 Section View

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-004</b>



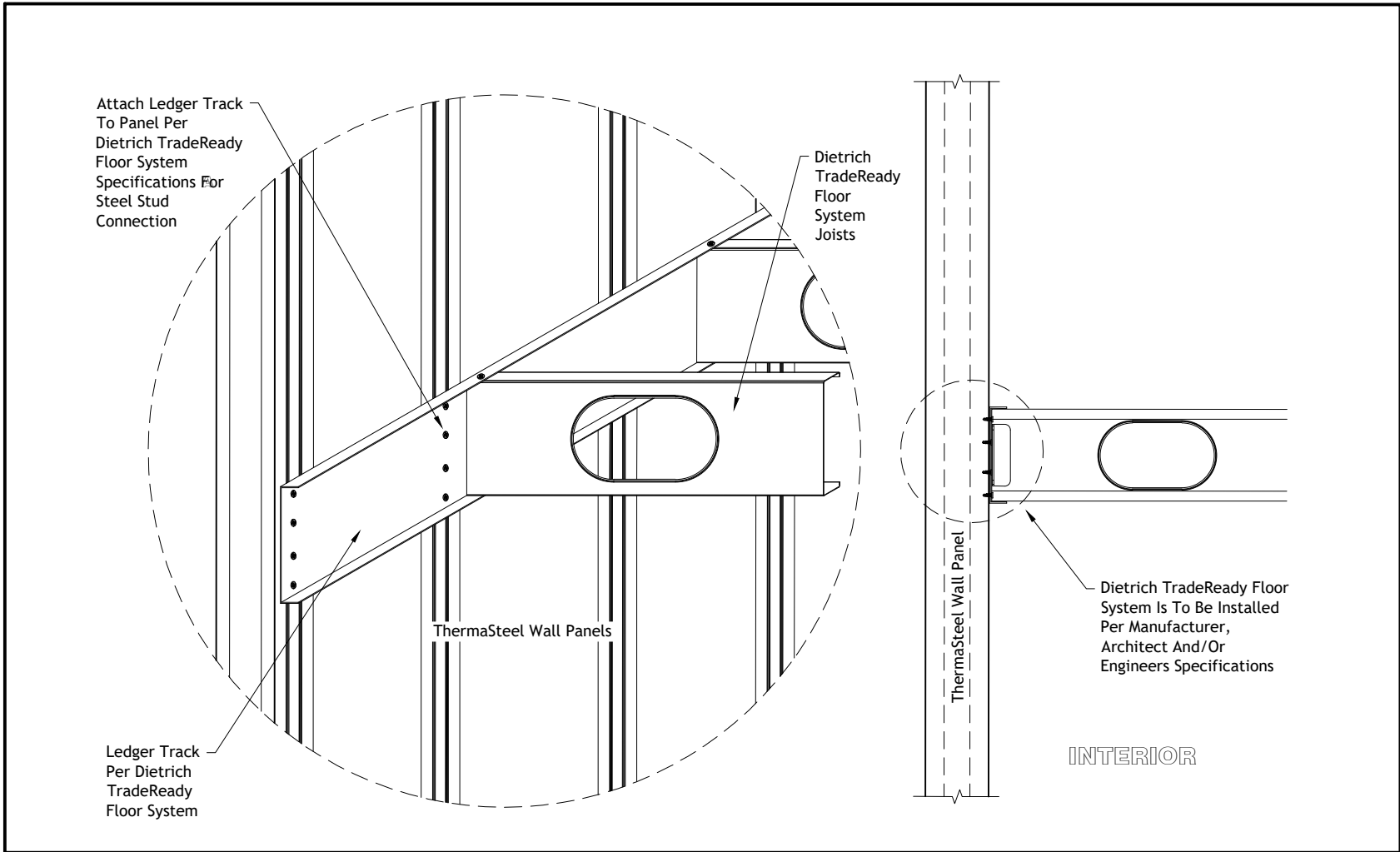
**Floor Connection**  
 Typical Platform Framing Wood Floor Truss  
 With Decking Over Wall Panel  
 Section View

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-005</b>



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

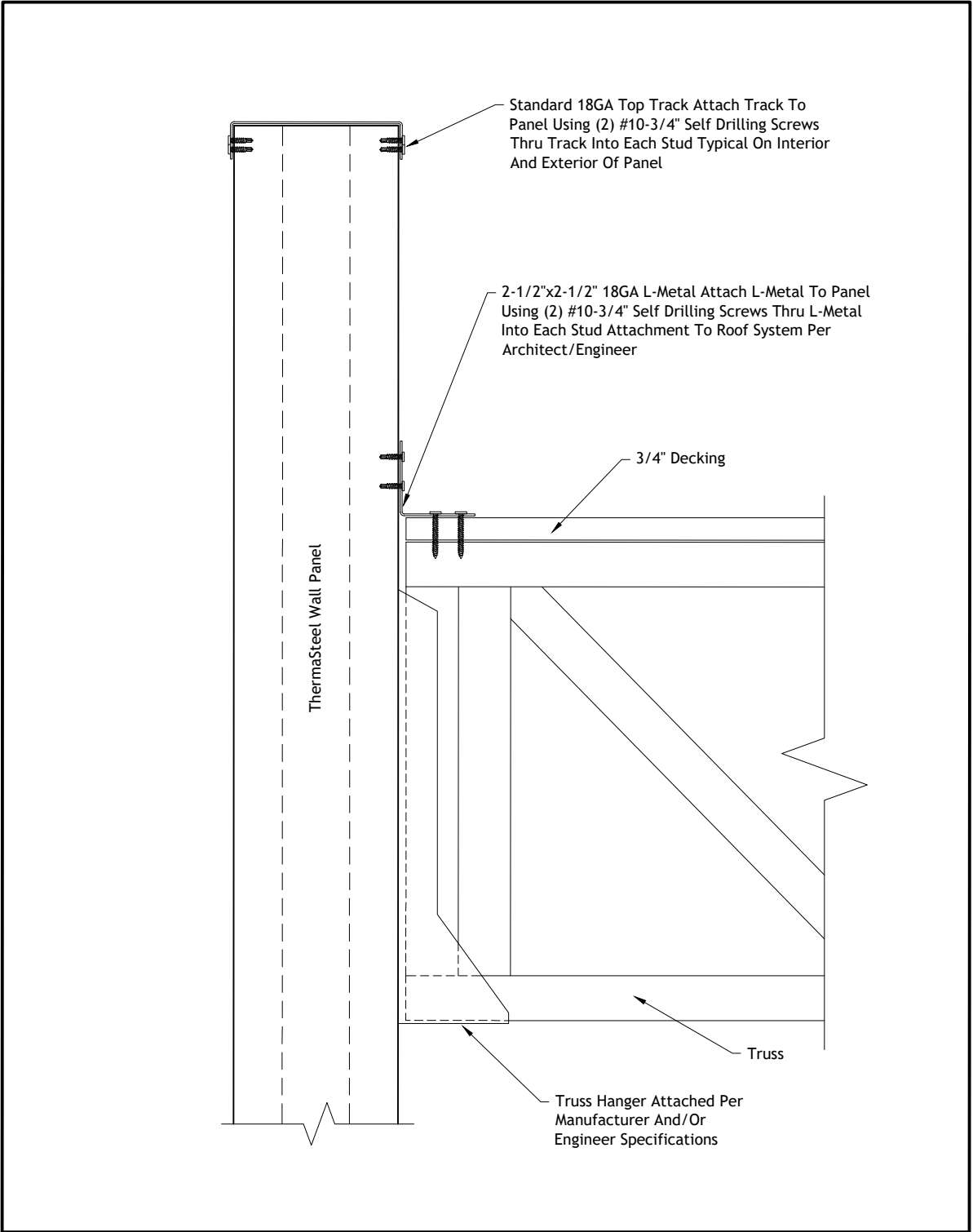
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Rev: 11/30/2021
Drawing Number
<b>FC-006</b>




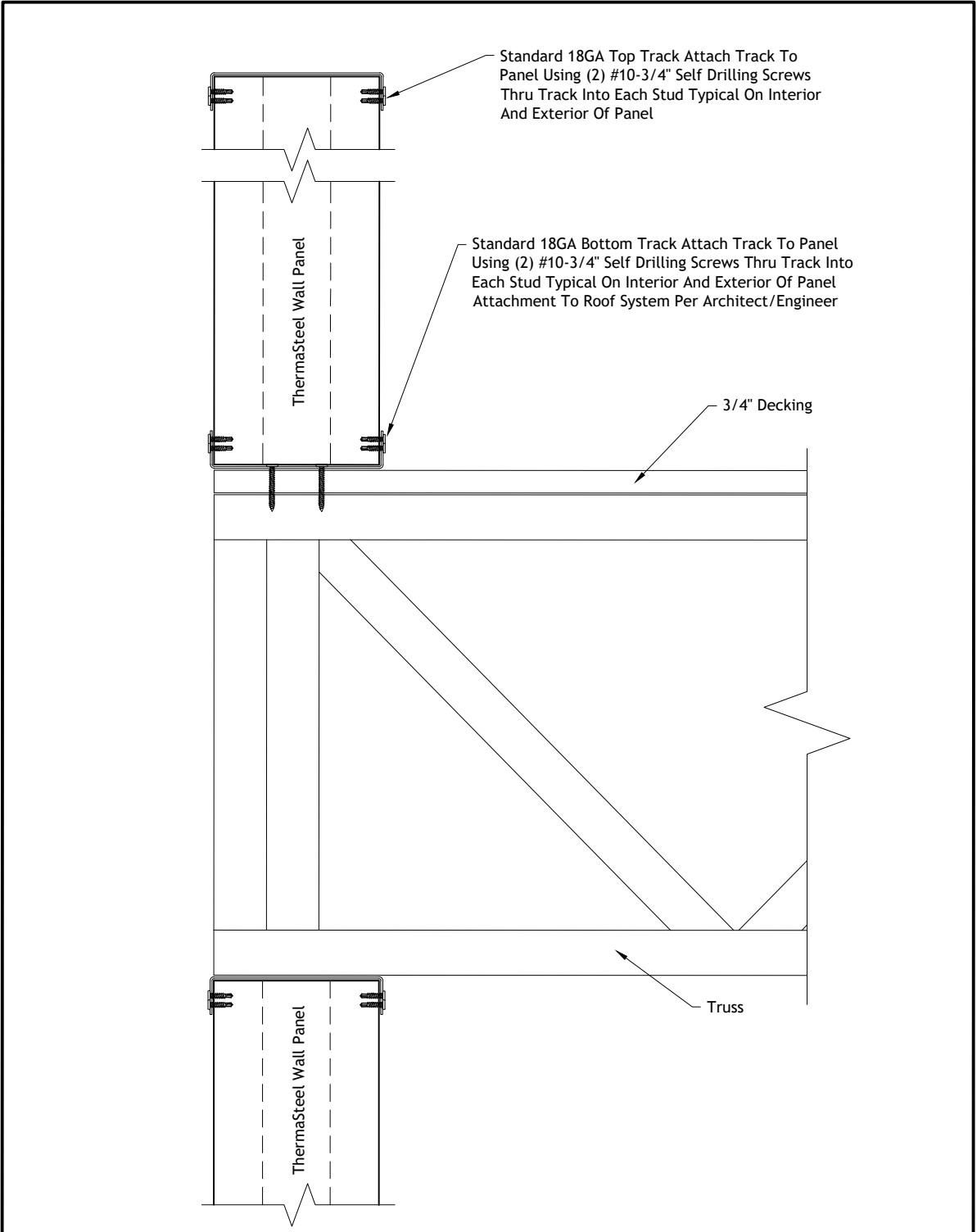
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b> Typical Balloon Framing Of Dietrich TradeReady Floor System Connection Section View		Not To Scale
			Rev: 11/30/2021
			Drawing Number <b>FC-007</b>

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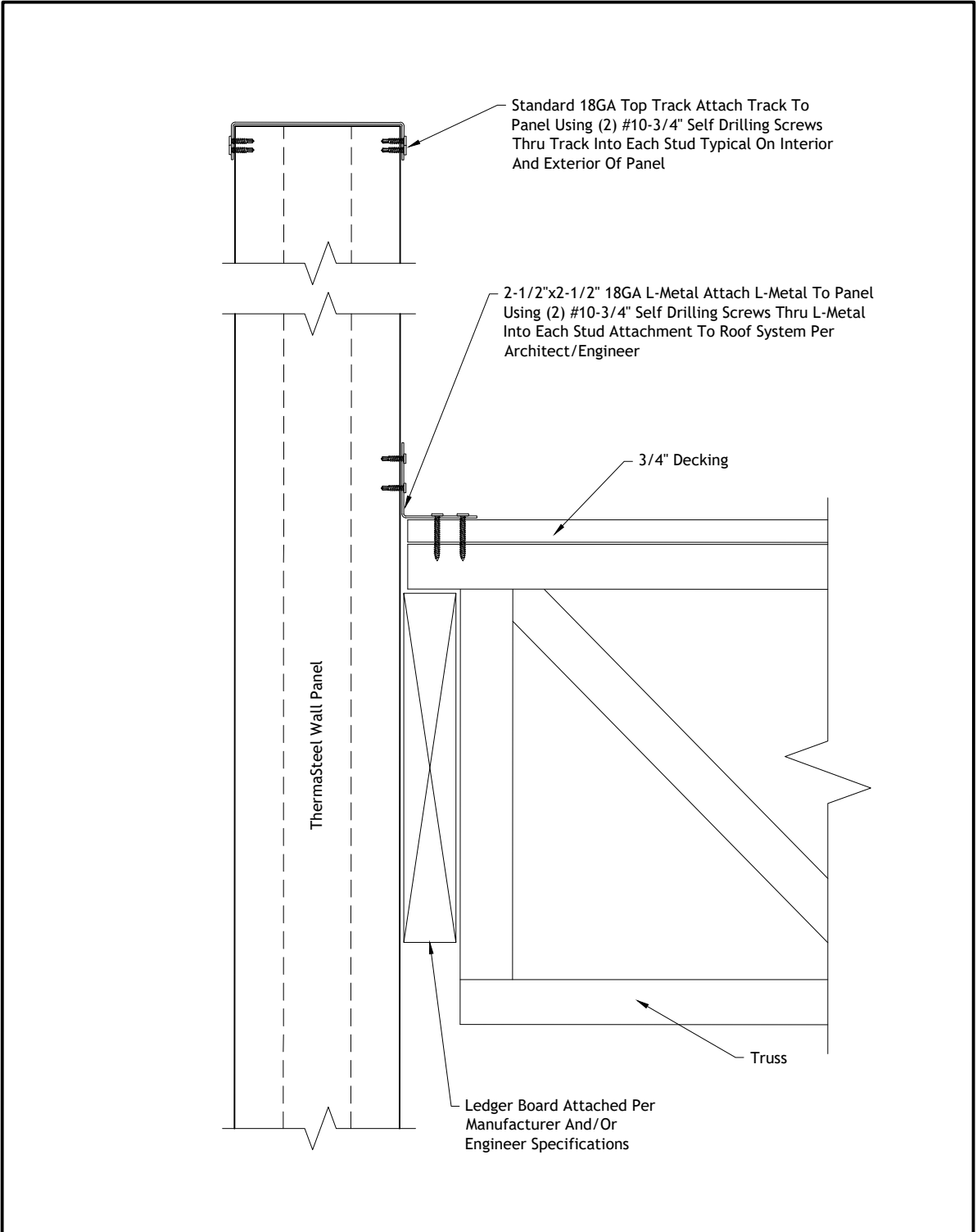
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>	
	Typical Wood Truss To Wall Panel Connection With Hanger	
	Not To Scale	Rev: 11/30/2021
	Drawing Number	<b>FC-008</b>



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**Floor Connection**  
 Typical Wood Truss To Wall  
 Panel Connection Without  
 Hanger

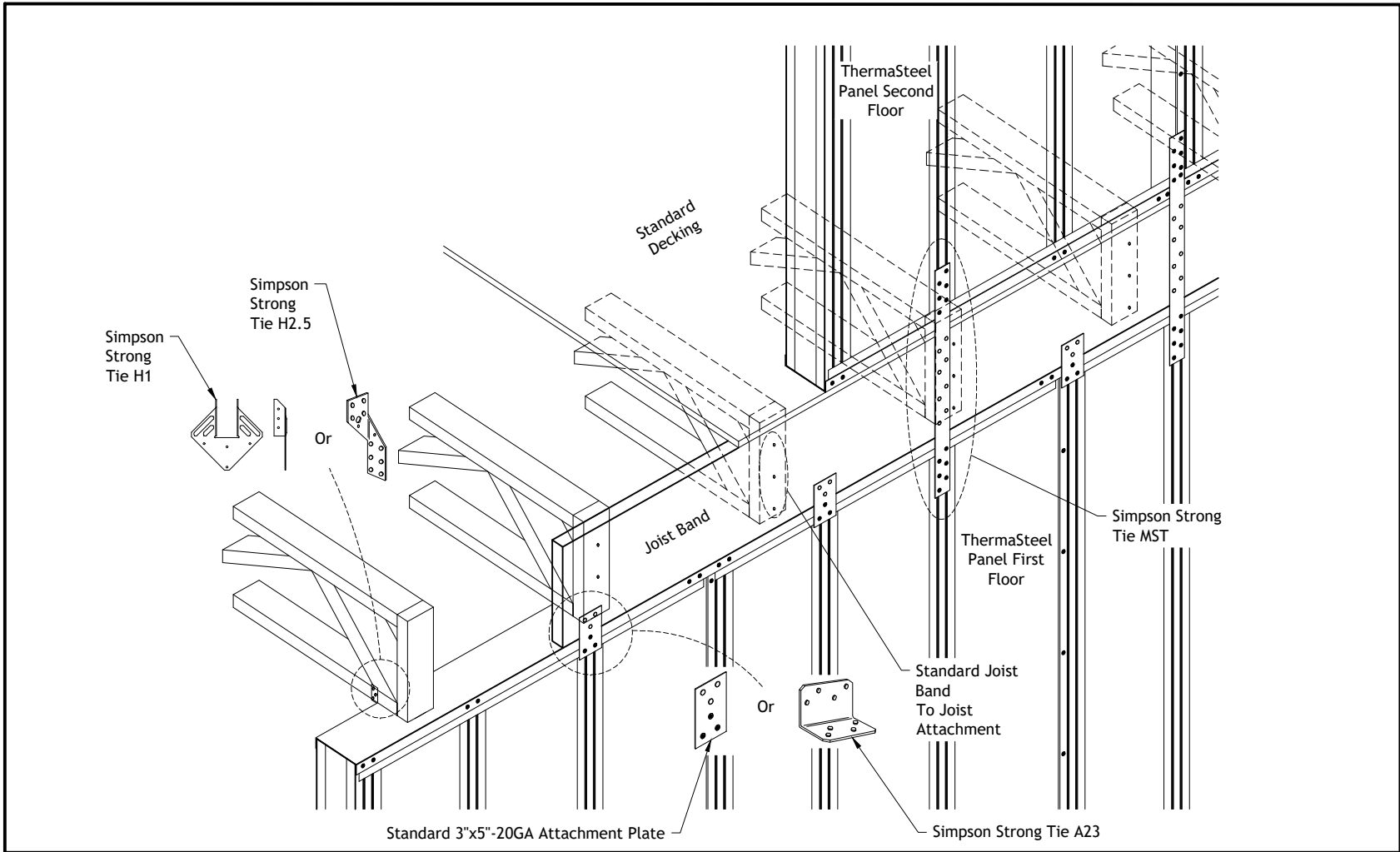
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-009</b>



**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

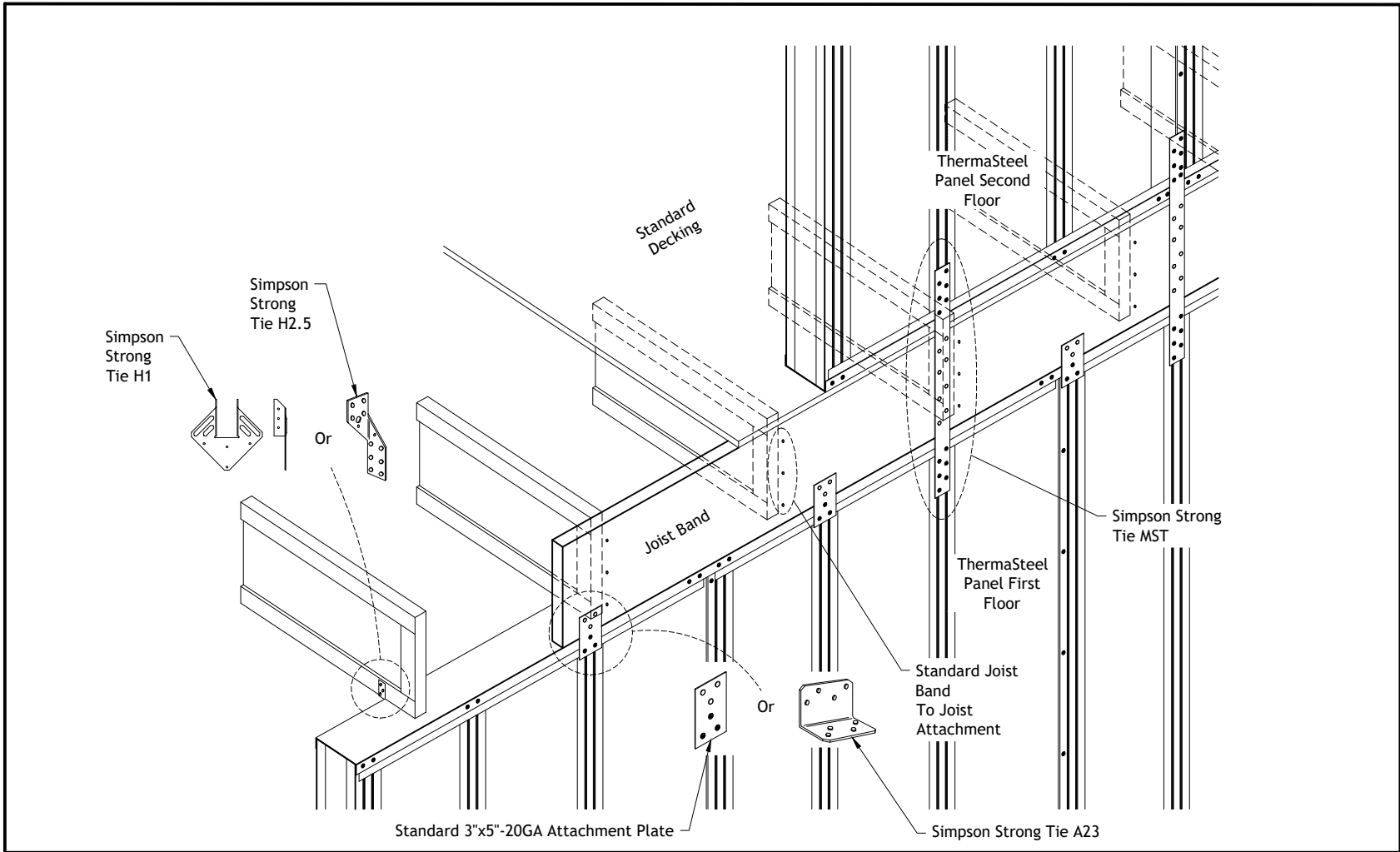
**Floor Connection**  
 Typical Wood Truss To Wall  
 Panel Connection With  
 Ledger


Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-010</b>



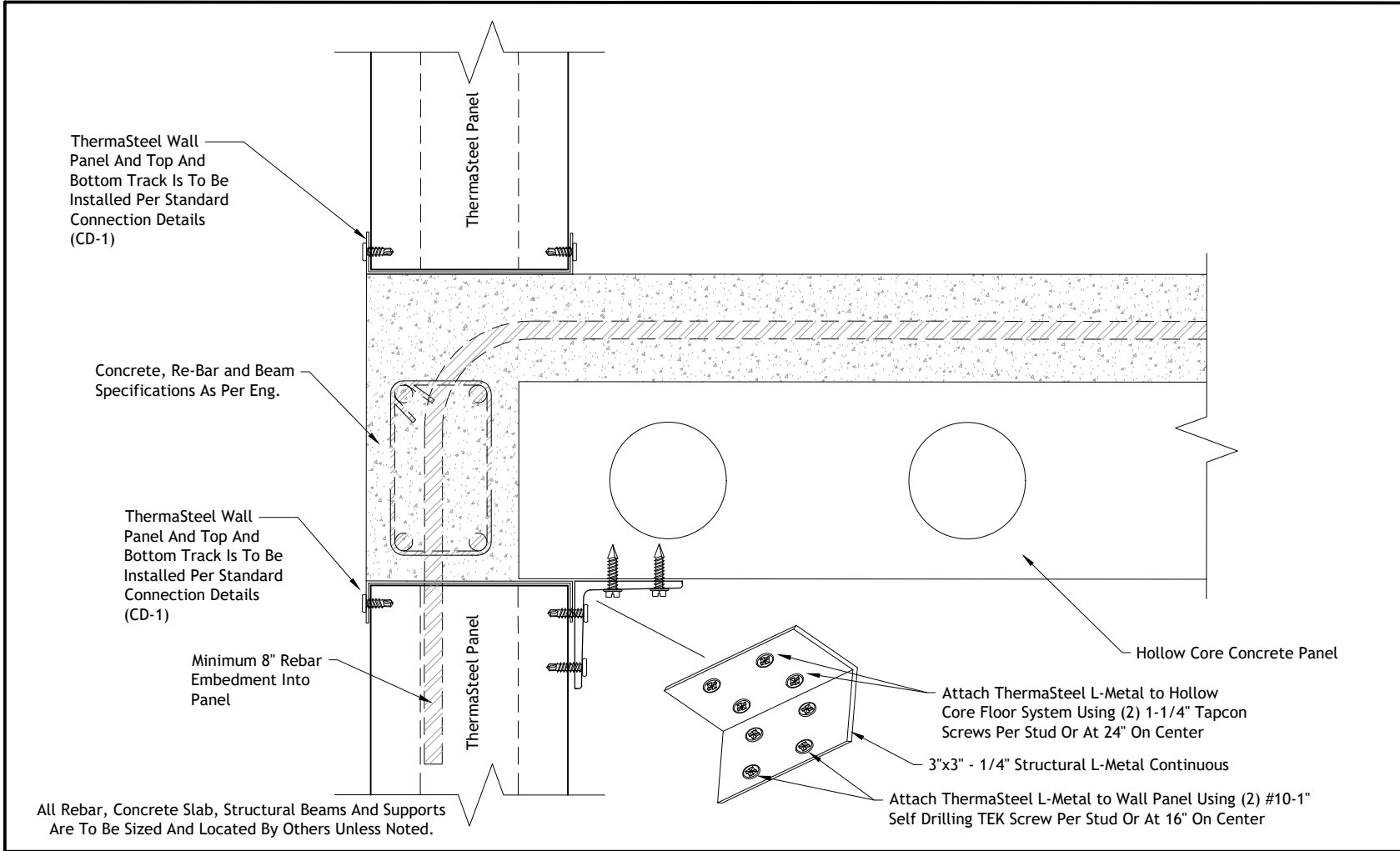
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>	
	Typical Attachment Of Panels To Wood Trusses - Platform Floor System	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>FC-011</b>	


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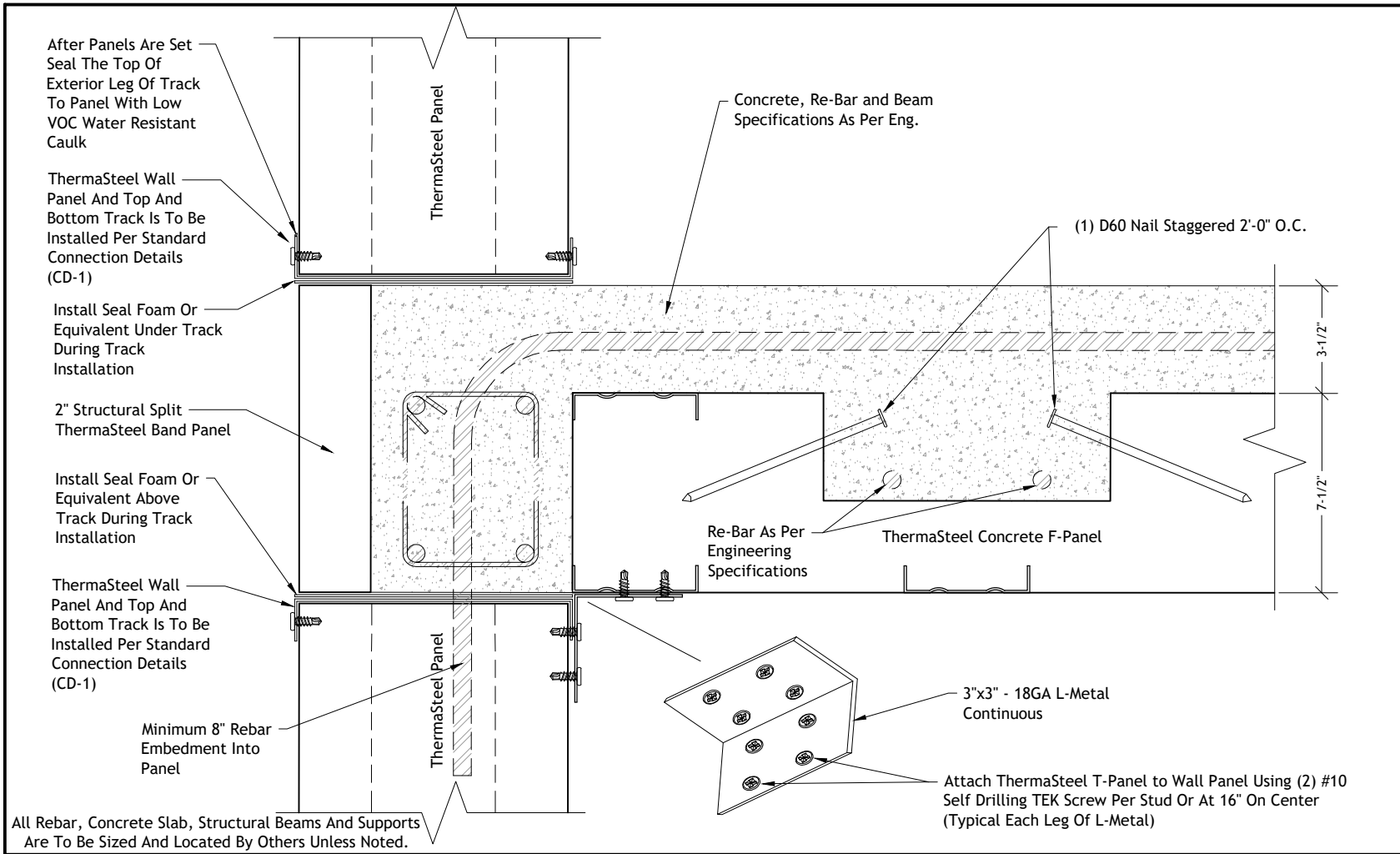



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>	
	Typical Attachment Of Panels To Wood I-Beams - Platform Floor System	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>FC-012</b>	

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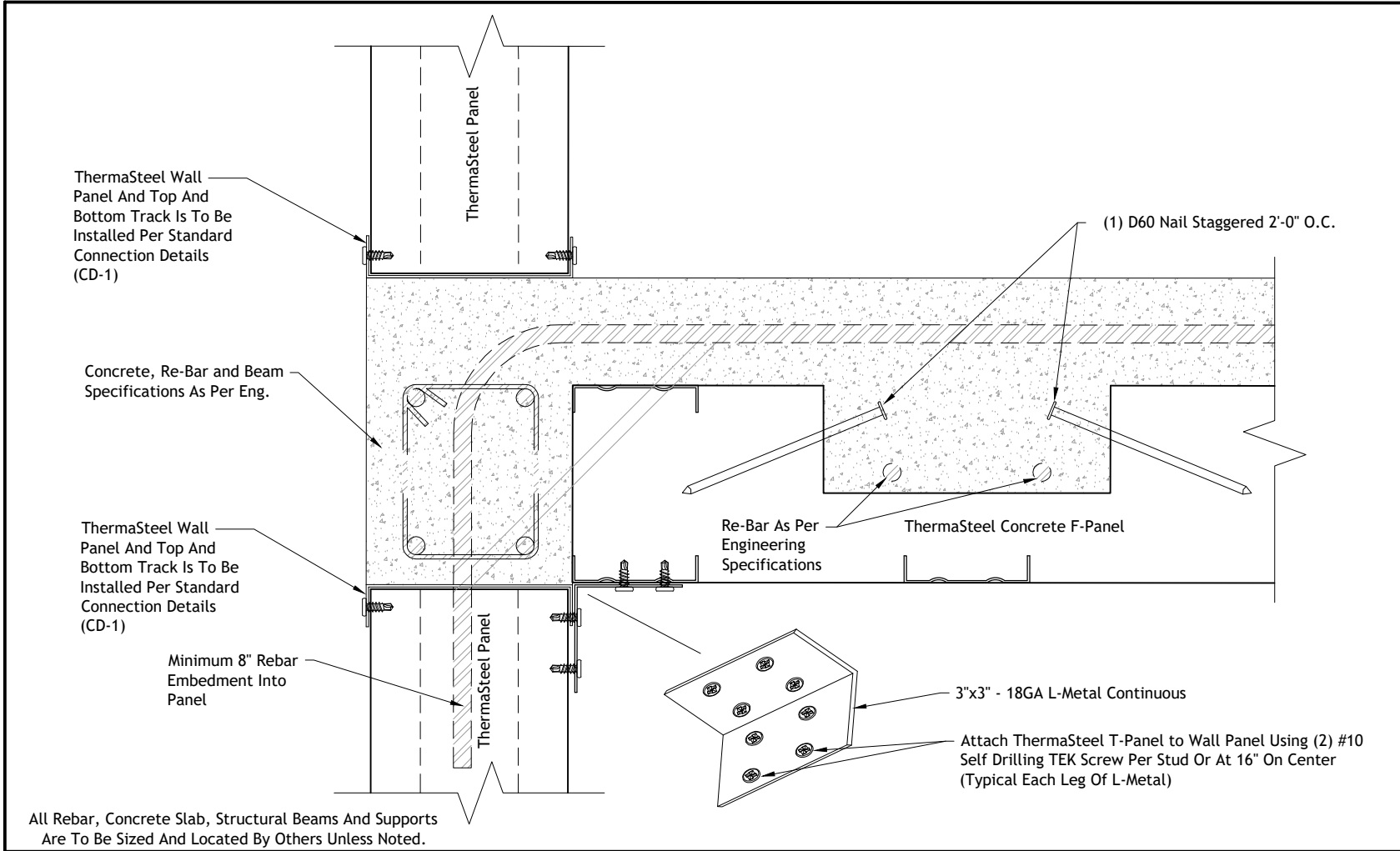



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>	
	Typical Concrete Hollow Core Floor System Connection - Section View	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>FC-013</b>	



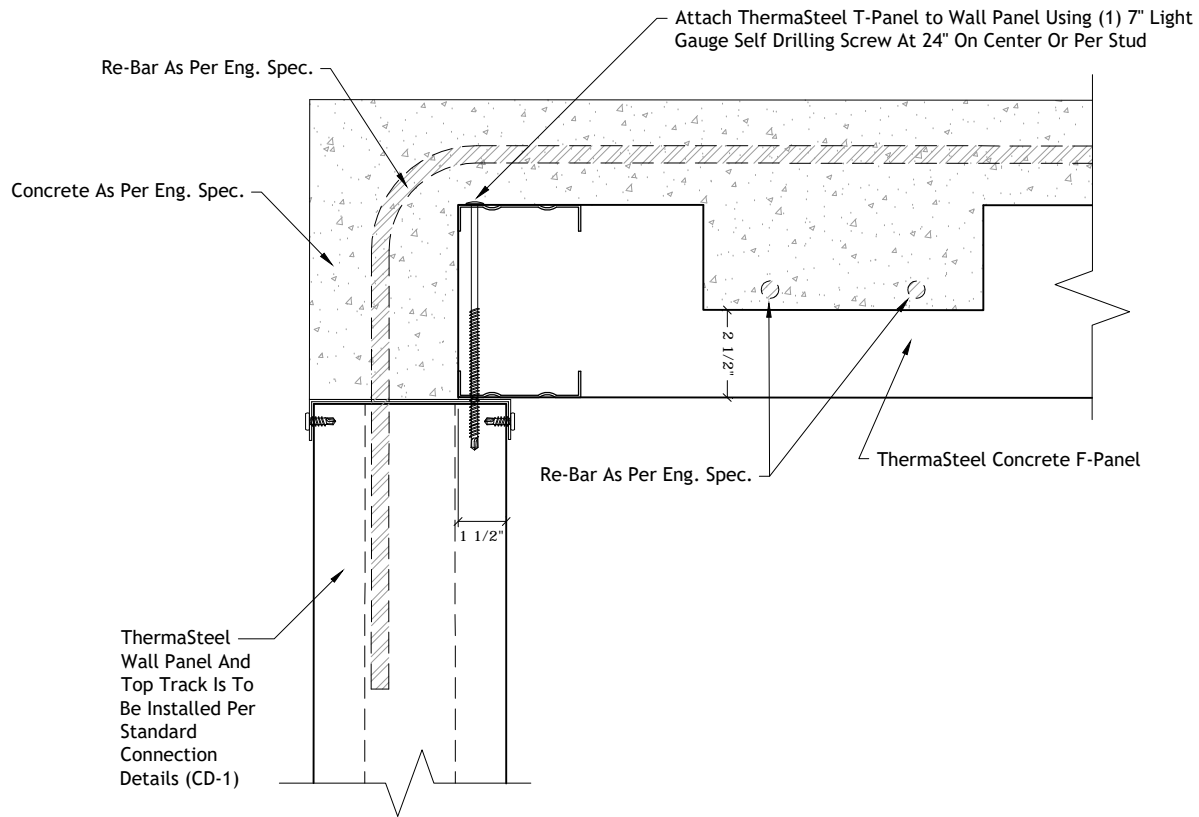
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Connection</b>  Typical Concrete F-Panel Floor System Connection With Band Panel - Section View		Not To Scale
			Rev: 11/30/2021 Drawing Number <b>FC-014</b>

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





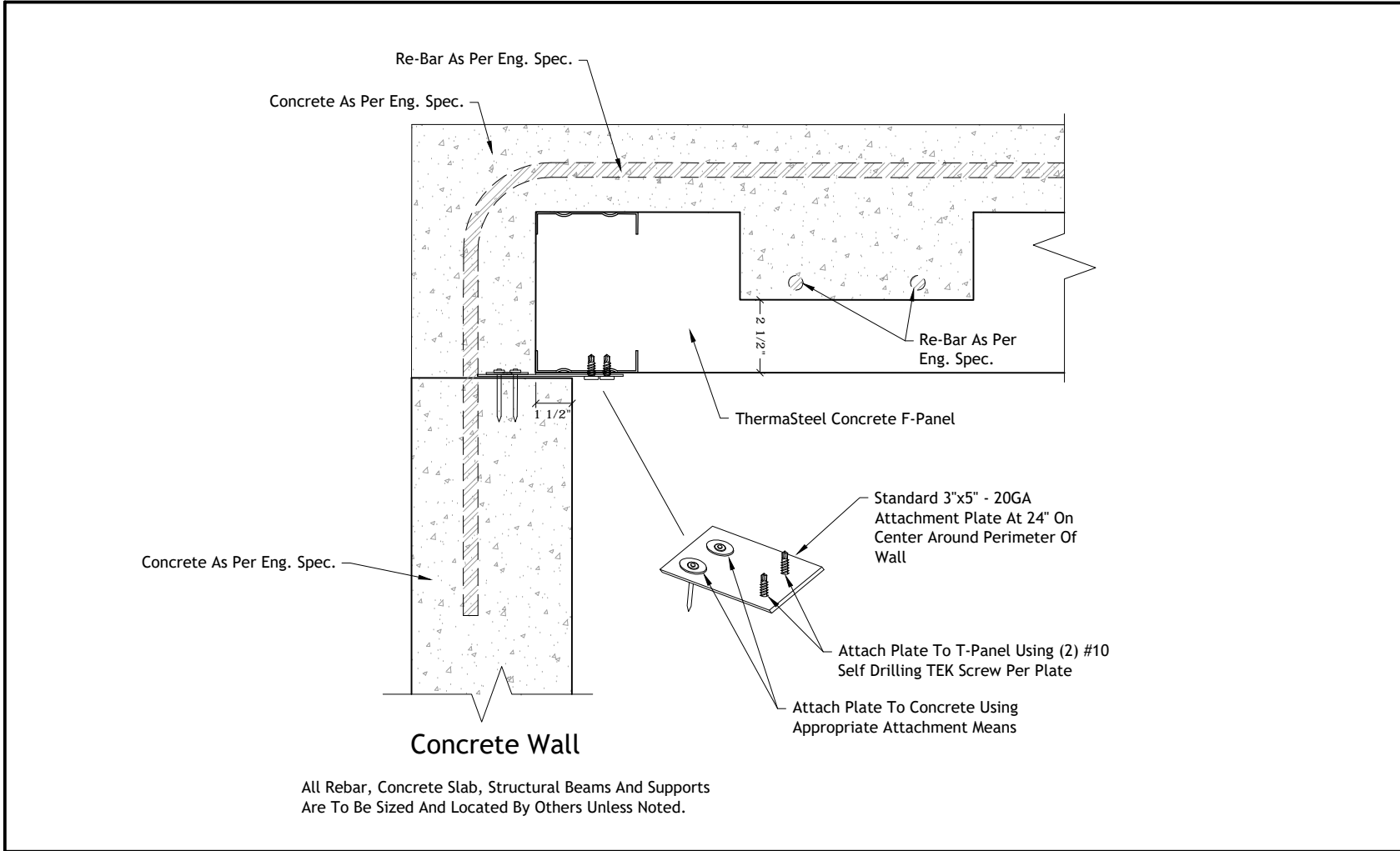
All Rebar, Concrete Slab, Structural Beams And Supports  
Are To Be Sized And Located By Others Unless Noted.



### Floor Connection

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

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**FC-016**

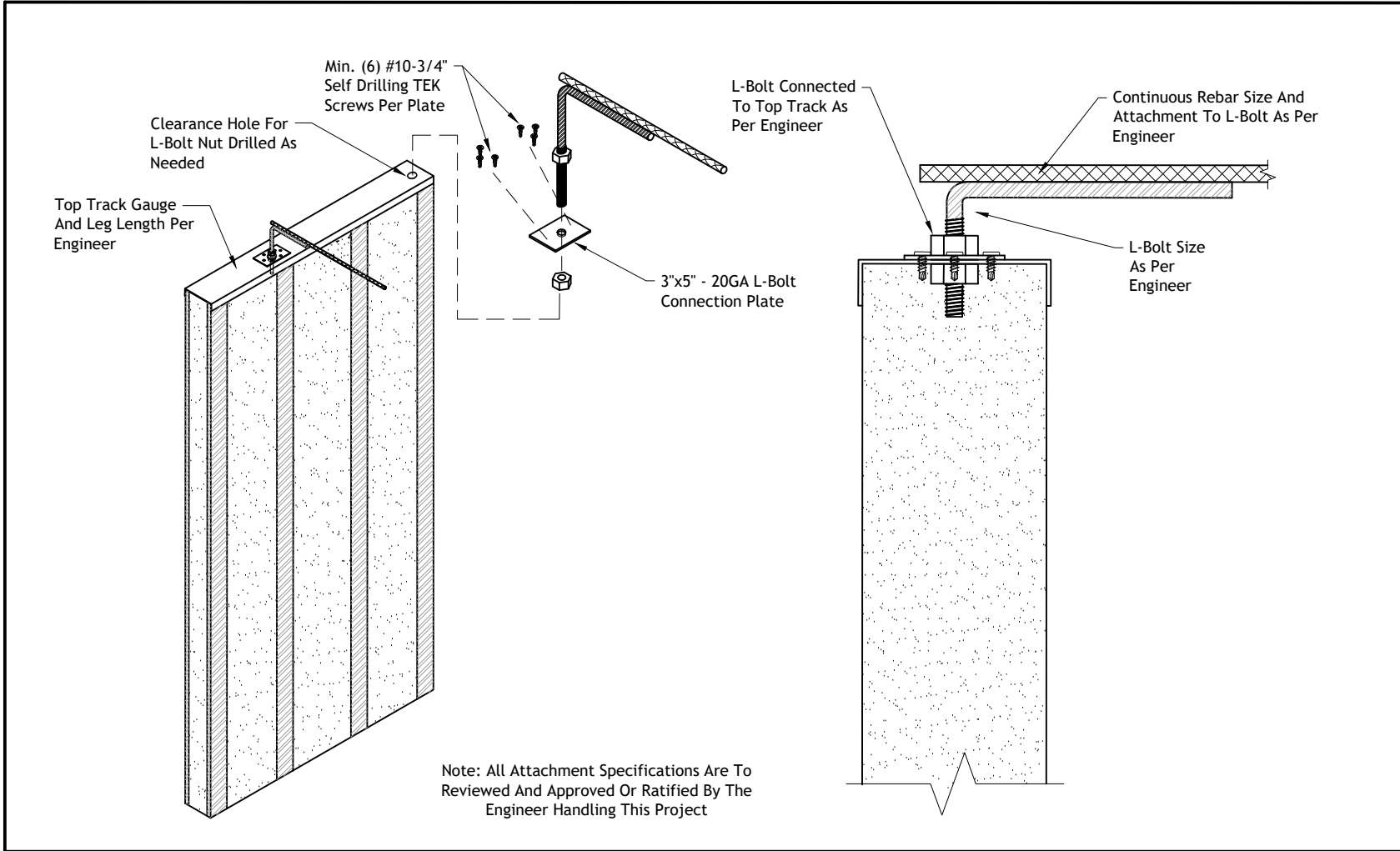


**Floor Connection**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-017</b>

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**Floor Connection**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FC-018</b>

## Floor Design

FD-001 F-Panel Detail

FD-002 F-Panel Structural Analysis - Figures 1 & 2

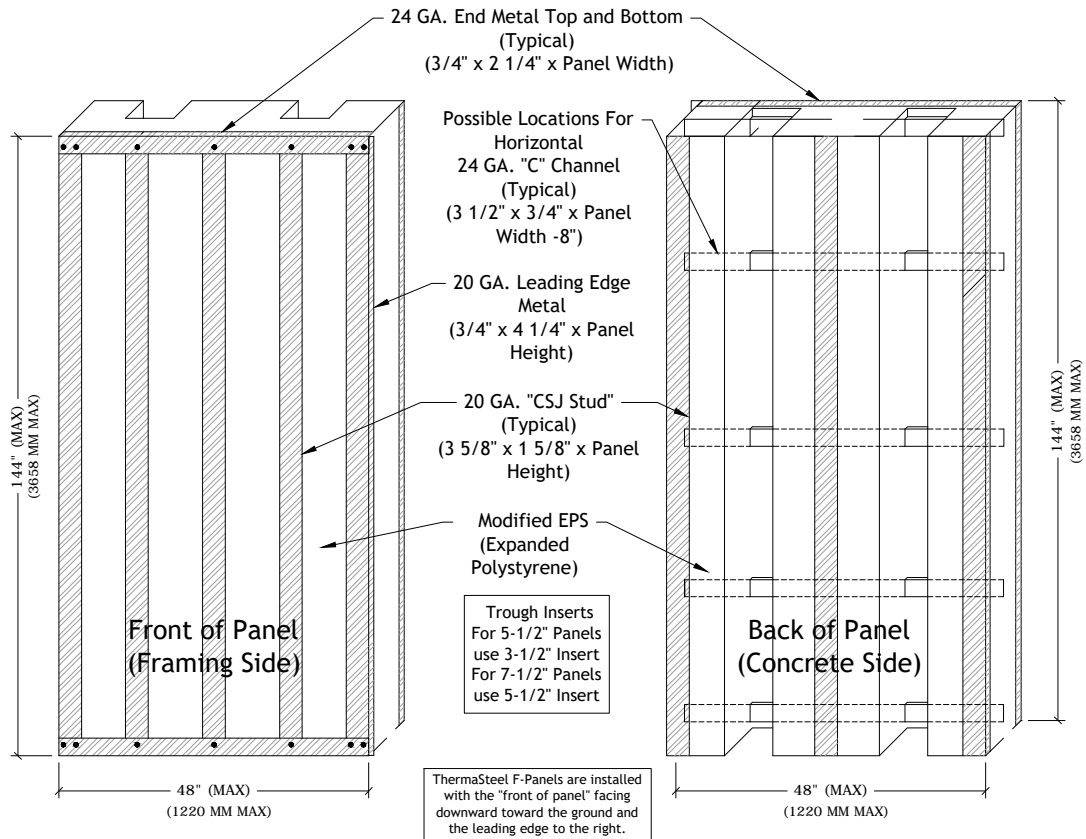
FD-003 F-Panel Structural Analysis - Figures 3 & 4

FD-004 F-Panel Structural Analysis - Figure 5

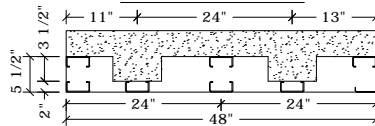
FD-005 F-Panel Structural Analysis - Roof & Floor Panel Tables

FD-006 F-Panel Structural Analysis - Resisting Moment Table

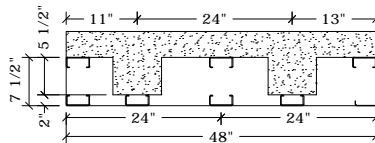
FD-007 F-Panel Structural Analysis - Calculation Formulas



**PANEL ELEVATION**



5 1/2" F-Panels



7 1/2" F-Panels

**BOTTOM VIEW**

FOR 5 1/2" AND 7 1/2" PANEL THICKNESSES  
(ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)  
(WIRE CHASES NOT AVAILABLE ON THIS PANEL)

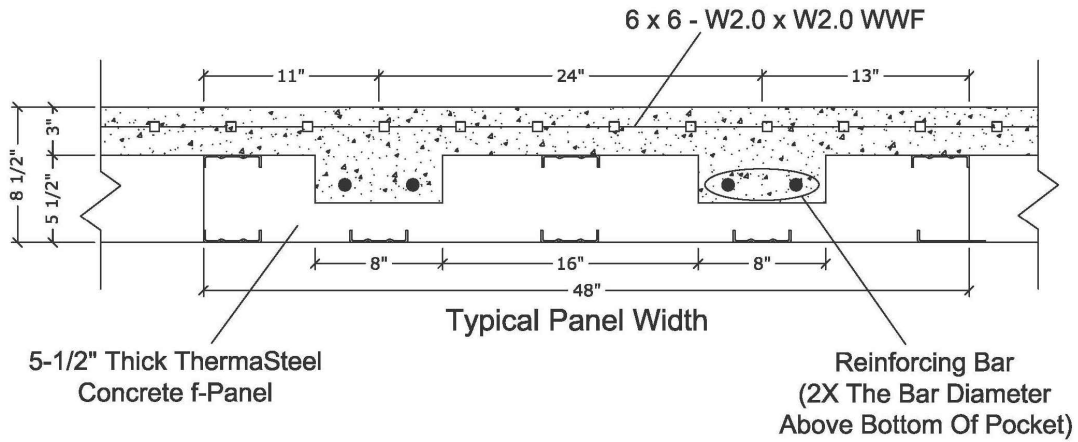


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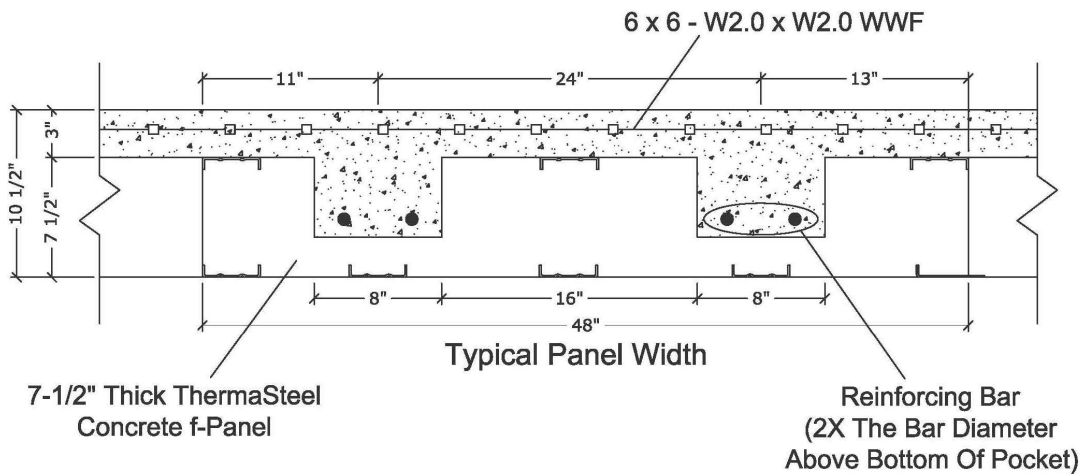
**Floor Design**

**F-Panel Detail**

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



**FIG. 1 - FPB - 1 & RPB - 1**



**FIG. 2 - FPB - 2 & RPB - 2**

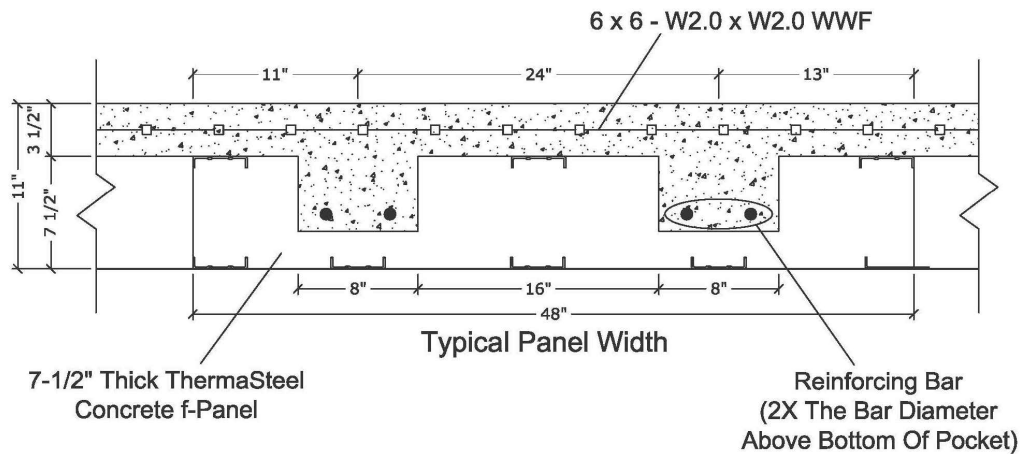


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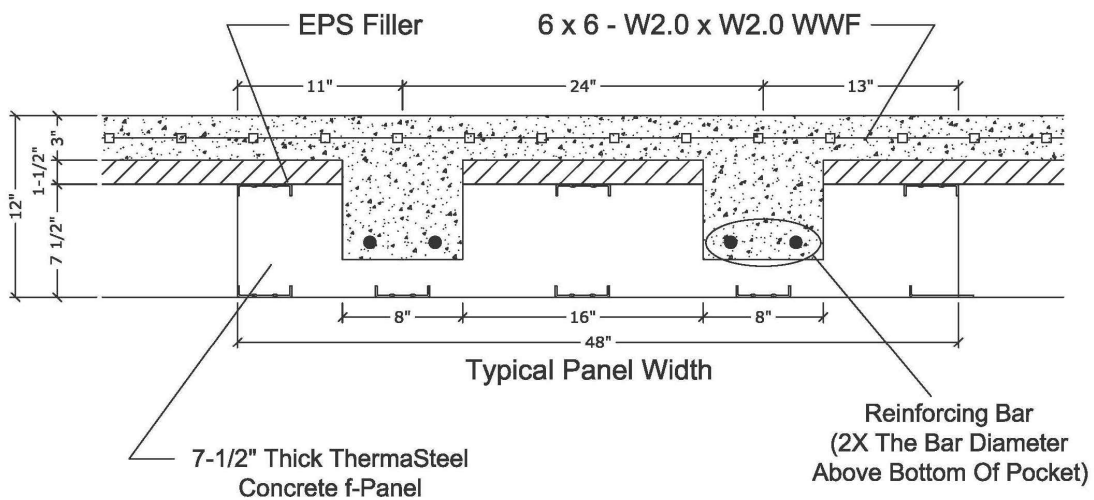
Floor Design

F-Panel Structural  
Analysis - Figures 1 & 2

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**FD-002**



**FIG. 3 - FPB - 3**



**FIG. 4 - RPB - 3 & FPB - 4**

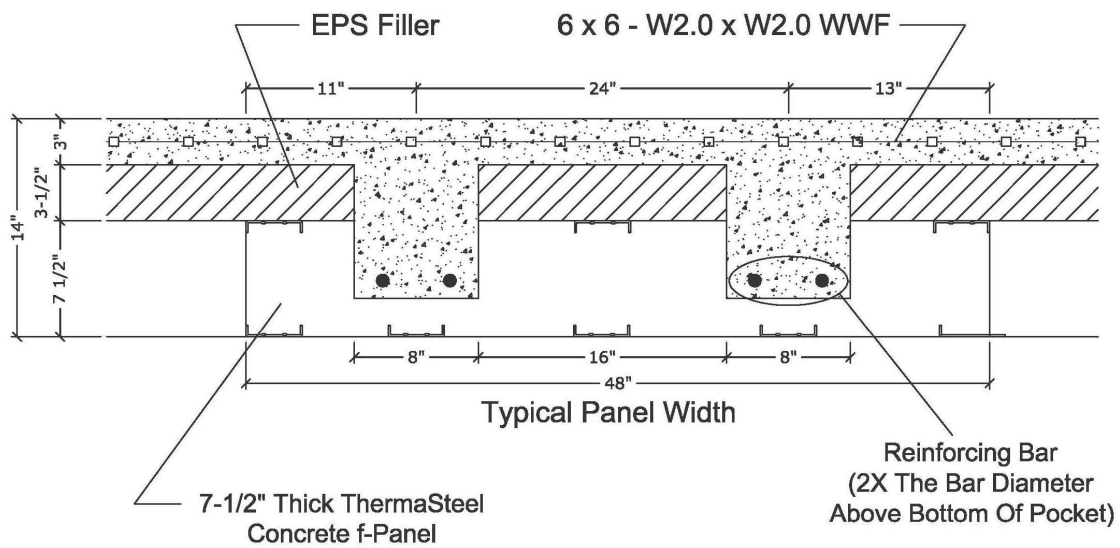


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Floor Design

F-Panel Structural  
Analysis - Figures 3 & 4

Not To Scale  
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Drawing Number  
**FD-003**



**FIG. 5 - RPB - 4 & FPB - 5**



**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

Floor Design

F-Panel Structural  
 Analysis - Figure 5

Not To Scale  
 Rev: 11/30/2021  
 Drawing Number  
**FD-004**



**STRUCTURAL ANALYSIS  
FOR ROOF PANEL ThermaSteel F-Panel**

TYPE OF ROOF PANELING	SPAN (FT)	RESISTING MOMENT (FT-LBS)	REINFORCING BARS (BOTTOM)
RPB -1 (SEE FIG.1)	10	2750	2 - # 4
	12	3960	2 - # 4
	14	5400	2 - # 5
RPB - 2 (SEE FIG. 2)	16	7040	2 - # 5
	18	9850	2 - # 5
	20	12150	2 - # 6
RPB - 3 (SEE FIG. 4)	22	16100	2 - # 6
	24	19160	2 - # 6
RPB - 4 (SEE FIG. 5)	26	24420	2 - # 6
	28	28330	2 - # 7
	30	32520	2 - # 7

**STRUCTURAL ANALYSIS  
FOR FLOOR PANEL ThermaSteel F-Panel**

TYPE OF FLOOR PANELLING	SPAN (FT)	RESISTING MOMENT (FTLBS)	REINFORCING BARS (BOTTOM)
FPB -1 (SEE FIG.1)	10	3670	2 - # 4
	12	5290	2 - # 5
FPB - 2 (SEE FIG. 2)	14	7840	2 - # 5
	16	10240	2 - # 5
	18	12960	2 - # 6
FPB - 3 (SEE FIG. 3)	20	16250	2 - # 6
FPB - 4 (SEE FIG. 4)	22	20180	2 - # 6
FPB - 5 (SEE FIG. 5)	24	26650	2 - # 6



**THERMASTEEL**<sup>™</sup>  
ADVANCED PANEL SYSTEMS

**Floor Design**

F-Panel Structural Analysis -  
Roof & Floor Panel Tables


Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**FD-005**

Resisting moment times 8 divide by span squared equals lbs per linear foot.  
 Take lbs per linear ft, divide by width of member to get lbs per square foot.

Resisting Moment	Span	Member Width	Total weight member	Area	Pif/ 4ft	PSF
2750	10	4	22000	100	220	55
3960	12	4	31680	144	220	55
5400	14	4	43200	196	220.408	55.102
7040	16	4	56320	256	220	55
9850	18	4	78800	324	243.210	60.802
12150	20	4	97200	400	243	60.75
16100	22	4	128800	484	266.116	66.529
19160	24	4	153280	576	288.111	66.528
24420	26	4	195360	676	288.994	72.249
28330	28	4	226640	784	289.082	72.270
32520	30	4	260160	900	289.067	72.267
3670	10	4	29360	100	293.6	73.4
5290	12	4	42320	144	293.889	73.472
7840	14	4	62720	196	320	80
10240	16	4	81920	256	320	80
12960	18	4	103880	324	320	80
16250	20	4	130000	400	325	81.25
20180	22	4	161440	484	333.554	83.388
26650	24	4	213200	576	370.139	92.535

### Concrete Floor Panel Calculation

1. The resisting moment number in the chart get larger as the span increases because the concrete and rebar get larger.
2. Formula for resisting moment - Resisting Moment x 8, divide by span squared - lbs per linear foot.
3. To get lbs per sq ft take the lbs per linear foot and divide by the width of the member (panel width) this will give you the lbs per sq ft of live load.
4. 3" of 3000 psi concrete weights 35 lbs. per sq ft. or .081 lbs. per cubic inch.

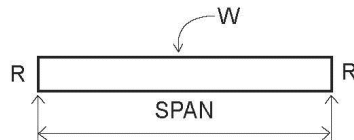
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Floor Design</b>	
	F-Panel Structural Analysis - Resisting Moment Table	
	Not To Scale	Rev: 11/30/2021
	Drawing Number <b>FD-006</b>	

**Master Engineers  
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PROJECT PSBS  
SUBJECT SIMPLE BEAM W/DISTRIBUTED LOAD  
DATE 20 JUL-09 BY R. PARRISH  
PROJECT NO 003-002 SHEET 1 OF 1

**SAMPLE BEAM W/DISTRIBUTED LOAD**



W = DISTRIBUTED LOAD  
IN POUNDS PER  
LINEAR FOOT (PLF)

SPAN IS IN FEET

R = END REACTION @ SUPPORT  
IN POUNDS (LB)

M = MAXIMUM BENDING  
MOMENT IN FOOT-  
POUNDS (FT-LB)

$$R = (\text{REACTION}) \frac{W \times \text{SPAN}}{2}$$

$$M = \frac{W \times \text{SPAN}^2}{8}$$

IF YOU HAVE A RESISTING MOMENT (M) AND WANT  
TO DETERMINE THE ALLOWABLE DISTRIBUTION LOAD:

$$W = \frac{8 \times M}{(\text{SPAN})^2}$$

**EXAMPLE**

SPAN = 30' - 0" W = 200 PLF

$$R = \frac{200 (30)}{2} = 3000 \text{ LB}$$

$$M = \frac{200 (30)^2}{8} = 22,500 \text{ FT-LB}$$

FOR A RESISTING MOMENT (M) + 36,800 FT-LB

A SPAN 24' - 0"

$$W = \frac{8(36,800)}{(24)^2} = 511 \text{ PLF}$$

IF THE SECTION YOU ARE CONSIDERING IS 4'-0 WIDE  
THEN:

$$W = \frac{511}{4} = 127.8 \text{ PSF}$$



**THERMASTEEL™**  
ADVANCED PANEL SYSTEMS

**Floor Design**

**F-Panel Structural Analysis -  
Calculation Formulas**

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

## 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

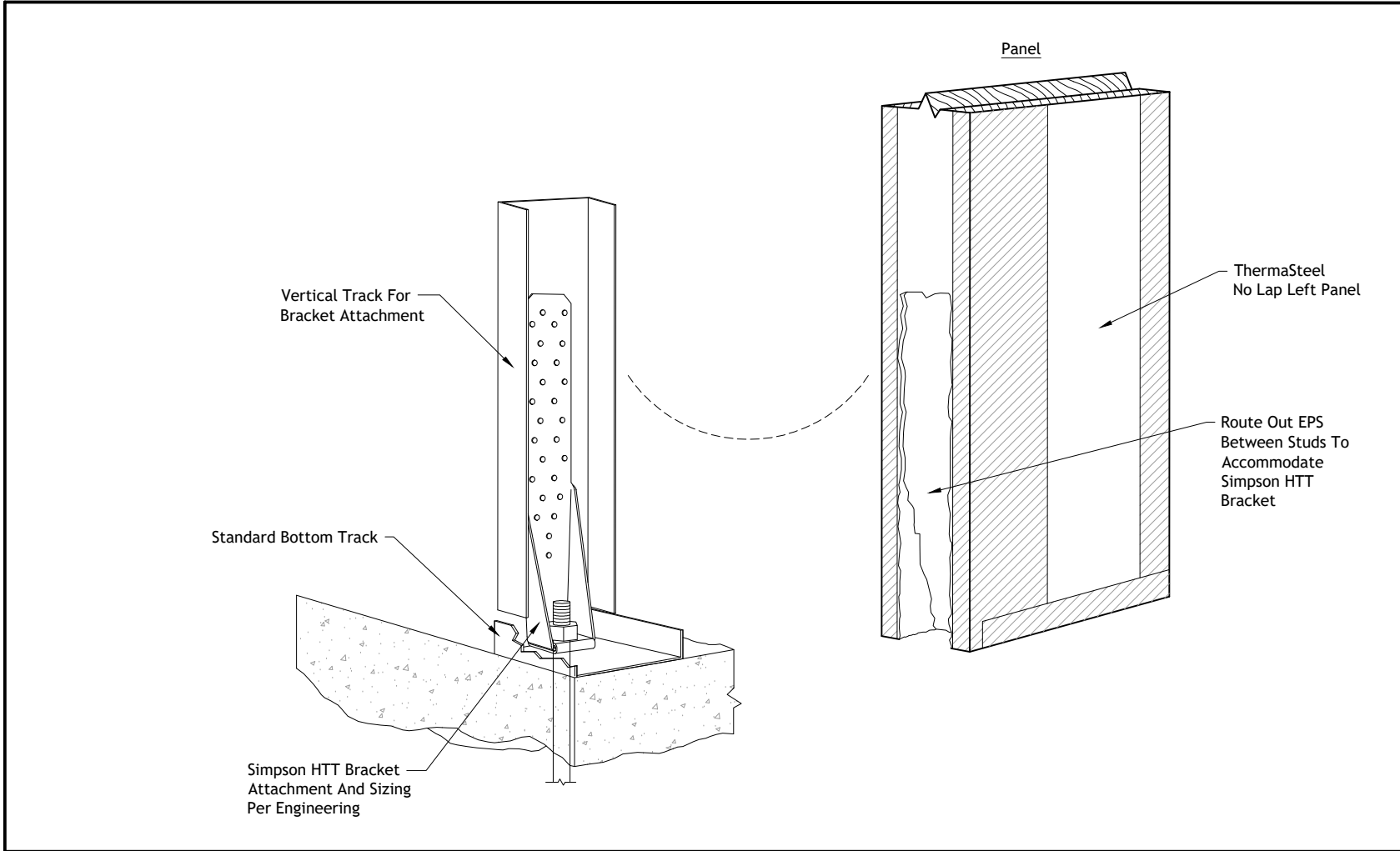
HD-013 Typical Insulation Band Connection With Strap


HD-014 Typical Track Connection To Steel And Wood Beams

HD-015 Typical Top And Bottom Panel To Split Track Connection

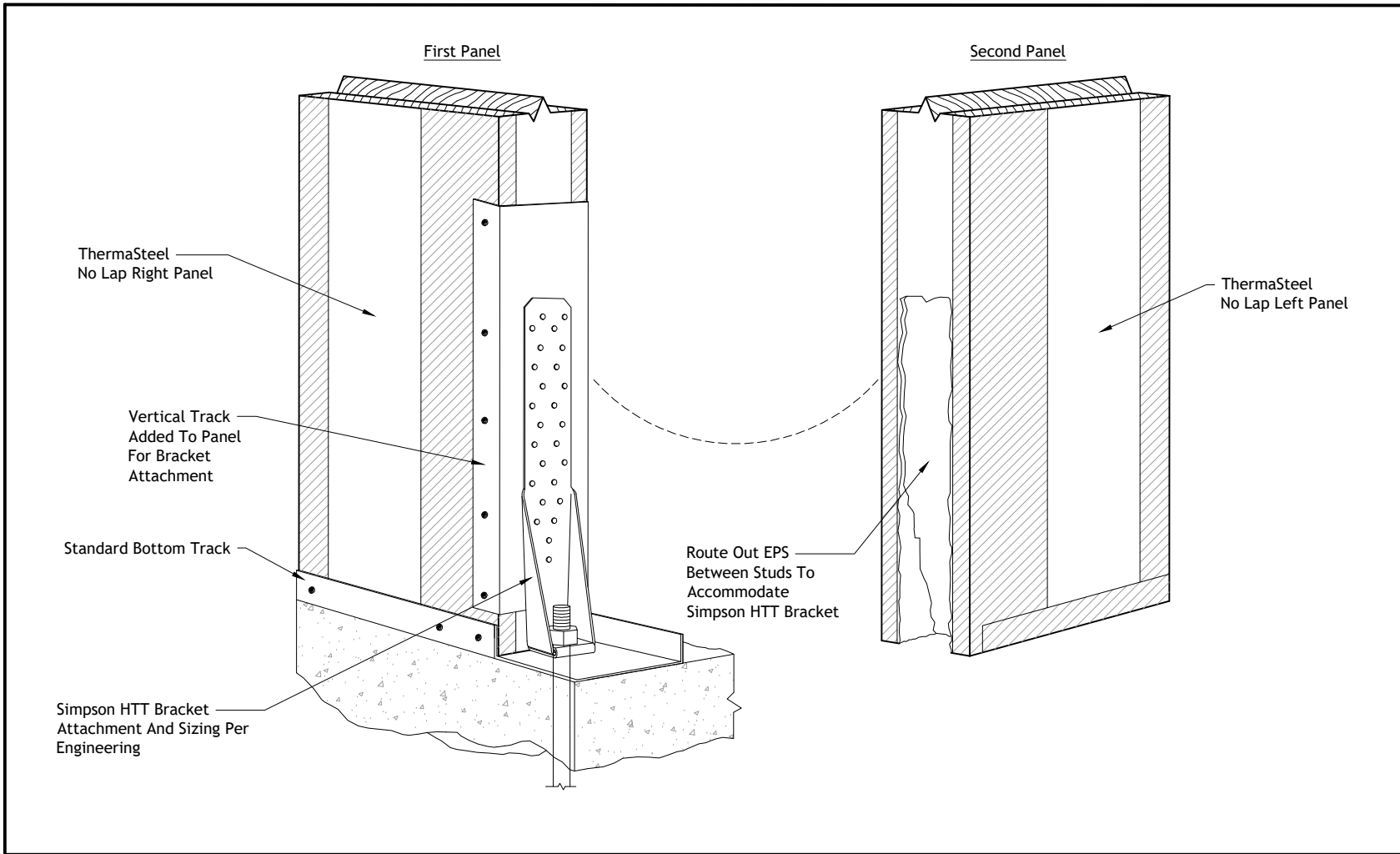
HD-016 Typical Top And Bottom Panel To Split Track Connection - Alternative A

HD-017 Typical Top And Bottom Panel To Split Track Connection - Alternative B



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel Hold Downs And Track Connections</b>	
	Typical Hold Down To Foundation Connection	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>HD-001</b>

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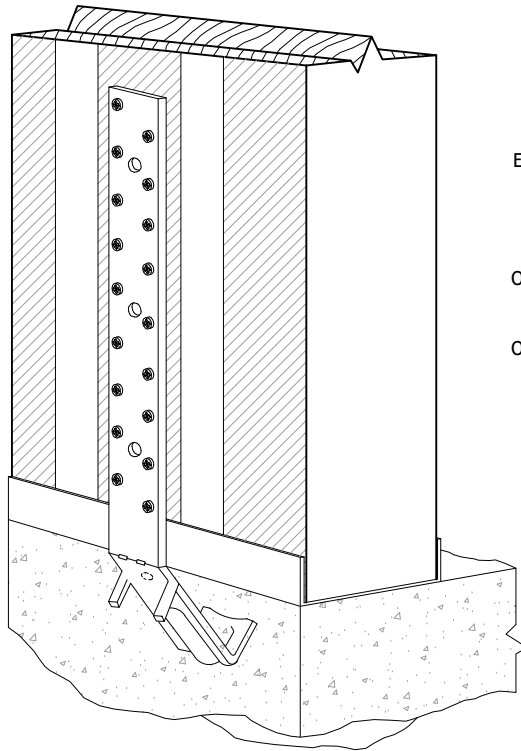


**Panel Hold Downs And Track Connections**

**Typical Hold Down To Foundation Connection**

**Reversed Track**

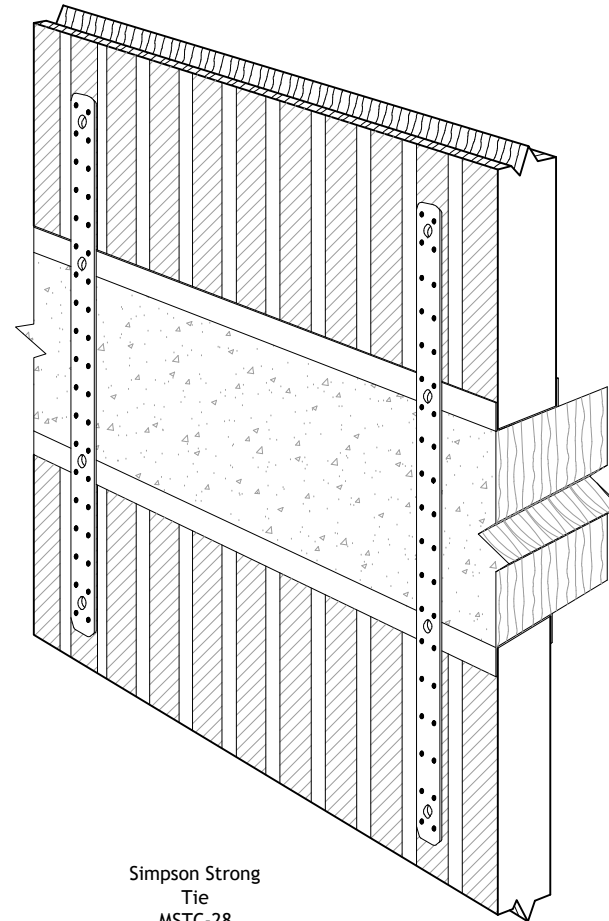
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-002</b>



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



Panel Hold Downs And Track Connections

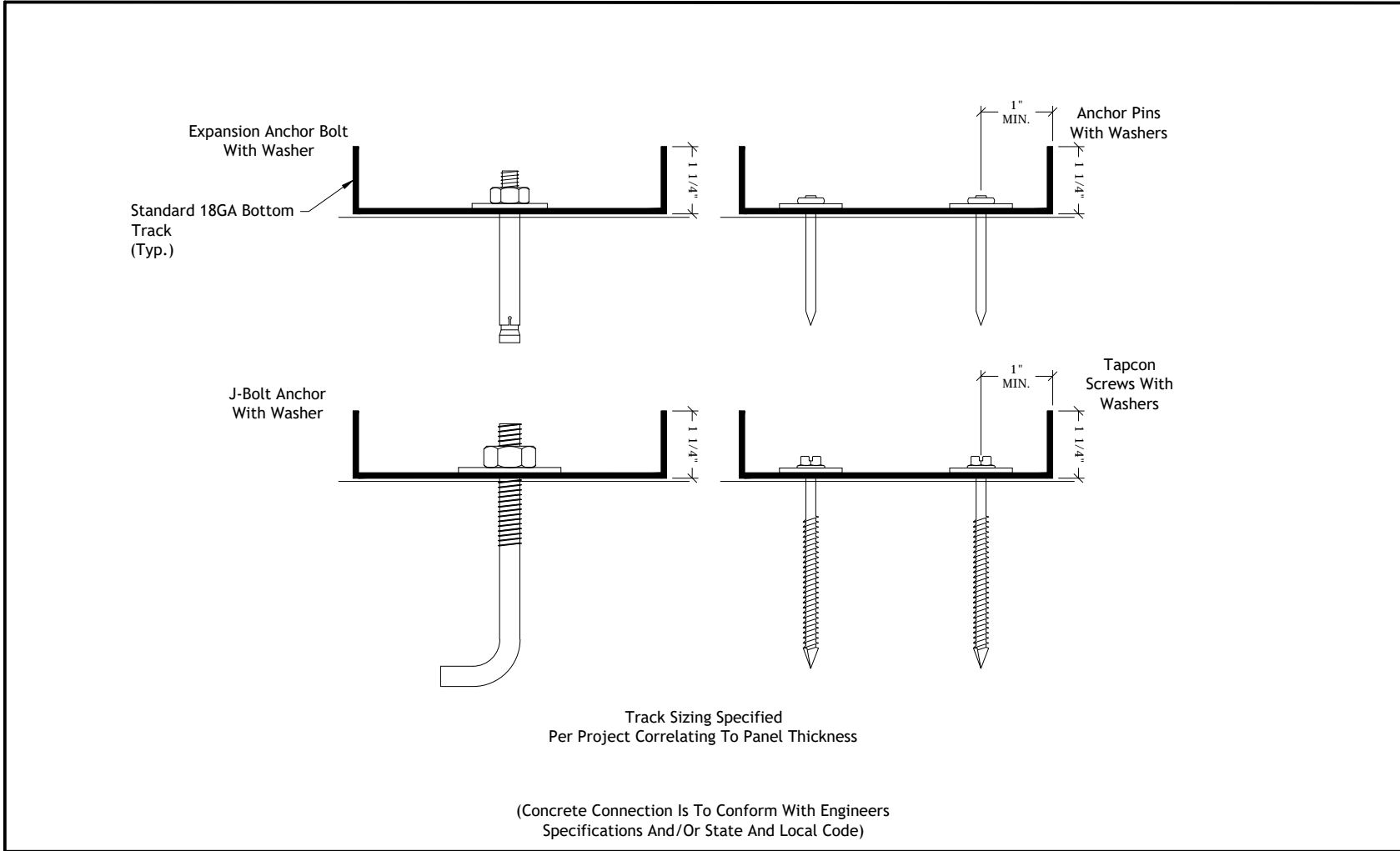
Typical Hold Down To Foundation Connection  
Via Strap


Not To Scale

Rev: 11/30/2021

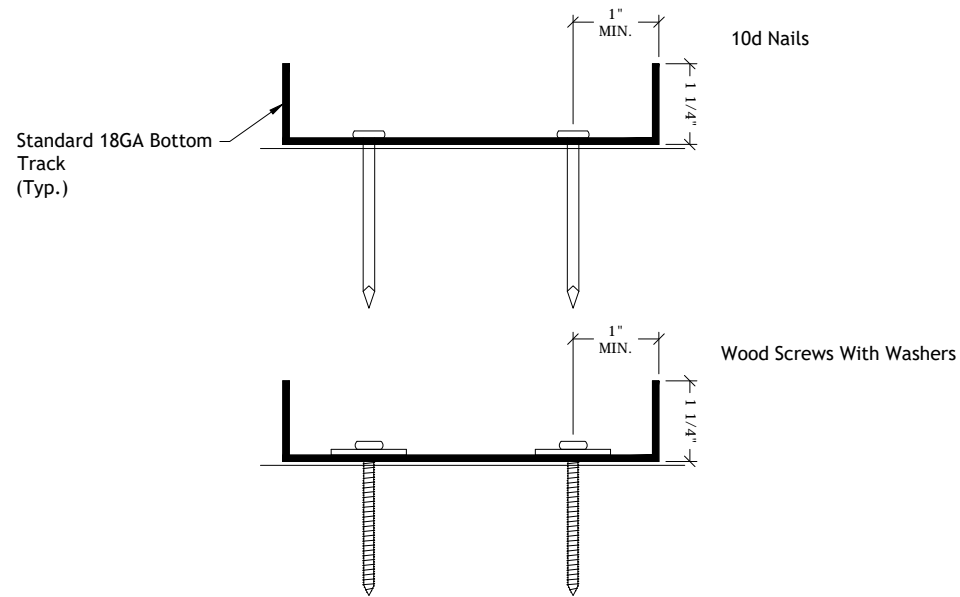
Drawing Number

HD-003



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel Hold Downs And Track Connections</b>	
	Typical Bottom Track Connection To Concrete Slab	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>HD-004</b>	





Track Sizing Specified Per Project Correlating To Panel Thickness

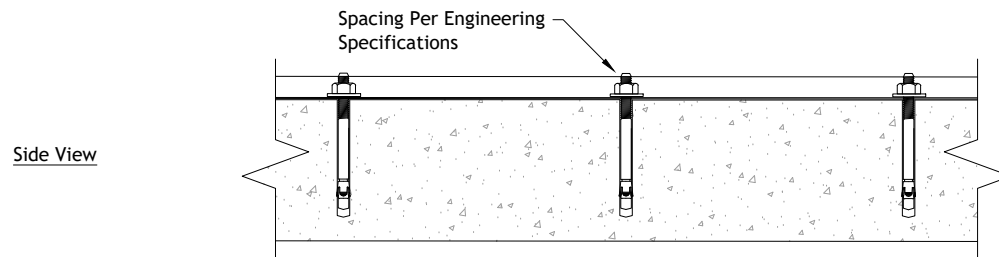
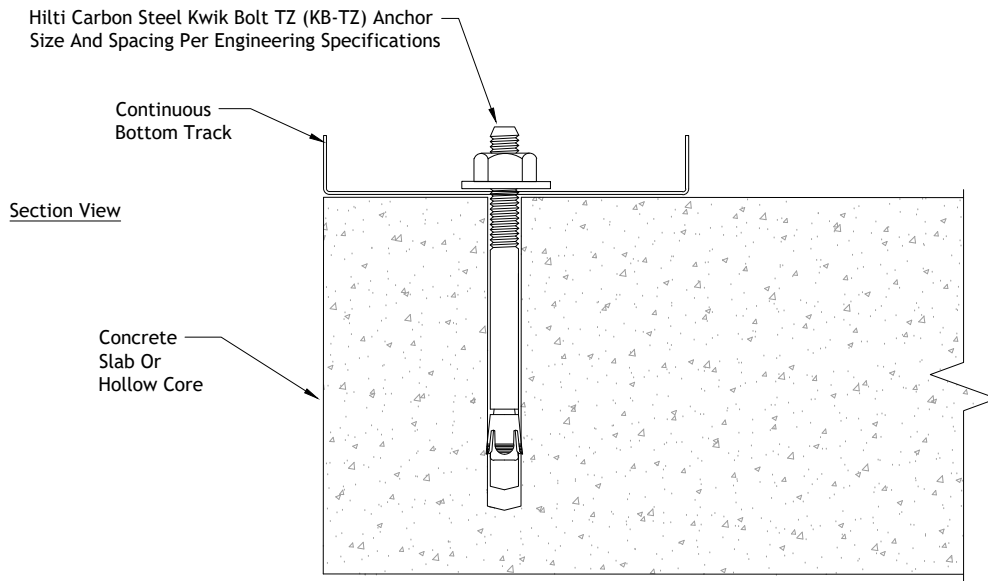
(Wooden Floor System Connection Is To Conform With  
Engineers Specifications And/or State And Local Code)



**Panel Hold Downs And Track Connections**

**Typical Bottom Track Connection To  
Wood Floor System**

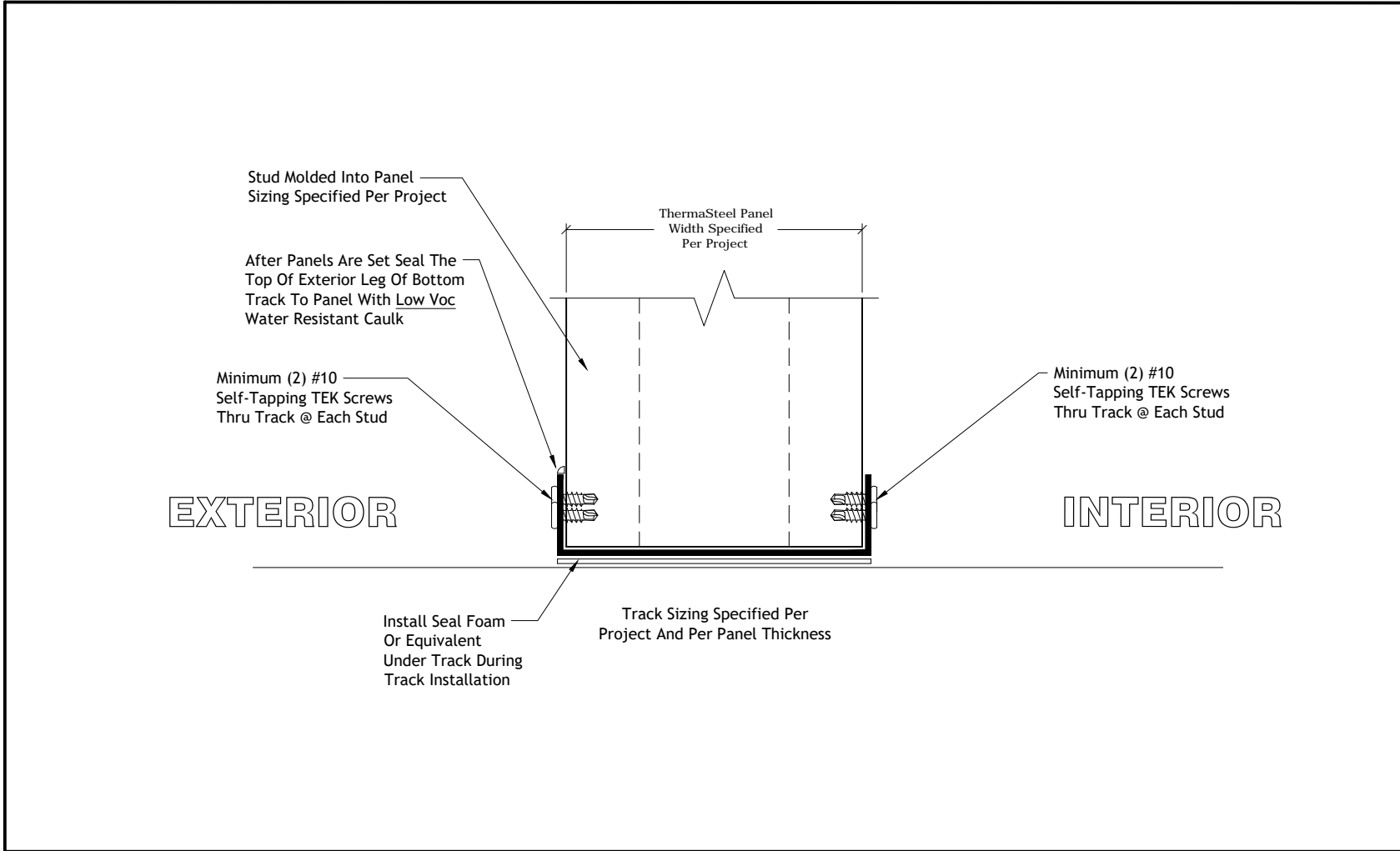
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-005</b>



Panel Hold Downs And Track Connections

Typical Bottom Track Connection For  
Shear And Load Bearing Walls

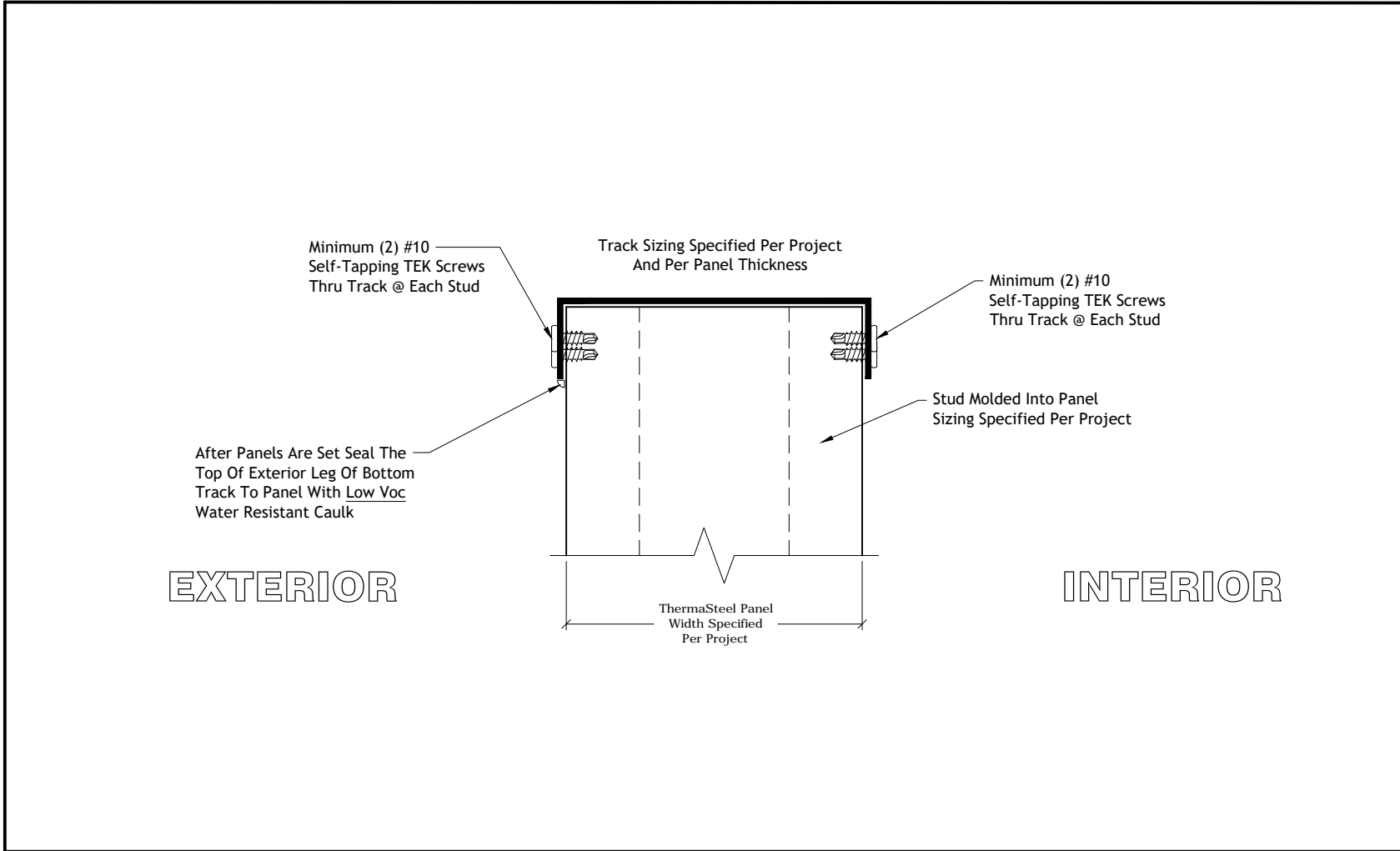
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-006</b>



**Panel Hold Downs And Track Connections**

**Typical Bottom Track Connection For Shear And Load Bearing Walls**

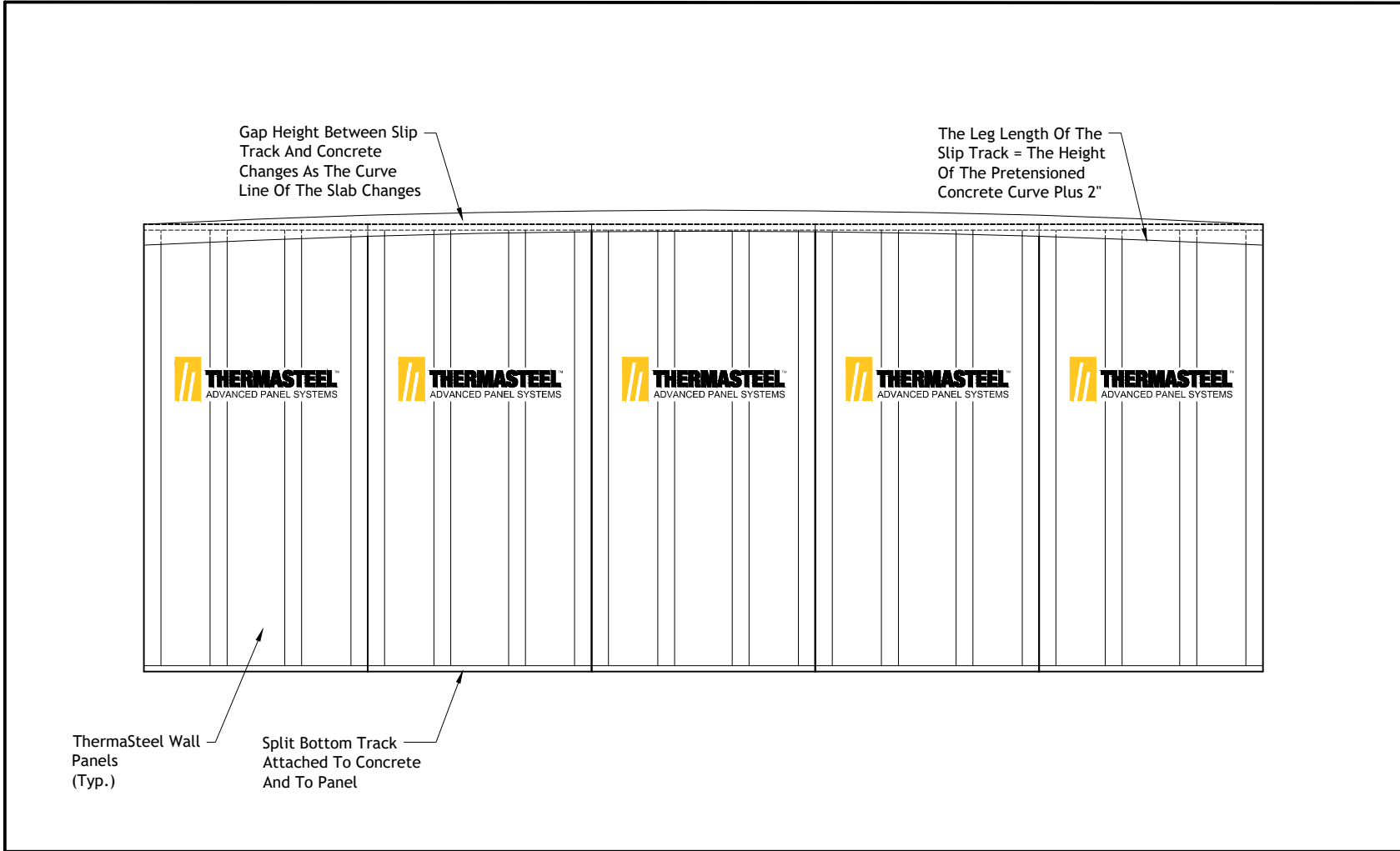
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Rev: 11/30/2021
Drawing Number
<b>HD-007</b>



**Panel Hold Downs And Track Connections**

**Typical Top Track Connection For Shear And Load Bearing Walls**

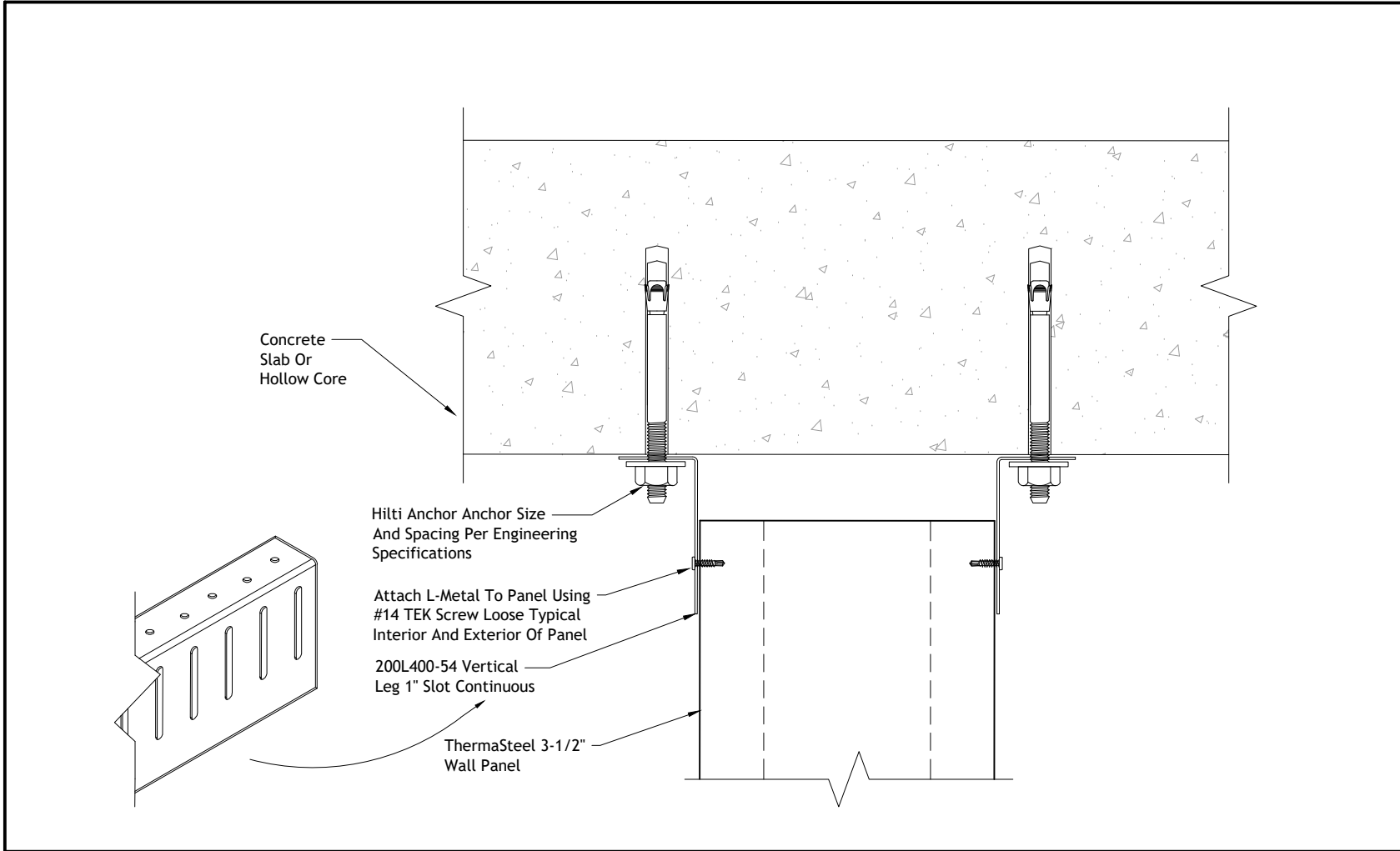
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Rev: 11/30/2021
Drawing Number
<b>HD-008</b>



**Panel Hold Downs And Track Connections**

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

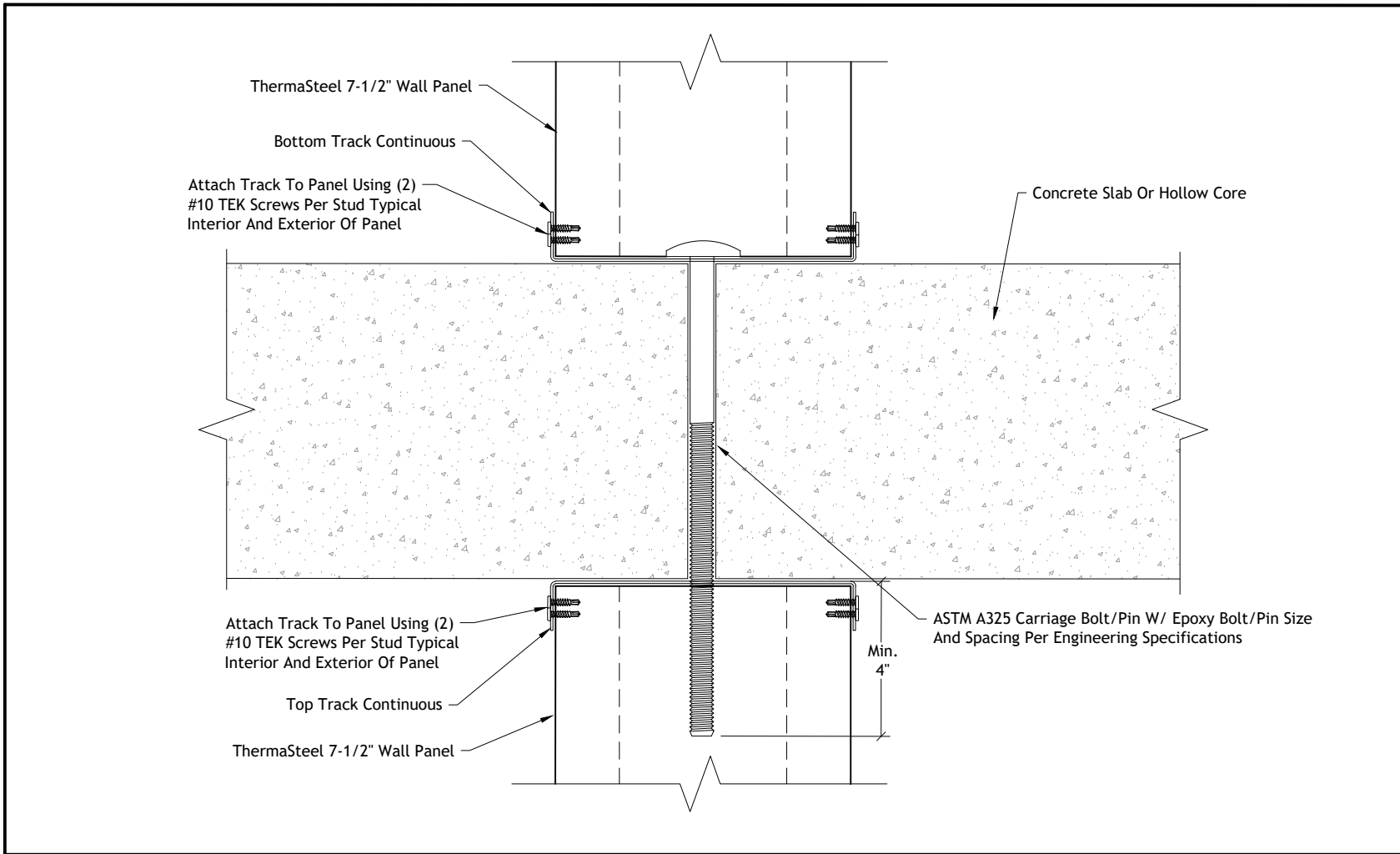
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Rev: 11/30/2021
Drawing Number
<b>HD-009</b>



**Panel Hold Downs And Track Connections**

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

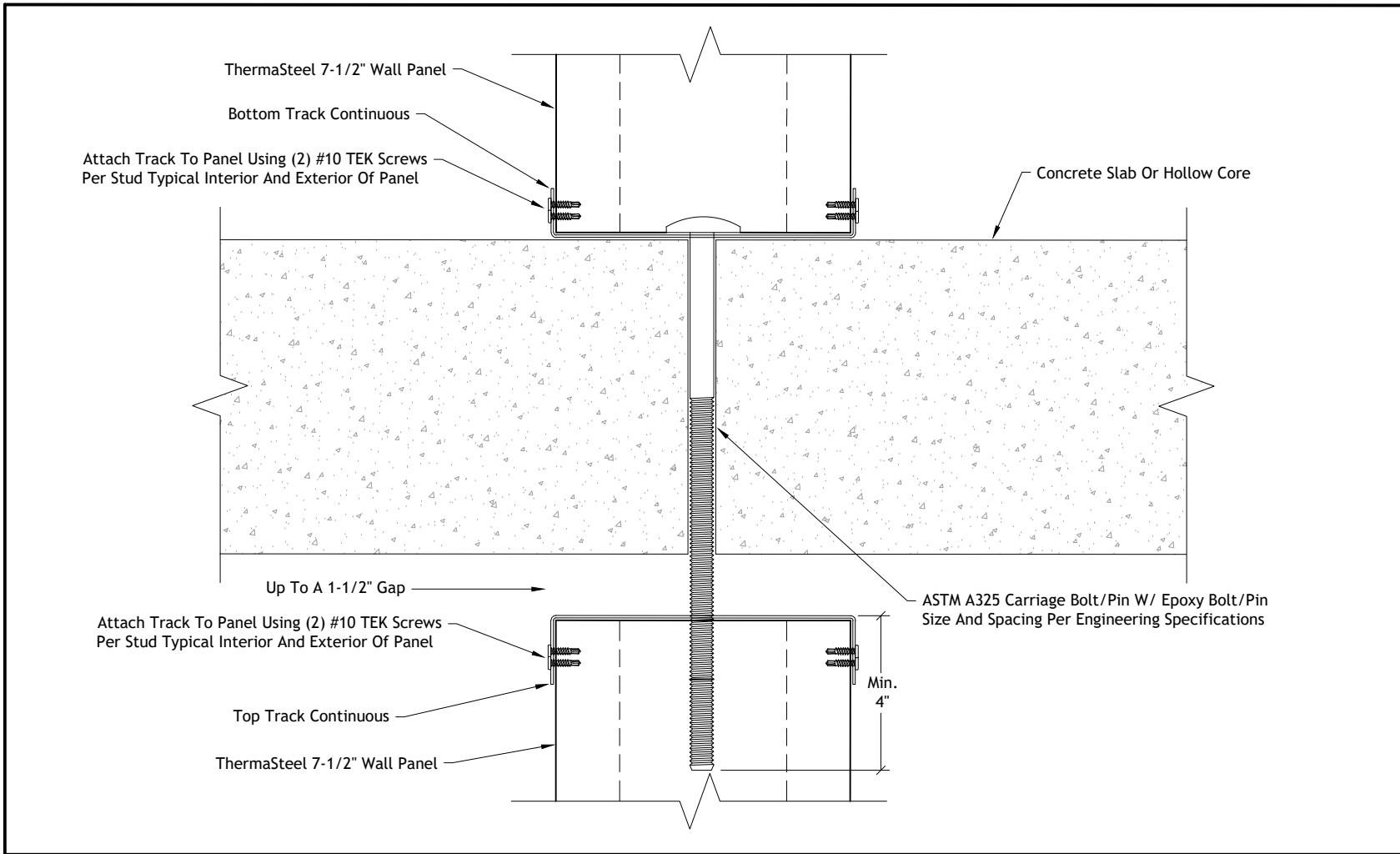
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-010</b>



**Panel Hold Downs And Track Connections**

**Typical Interior Track Connection  
To Overlapping Partitions**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-011</b>

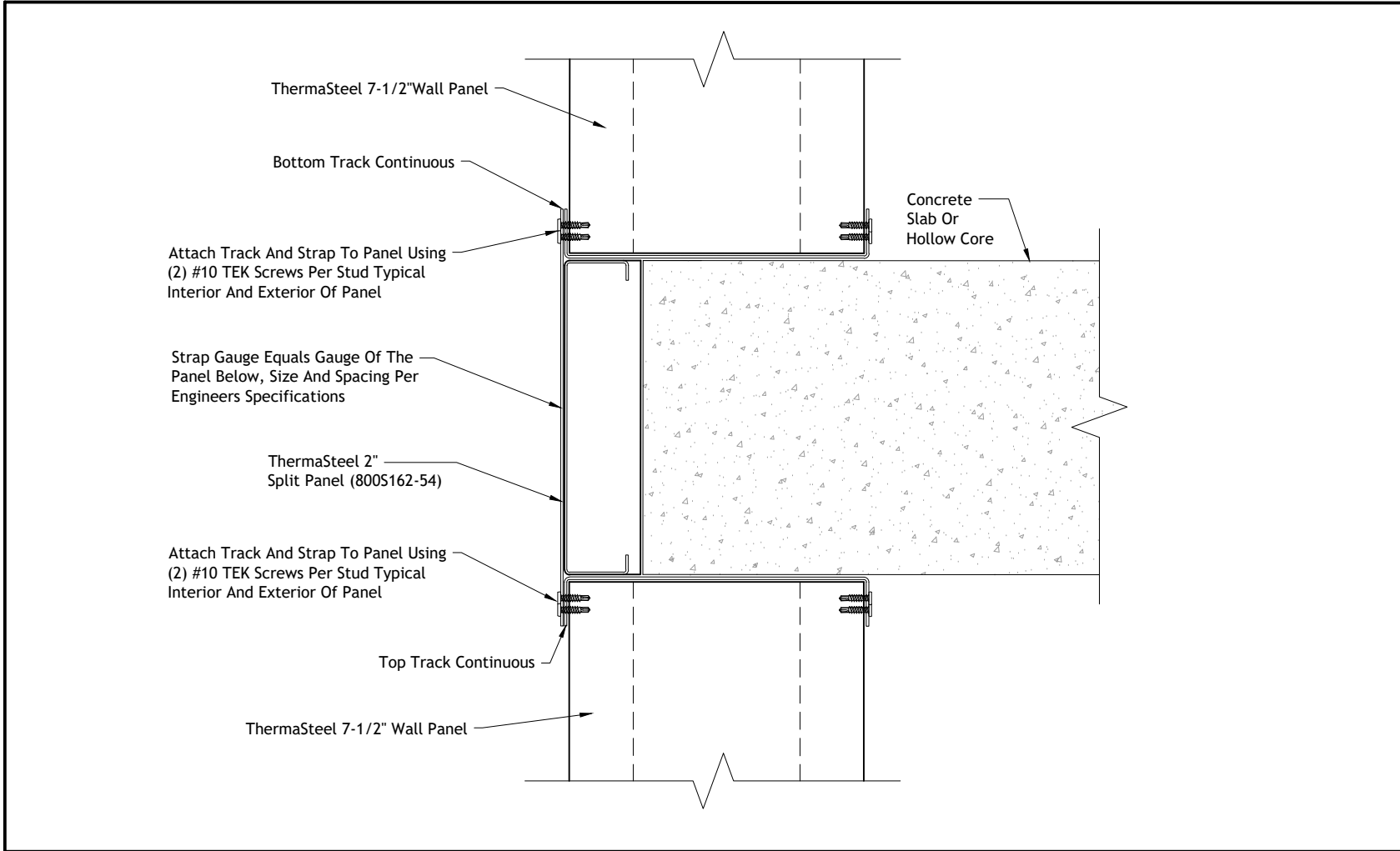


**Panel Hold Downs And Track Connections**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-012</b>



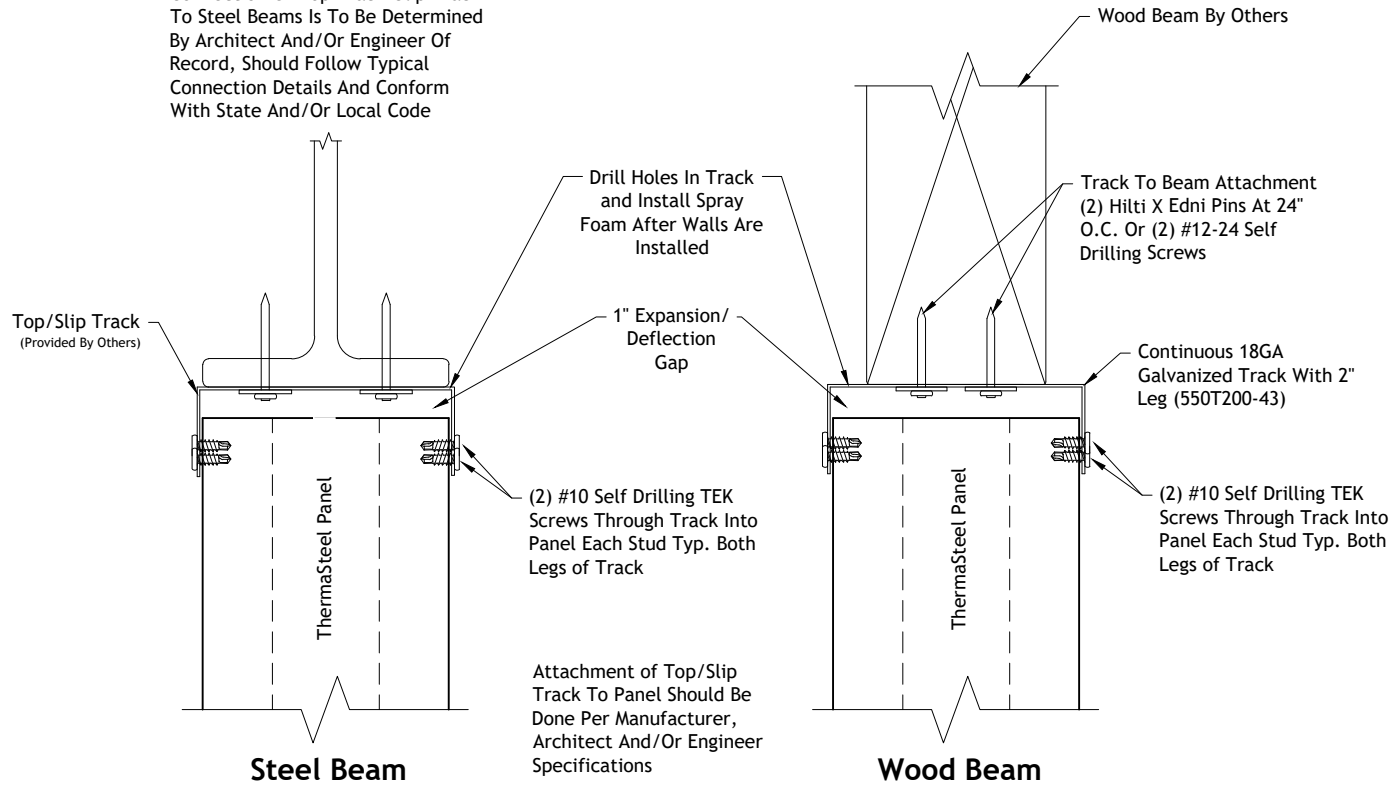


**Panel Hold Downs And Track Connections**

**Typical Insulation Band Connection With Strap**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HD-013</b>

Connection Of Top Track/Slip Track To Steel Beams Is To Be Determined By Architect And/Or Engineer Of Record, Should Follow Typical Connection Details And Conform With State And/Or Local Code



**THERMASTEEL™**  
ADVANCED PANEL SYSTEMS

**Panel Hold Downs And Track Connections**

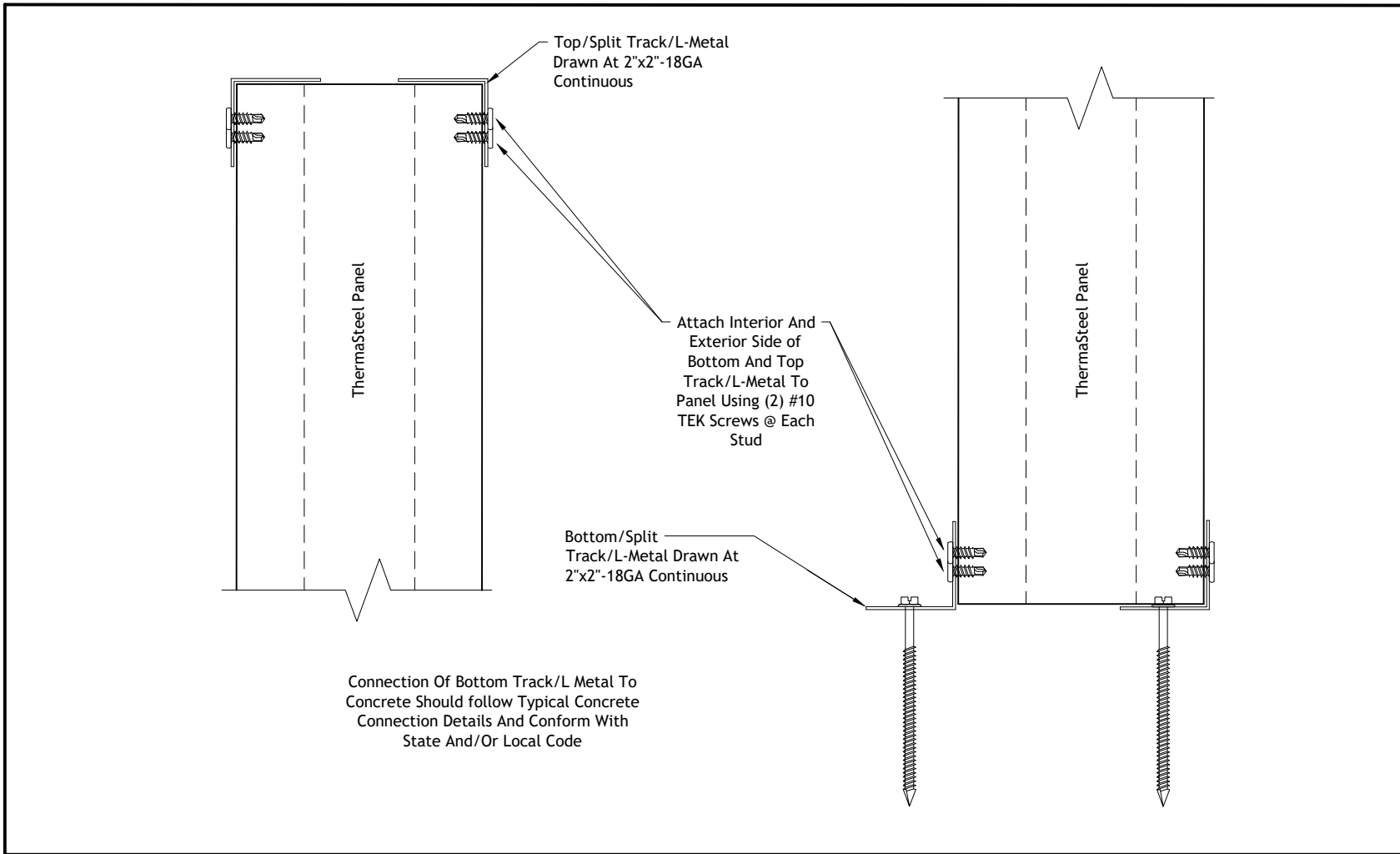
**Typical Track Connection To Steel And Wood Beams**


Not To Scale

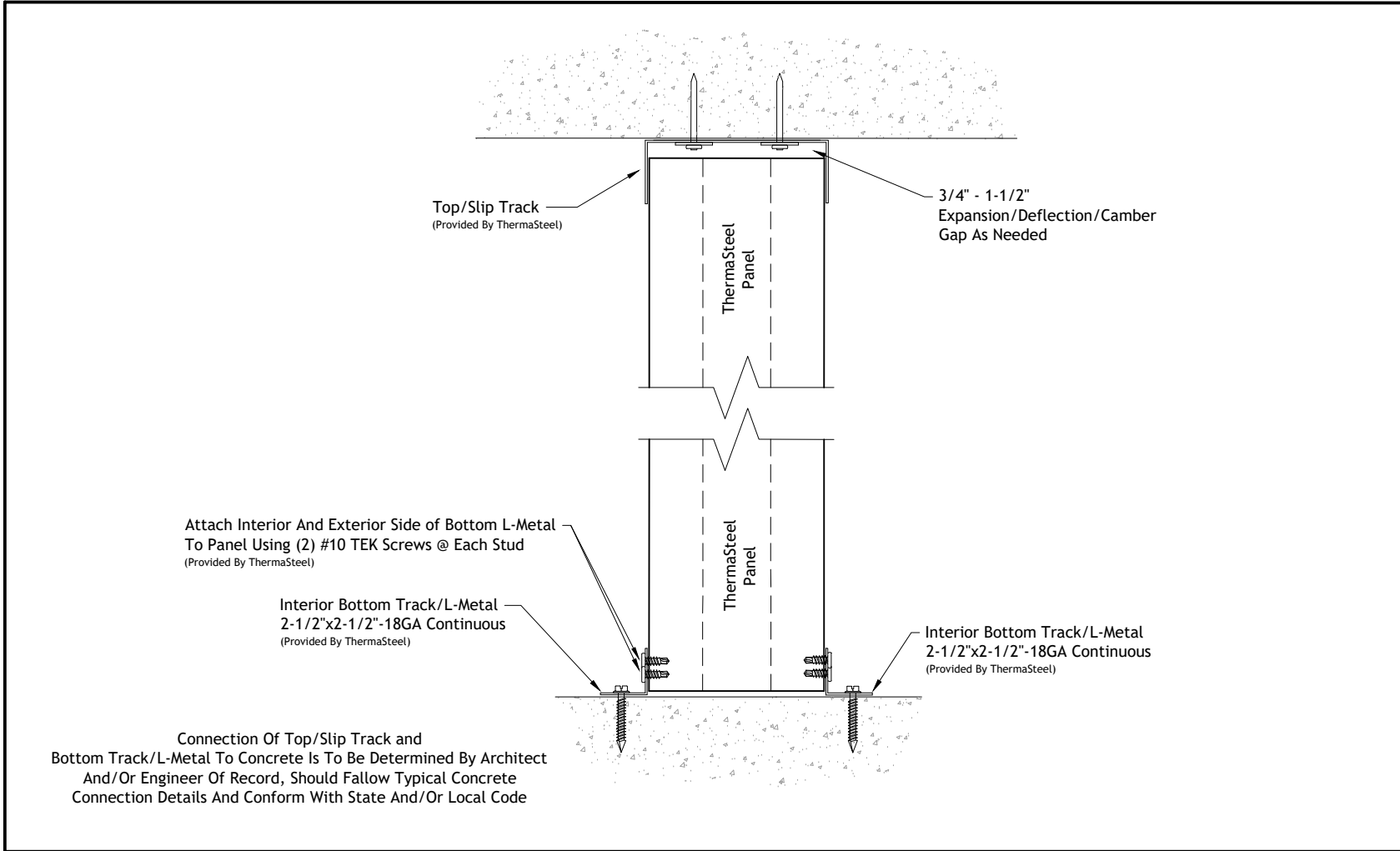
Rev: 11/30/2021

Drawing Number

**HD-014**



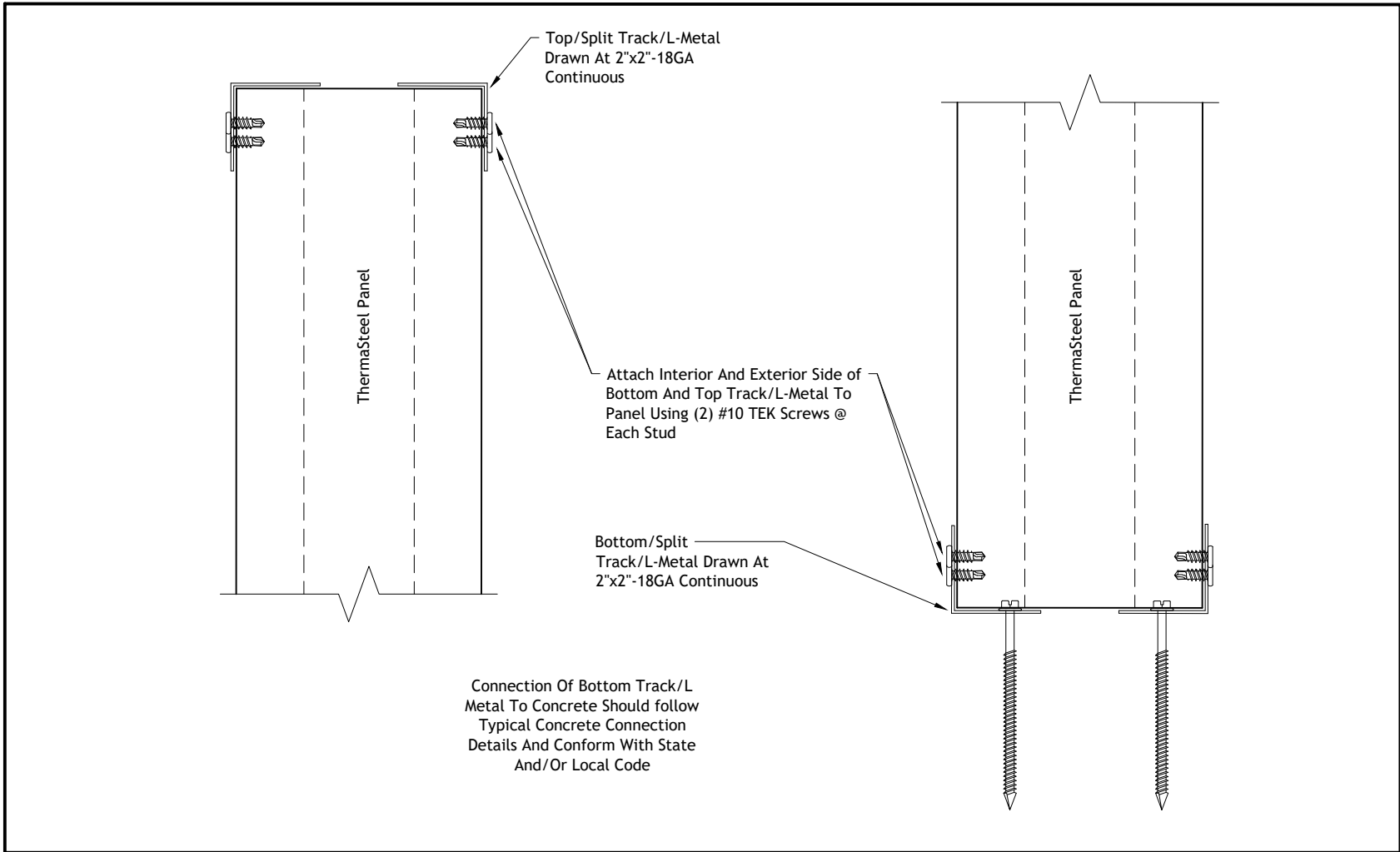
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel Hold Downs And Track Connections</b>	
	Typical Top And Bottom Panel To Split Track Connection	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>PD-015</b>	



**Panel Hold Downs And Track Connections**

**Typical Split Top And Bottom Track Connection**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>PD-016</b>



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel Hold Downs And Track Connections</b>	
	Typical Split Top And Bottom Track Connection Alternative	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>PD-017</b>

## 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

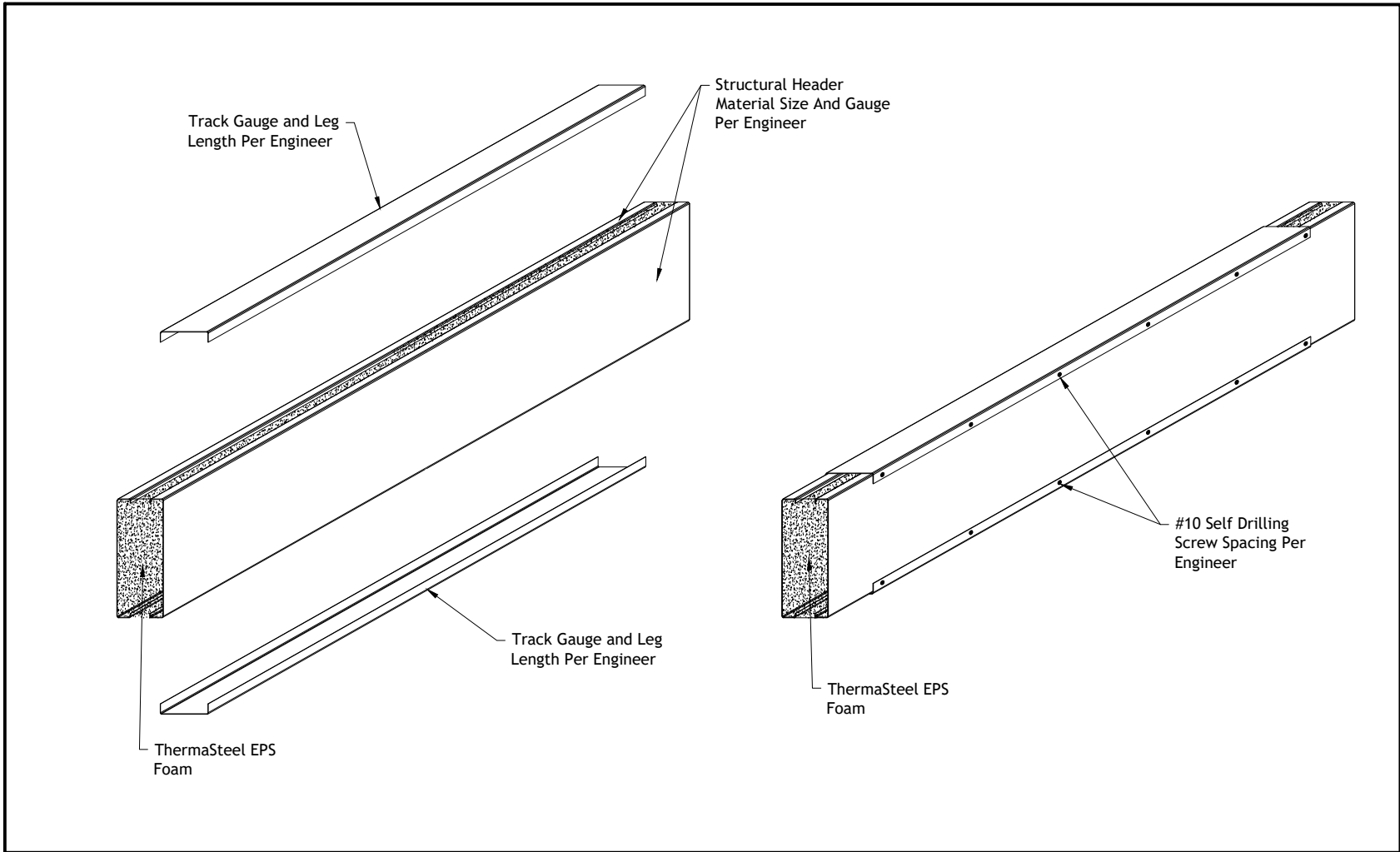
HS-005 Combo Header Panels Detail


HS-006 Header Panel Detail

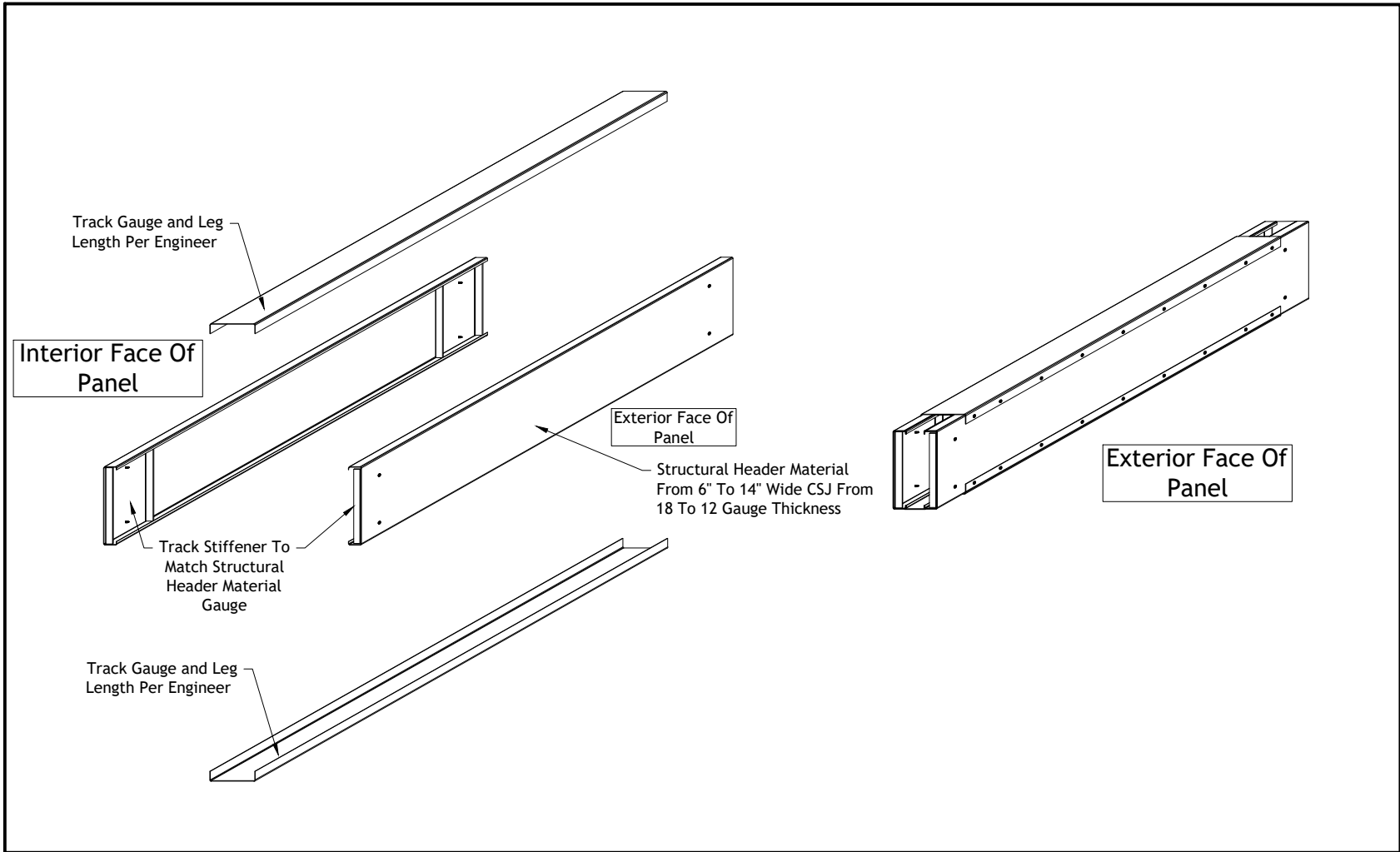
HS-007 Sill Panel Detail


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

HS-009 Typical Garage/Large Opening Header

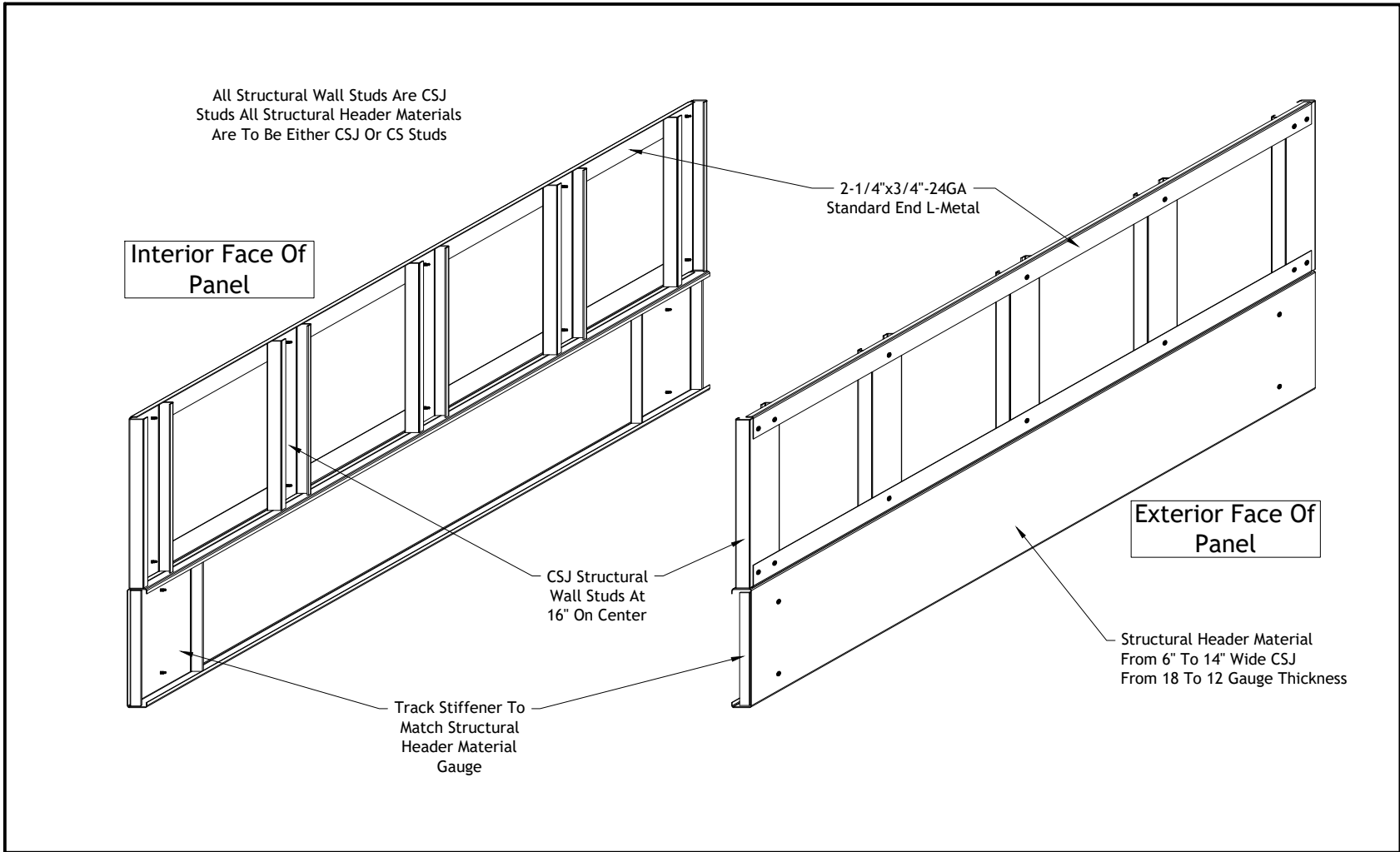


 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Headers And Sills</b>	
	Typical Header/Boxed Beam	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>HS-001</b>



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

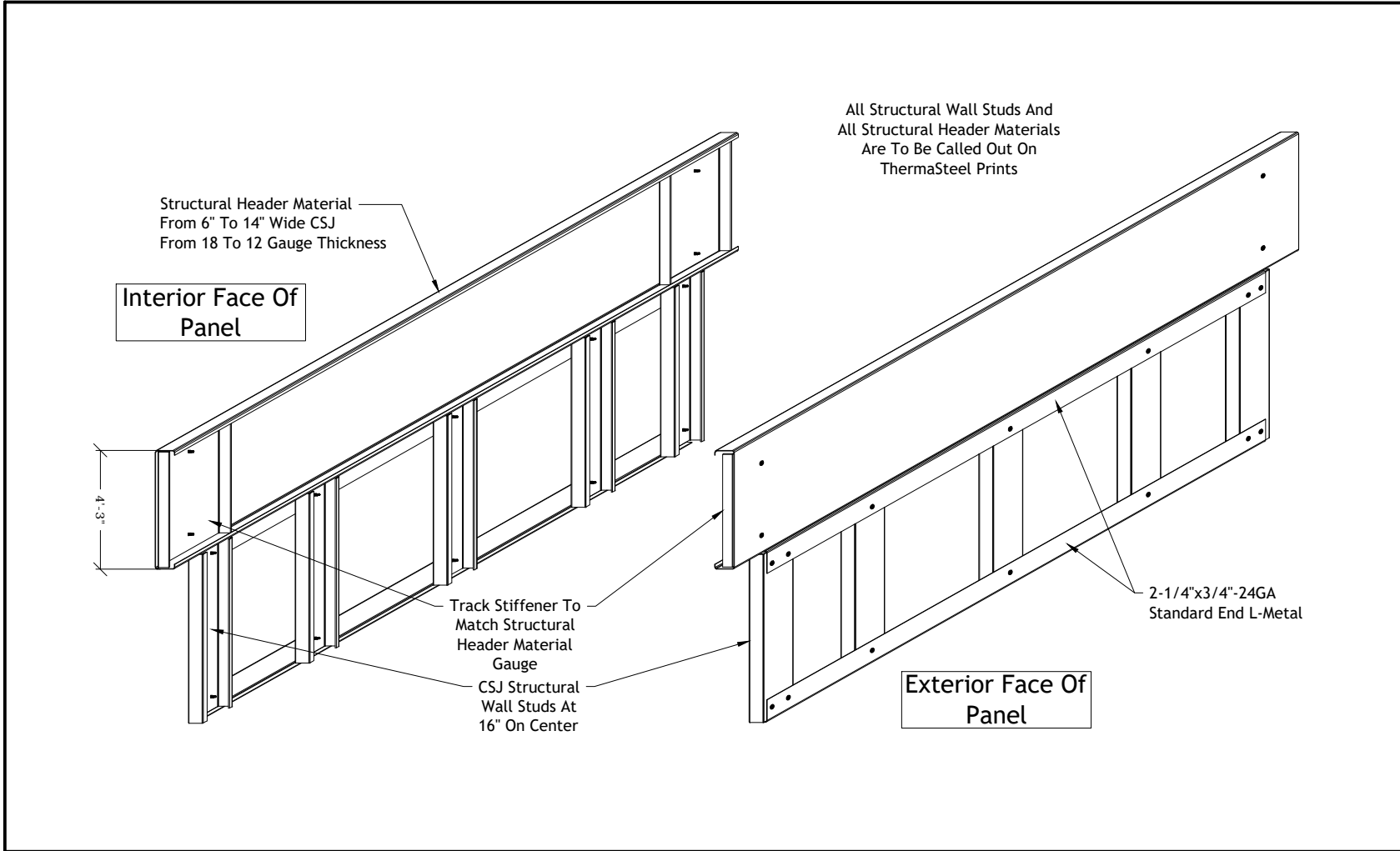




**Headers And Sills**

**Typical Bottom Chord Structural  
Combination Header**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HS-003</b>

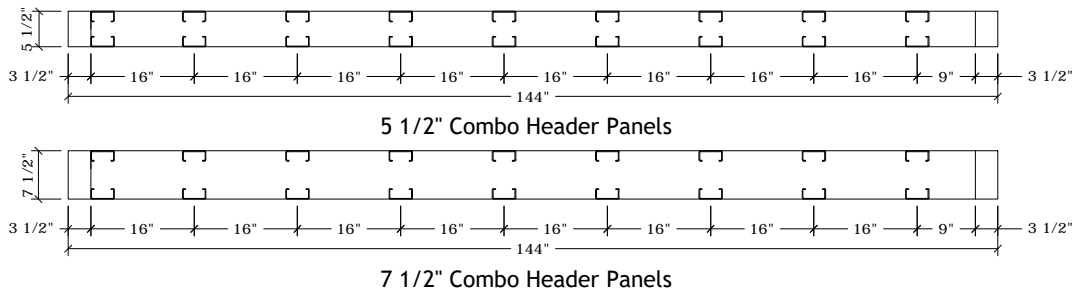
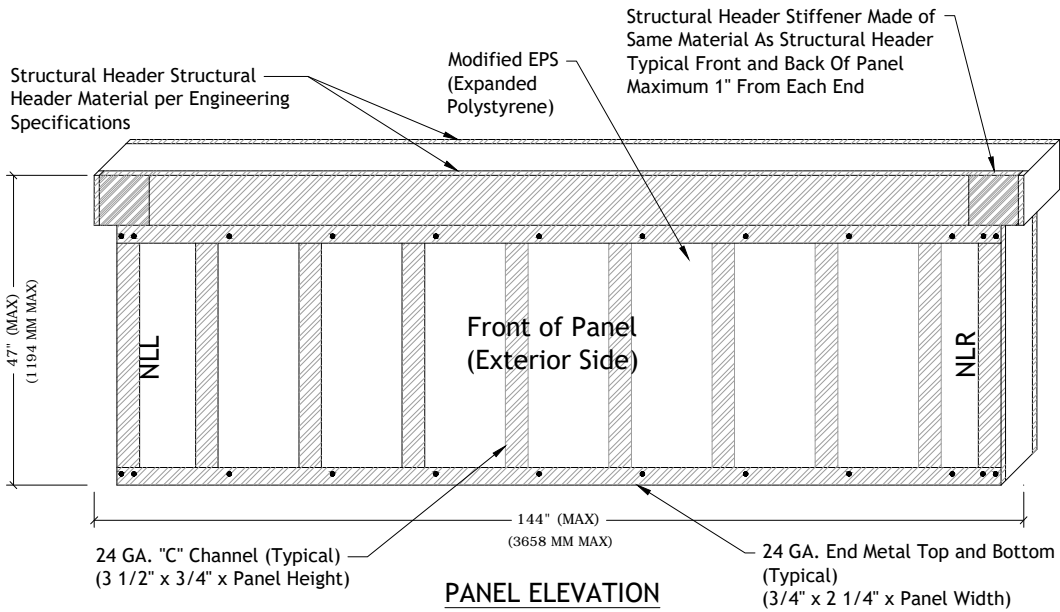


**Headers And Sills**

**Typical Top Chord Structural Combination Header**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>HS-004</b>

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)

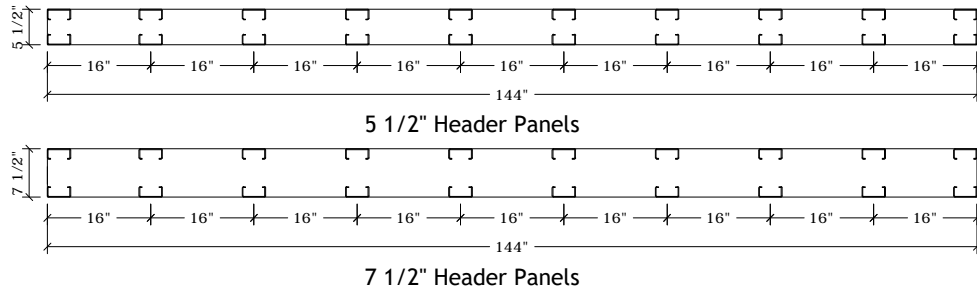
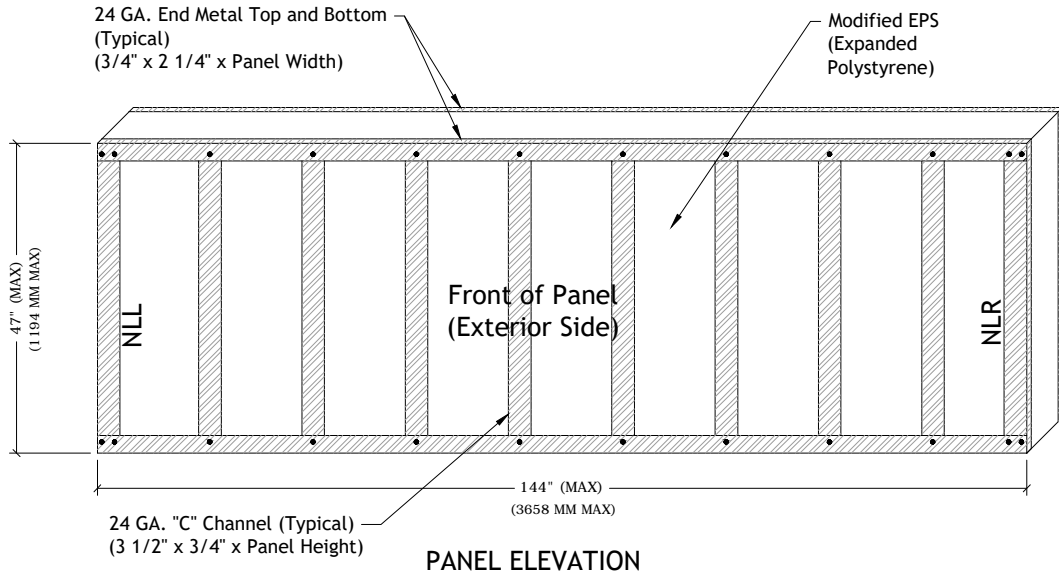


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ADVANCED PANEL SYSTEMS

**Headers And Sills**

**Combo Header Panels  
Detail**

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**HS-005**



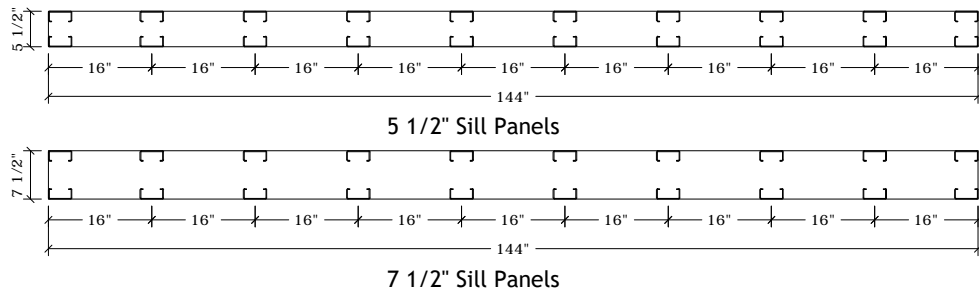
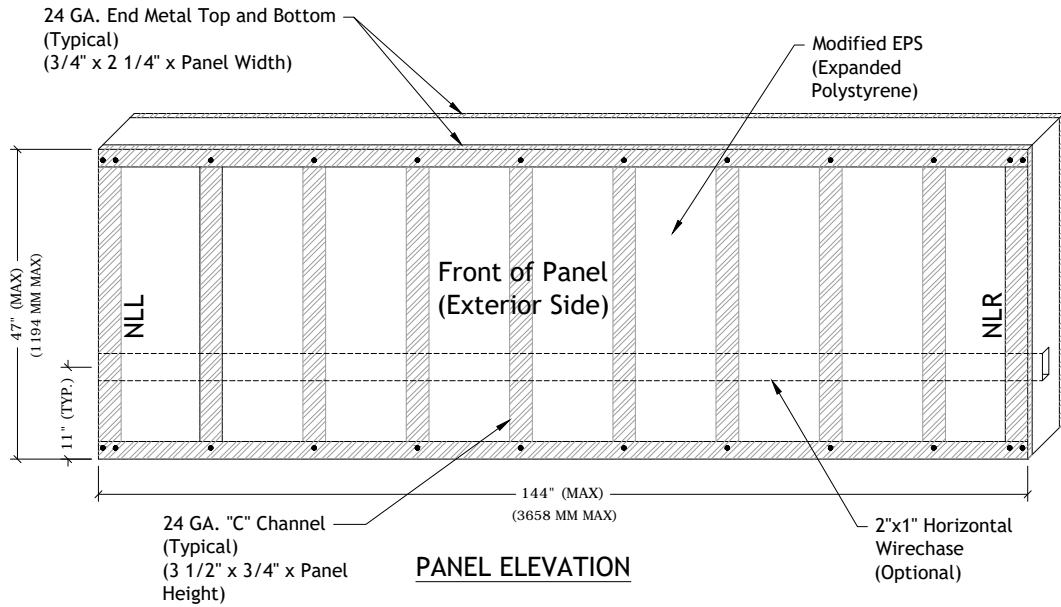
FOR ALL PANEL THICKNESSES  
 (ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)  
 (WIRE CHASES NOT TYPICAL ON THIS PANEL, INSTALLED UPON REQUEST)



**Headers And Sills**

**Header Panels Detail**

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



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

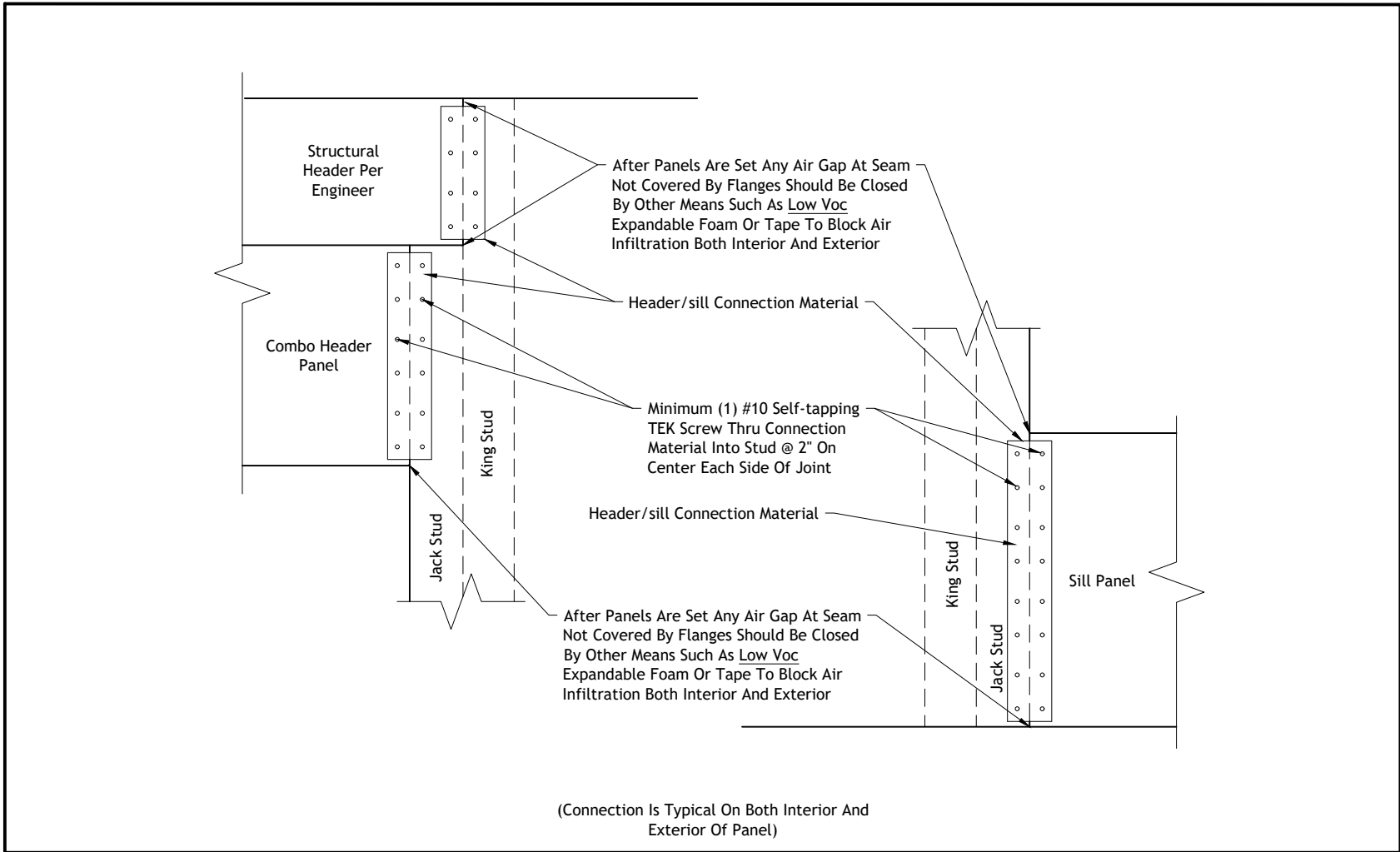



**THERMASTEEL**<sup>TM</sup>  
ADVANCED PANEL SYSTEMS

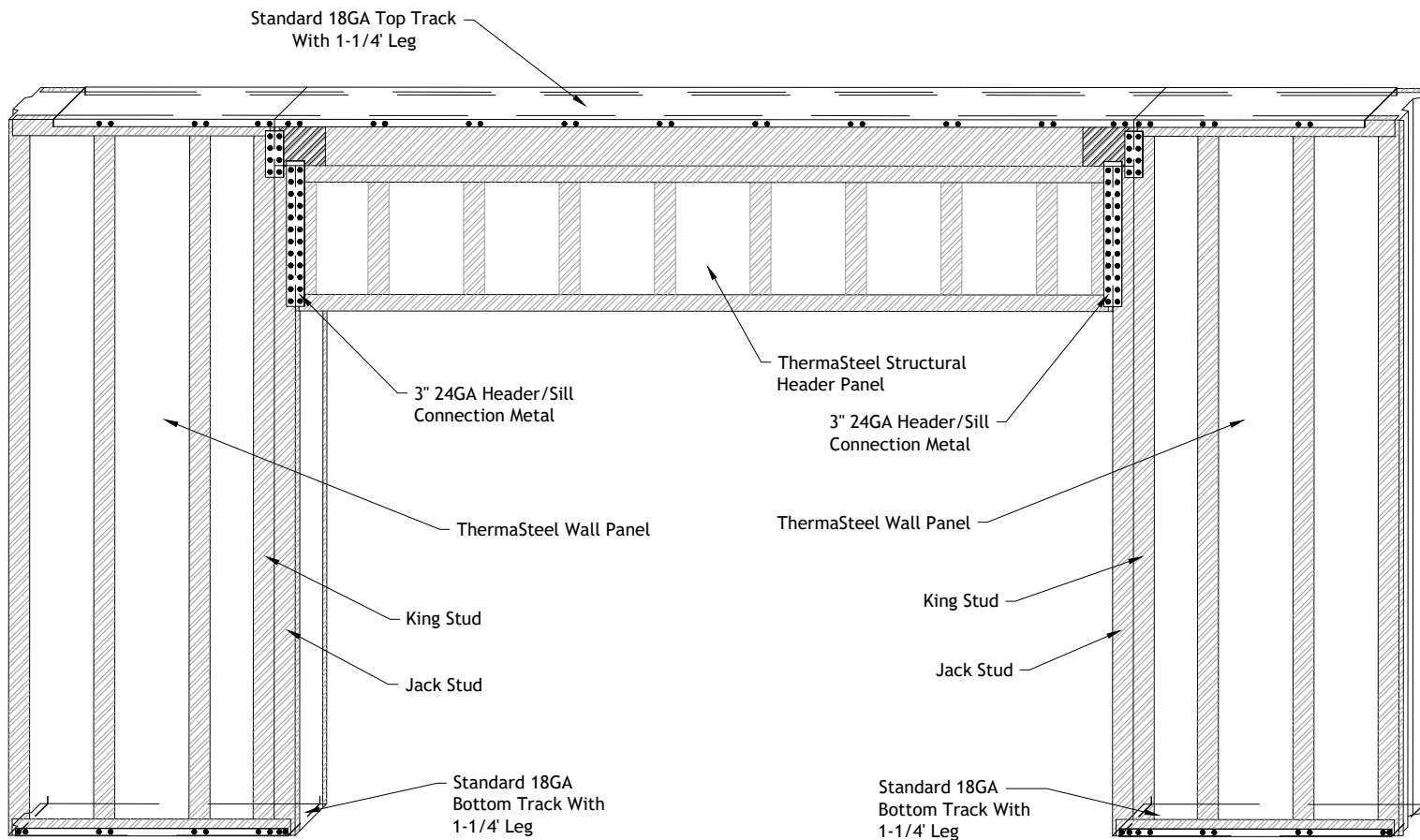
**Headers And Sills**

**Sill Panels Detail**

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



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Headers And Sills</b>	
	Typical Connection Of Header/Sill To Wall Panel	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>HS-008</b>	



**Headers And Sills**

**Typical Garage/Large Opening Header**

Not To Scale  
 Rev: 11/30/2021  
 Drawing Number  
**HS-009**

## 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

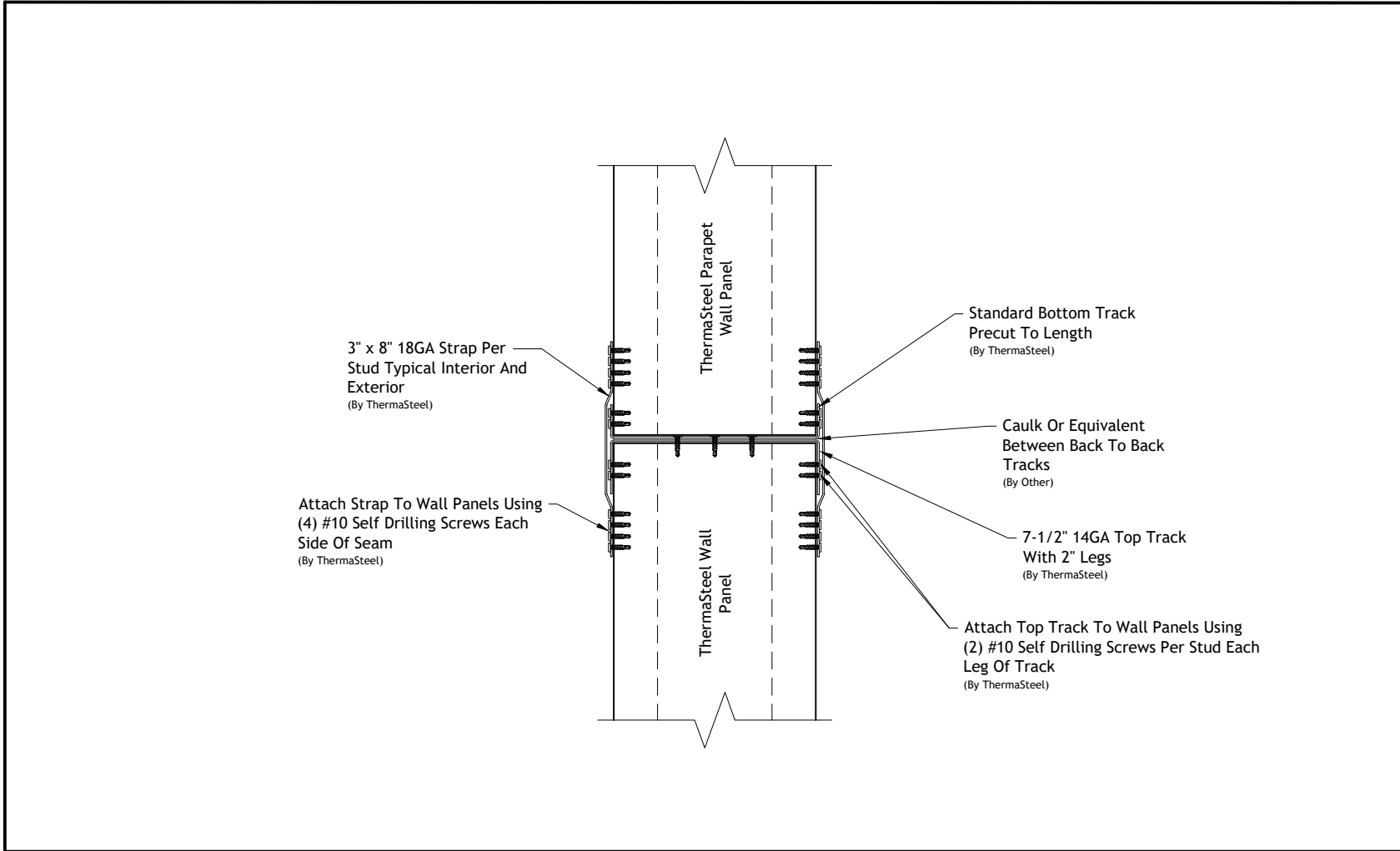
PP-005 Typical Panel To Panel 90° Corner Connection

PP-006 Typical Panel To Panel Joint Connection

PP-007 Typical Intersecting 3 1/2" Panel Connection

PP-008 Typical Panel To Panel Angled Corner Connection

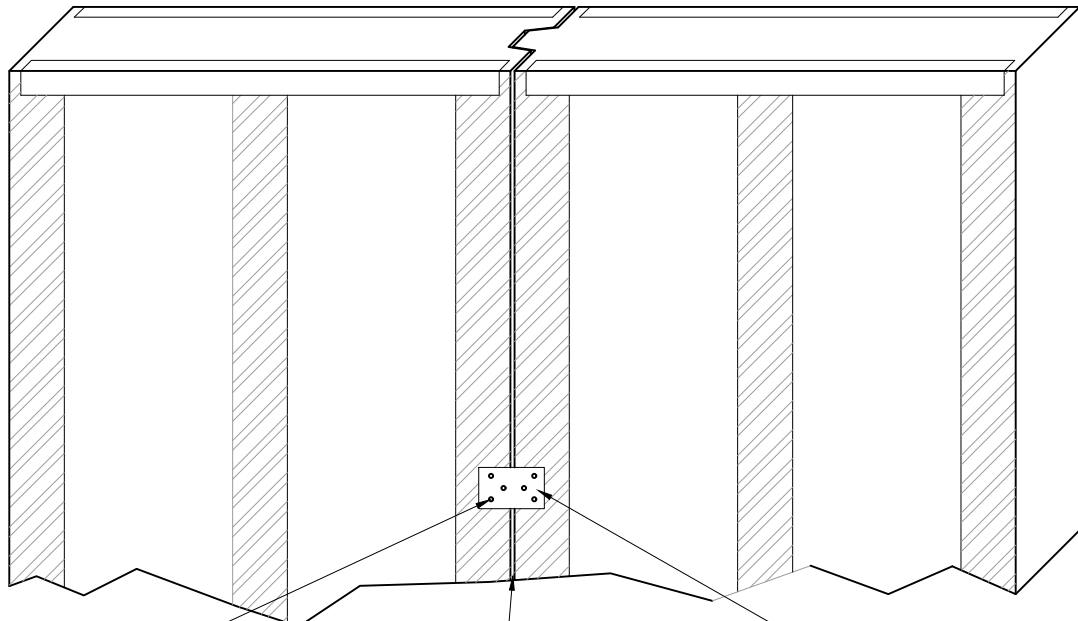




**Panel To Panel Connections**

**Typical Multi Level Panel Connection  
Section View**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>PP-001</b>



(6) #10 Self-tapping TEK  
Screw Thru Attachment  
Plate Into Stud (3) Each  
Side Of Joint

After Panels Are Set Seal Each  
Interior Joint Between Panels  
With Low Voc Expandable  
Foam Like Great Stuff

(1) Attachment Plate  
About Half Way Up  
The Panel

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

(Connection Is Typical On Interior Of Panel Only)



**Panel To Panel Connections**

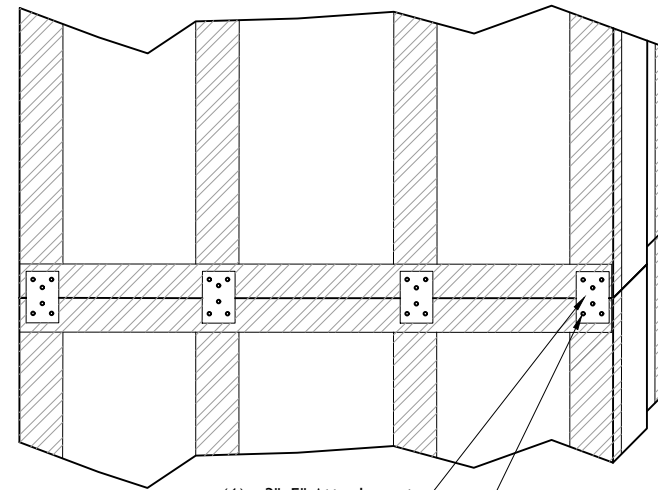
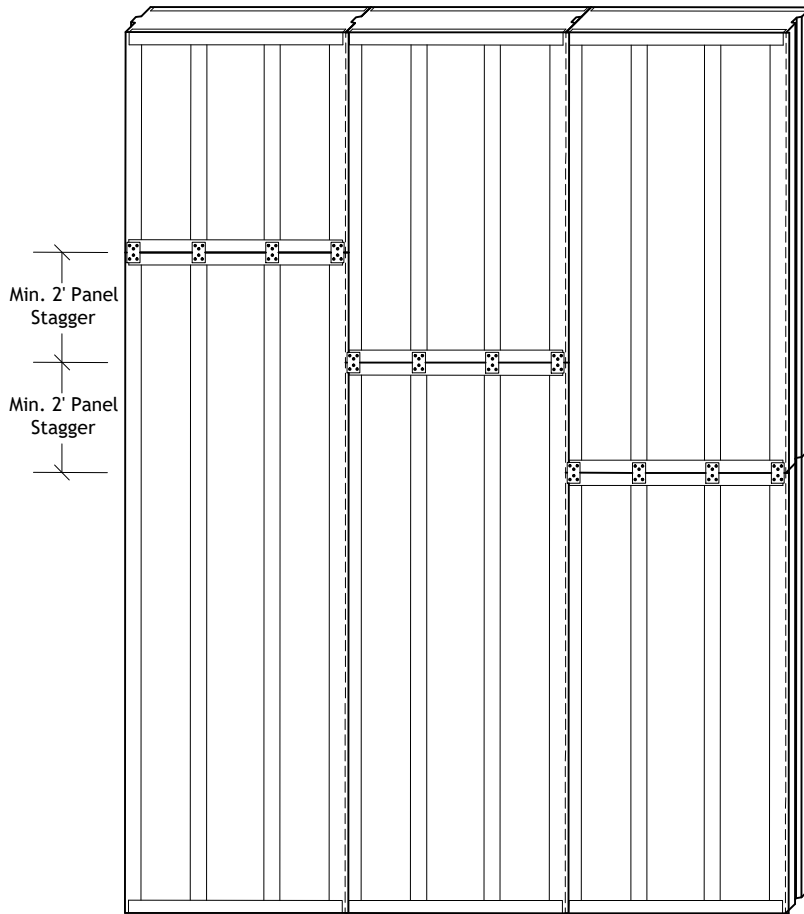
**Typical Interior Attachment Plate Connection**

Not To Scale

Rev: 11/30/2021

Drawing Number

**PP-002**



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

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

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



**Panel To Panel Connections**

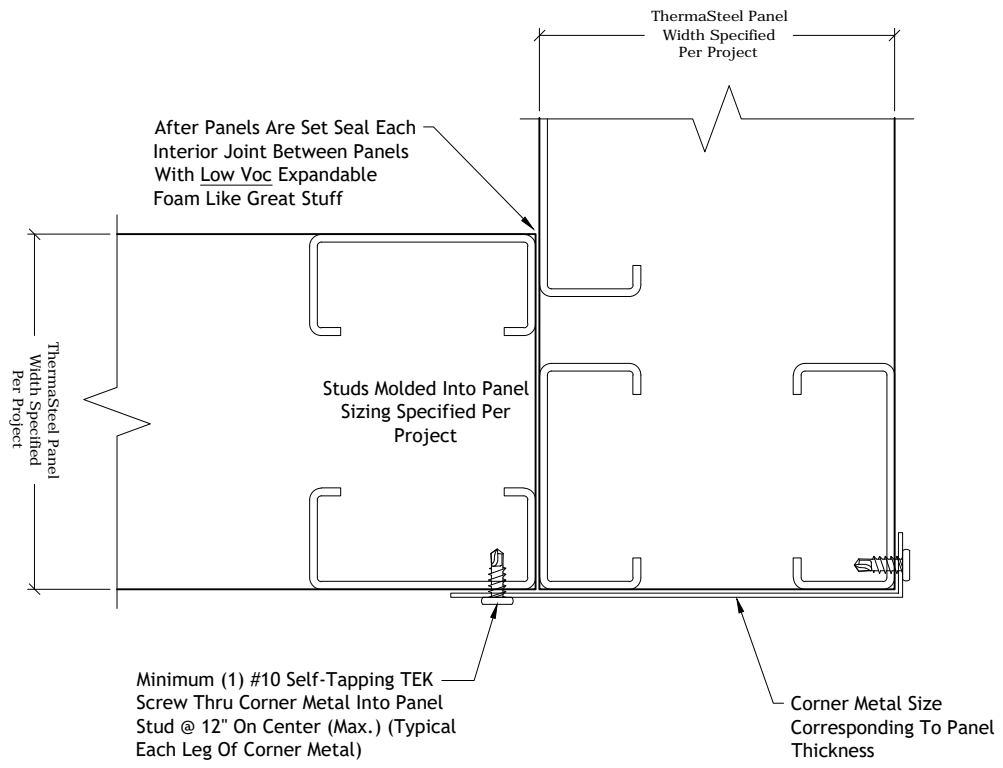
**Typical Staggered Panel/Multi-Panel Connection**

Not To Scale

Rev: 11/30/2021

Drawing Number

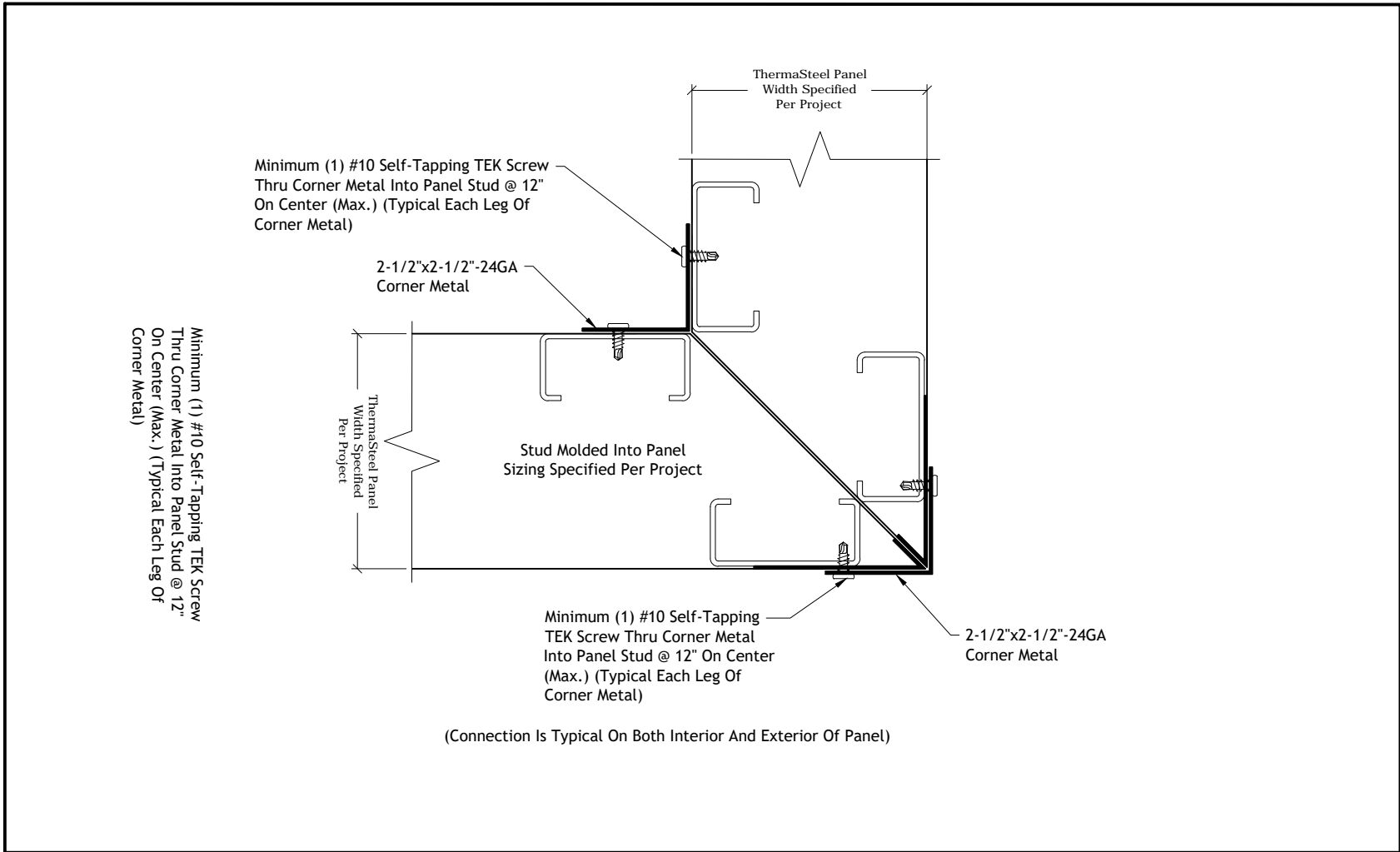
**PP-003**




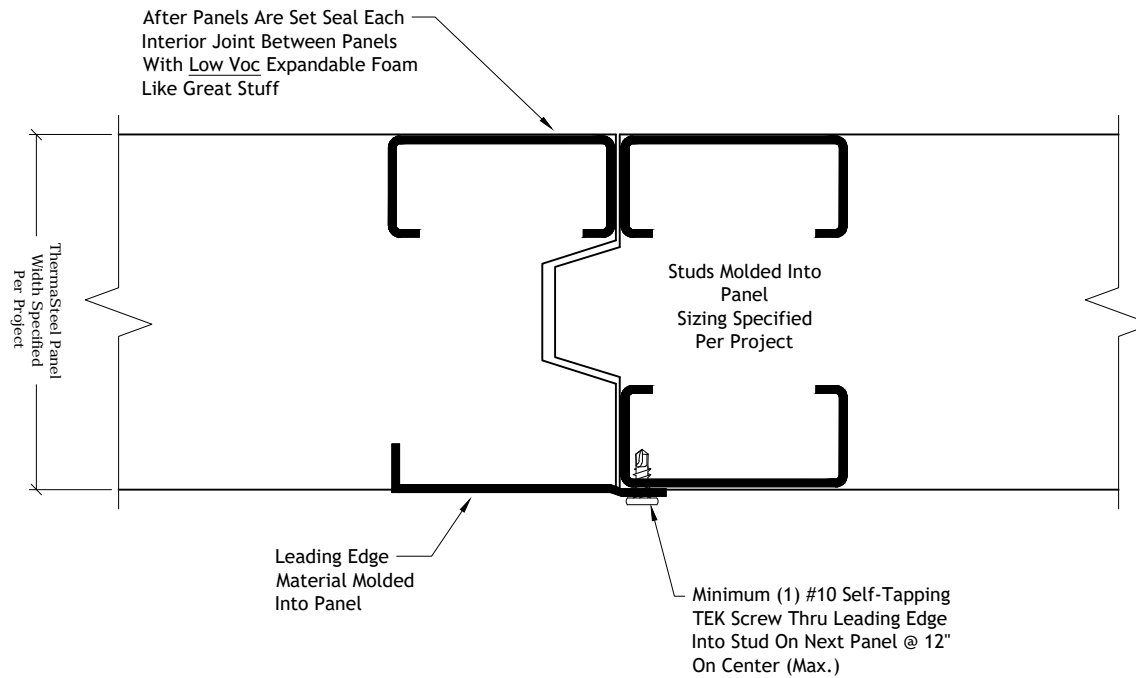
**Panel To Panel Connections**

**Typical Panel To Panel No Lap Corner Connection**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>PP-004</b>



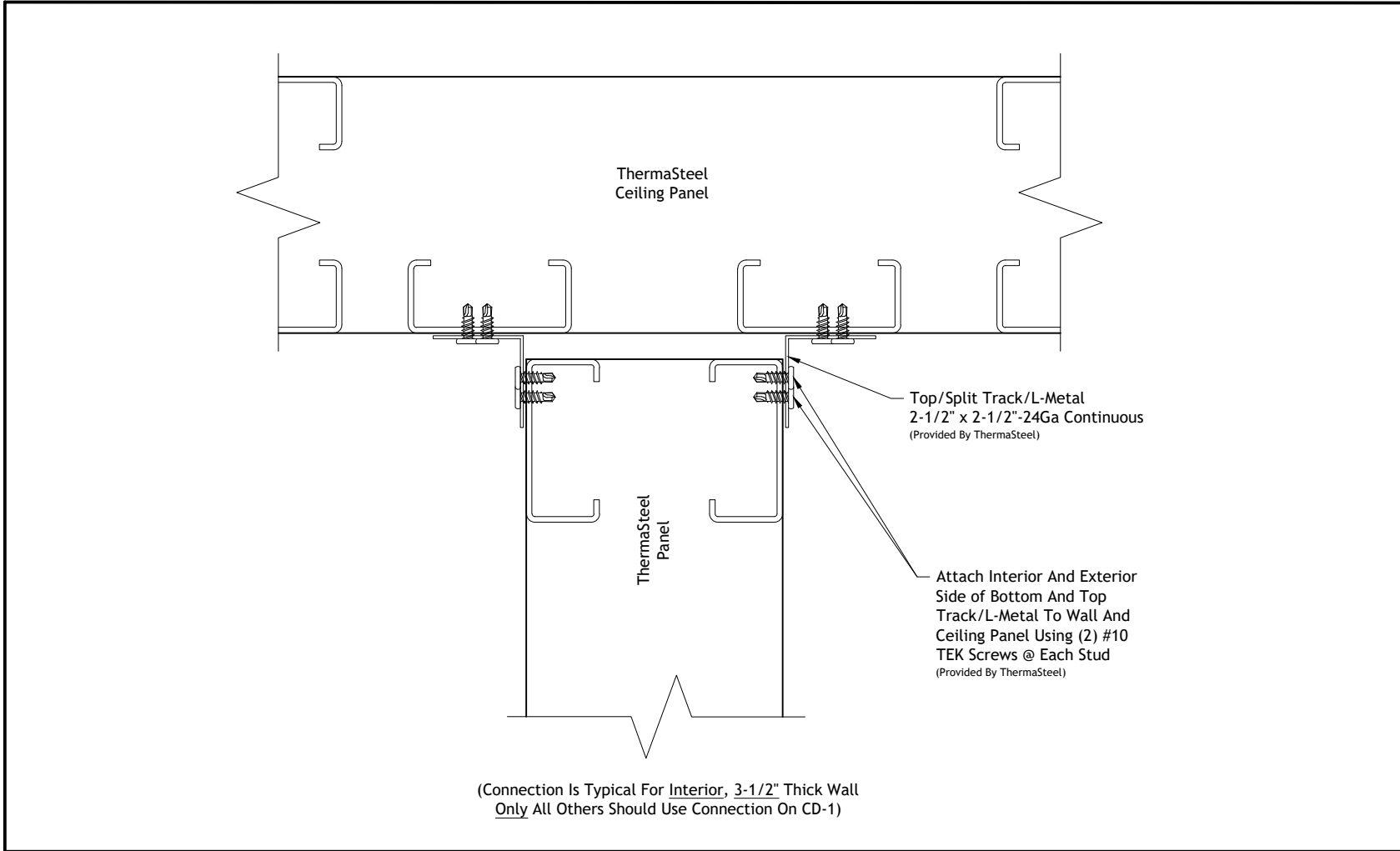
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel To Panel Connections</b>	
	Typical Panel To Panel 90° Corner Connection	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>PP-005</b>




**Panel To Panel Connections**

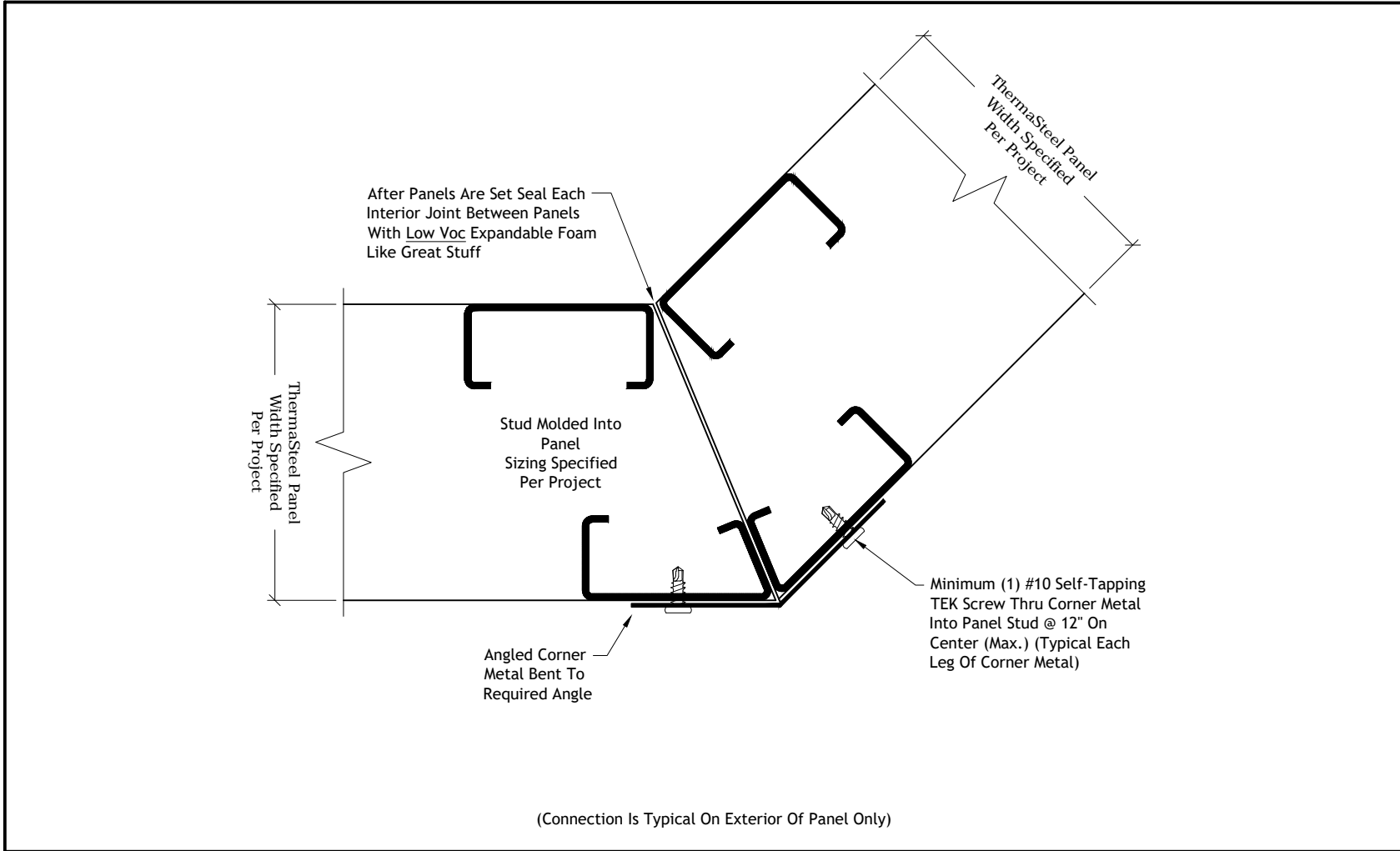
**Typical Panel To Panel Joint Connection**


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



(Connection Is Typical For Interior, 3-1/2" Thick Wall Only All Others Should Use Connection On CD-1)

 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel To Panel Connections</b>				
	Typical Intersecting 3½" Panel Connection				
	<table border="1" style="width: 100%;"> <tr> <td style="text-align: right;">Not To Scale</td> </tr> <tr> <td style="text-align: right;">Rev: 11/30/2021</td> </tr> <tr> <td style="text-align: right;">Drawing Number</td> </tr> <tr> <td style="text-align: right;"><b>PP-007</b></td> </tr> </table>		Not To Scale	Rev: 11/30/2021	Drawing Number
Not To Scale					
Rev: 11/30/2021					
Drawing Number					
<b>PP-007</b>					

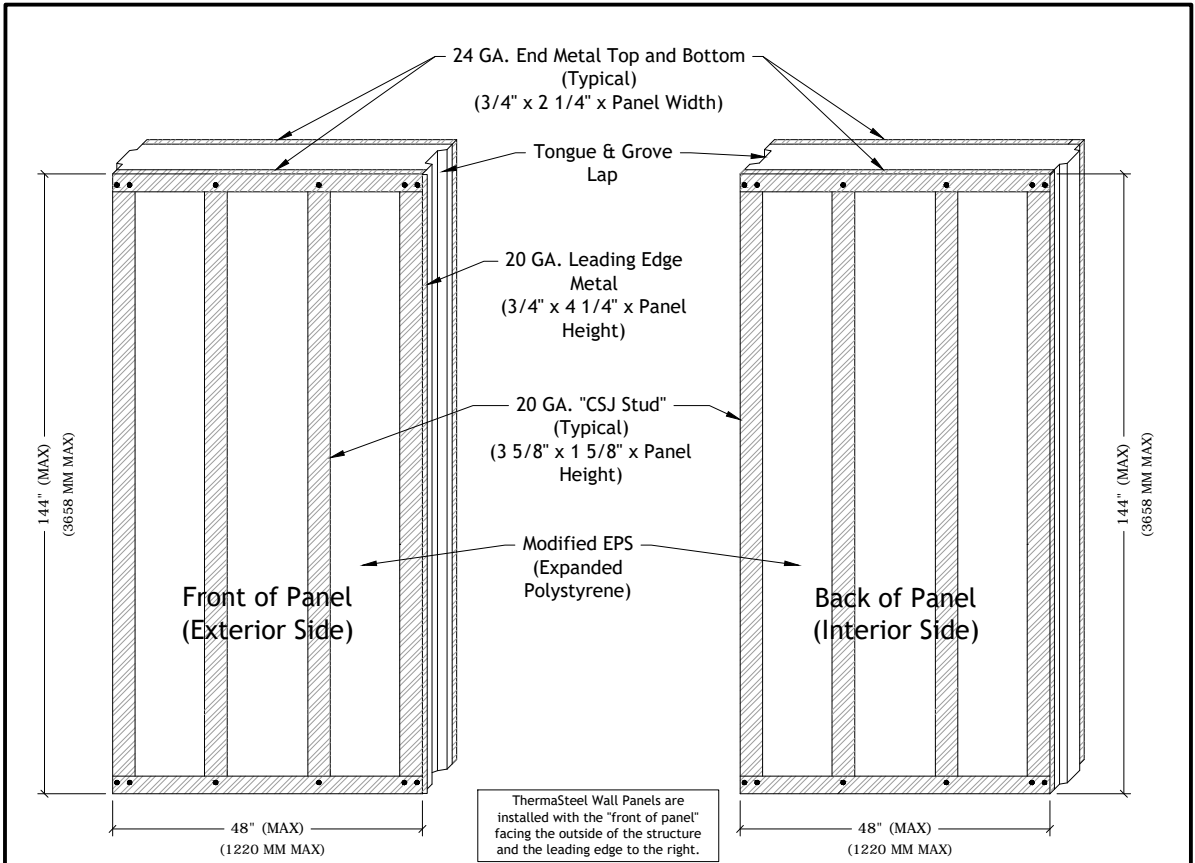


 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Panel To Panel Connections</b>	
	Typical Panel To Panel Angled Corner Connection	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>PP-008</b>

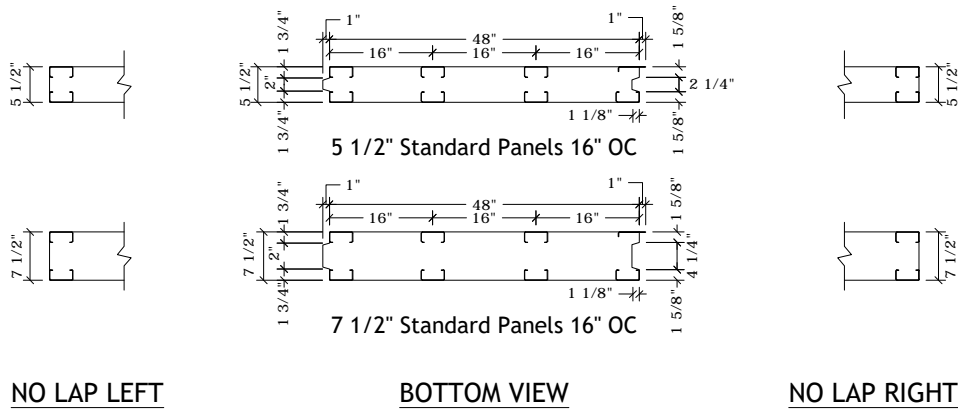


## Roof Connections


- 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



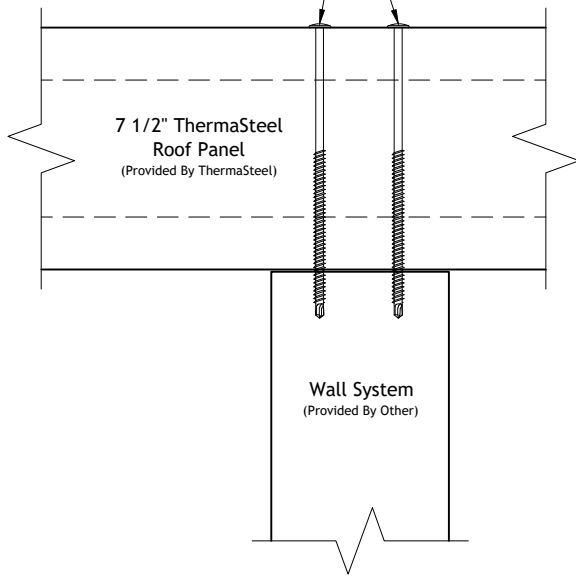
**PANEL ELEVATION**



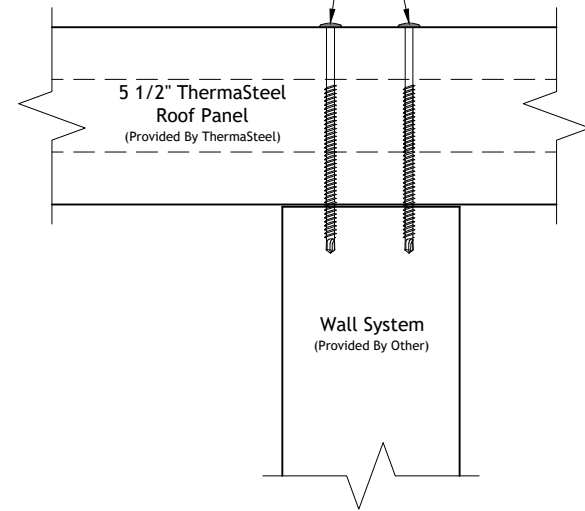
FOR ALL PANEL THICKNESSES  
 (ALL DIMENSIONS TAKEN FROM EXTERIOR SURFACE)  
 (WIRE CHASES NOT TYPICAL ON THIS PANEL, INSTALLED UPON REQUEST)

 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Roof Connections</b>	
	Standard Roof Panel Detail	Not To Scale Rev: 11/30/2021 Drawing Number <b>RC-001</b>

Attach Roof Panels To Wall System Using  
 (2) TruFast Light Gauge Attachment Screw  
 (SIPLD-9000) Per Stud Or At 16" On Center  
 (Provided By ThermaSteel)



Attach Roof Panels To Wall System Using  
 (2) TruFast Light Gauge Attachment Screw  
 (SIPLD-7000) Per Stud Or At 16" On Center  
 (Provided By ThermaSteel)



**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

**Roof Connections**

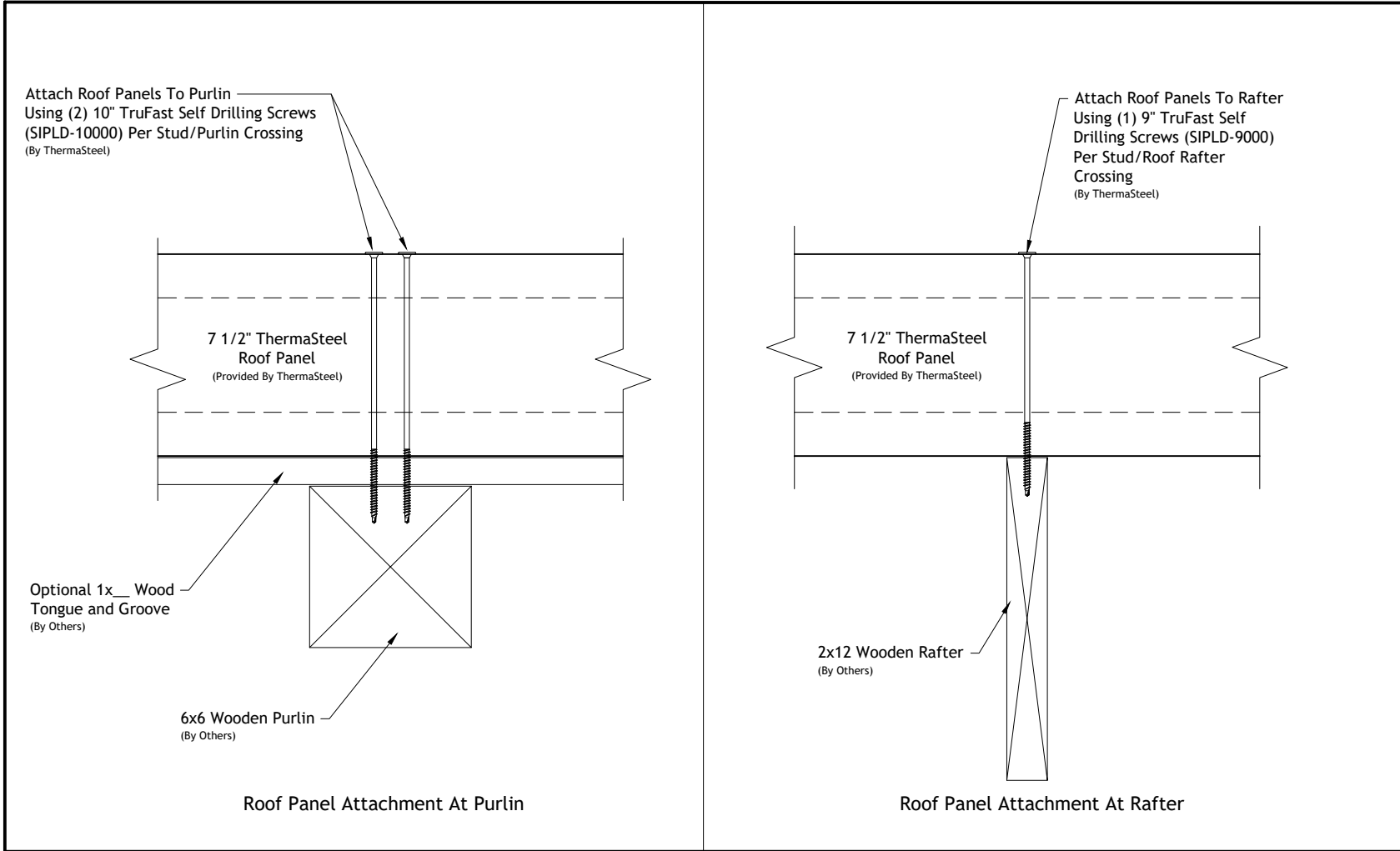
**Typical Roof Panel To Wall System Connection  
 Section View**

Not To Scale

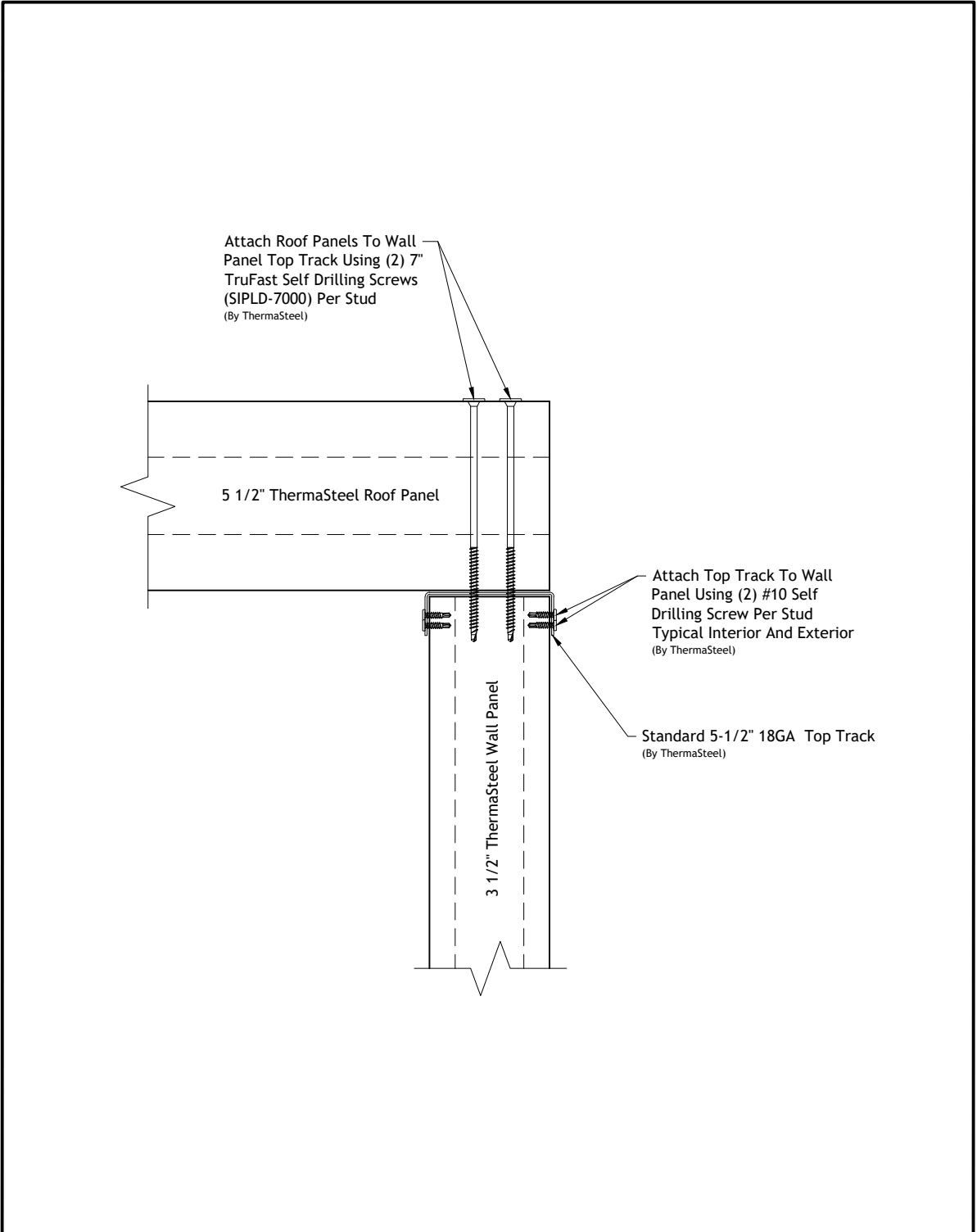
Rev: 11/30/2021

Drawing Number

**RC-002**



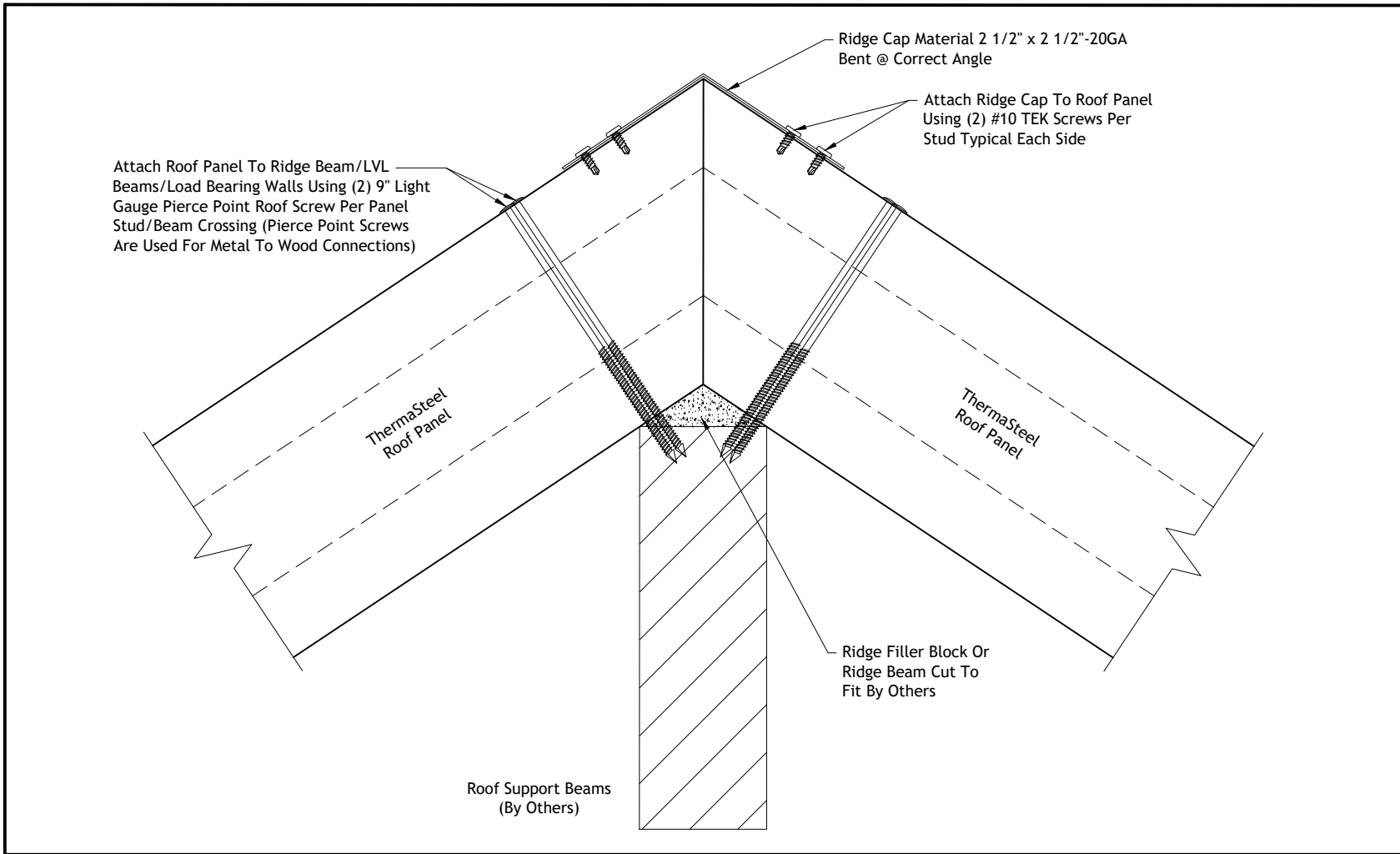
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Roof Connections</b>	
	Typical Roof Panel Connection At Purlin/Rafter Section View	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>RC-003</b>



**THERMASTEEL**<sup>TM</sup>  
 ADVANCED PANEL SYSTEMS

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

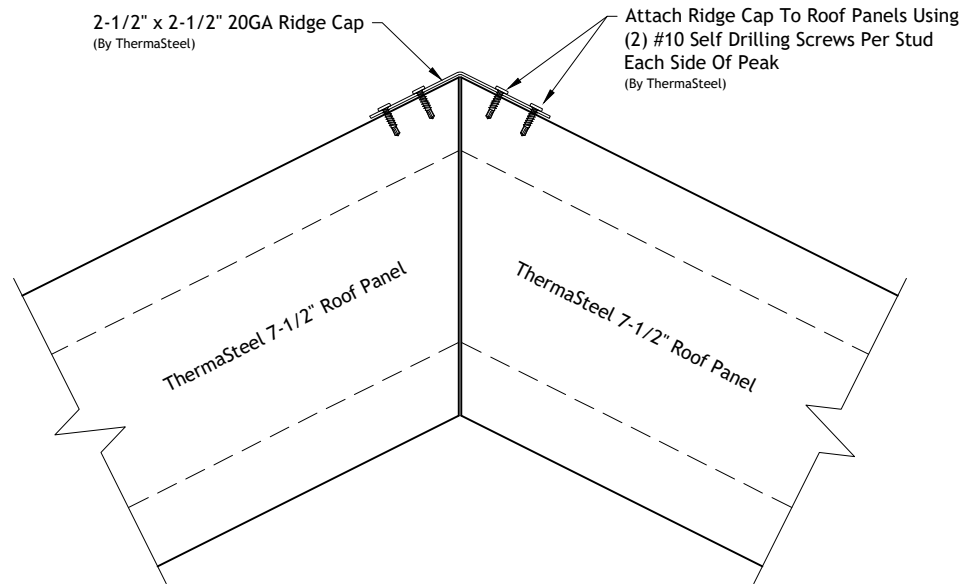
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-004</b>



**Roof Connections**

**Typical Roof Panel Connection At Ridge Beam  
Section View**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-005</b>

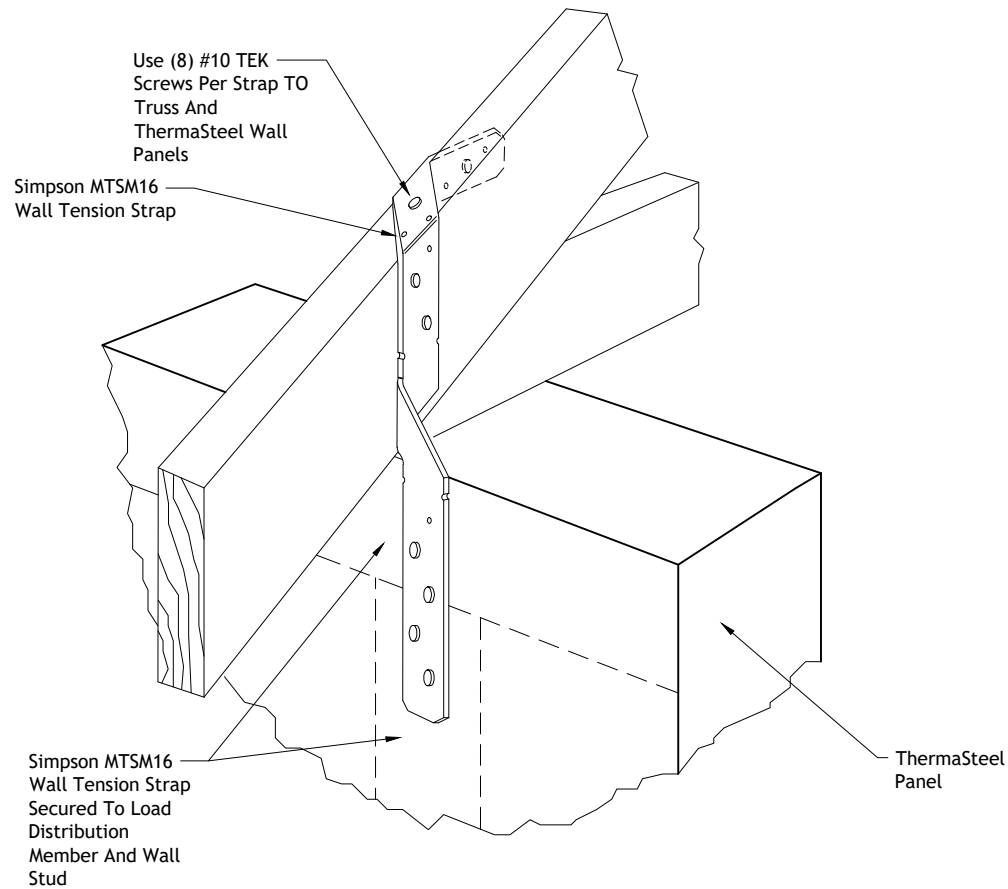


**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

**Roof Connections**

**Typical Ridge Cap Connection  
 Section View**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-006</b>

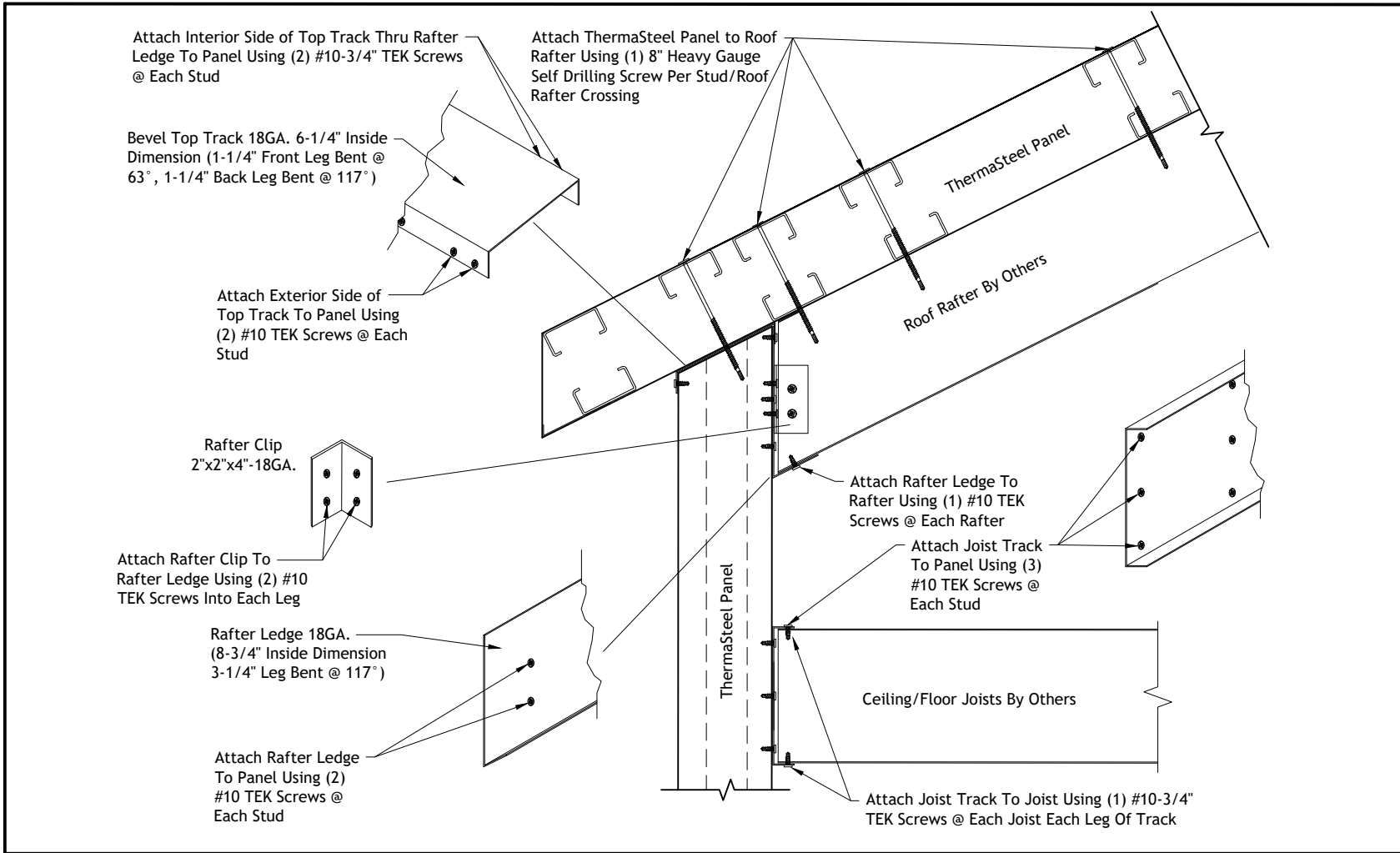


**Roof Connections**

**Typical Roof Truss/Simpson Strap To Panel Connection**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-007</b>

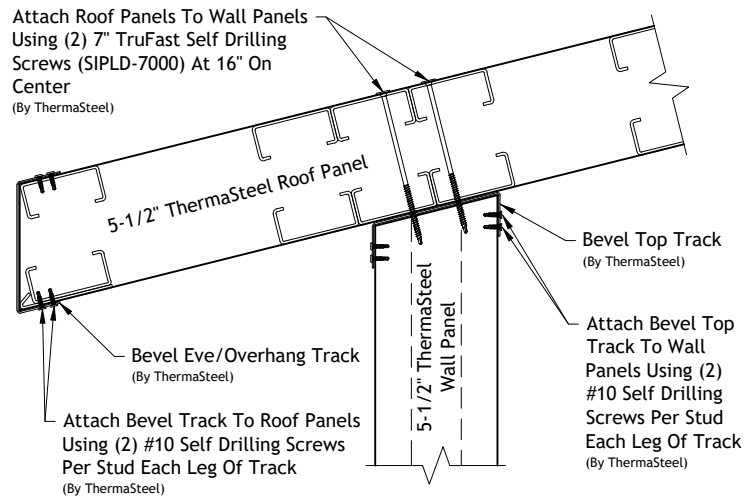




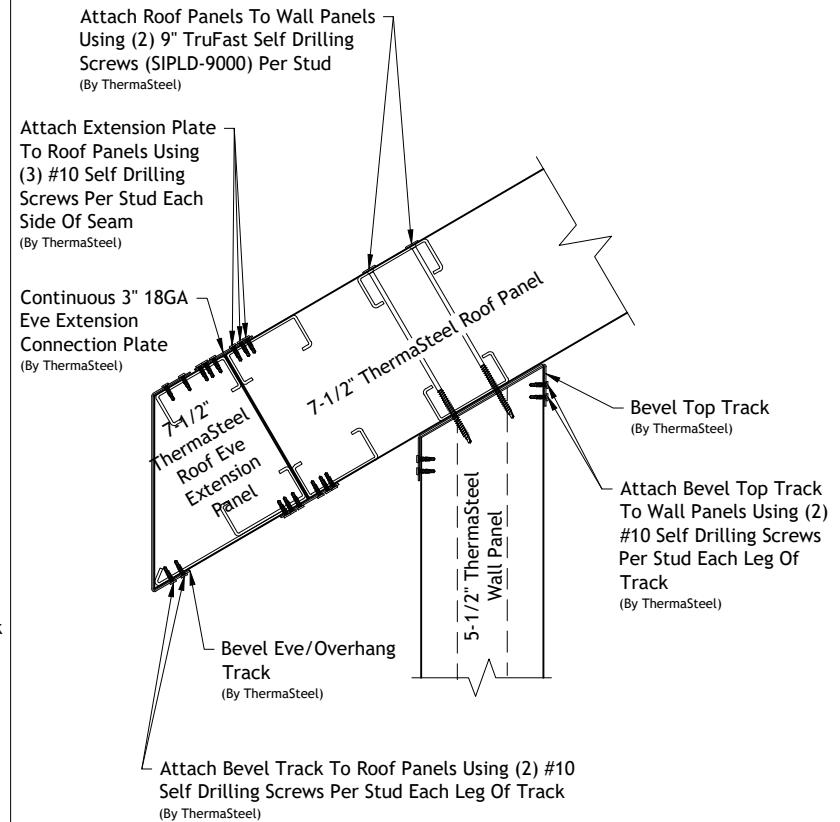
**Roof Connections**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-008</b>



Eve Overhang



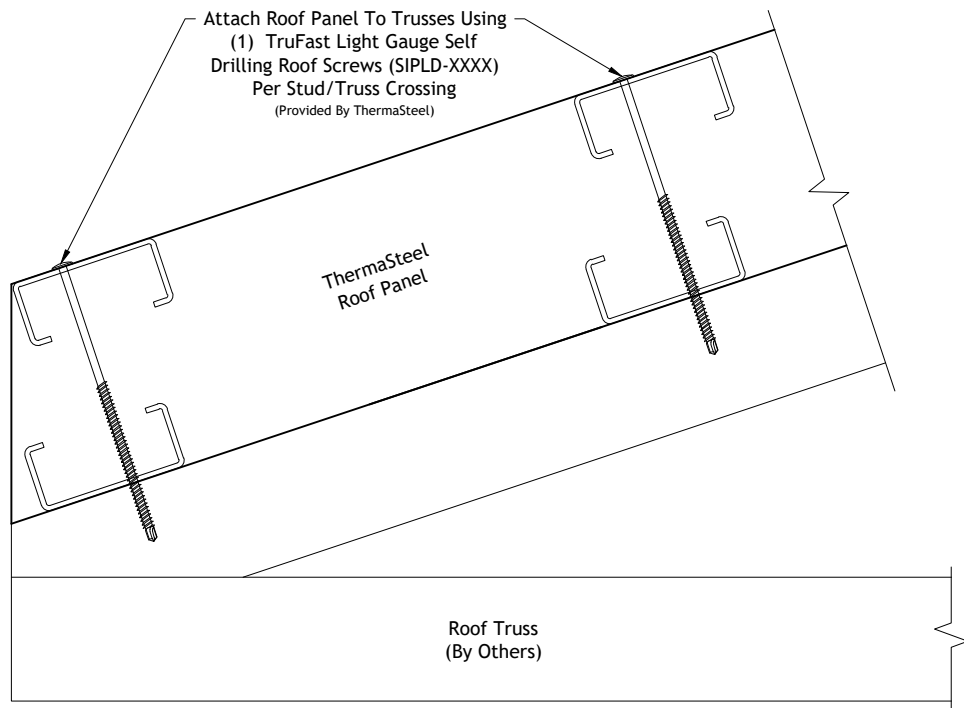
Roof Panel Eve Extension



**Roof Connections**

**Typical Overhang Of Roof Panel Connection Section View**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-009</b>

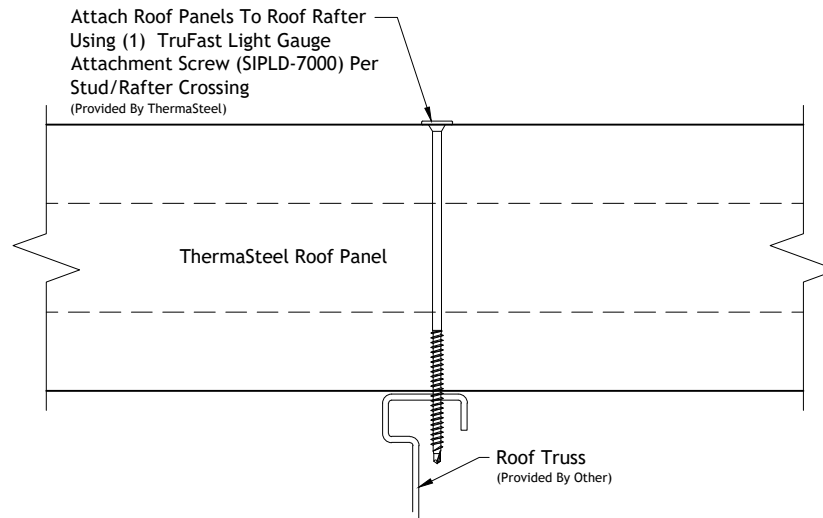


**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

**Roof Connections**  
 Typical Roof Panel To  
 Truss Connection  
 Section View

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-010</b>

Note: At Perimeter Of Roof  
 Attach Roof Panels To Roof Rafter Using  
 (2) TruFast Light Gauge Attachment Screw  
 (SIPLD-7000) Per Stud/Rafter Crossing  
 (Provided By ThermaSteel)



Roof Connections

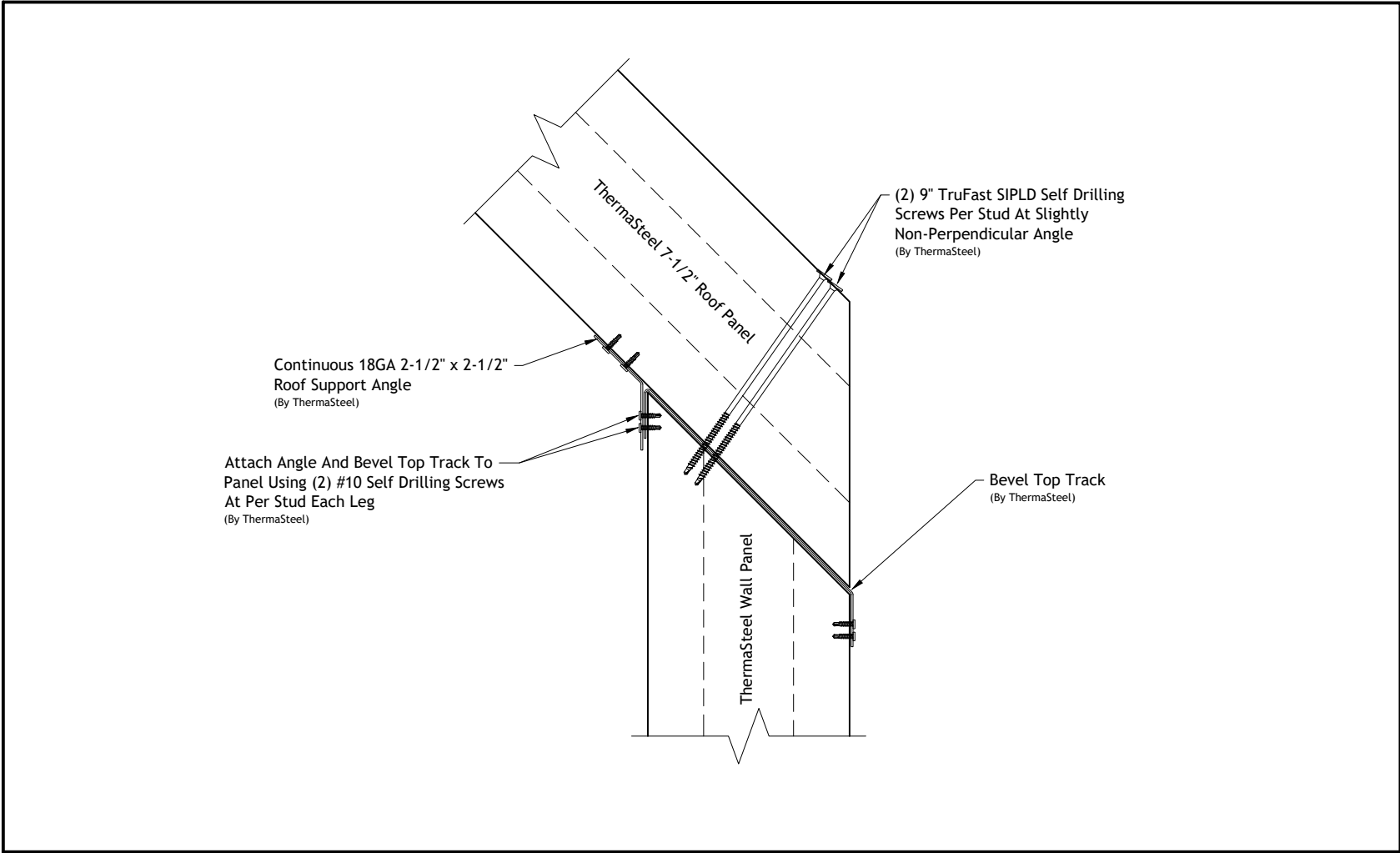
Typical Roof Panel To Metal Truss Connection  
 Section View

Not To Scale

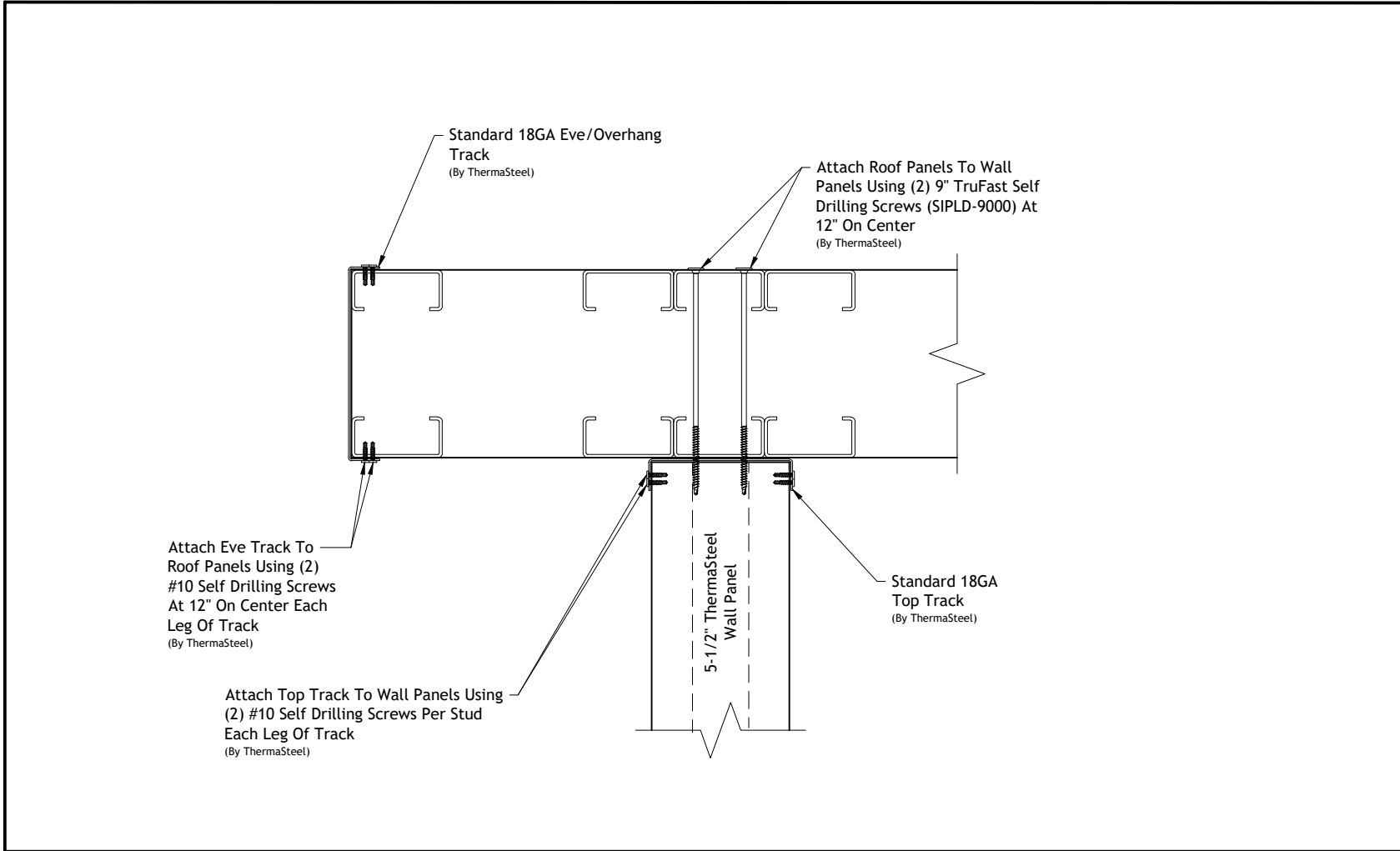
Rev: 11/30/2021

Drawing Number

RC-011



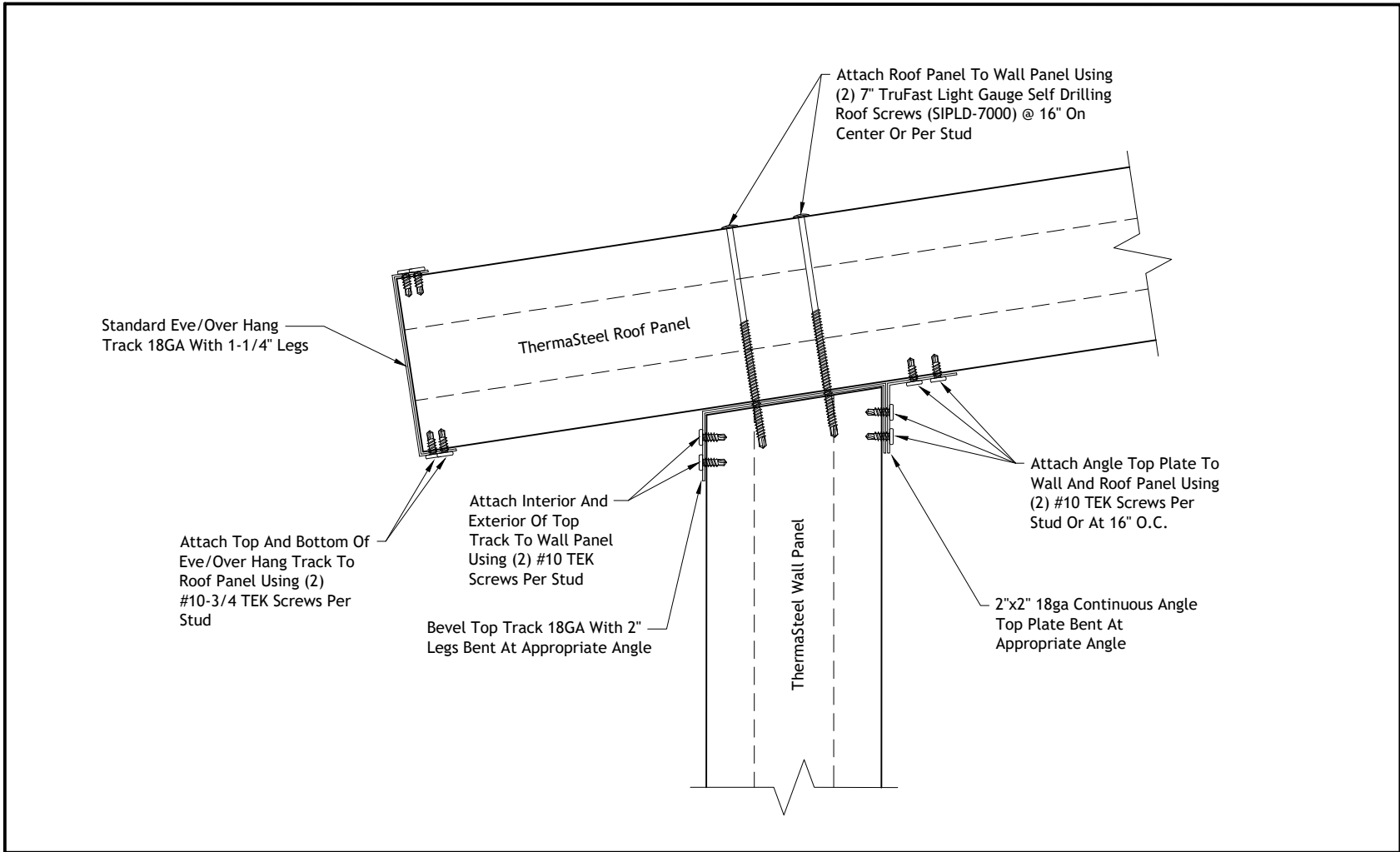
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Roof Connections</b>				
	Typical Wall To Flush Roof Panel Connection Section View				
	<table border="1"> <tr> <td>Not To Scale</td> </tr> <tr> <td>Rev: 11/30/2021</td> </tr> <tr> <td>Drawing Number</td> </tr> <tr> <td><b>RC-012</b></td> </tr> </table>		Not To Scale	Rev: 11/30/2021	Drawing Number
Not To Scale					
Rev: 11/30/2021					
Drawing Number					
<b>RC-012</b>					



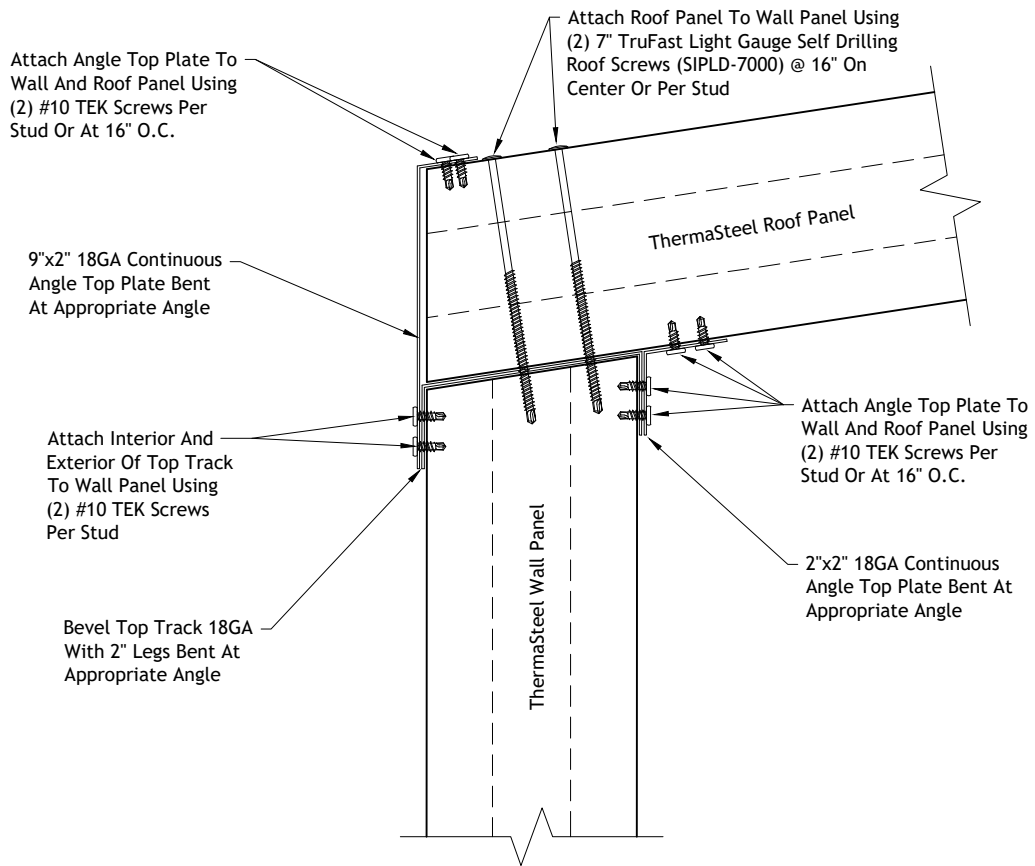
**Roof Connections**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-013</b>



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Roof Connections</b>	
	<b>Typical Roof Panel With Overhang And Reinforced Top Plate Connection, High Wind Speed - Section View</b>	
	Not To Scale Rev: 11/30/2021 Drawing Number <b>RC-014</b>	

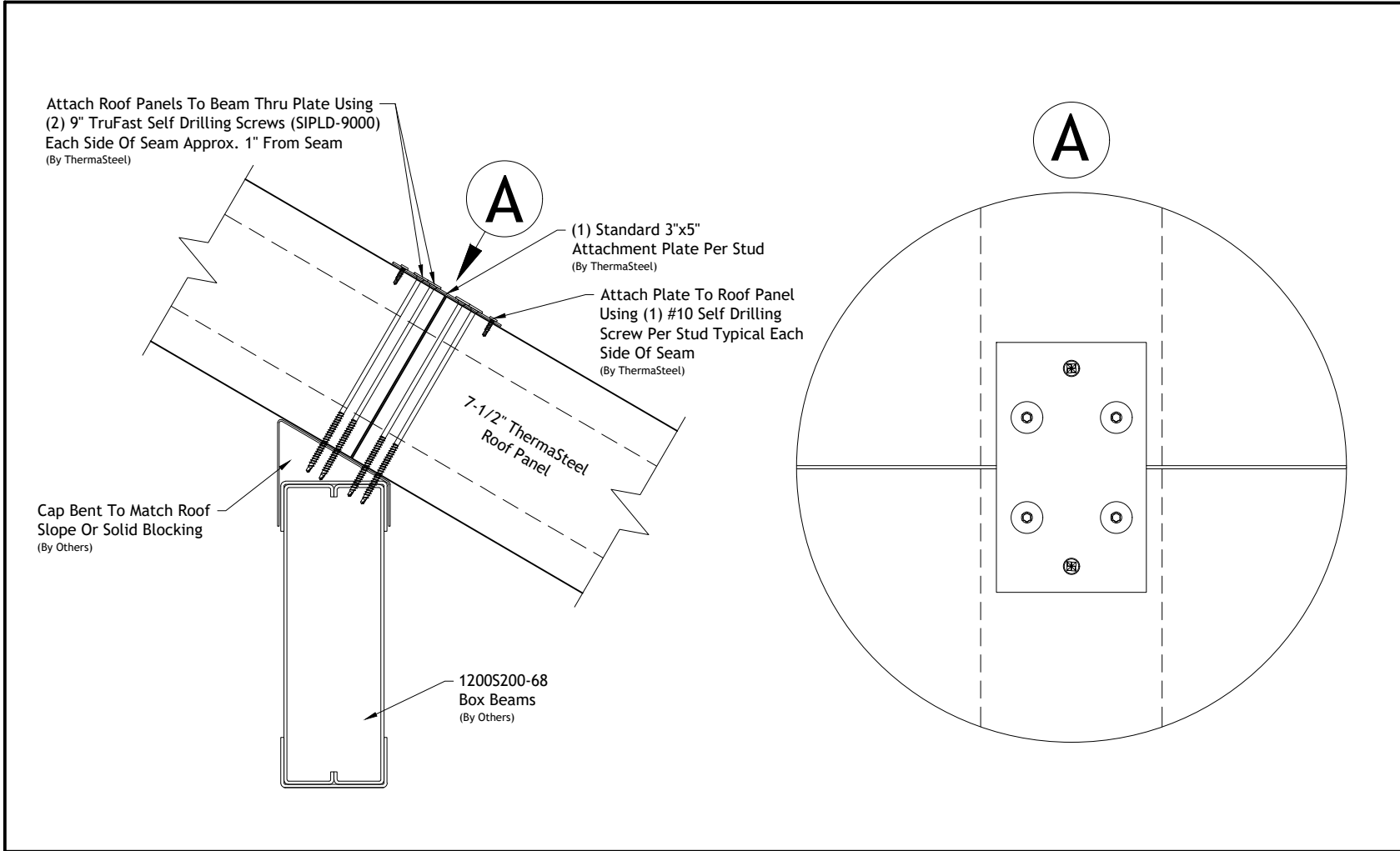


**Roof Connections**

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

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-015</b>

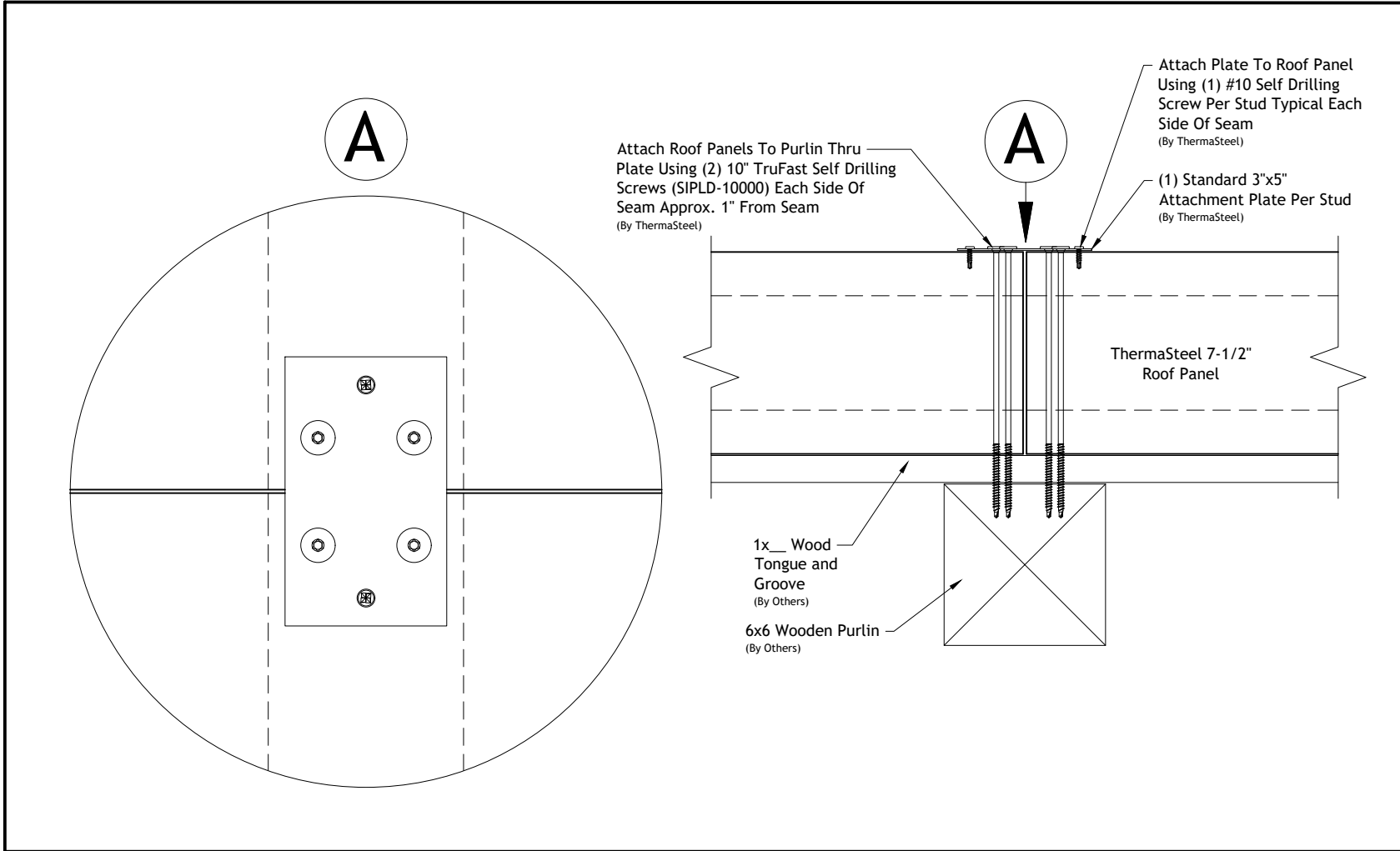




**Roof Connections**

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

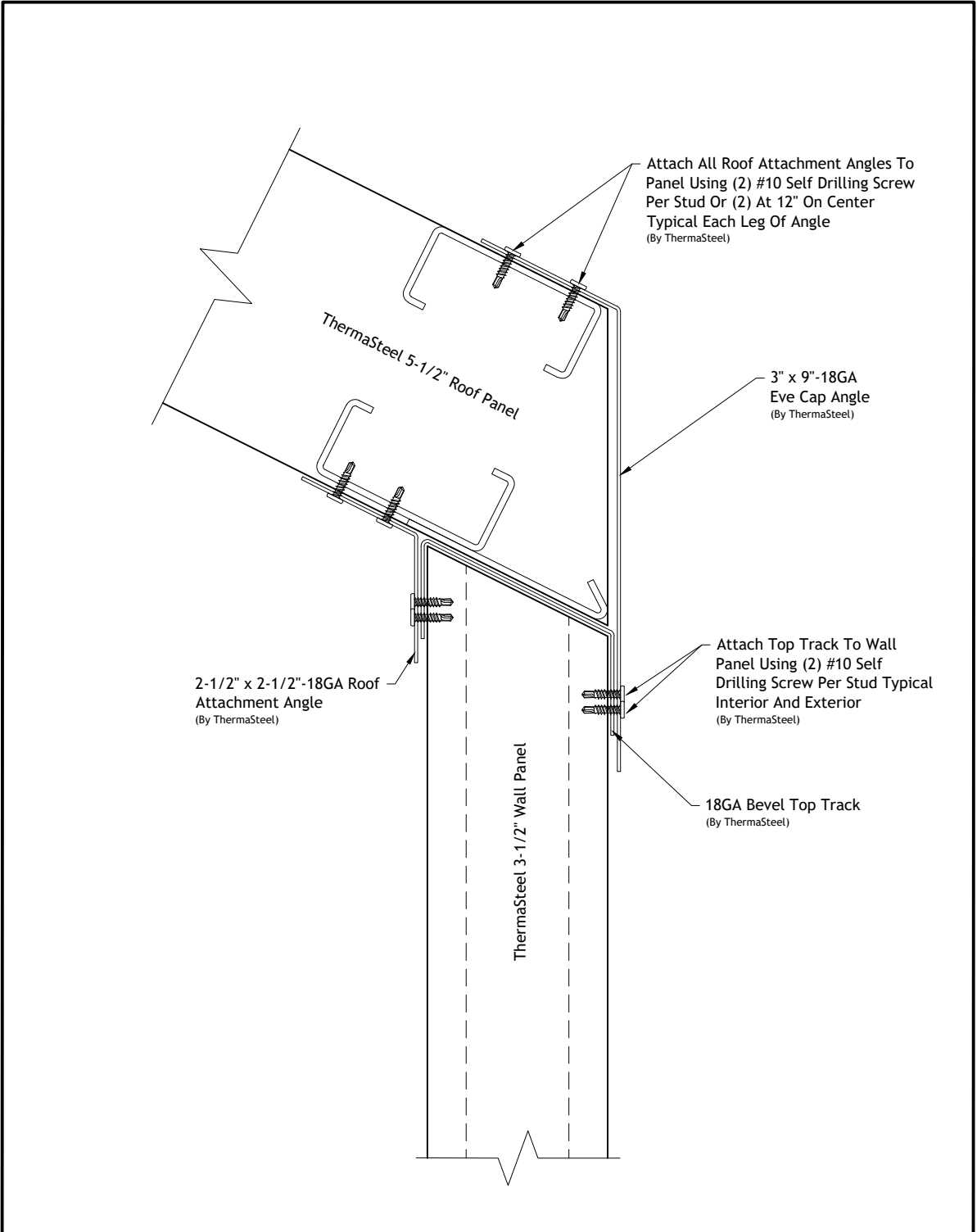
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-016</b>



**Roof Connections**

**Typical Roof Panel To Panel Connection At Purlin Section View**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-017</b>



Attach All Roof Attachment Angles To Panel Using (2) #10 Self Drilling Screw Per Stud Or (2) At 12" On Center Typical Each Leg Of Angle  
(By ThermaSteel)

3" x 9"-18GA Eave Cap Angle  
(By ThermaSteel)

2-1/2" x 2-1/2"-18GA Roof Attachment Angle  
(By ThermaSteel)

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

18GA Bevel Top Track  
(By ThermaSteel)

ThermaSteel 3-1/2" Wall Panel

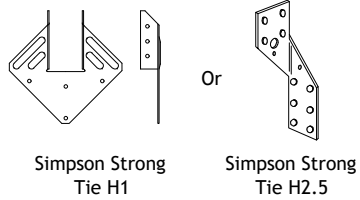
ThermaSteel 5-1/2" Roof Panel



**THERMASTEEL**<sup>TM</sup>  
ADVANCED PANEL SYSTEMS

**Roof Connections**  
Typical Roof Panel At  
Eve/Peak End Connection  
Section View

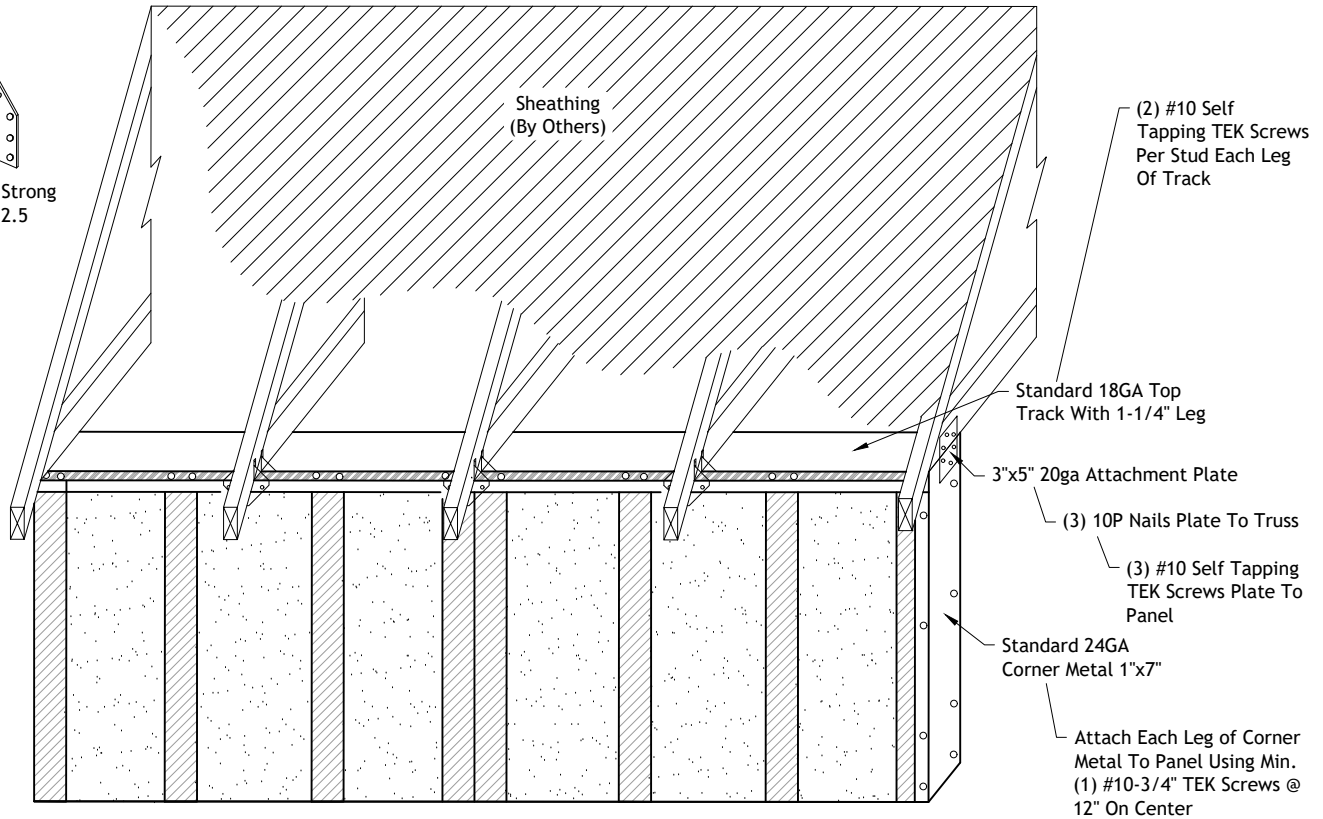
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>RC-018</b>



Simpson Strong Tie H1

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 SYSTEMS

**Roof Connections**

**Typical Roof Truss To Wall Panel Connection**

Not To Scale

Rev: 11/30/2021

Drawing Number

**RC-019**

## 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

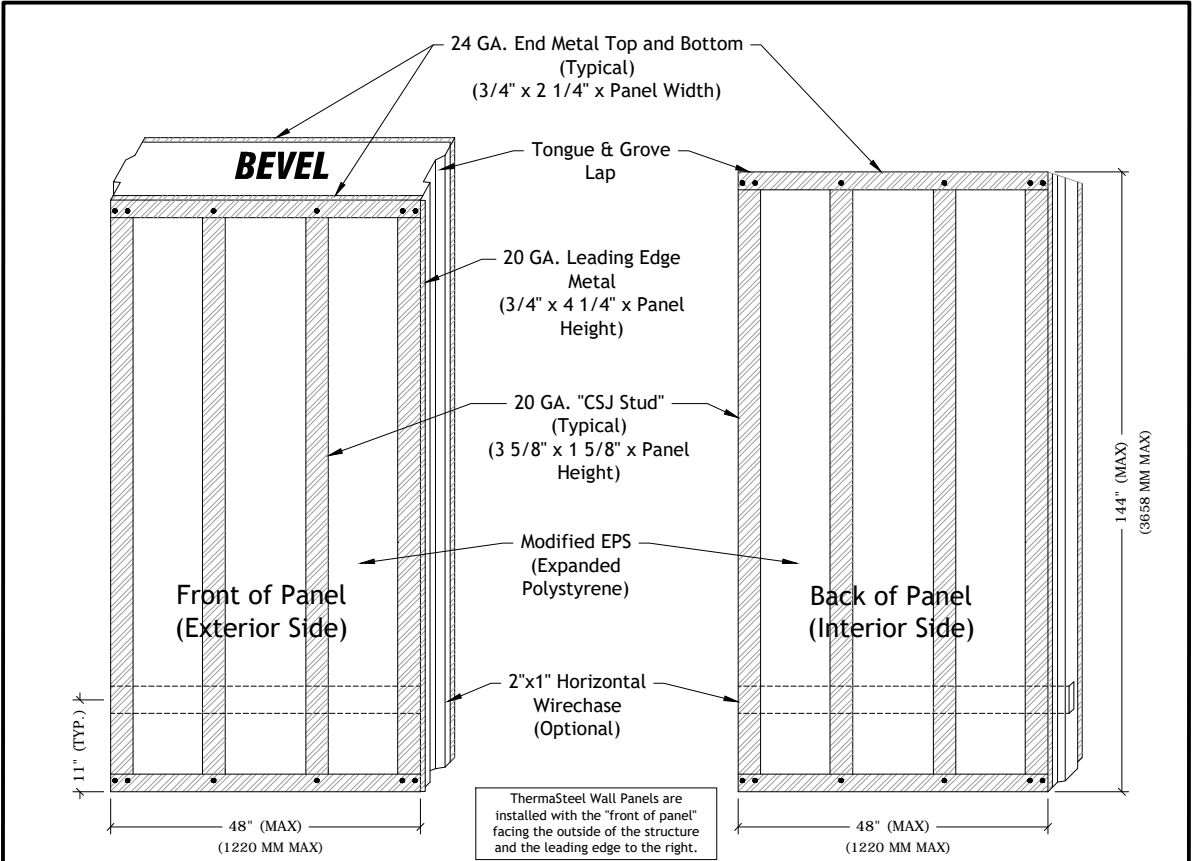
SP-005 Ceiling Panel Detail

SP-006 Typical Ceiling Panel Connection - Section View

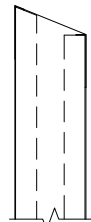
SP-007 Typical STC Rated Assemblies

SP-008 Shear Panel Detail (Exploded View)

[Back To Connection  
Detail Chapters](#)




**PANEL ELEVATION**

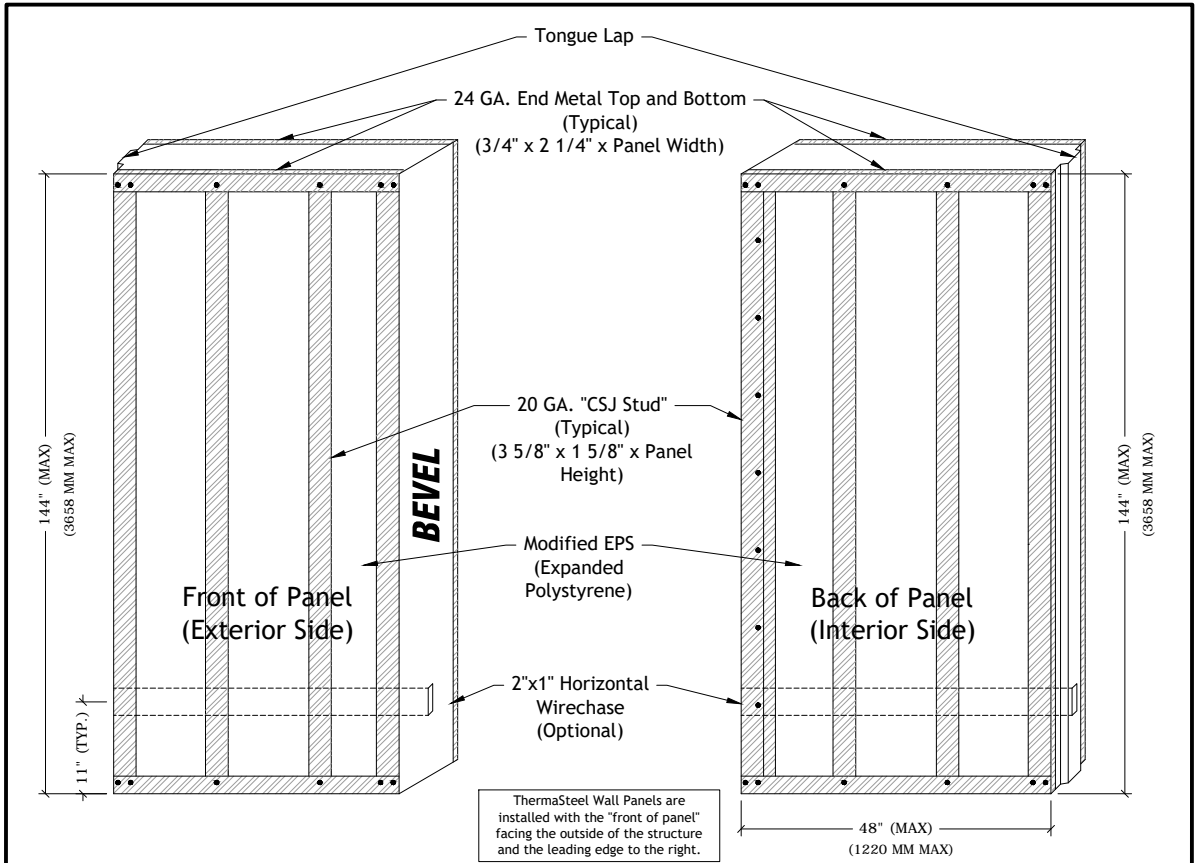


Panel Section With 24GA Angle Fillers

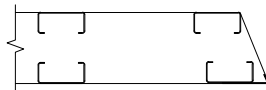
**SIDE VIEW**

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

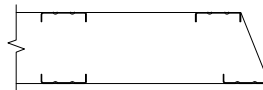
 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Special Panels</b>	
	<b>Horizontal Bevel Panel Detail</b>	
	Not To Scale	
	Rev: 11/30/2021	
	Drawing Number	
	<b>SP-001</b>	



**PANEL ELEVATION**




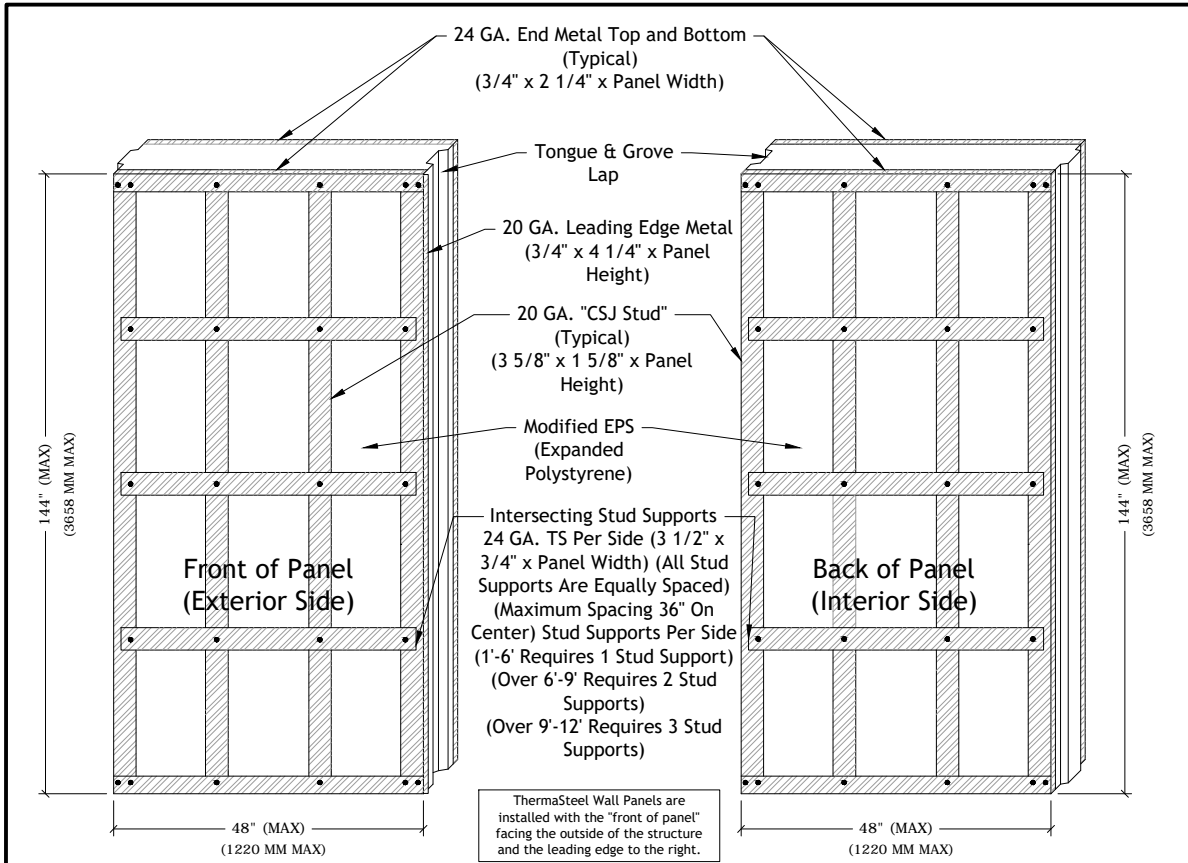
All Gauge CSJ Panel Section With 20GA Angle Filler



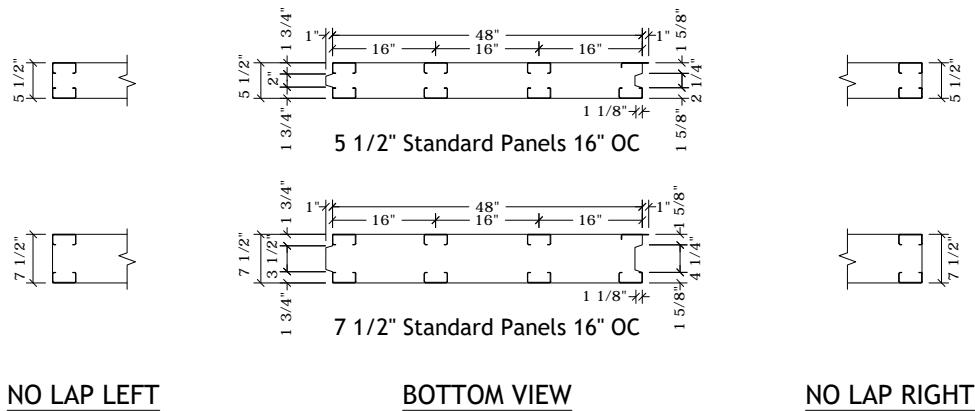
24 Gauge TS Panel Section With Bent Stud Legs

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


 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Special Panels</b>	
	<b>Vertical Bevel Panel</b> <b>Detail</b>	Not To Scale Rev: 11/30/2021 Drawing Number <b>SP-002</b>



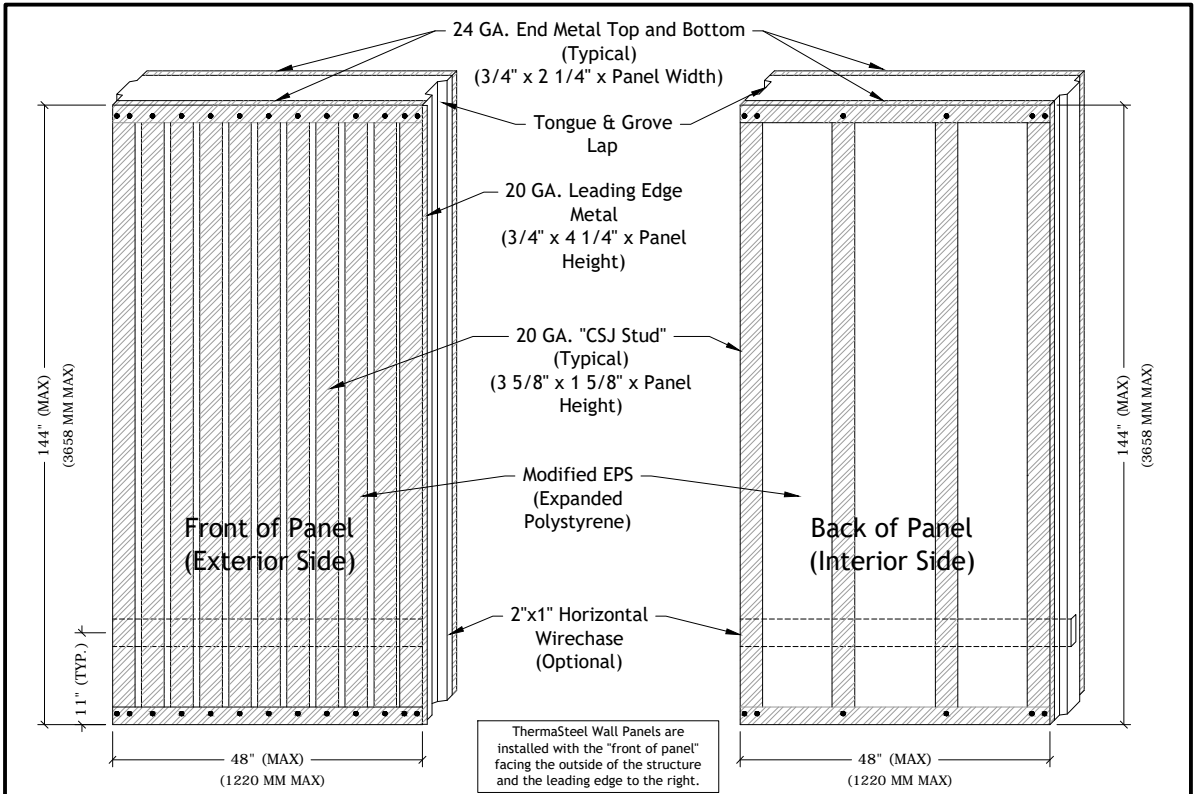
**PANEL ELEVATION**



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

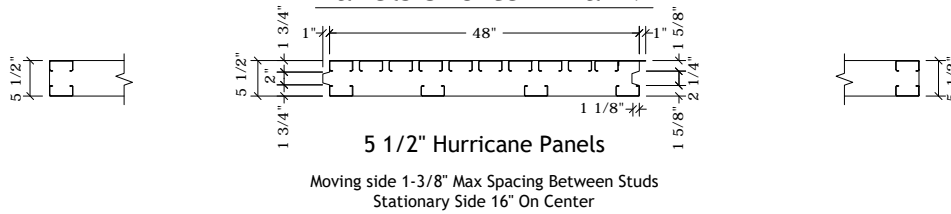
 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Special Panels</b>	
	Structural Overhang Panel Detail	
	Not To Scale	
	Rev: 11/30/2021	
	Drawing Number	
	<b>SP-003</b>	



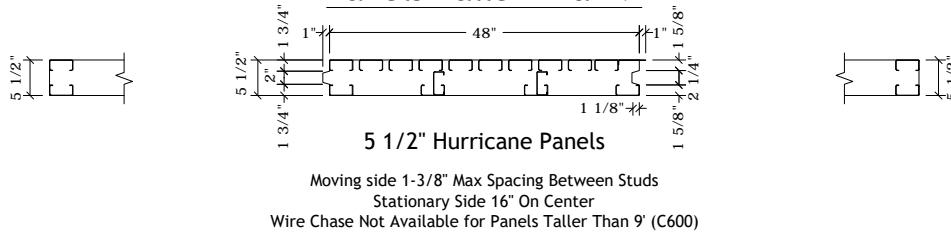


**PANEL ELEVATION**

**Panels Shorter Than 9'**



**Panels Taller Than 9'**



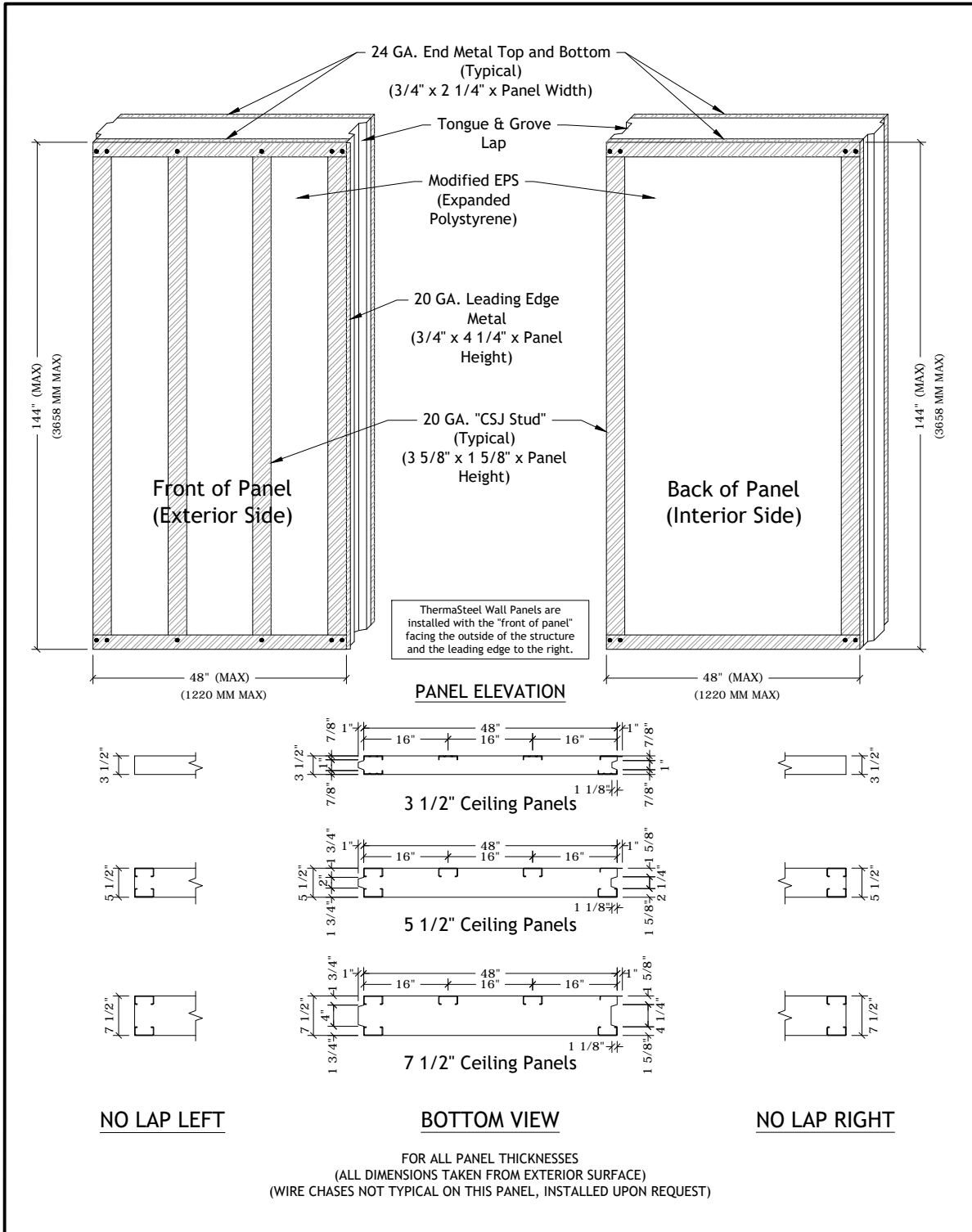
**NO LAP LEFT**


**BOTTOM VIEW**

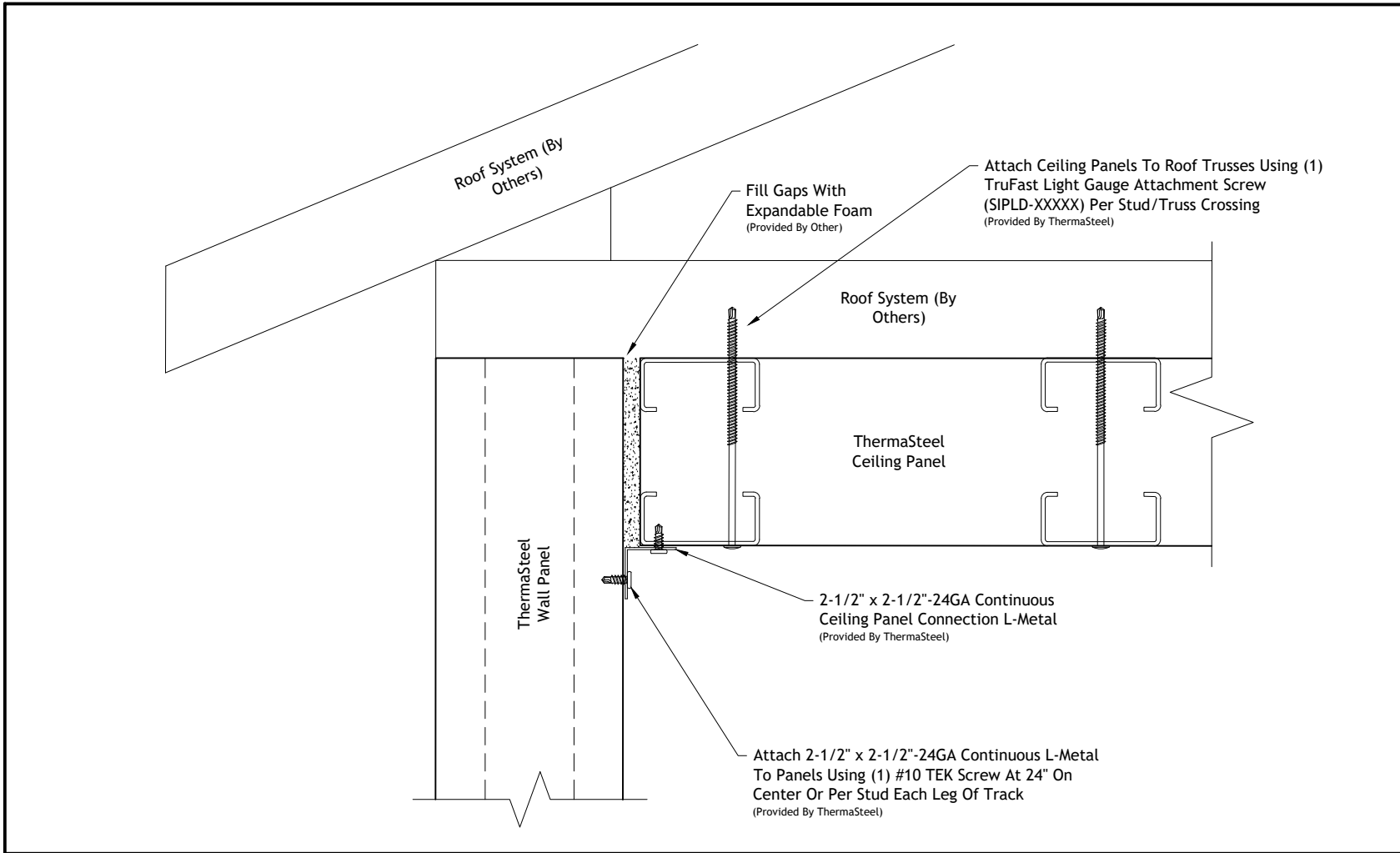
**NO LAP RIGHT**

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

<p><b>THERMASTEEL</b><sup>TM</sup> ADVANCED PANEL SYSTEMS</p>	<b>Special Panels</b>	
	Hurricane Panel Detail	
	Not To Scale	Rev: 11/30/2021
	Drawing Number	<b>SP-004</b>



 <b>THERMASTEEL</b> <sup>™</sup> ADVANCED PANEL SYSTEMS	<b>Special Panels</b>	
	Ceiling Panel Detail	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>SP-005</b>	



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

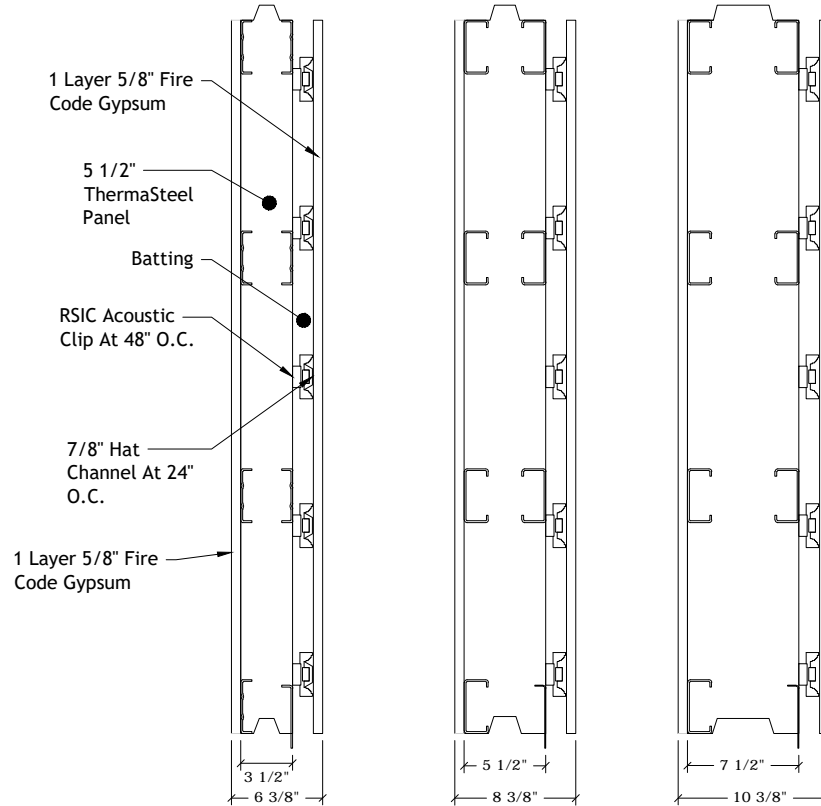
### CONSTRUCTION

- 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



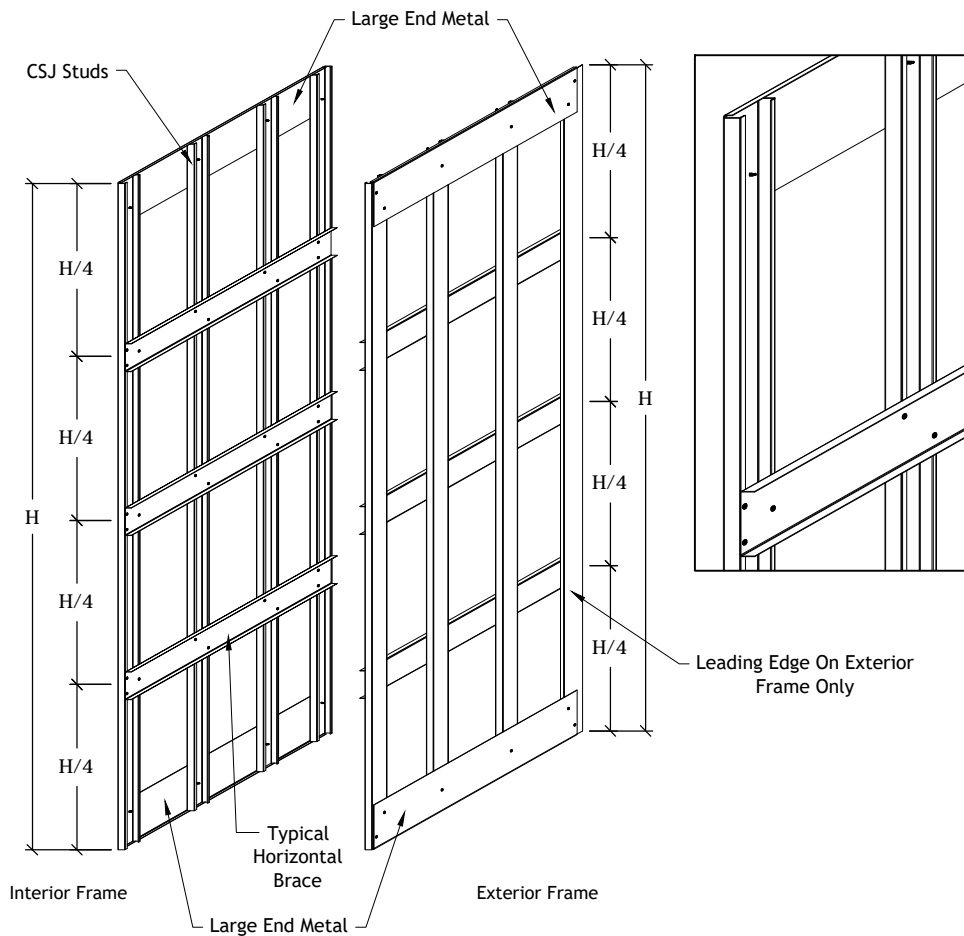
PAC International, LLC All Rights Reserved  
 (866) 774-2100  
 RSIC® is a registered Trade Mark.  
 www.pac-intl.com



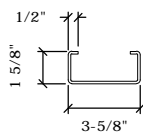
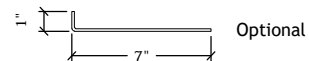
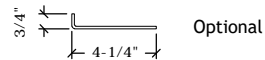
### Special Panels

### Typical STC Rated Assemblies

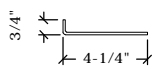
Not To Scale  
 Rev: 11/30/2021  
 Drawing Number  
**SP-007**



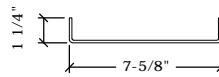
(EPS Foam Not Shown For Clarity)



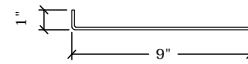
CSJ Stud  
20 ; 18 ; 16 ; 14 Gauge



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**<sup>™</sup>  
ADVANCED PANEL SYSTEMS

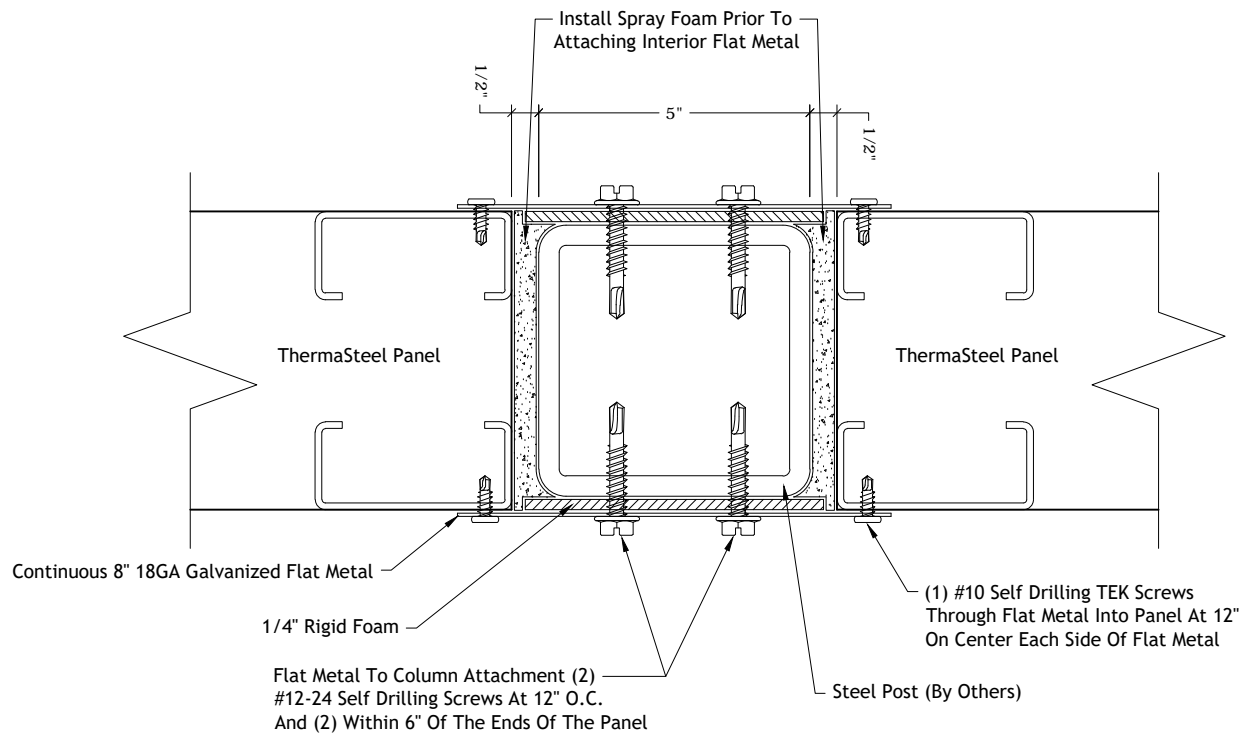
**Special Panels**

**Shear Panel Detail  
(Exploded View)**

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**SP-008**

## 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
- CB-009 Typical Multi-Level Panel In A Commercial Application
- CB-010 Typical Purlin To Wall Panel Connection - Section View
- CB-011 Typical Beam Pocket Detail
- CB-012 Typical Roof Truss Pocket Detail
- CB-013 Typical Point Load Connection
- CB-014 Typical Beam To Panel Connection With Strap/Hanger
- CB-015 Typical Top Plate/Beam Over Panel
- CB-016 Typical Panel To Concrete/Brick Connection - Section View
- CB-017 Typical Wall Panel To Concrete Connection - Section View



## Connections To Other Building Systems

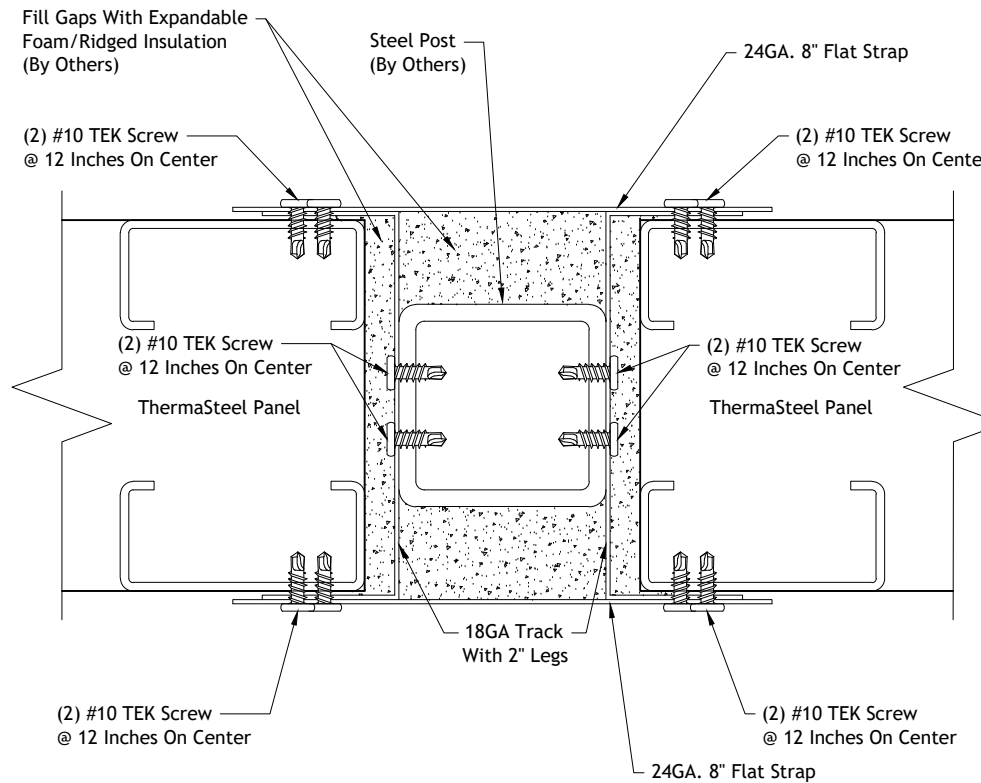
### In-Place Panel To Steel Column Connection

Not To Scale

Rev: 11/30/2021

Drawing Number

CB-001



Attachment Typical Interior and Exterior

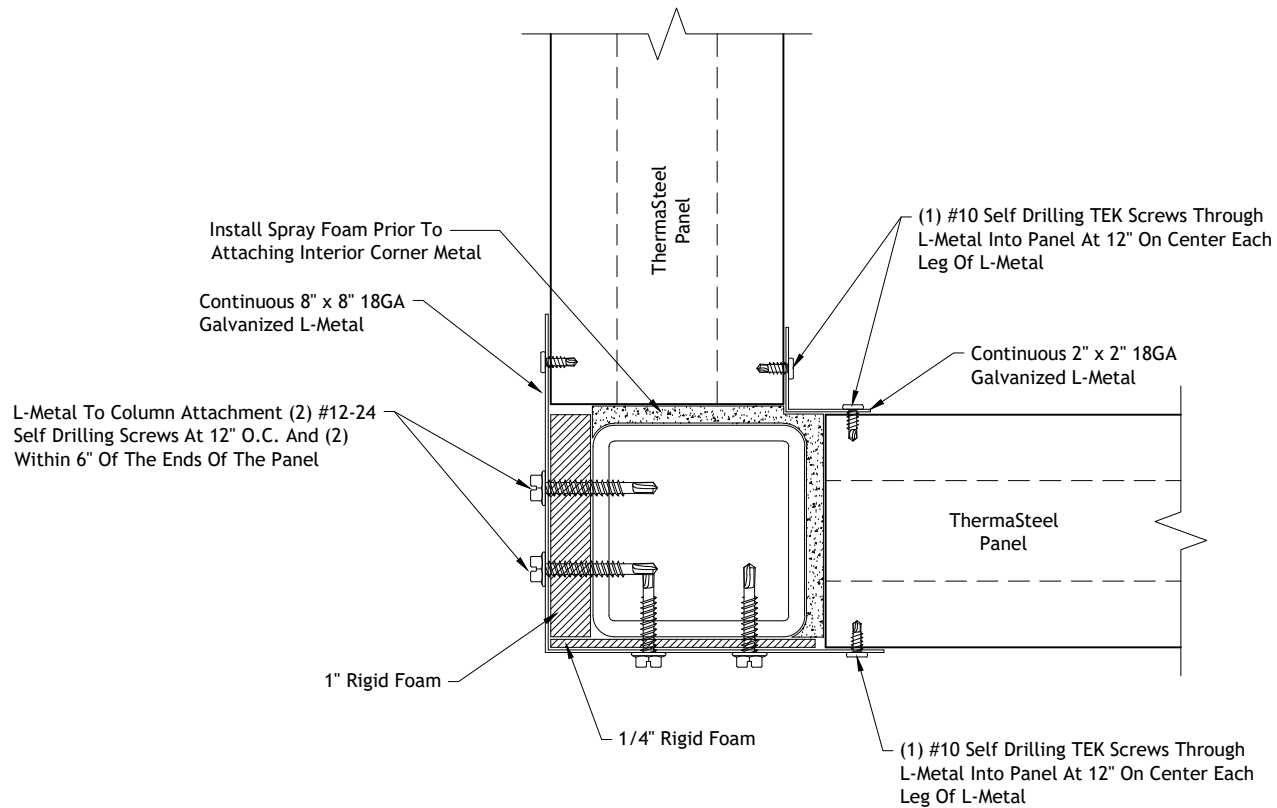


Connections To Other Building Systems

In-Place Panel To Steel Column Connection Alternative

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-002</b>



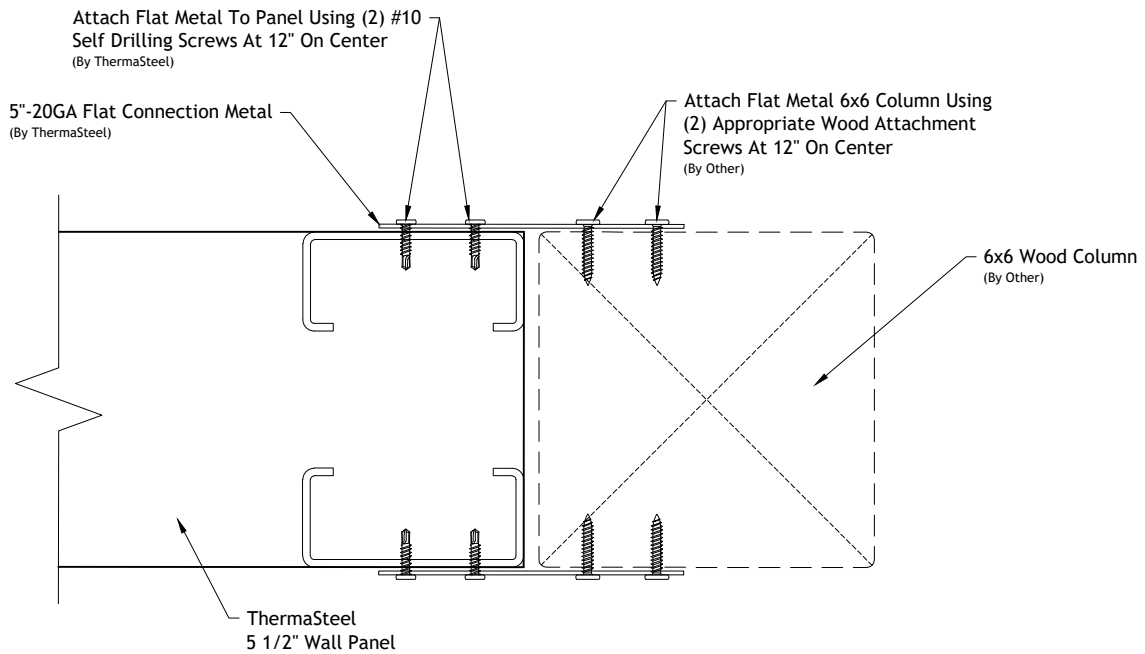


**THERMASTEEL™**  
 ADVANCED PANEL SYSTEMS

**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 SYSTEMS

Connections To Other Building Systems

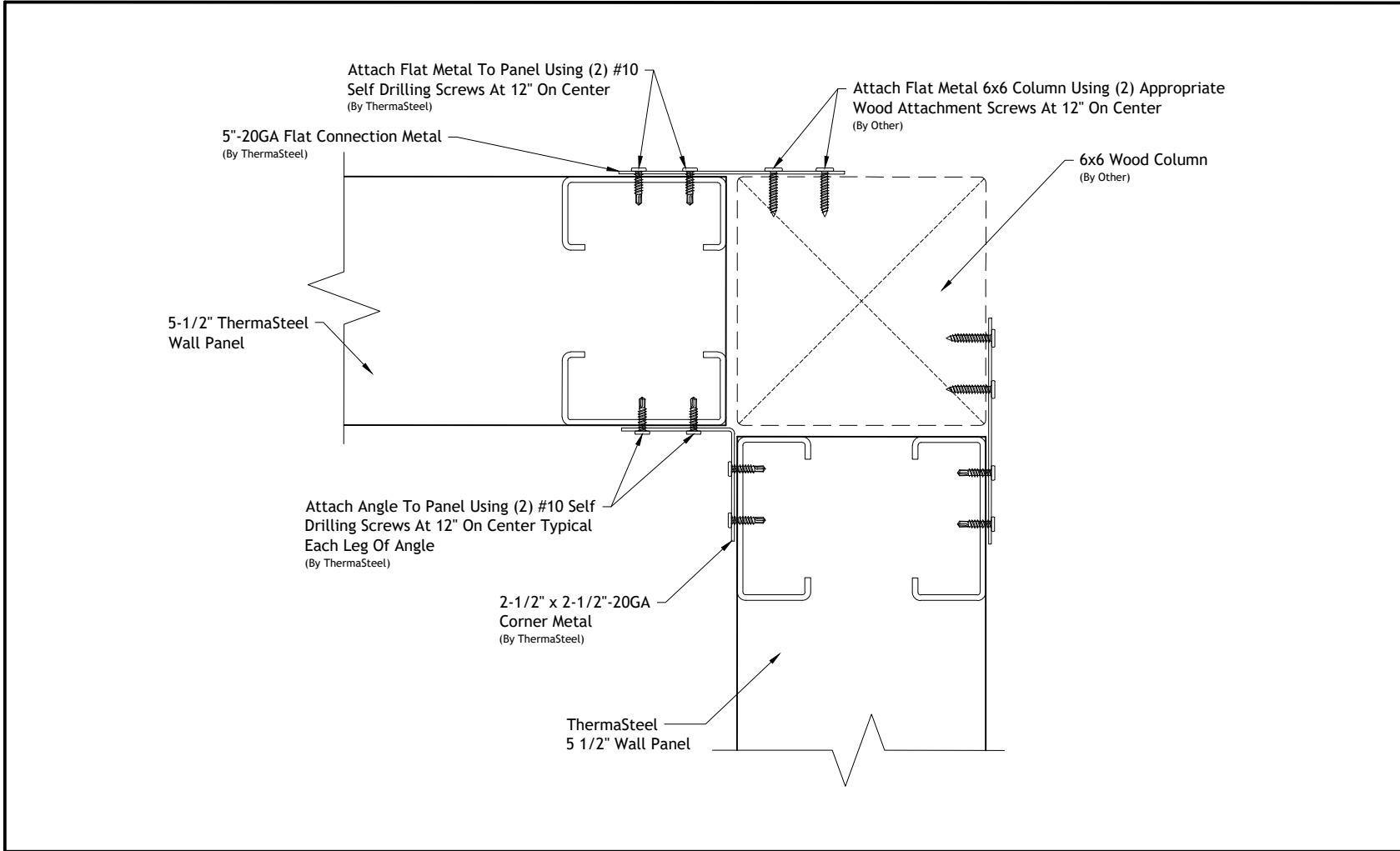
Panel To Wood Column Connection

Not To Scale

Rev: 11/30/2021

Drawing Number

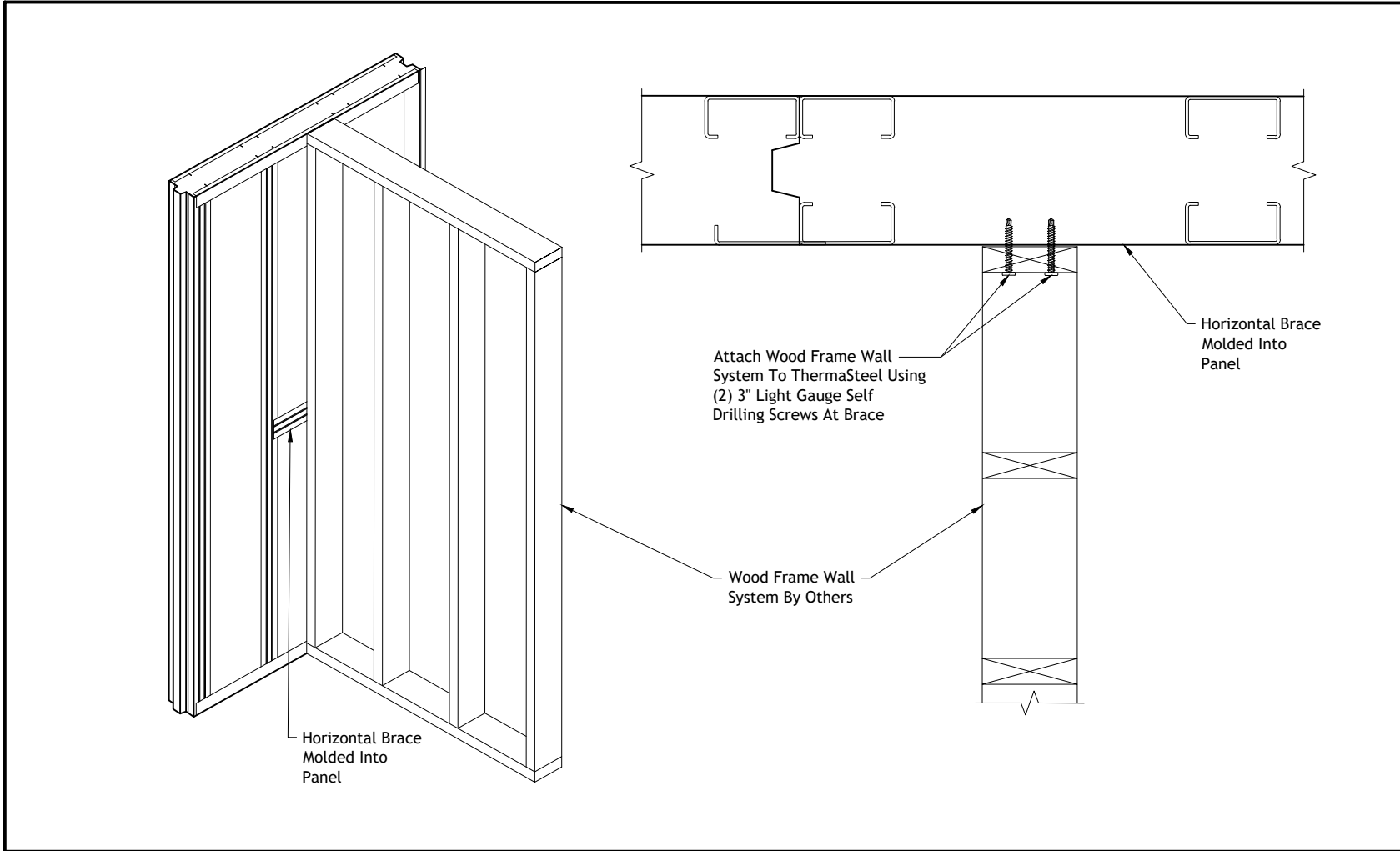
**CB-004**



**Connections To Other Building Systems**

**Panel To Wood Column Corner Connection**

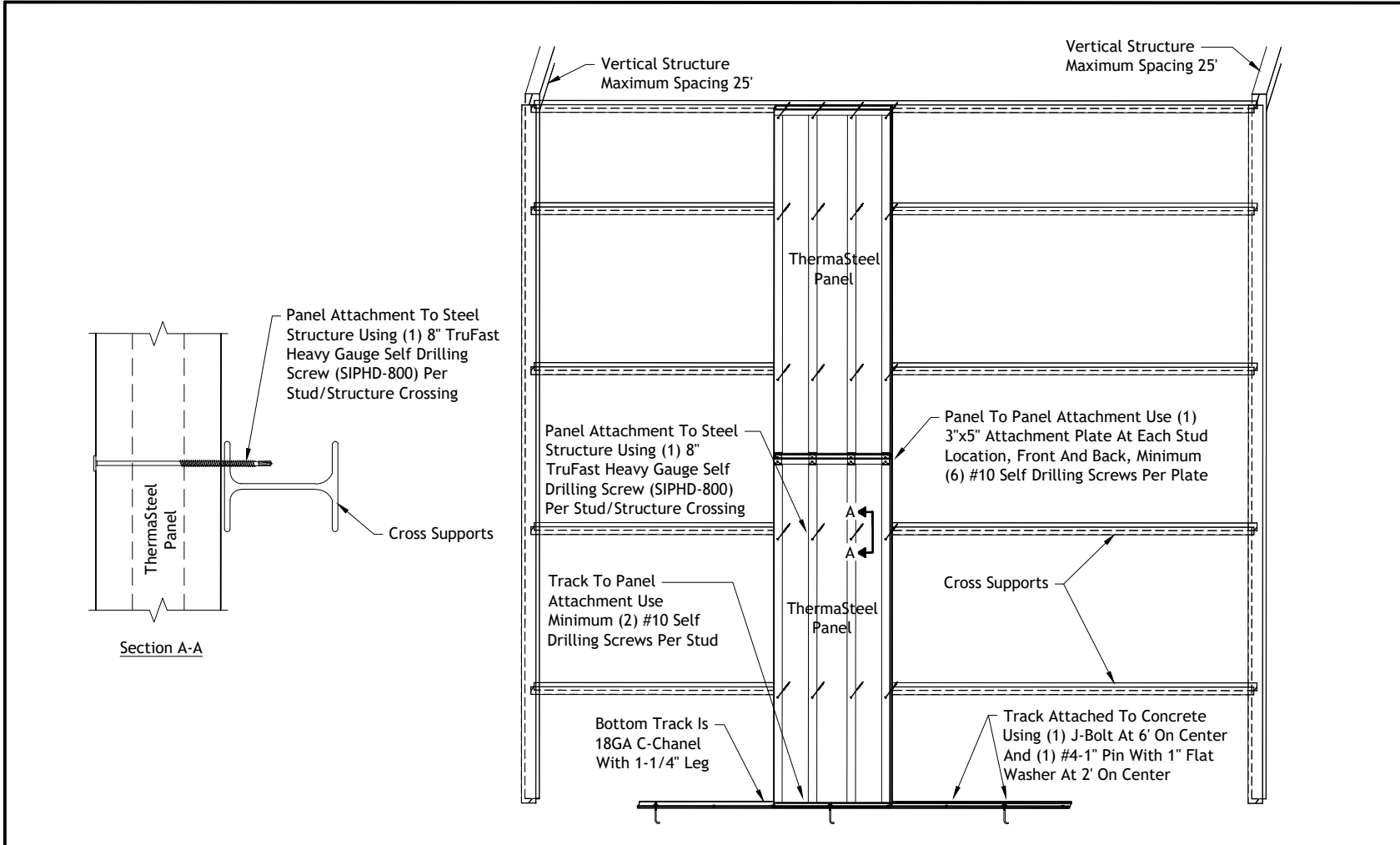
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-005</b>



**Connections To Other Building Systems**

**Typical Panel To Intersecting Wood Framing Connection**

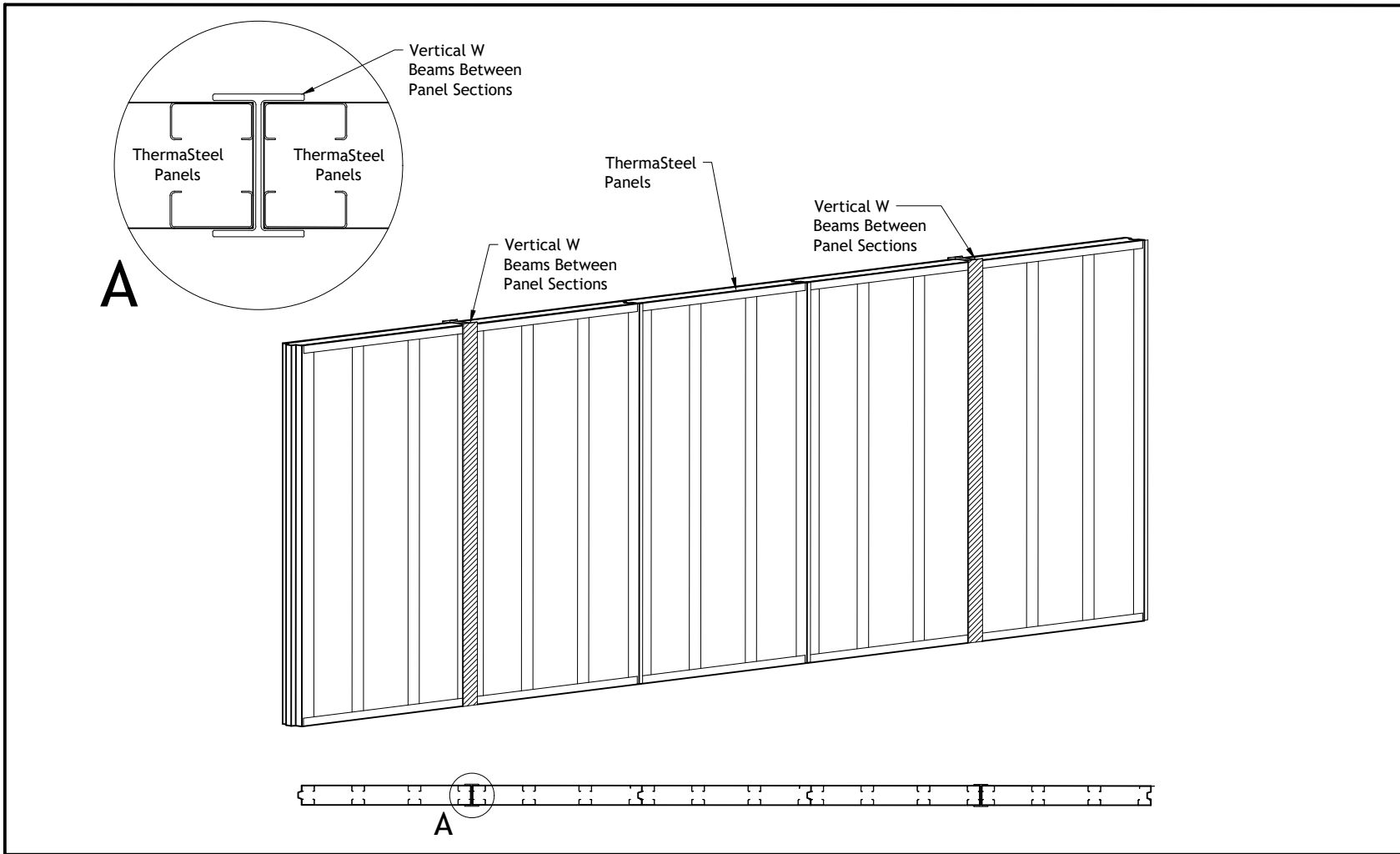
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-006</b>




**Connections To Other Building Systems**

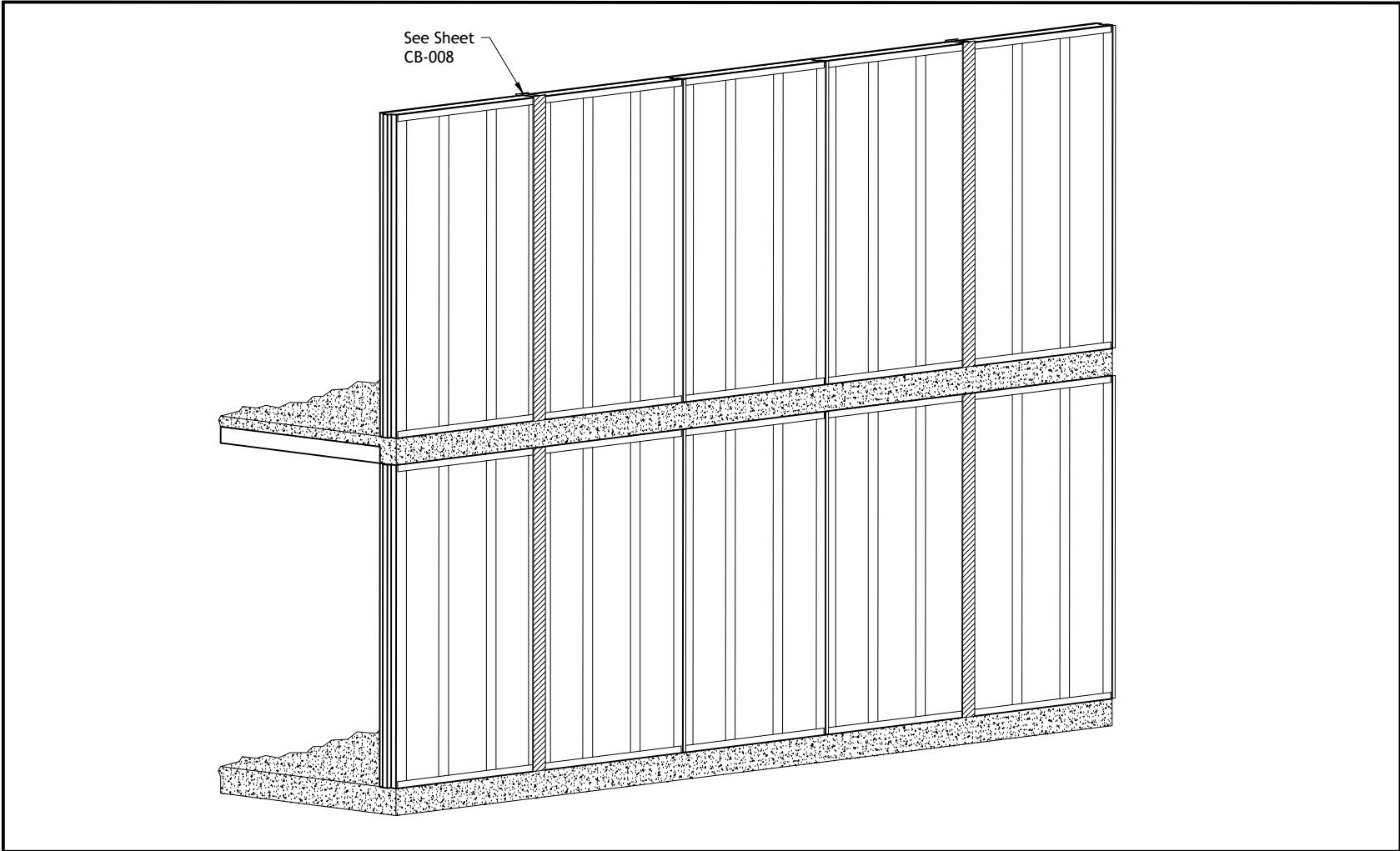
**Typical Panel To Steel Structure Connection  
Industrial Building**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-007</b>



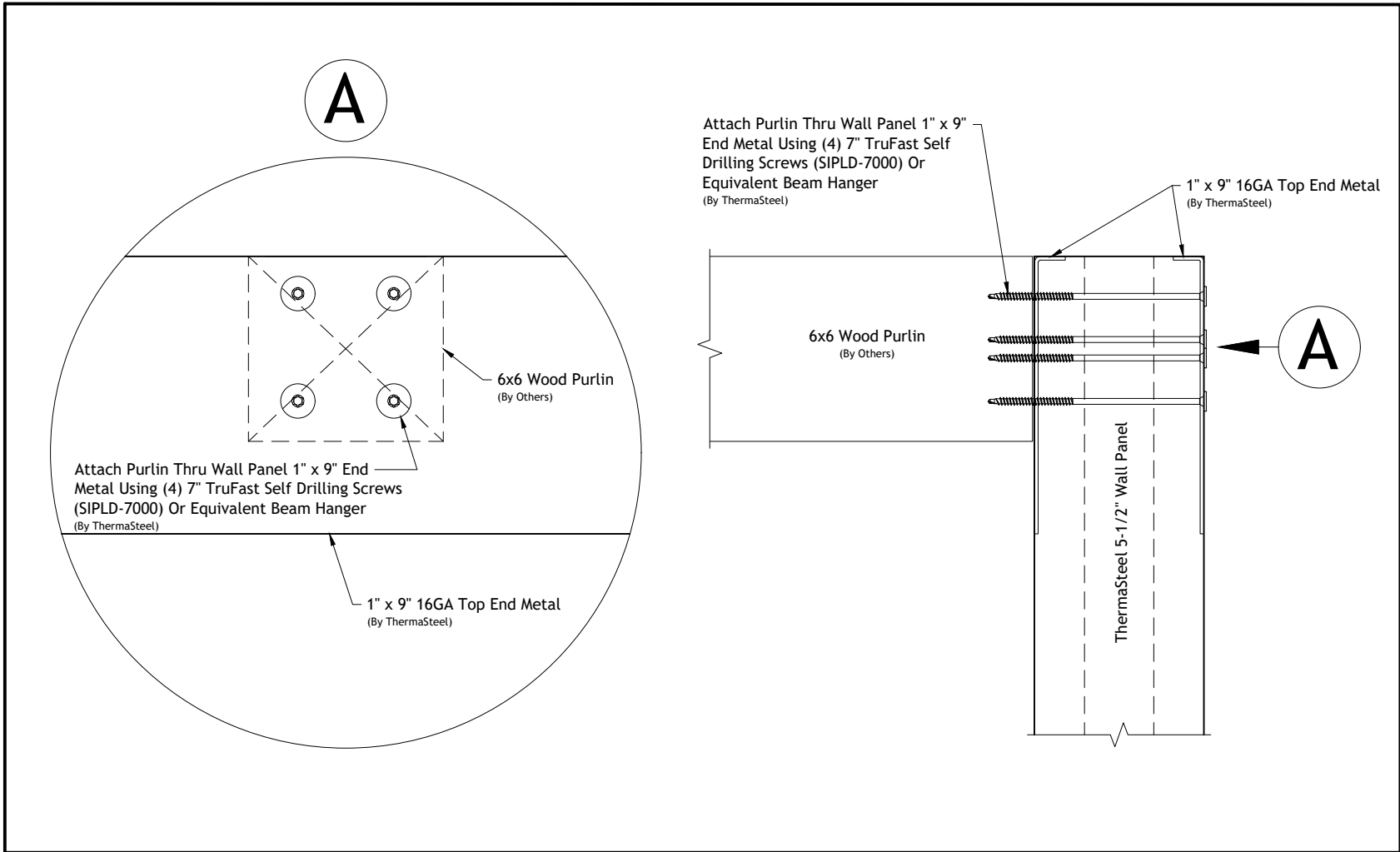
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Connections To Other Building Systems</b>	
	<b>Typical Panel Connection To Red Iron Structure</b>	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>CB-008</b>

THERMASTEEL ADVANCED PANEL SYSTEMS - MANUFACTURED BY THERMASTEEL RP Ltd.  
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000 FAX (540) 633-5001  
[www.thermasteelinc.com](http://www.thermasteelinc.com)



 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Connections To Other Building Systems</b>	
	<b>Multi-Level Panel In A Commercial Application</b>	
	Not To Scale	Rev: 11/30/2021
		Drawing Number <b>CB-009</b>

THERMASTEEL ADVANCED PANEL SYSTEMS - MANUFACTURED BY THERMASTEEL RP Ltd.  
 609 WEST ROCK ROAD RADFORD, VA 24141 PHONE (540) 633-5000 FAX (540) 633-5001  
[www.thermasteelinc.com](http://www.thermasteelinc.com)

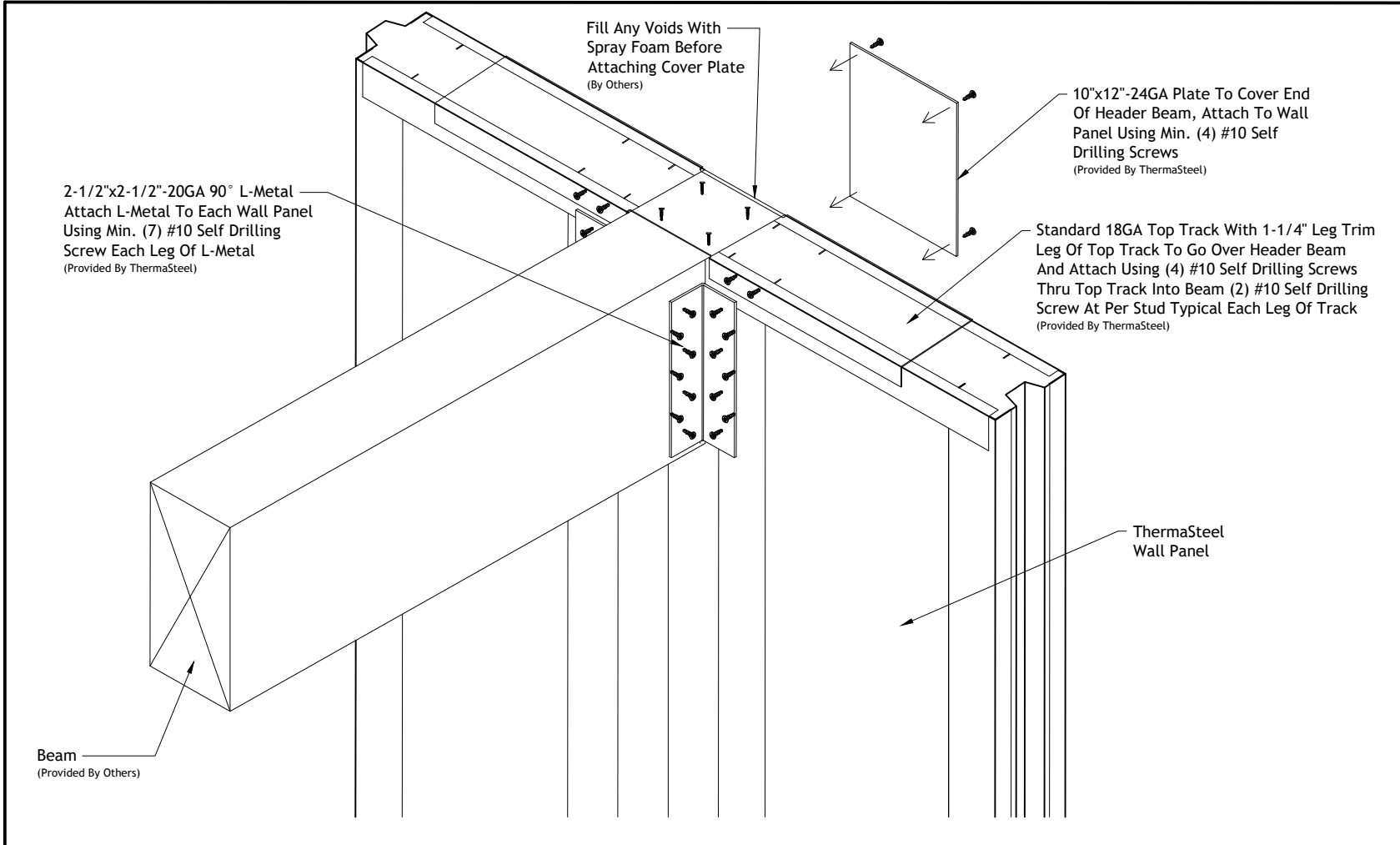


Connections To Other Building Systems

Typical Purlin To Wall Panel Connection

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-010</b>

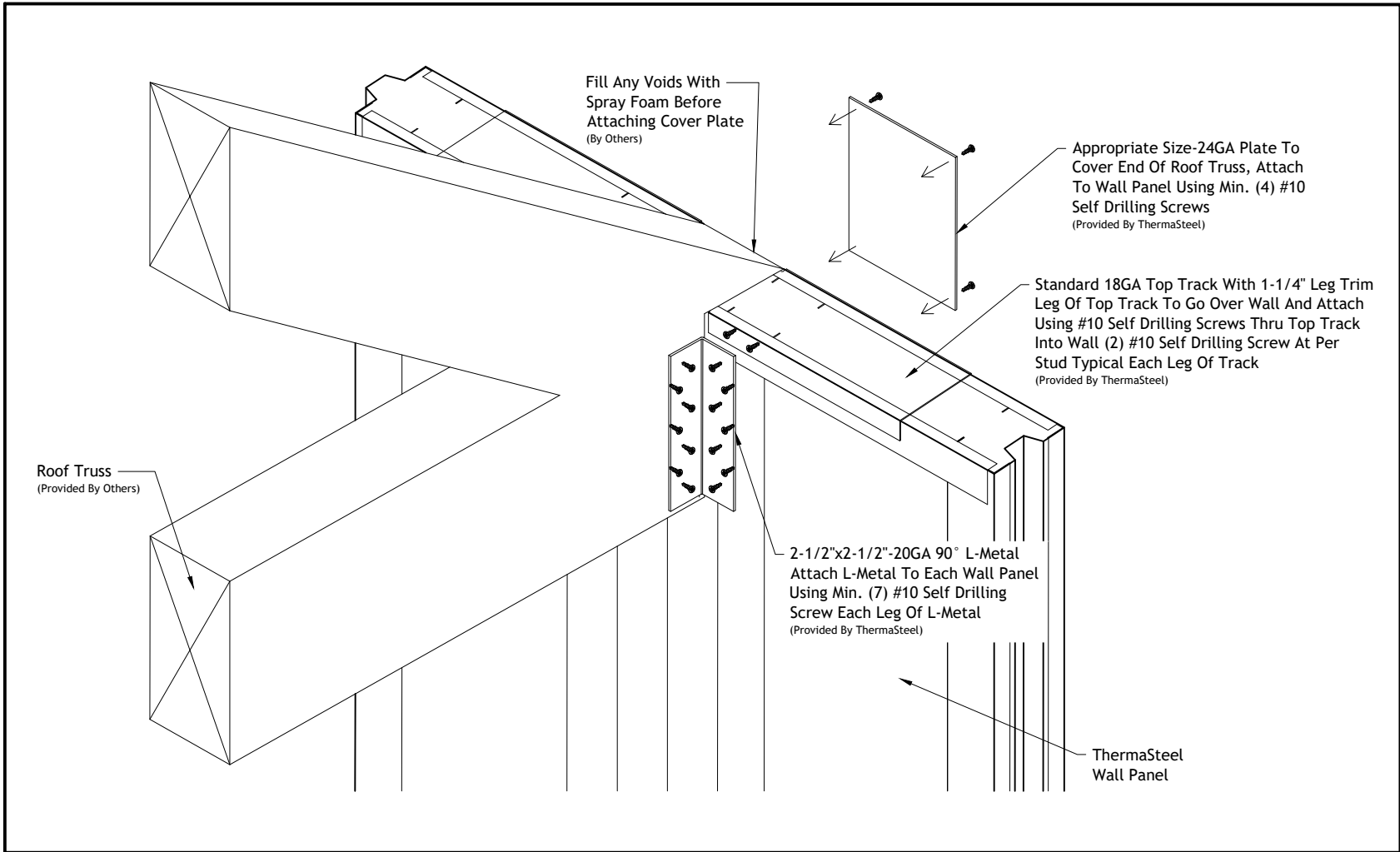





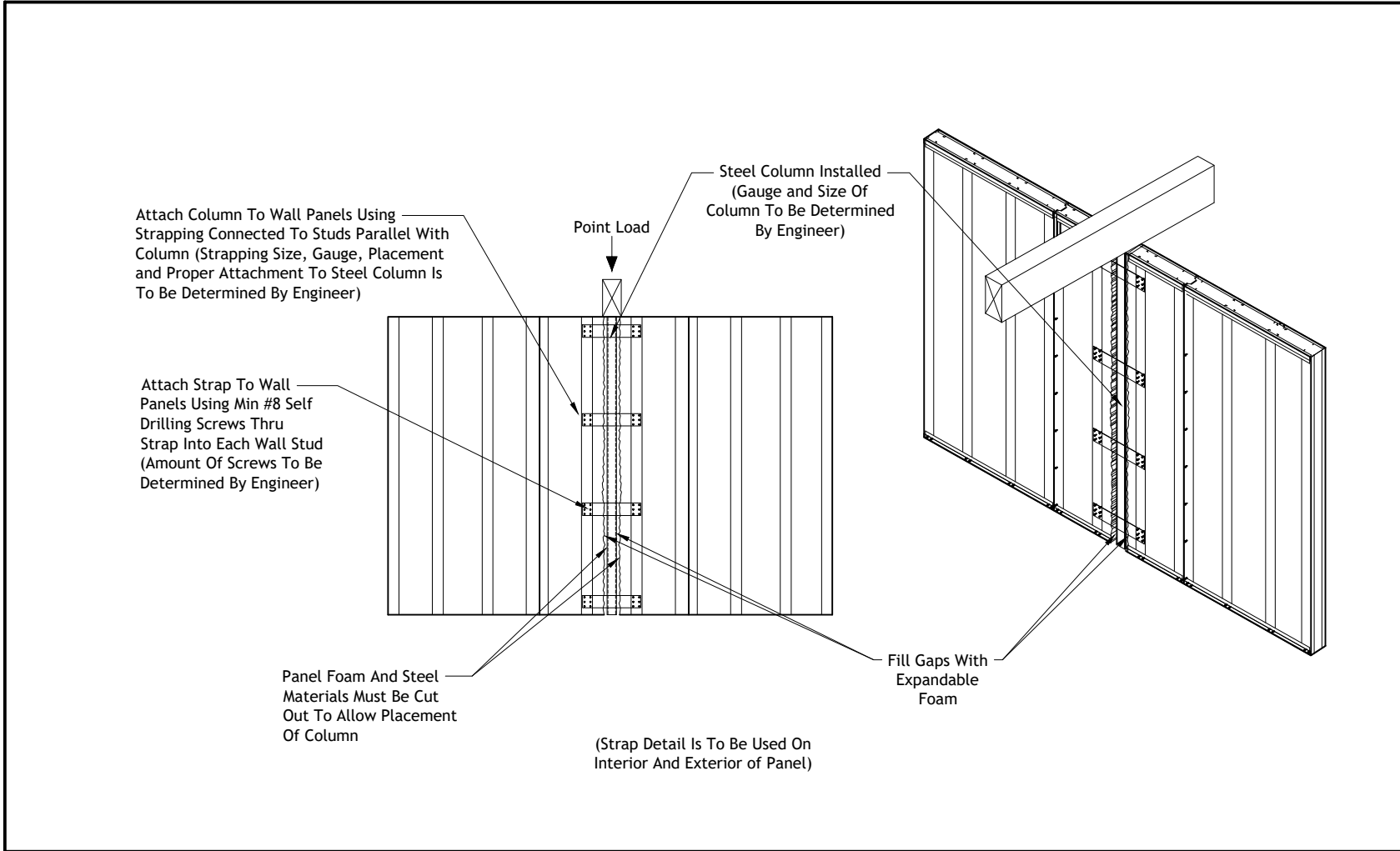
Connections To Other Building Systems

Typical Beam Pocket Detail

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-011</b>



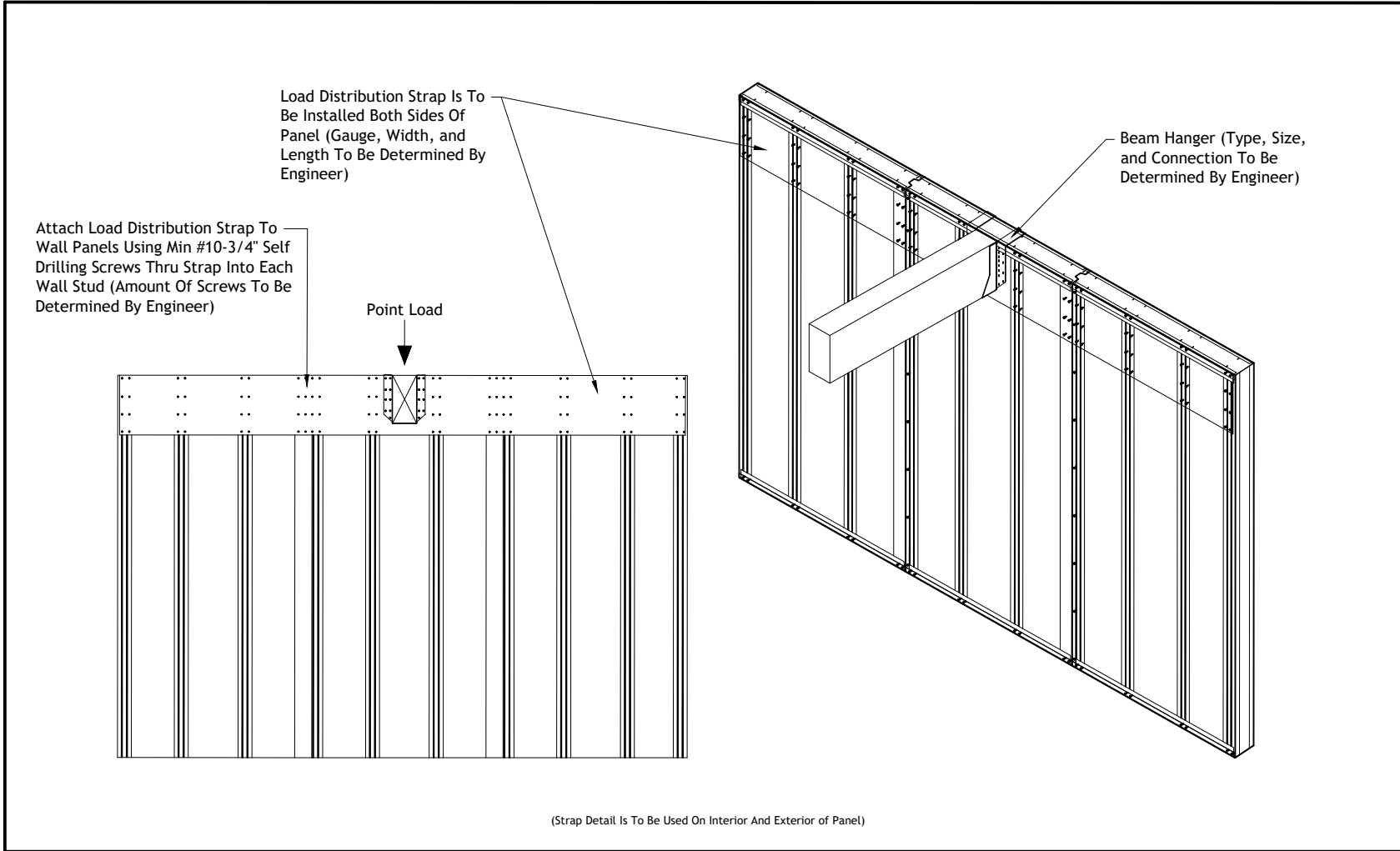
 <b>THERMASTEEL™</b> ADVANCED PANEL SYSTEMS	<b>Connections To Other Building Systems</b>	
	<b>Typical Roof Truss Pocket Detail</b>	
	Not To Scale	
	Rev: 11/30/2021 Drawing Number <b>CB-012</b>	



**Connections To Other Building Systems**

**Typical Point Load Connection**

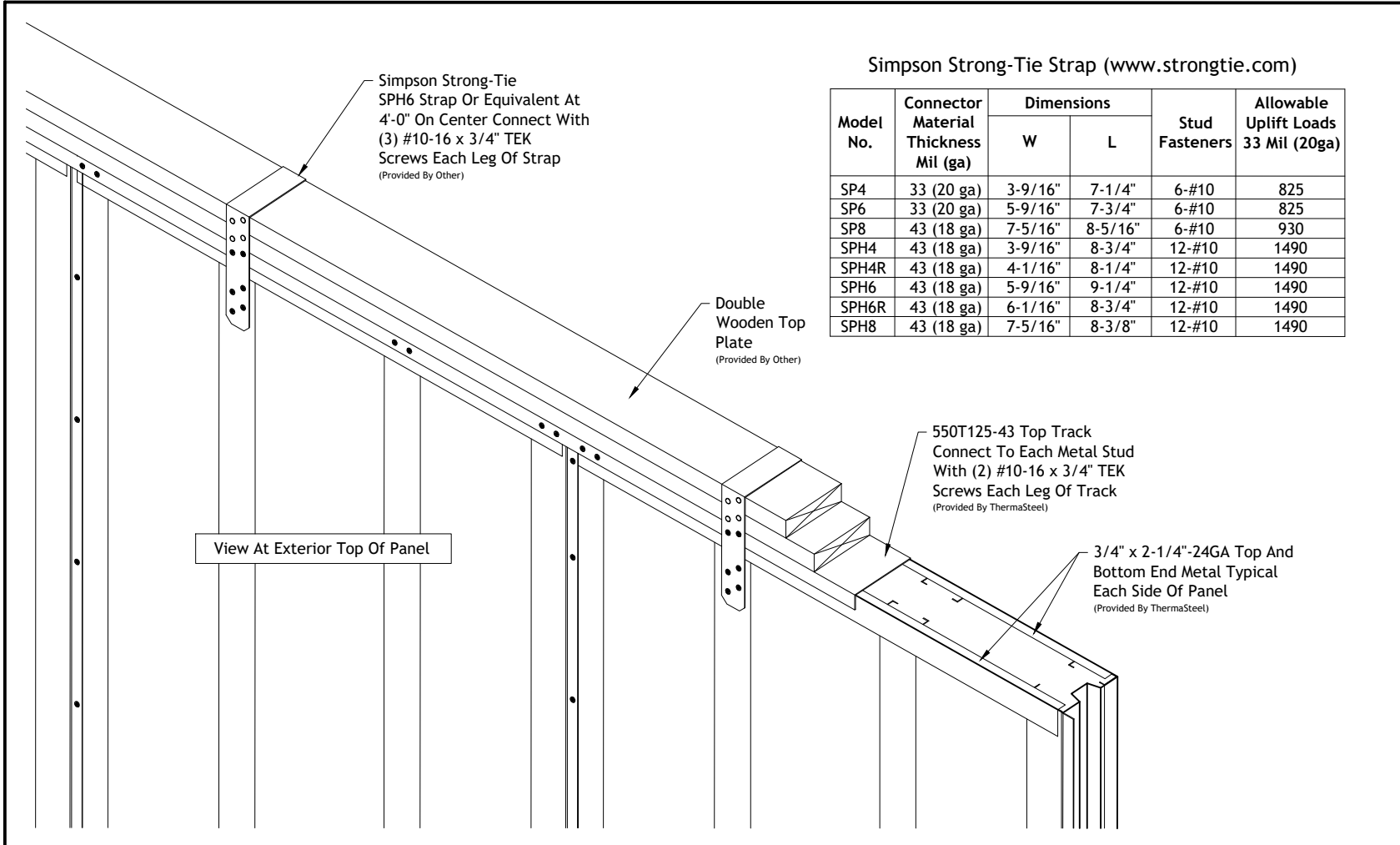
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-013</b>



**Connections To Other Building Systems**

**Typical Beam To Panel Connection  
With Strap/Hanger**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-014</b>



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

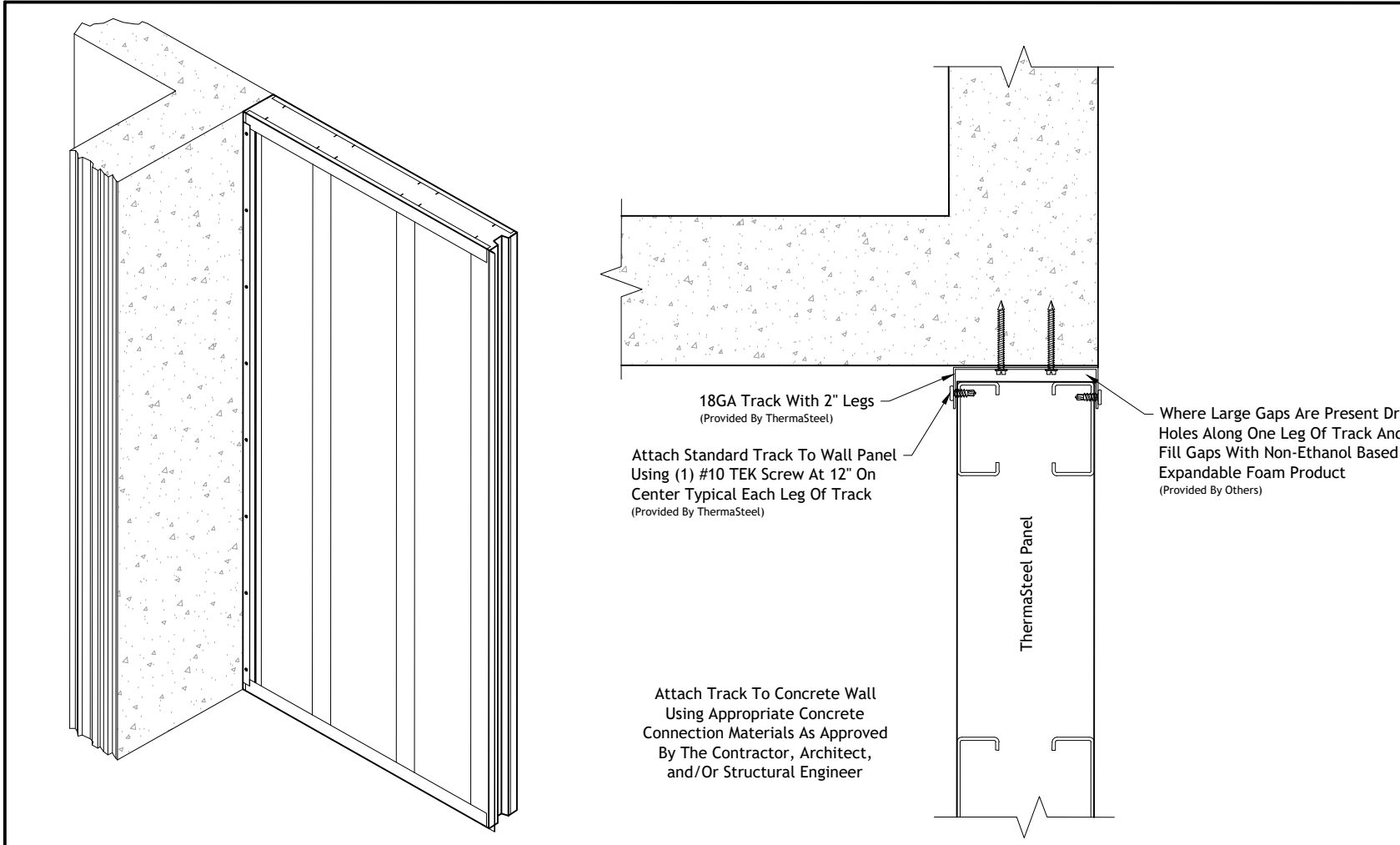
Model No.	Connector Material Thickness Mil (ga)	Dimensions		Stud Fasteners	Allowable Uplift Loads 33 Mil (20ga)
		W	L		
SP4	33 (20 ga)	3-9/16"	7-1/4"	6-#10	825
SP6	33 (20 ga)	5-9/16"	7-3/4"	6-#10	825
SP8	43 (18 ga)	7-5/16"	8-5/16"	6-#10	930
SPH4	43 (18 ga)	3-9/16"	8-3/4"	12-#10	1490
SPH4R	43 (18 ga)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

Connections To Other Building Systems

Typical Top Plate/Beam Over Panel



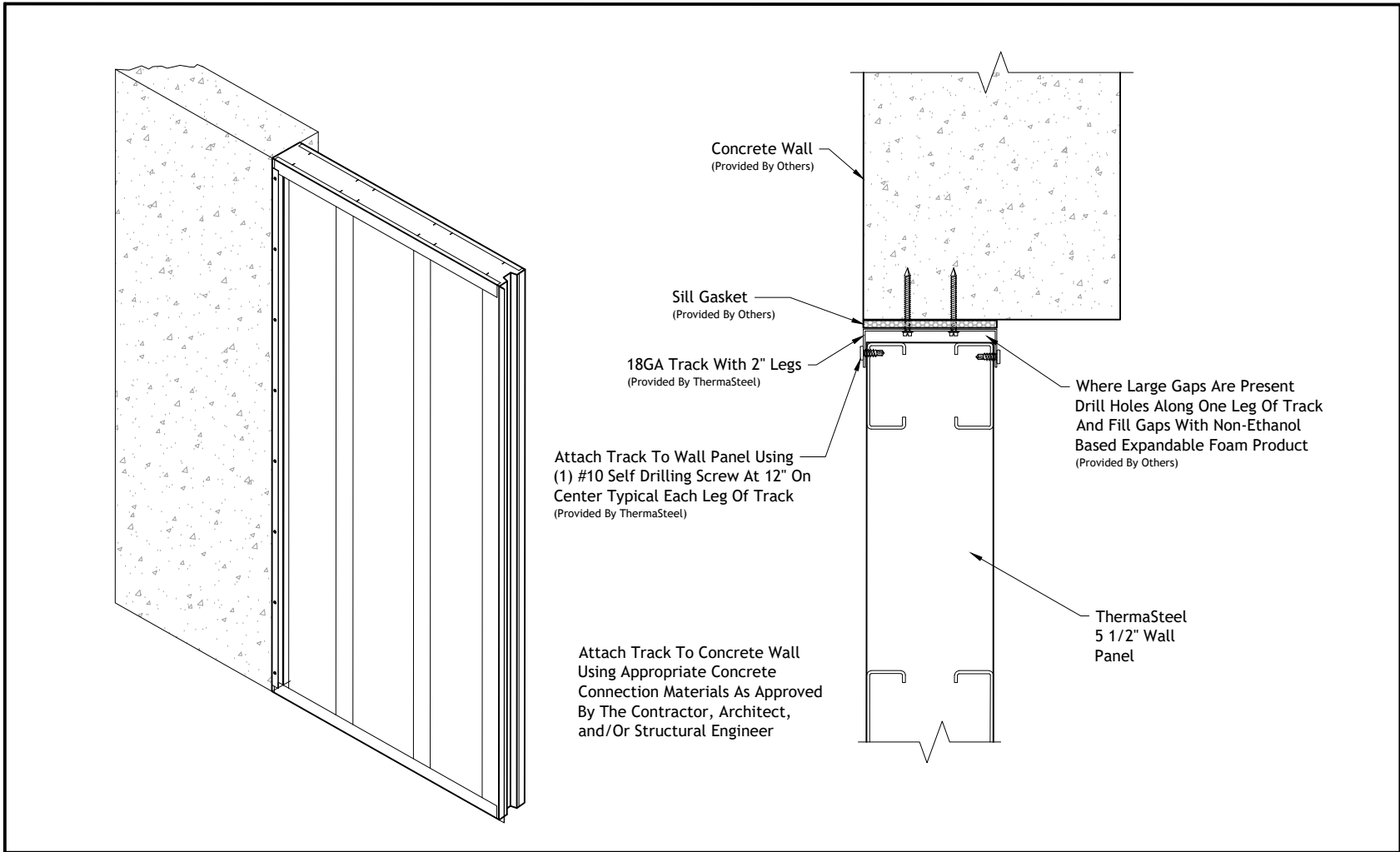
Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**CB-015**



**Connections To Other Building Systems**

**Typical Panel To Concrete/Brick Connection**

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>CB-016</b>



### Connections To Other Building Systems

## ThermaSteel To Concrete Wall Connection

Not To Scale

Rev: 11/30/2021

Drawing Number

**CB-017**

## Miscellaneous

MS-001 Typical Roof Covering Applications - Section View

MS-002 Typical Exterior Cladding Application

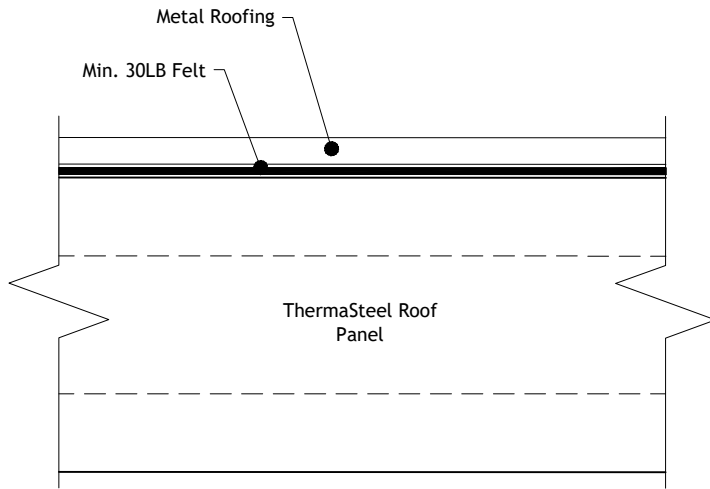
MS-003 Standard Wood Stud Construction, Exterior Wall System, 8 Step Assembly

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

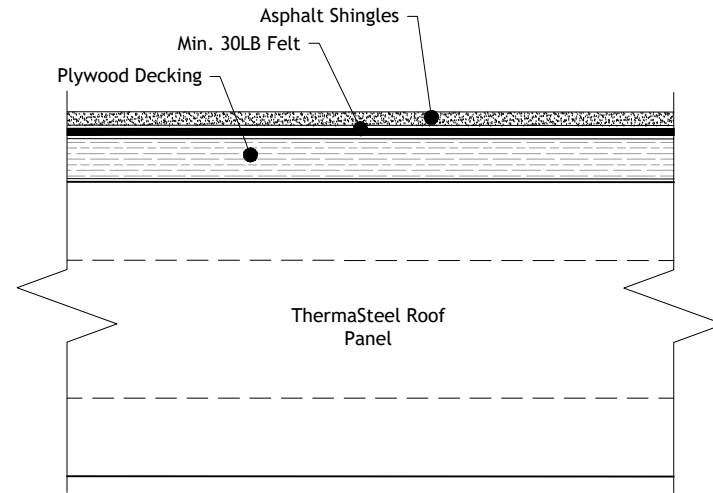
MS-005 Shear Wall Cross Strapping Detail



Metal Roofing To Roof Panel



Asphalt Shingles To Roof Panel



**Miscellaneous**

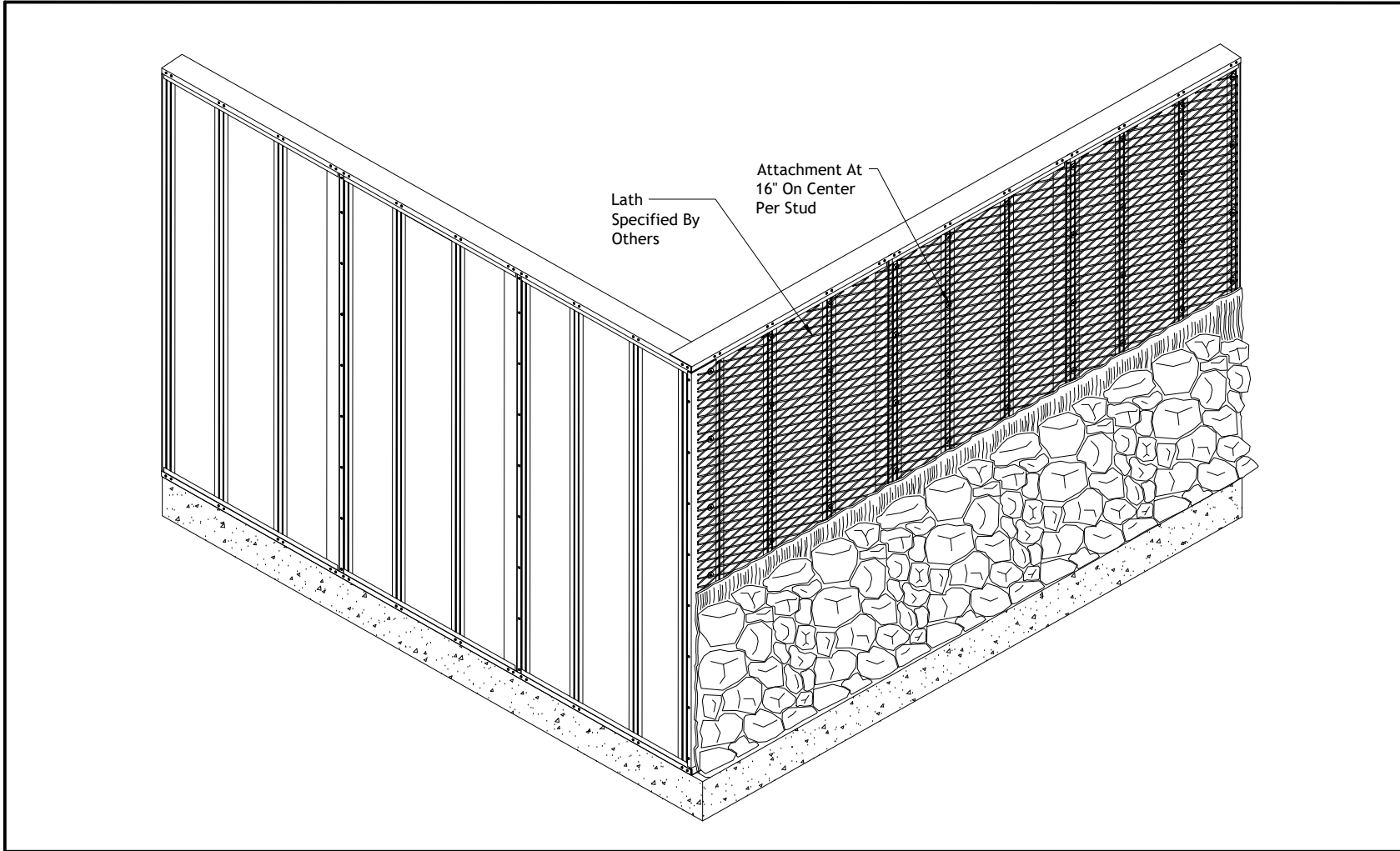
**Typical Roof Covering Applications - Section View**

Not To Scale

Rev: 11/30/2021

Drawing Number

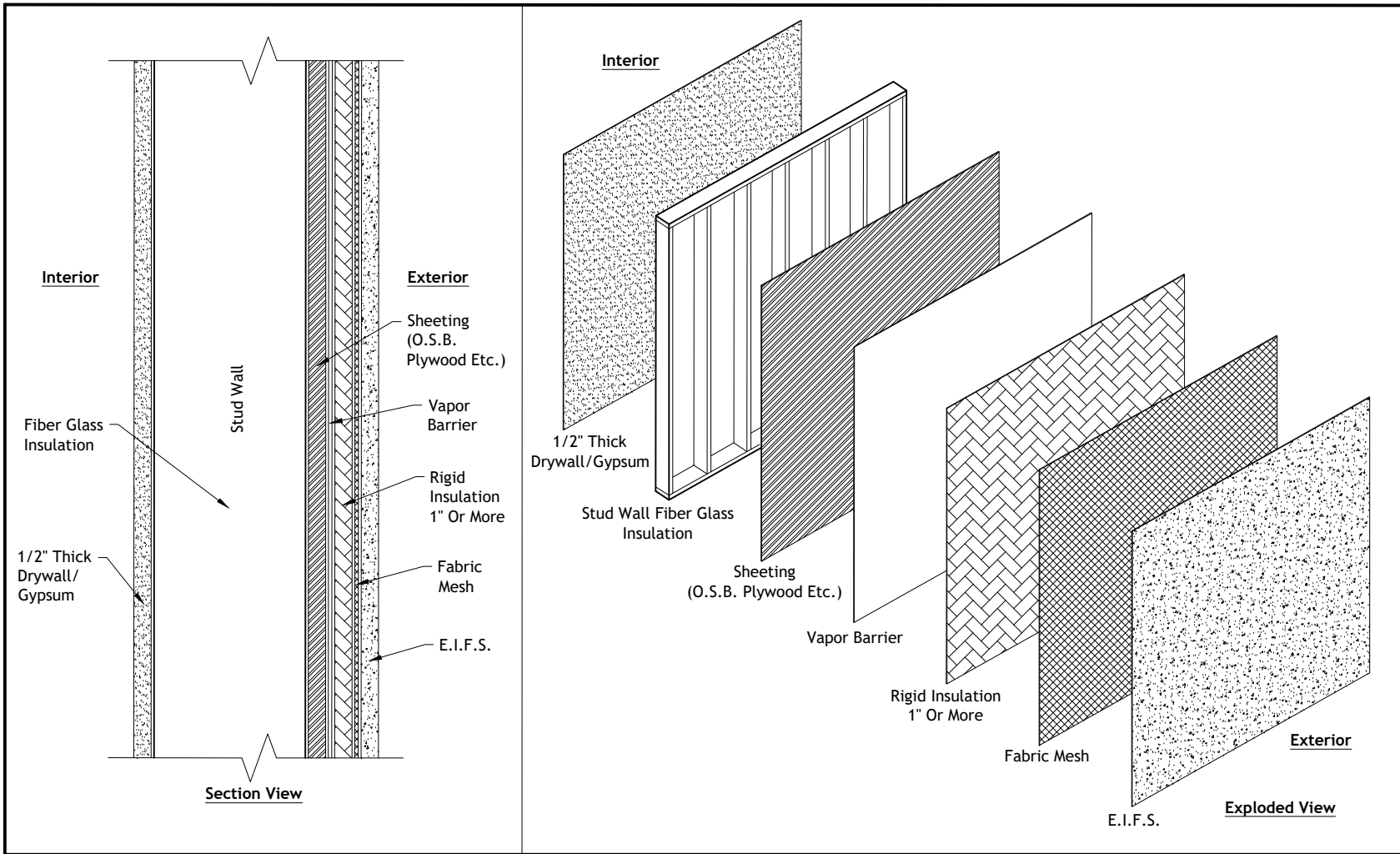
**MS-001**



**Miscellaneous**

Typical Exterior Cladding Application

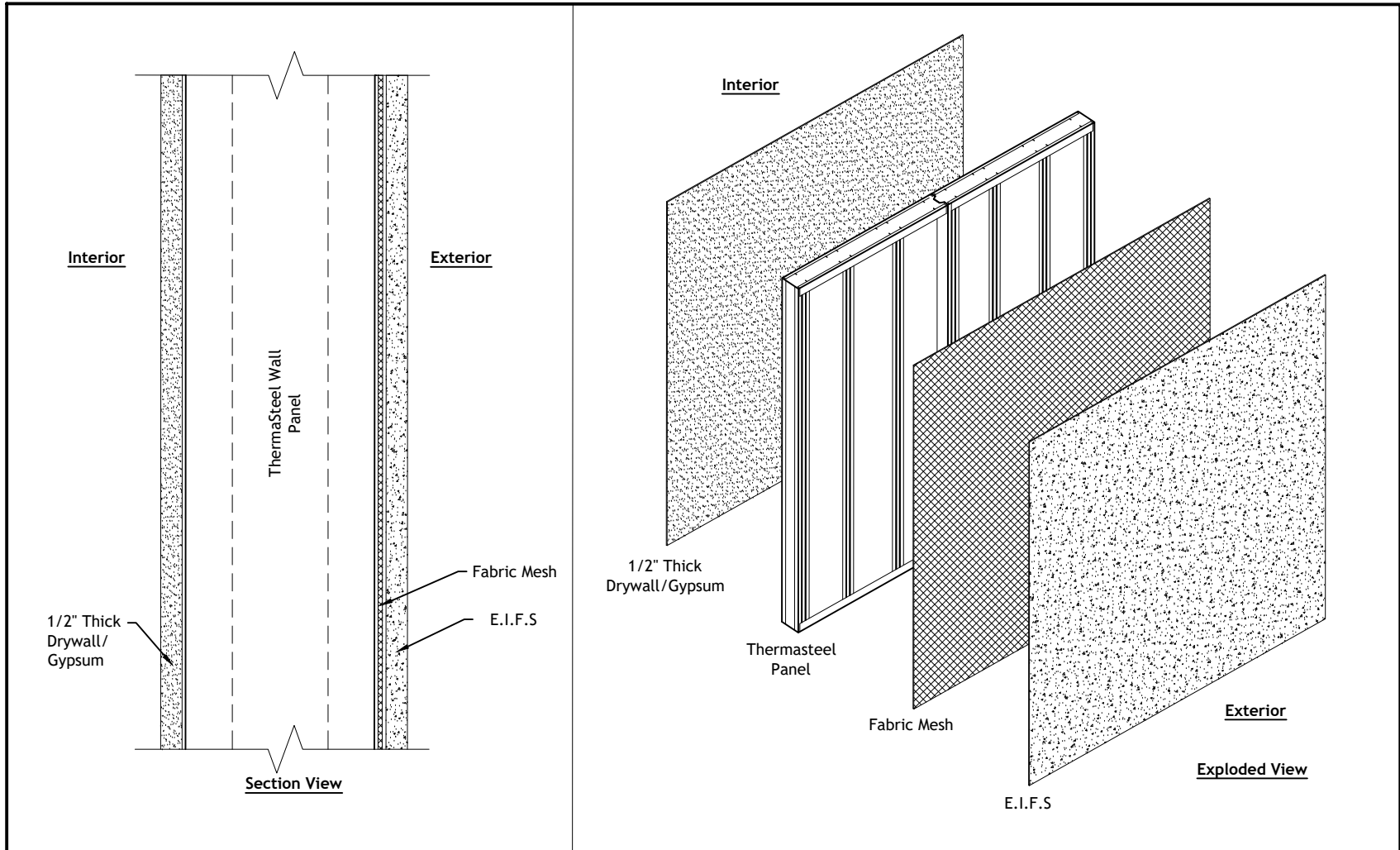
Not To Scale
Rev: 11/30/2021
Drawing Number
<b>MS-002</b>



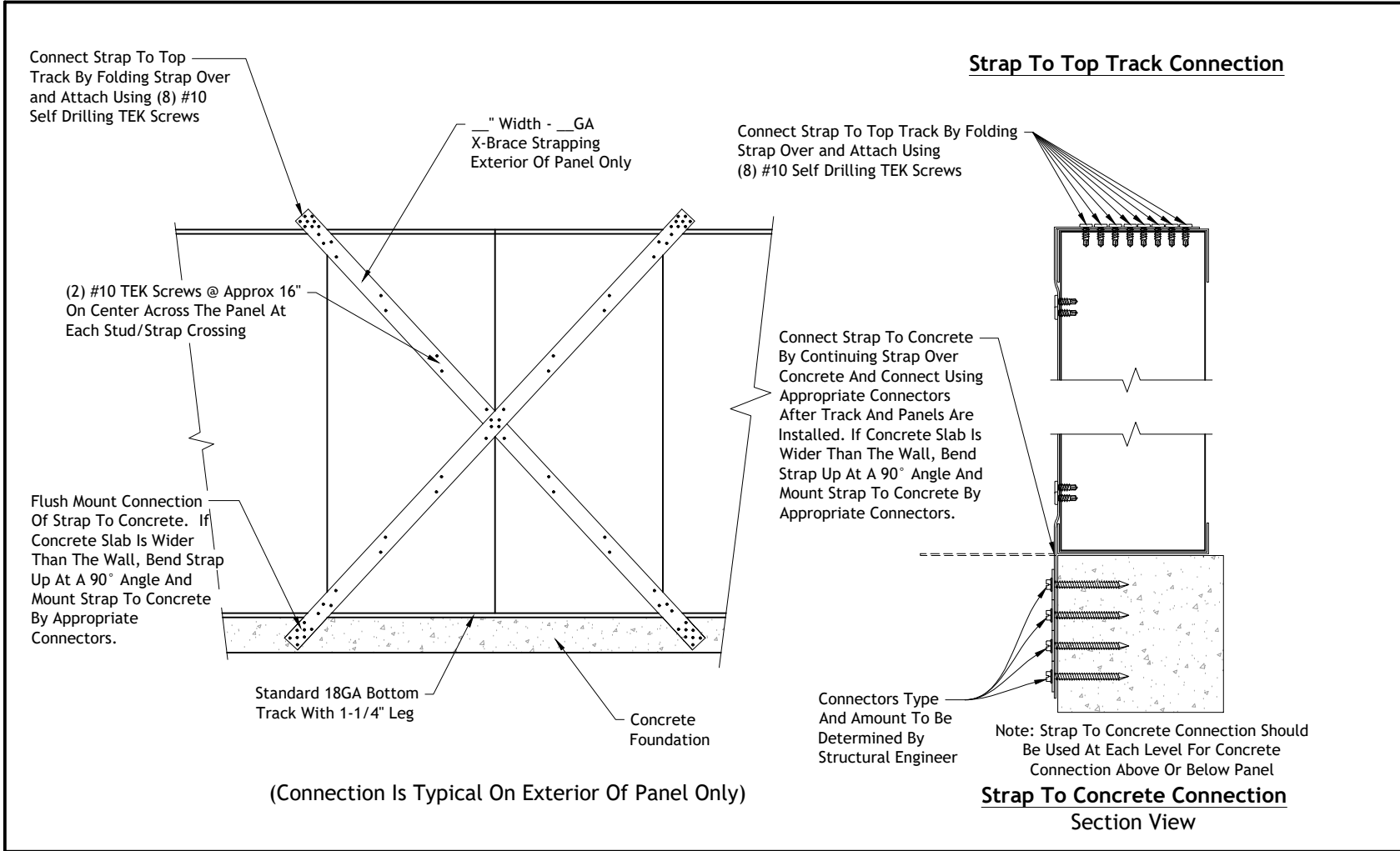
**Miscellaneous**

Standard Wood Stud Construction,  
Exterior Wall 8-Step Assembly

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>MS-003</b>



<b>Miscellaneous</b>	
ThermaSteel 5 1/2" Exterior Wall System 4-Step Assembly	
Not To Scale	
Rev: 11/30/2021	
Drawing Number	
<b>MS-004</b>	



**Miscellaneous**

**Shear Wall Cross Strapping Detail**

Not To Scale
Rev: 11/30/21
Drawing Number
<b>MS-005</b>

## Field Modifications

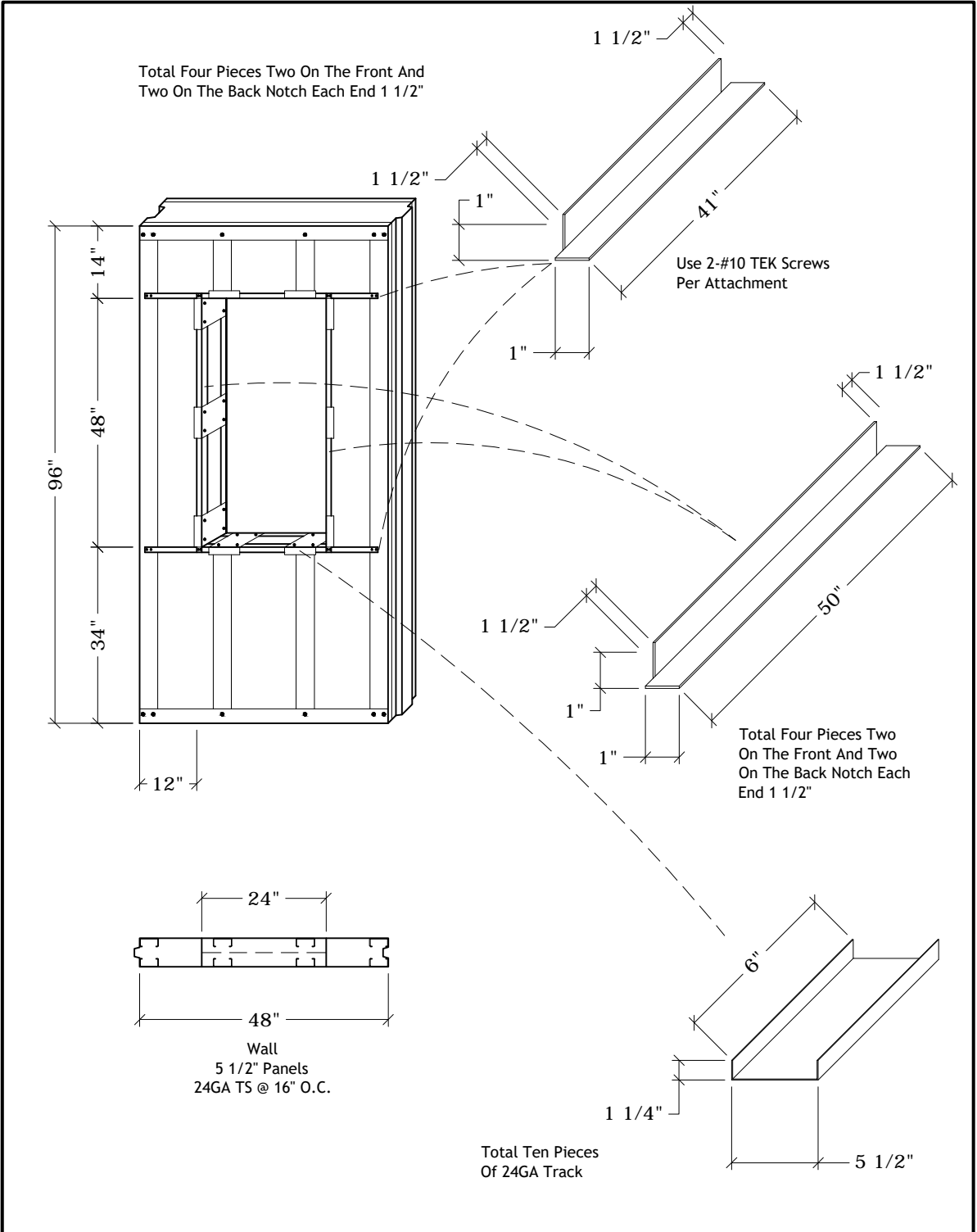
FM-001 Typical Field Cut Window With Track

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

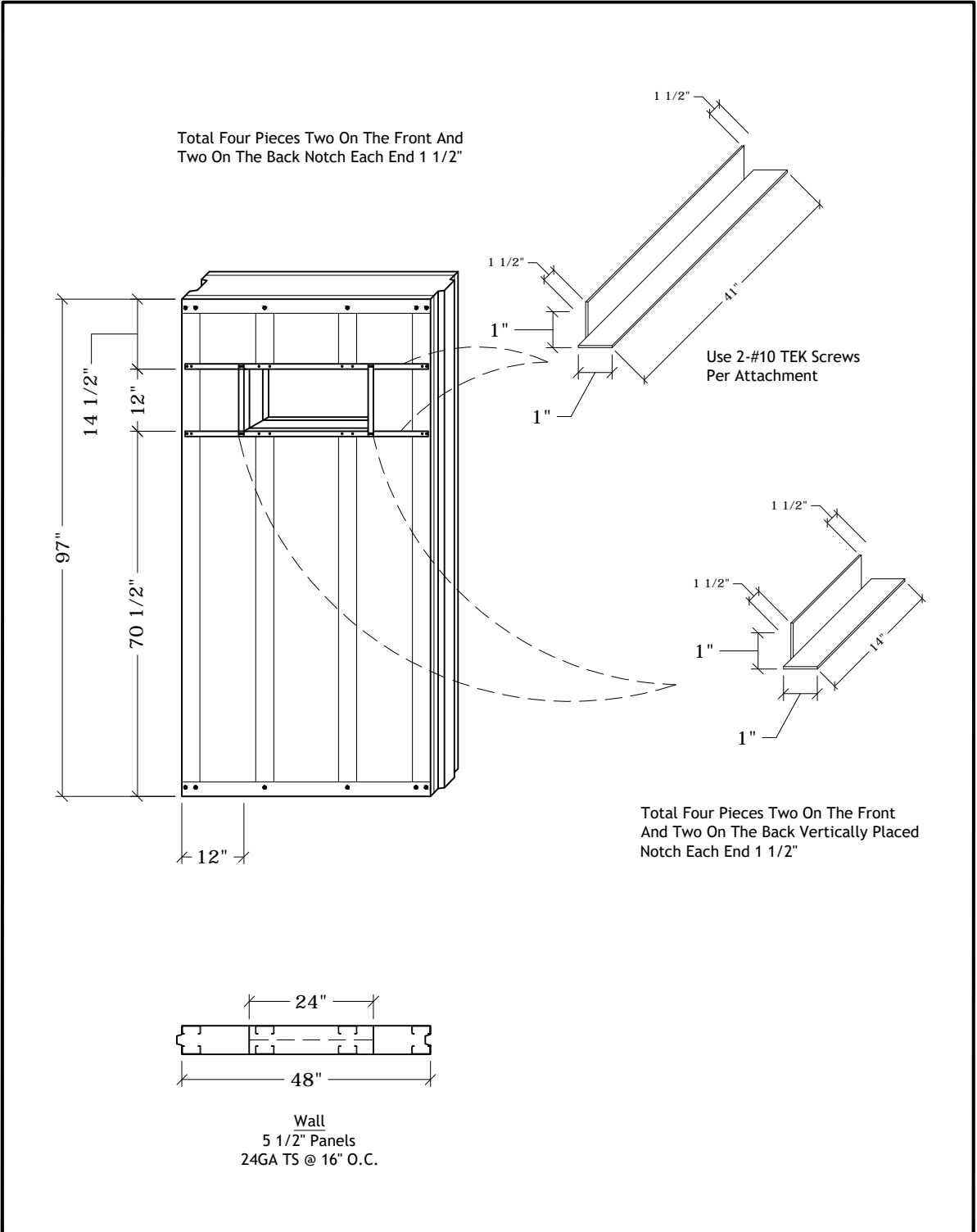


**THERMASTEEL**<sup>™</sup>  
 ADVANCED PANEL SYSTEMS

**Field Modifications**

Typical Field Cut  
 Window With Track

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



**THERMASTEEL**<sup>TM</sup>  
ADVANCED PANEL SYSTEMS

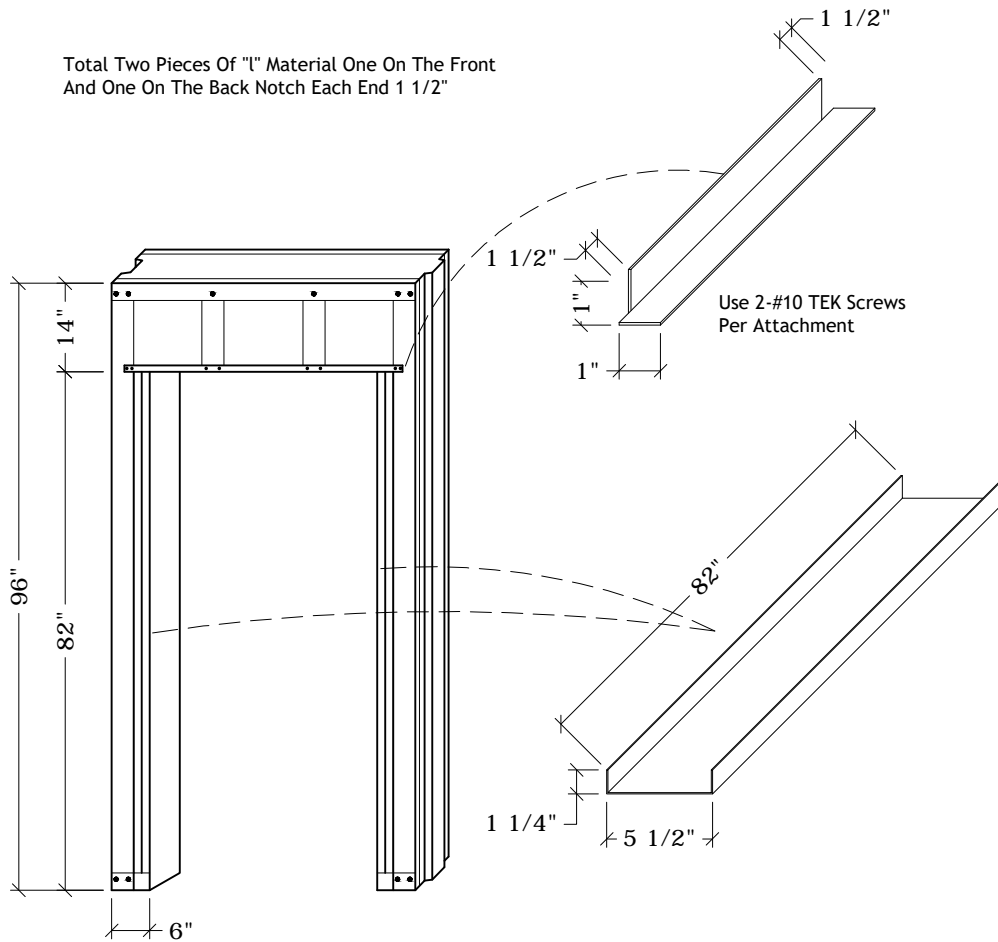
**Field Modifications**

Typical Field Cut  
Window

Not To Scale  
Rev: 11/30/2021  
Drawing Number  
**FM-002**

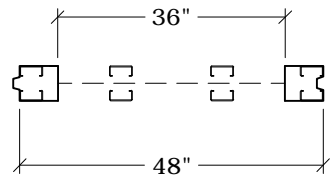


Total Two Pieces Of "I" Material One On The Front  
And One On The Back Notch Each End 1 1/2"



Use 2-#10 TEK Screws  
Per Attachment

Total Two Pieces Of 24 Ga  
Track One On Each Side



Wall  
5 1/2" Panels  
24GA TS @ 16" O.C.

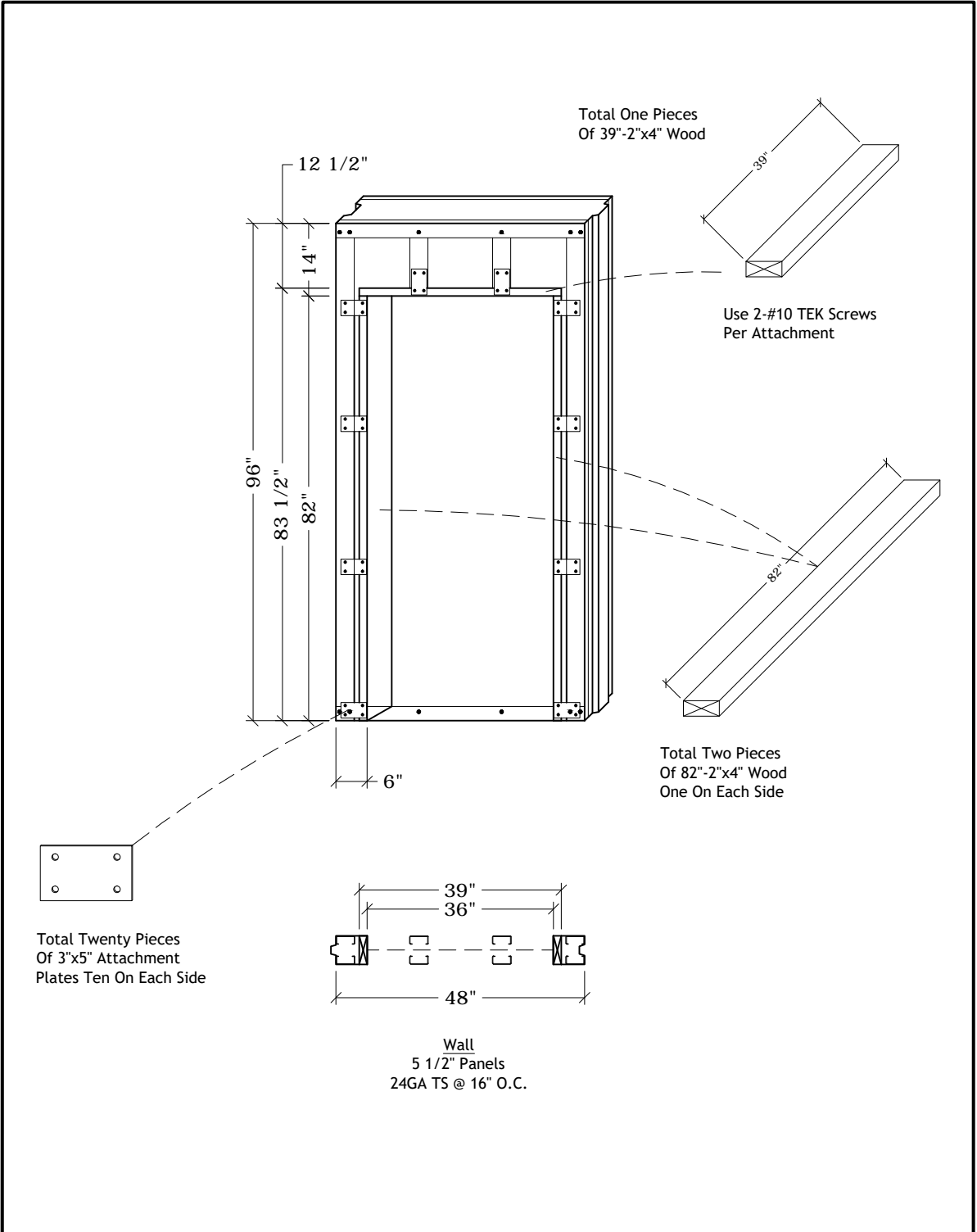



**THERMASTEEL**<sup>TM</sup>  
ADVANCED PANEL SYSTEMS

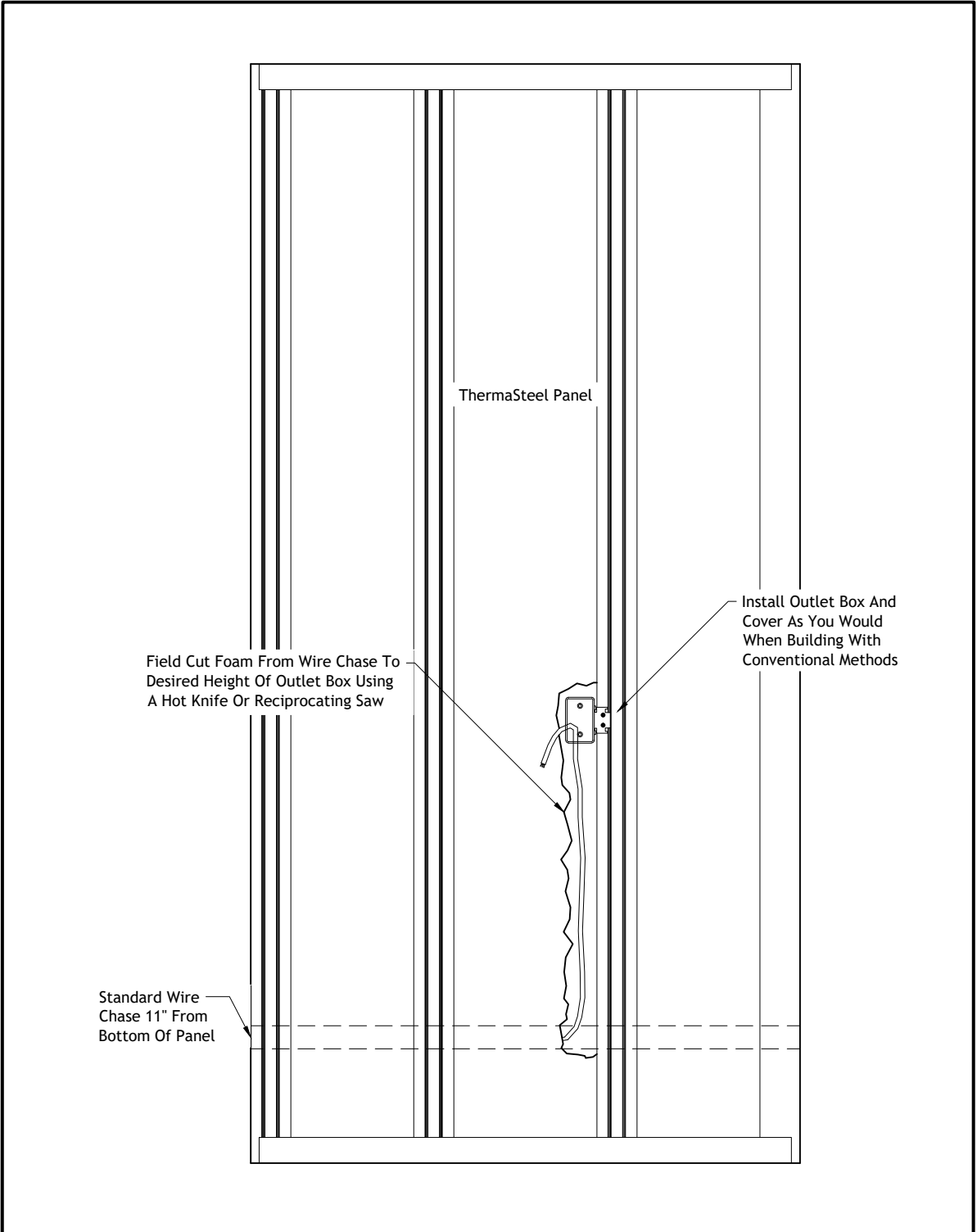
**Field Modifications**


Typical Field Cut  
Door With Track

Not To Scale
Rev: 11/30/2021
Drawing Number
<b>FM-003</b>



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



 <b>THERMASTEEL</b> <sup>TM</sup> ADVANCED PANEL SYSTEMS	<b>Field Modifications</b>	
	Typical Electrical Box Installation	
	Not To Scale	
	Rev: 11/30/2021	
		Drawing Number
		<b>FM-005</b>