



INSULATED METAL WALL PANEL SYSTEMS TABLE OF CONTENTS

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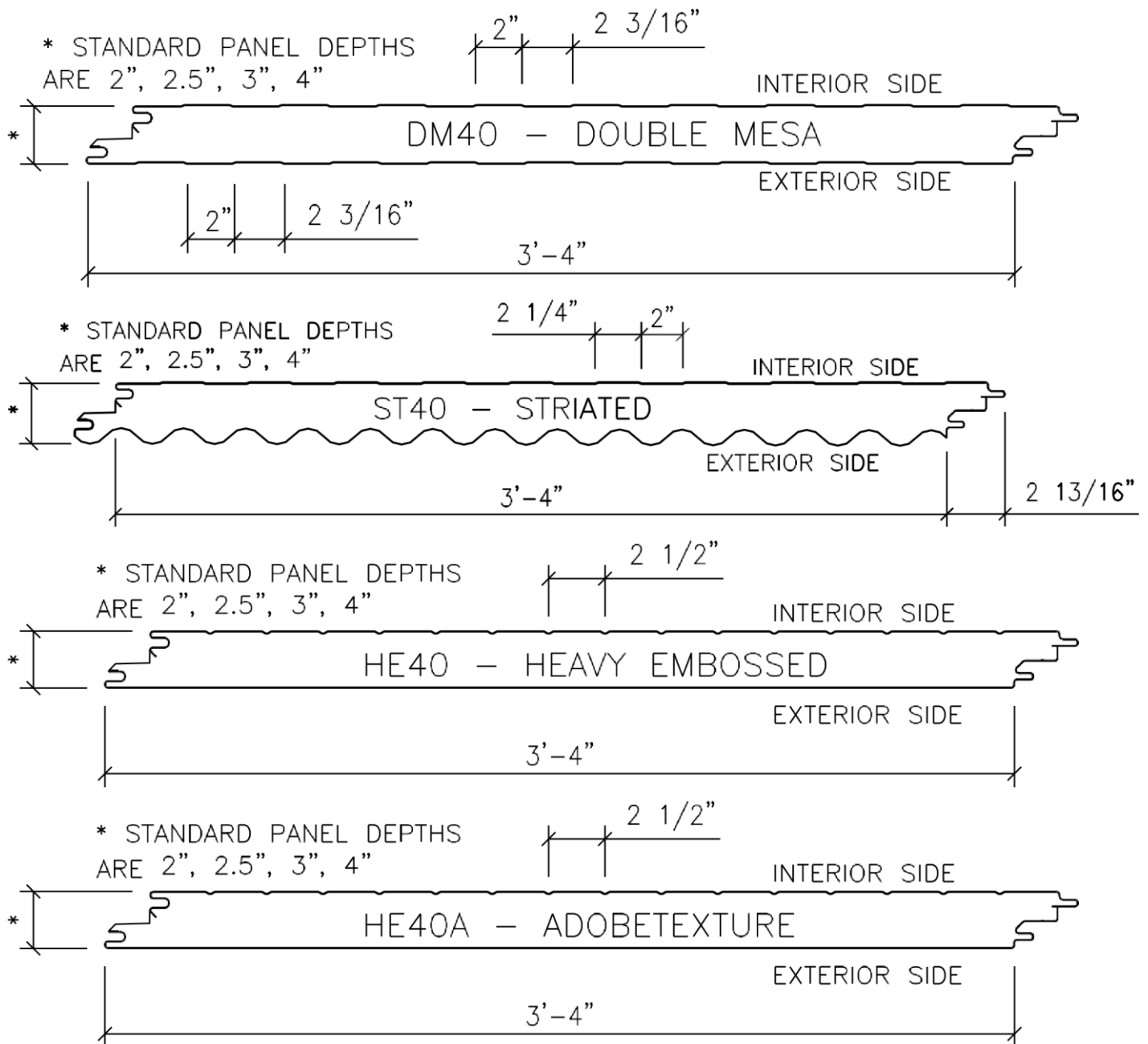
INSULATED WALL PANEL PROFILES

The below insulated metal wall panel system panels are available as components of one of Valley Steel Building Systems' Standard Metal Wall and Insulated Wall Systems.

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Information about the available panel thickness options, R and U factors, exterior and interior colors and finishes, available panel lengths, performance and testing information, and much more is available at the Valley Steel Building Systems website at the below links.

Insulated Metal Wall Panel Systems

The following pages outline span capacities for typical panel configurations as well as provide Valley Steel standard details for these wall systems.

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INSULATED METAL WALL PANEL SPAN TABLES

2" PANEL THICKNESS – STANDARD (2) FASTENERS

2" Insulated Metal Wall Panels (All Profiles)					– 26 Gauge Exterior/Interior – Standard (2) Fasteners				
Simple Span									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	65	n/c	65	65	65	65	65	65	65
6	49	n/c	49	49	49	49	49	49	49
7	38	n/c	38	38	38	38	38	38	38
8	30	n/c	30	30	30	30	30	30	30
9	24	n/c	24	24	24	24	24	24	24
10	19	n/c	19	19	19	19	19	19	19
11	15	n/c	15	15	15	15	15	15	15
12	13	n/c	13	13	13	13	13	13	13
Multiple (2+) Spans									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	70	n/c	28	32	36	47	50	50	50
6	55	n/c	23	26	30	39	42	42	42
7	44	n/c	20	22	26	33	36	36	36
8	36	n/c	17	20	22	29	31	31	31

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9	30	n/c	15	17	20	26	28	28	28
10	25	n/c	14	16	18	23	25	25	25
11	21	n/c	12	14	16	21	21	21	21
12	18	n/c	11	13	15	18	18	18	18

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

2" PANEL THICKNESS – OPTIONAL (3) FASTENERS

2" Insulated Metal Wall Panels (All Profiles)						– 26 Gauge Exterior/Interior – Optional (3) Fasteners			
Simple Span									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	65	n/c	65	65	65	65	65	65	65
6	49	n/c	49	49	49	49	49	49	49
7	38	n/c	38	38	38	38	38	38	38
8	30	n/c	30	30	30	30	30	30	30

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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9	24	n/c	24	24	24	24	24	24	24
10	19	n/c	19	19	19	19	19	19	19
11	15	n/c	15	15	15	15	15	15	15
12	13	n/c	13	13	13	13	13	13	13
Multiple (2+) Spans									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	70	n/c	42	48	50	50	50	50	50
6	55	n/c	35	40	42	42	42	42	42
7	44	n/c	30	34	36	36	36	36	36
8	36	n/c	26	30	31	31	31	31	31
9	30	n/c	23	26	28	28	28	28	28
10	25	n/c	21	24	25	25	25	25	25
11	21	n/c	19	21	21	21	21	21	21
12	18	n/c	17	18	18	18	18	18	18

2-1 1/2" PANEL THICKNESS – STANDARD (2) FASTENERS

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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2-1/2" Insulated Metal Wall Panels (All Profiles)
– 26 Gauge Exterior/Interior
– Standard (2) Fasteners
Simple Span

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	85	n/c	70	80	85	85	85	85	85
6	65	n/c	58	65	65	65	65	65	65
7	51	n/c	50	51	51	51	51	51	51
8	41	n/c	41	41	41	41	41	41	41
9	33	n/c	33	33	33	33	33	33	33
10	27	n/c	27	27	27	27	27	27	27
11	22	n/c	22	22	22	22	22	22	22
12	18	n/c	18	18	18	18	18	18	18

Multiple (2+) Spans

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	90	n/c	28	32	36	47	50	50	50

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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6	72	n/c	23	26	30	39	42	42	42
7	58	n/c	20	22	26	33	36	36	36
8	48	n/c	17	20	22	29	31	31	31
9	40	n/c	15	17	20	26	28	28	28
10	34	n/c	14	16	18	23	25	25	25
11	29	n/c	12	14	16	21	22	22	22
12	24	n/c	11	13	15	19	21	21	21

2-1/2" PANEL THICKNESS – OPTIONAL (3) FASTENERS

2-1/2" Insulated Metal Wall Panels (All Profiles)						– 26 Gauge Exterior/Interior – Optional (3) Fasteners			
Simple Span									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	85	n/c	85	85	85	85	85	85	85
6	65	n/c	65	65	65	65	65	65	65
7	51	n/c	51	51	51	51	51	51	51
8	41	n/c	41	41	41	41	41	41	41

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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9	33	n/c	33	33	33	33	33	33	33
10	27	n/c	27	27	27	27	27	27	27
11	22	n/c	22	22	22	22	22	22	22
12	18	n/c	18	18	18	18	18	18	18
Multiple (2+) Spans									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	90	n/c	42	48	50	50	50	50	50
6	72	n/c	35	40	42	42	42	42	42
7	58	n/c	30	34	36	36	36	36	36
8	48	n/c	26	30	31	31	31	31	31
9	40	n/c	23	26	28	28	28	28	28
10	34	n/c	21	24	25	25	25	25	25
11	29	n/c	19	21	22	22	22	22	22
12	24	n/c	17	20	21	21	21	21	21

3" PANEL THICKNESS – STANDARD (2) FASTENERS

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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3" Insulated Metal Wall Panels (All Profiles)

– 26 Gauge Exterior/Interior
– Standard (2) Fasteners

Simple Span

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	106	n/c	70	80	91	106	106	106	106
6	82	n/c	58	66	76	82	82	82	82
7	65	n/c	50	57	65	65	65	65	65
8	53	n/c	44	50	53	53	53	53	53
9	43	n/c	39	43	43	43	43	43	43
10	35	n/c	35	35	35	35	35	35	35
11	29	n/c	29	29	29	29	29	29	29
12	25	n/c	25	25	25	25	25	25	25

Multiple (2+) Spans

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	111	n/c	28	32	36	47	50	50	50

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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6	89	n/c	23	26	30	39	42	42	42
7	72	n/c	20	22	26	33	36	36	36
8	60	n/c	17	20	22	29	31	31	31
9	51	n/c	15	17	20	26	28	28	28
10	43	n/c	14	16	18	23	25	25	25
11	37	n/c	12	14	16	21	22	22	22
12	32	n/c	11	13	15	19	21	21	21

3" PANEL THICKNESS – OPTIONAL (3) FASTENERS

3" Insulated Metal Wall Panels (All Profiles)						– 26 Gauge Exterior/Interior – Optional (3) Fasteners			
Simple Span									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	106	n/c	105	106	106	106	106	106	106
6	82	n/c	82	82	82	82	82	82	82
7	65	n/c	65	65	65	65	65	65	65
8	53	n/c	53	53	53	53	53	53	53

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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9	43	n/c	43	43	43	43	43	43	43
10	35	n/c	35	35	35	35	35	35	35
11	29	n/c	29	29	29	29	29	29	29
12	25	n/c	25	25	25	25	25	25	25
Multiple (2+) Spans									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	111	n/c	42	48	50	50	50	50	50
6	89	n/c	35	40	42	42	42	42	42
7	72	n/c	30	34	36	36	36	36	36
8	60	n/c	26	30	31	31	31	31	31
9	51	n/c	23	26	28	28	28	28	28
10	43	n/c	21	24	25	25	25	25	25
11	37	n/c	19	21	22	22	22	22	22
12	32	n/c	17	20	21	21	21	21	21

4" PANEL THICKNESS – STANDARD (2) FASTENERS

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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4" Insulated Metal Wall Panels (All Profiles)

– 26 Gauge Exterior/Interior
– Standard (2) Fasteners

Simple Span

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	147	n/c	70	80	91	118	126	126	126
6	116	n/c	58	66	76	99	105	105	105
7	94	n/c	50	57	65	84	90	90	90
8	77	n/c	44	50	57	74	77	77	77
9	64	n/c	39	44	50	64	64	64	64
10	53	n/c	35	40	45	53	53	53	53
11	45	n/c	32	36	41	45	45	45	45
12	38	n/c	29	33	38	38	38	38	38

Multiple (2+) Spans

Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	153	n/c	28	32	36	47	50	50	50

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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6	123	n/c	23	26	30	39	42	42	42
7	101	n/c	20	22	26	33	36	36	36
8	85	n/c	17	20	22	29	31	31	31
9	72	n/c	15	17	20	26	28	28	28
10	62	n/c	14	16	18	23	25	25	25
11	54	n/c	12	14	16	21	22	22	22
12	47	n/c	11	13	15	19	21	21	21

4" PANEL THICKNESS – OPTIONAL (3) FASTENERS

4" Insulated Metal Wall Panels (All Profiles)						– 26 Gauge Exterior/Interior – Optional (3) Fasteners			
Simple Span									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	147	n/c	105	120	126	126	126	126	126
6	116	n/c	88	100	105	105	105	105	105
7	94	n/c	75	86	90	90	90	90	90
8	77	n/c	66	75	77	77	77	77	77

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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9	64	n/c	58	64	64	64	64	64	64
10	53	n/c	52	53	53	53	53	53	53
11	45	n/c	45	45	45	45	45	45	45
12	38	n/c	38	38	38	38	38	38	38
Multiple (2+) Spans									
Span (ft.)	Panel Capacity Pressure/Suction (psf)	Deflection L/180	Wind Pressure/Suction Capacity (psf) per Support Thickness						
			0.060	0.067	0.075	0.089	0.099	0.105	0.120
5	153	n/c	42	48	50	50	50	50	50
6	123	n/c	35	40	42	42	42	42	42
7	101	n/c	30	34	36	36	36	36	36
8	85	n/c	26	30	31	31	31	31	31
9	72	n/c	23	26	28	28	28	28	28
10	62	n/c	21	24	25	25	25	25	25
11	54	n/c	19	21	22	22	22	22	22
12	47	n/c	17	20	21	21	21	21	21

Insulated wall panel deflections are held to L/180. Contact the engineering team for minimum panel lengths, span capacities with different exterior or interior panel thicknesses, fastener configurations, or parapet conditions.

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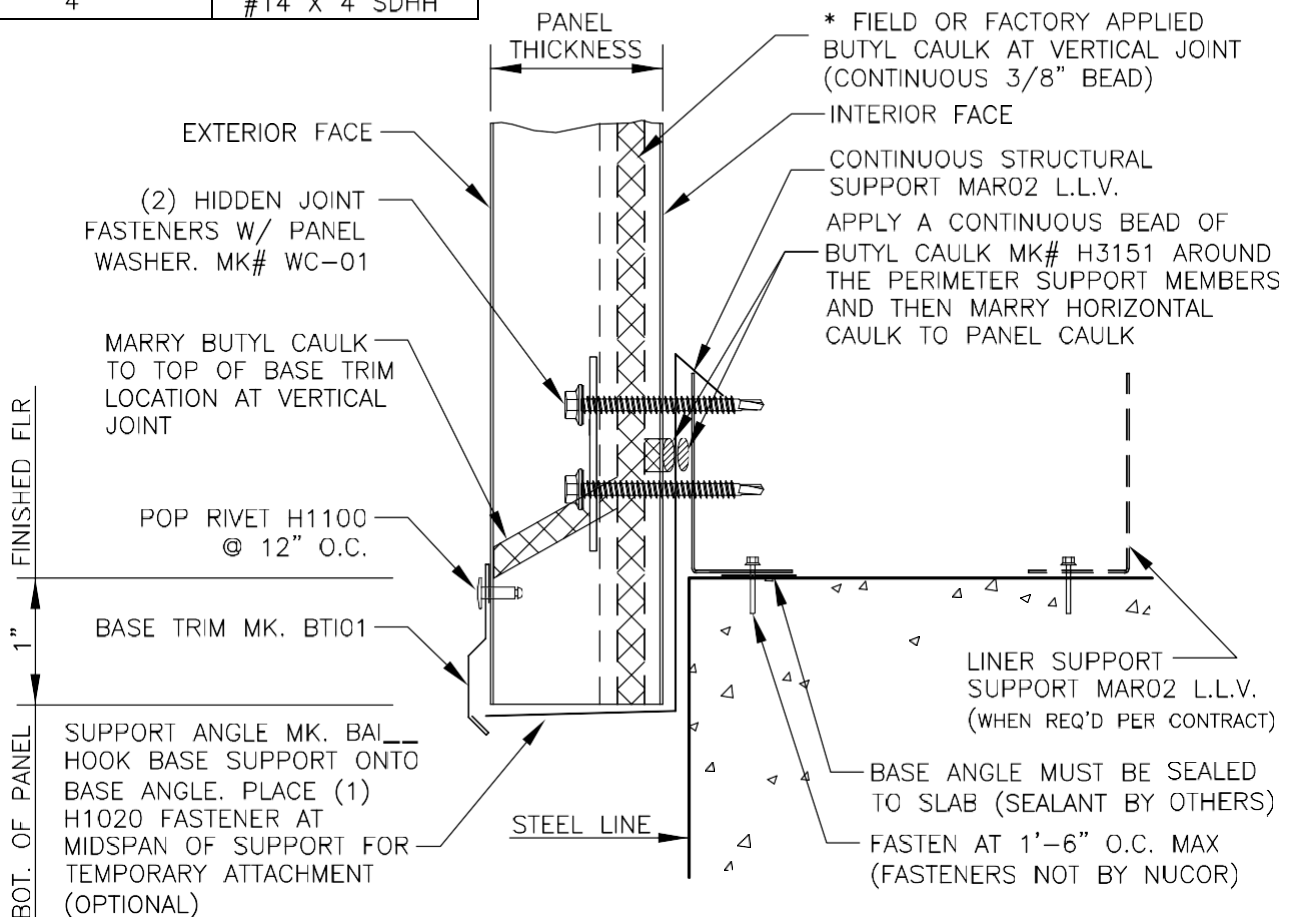
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STANDARD DETAILS

GB2300 - BASE TRIM

PANEL THICKNESS	HIDDEN FASTENER
2"	#14 X 2 SDHH
2 1/2"	#14 X 3 SDHH
3"	#14 X 3 SDHH
4"	#14 X 4 SDHH

* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK MK# H3151



BASE TRIM DETAIL

BASE TRIM WITH PANEL SUPPORT
SEE INSULATED WALL PANEL SHEETING ERECTION NOTES
FOR PANEL FASTENER LOCATIONS.

GB2300

- Base channel and structural cees can be substituted for the base angle.

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BY: AK EGB

[GB2300.dwg](#)

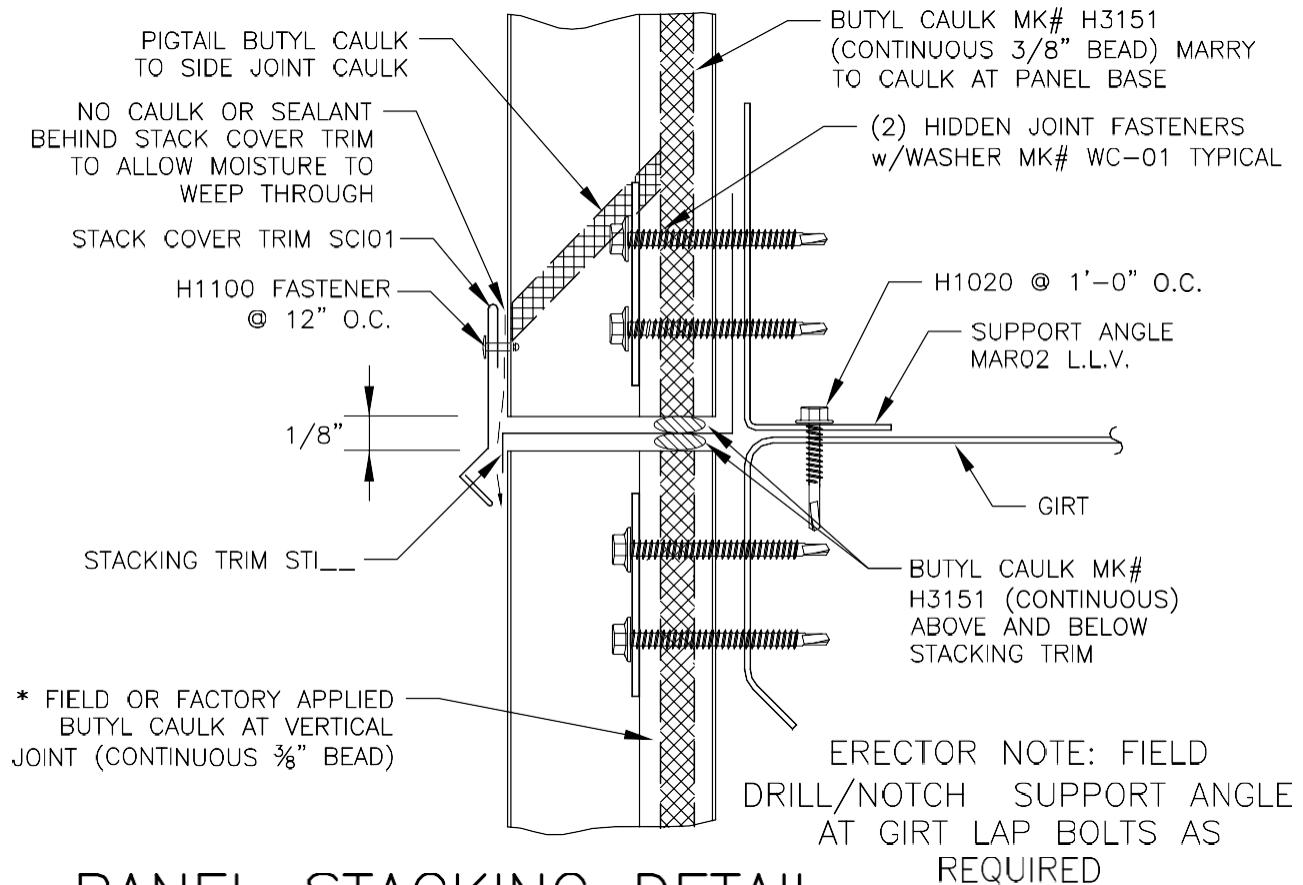
GA2042 - HORIZONTAL JOINT

PANEL THICKNESS	HIDDEN FASTENER	UNTIL WALL PANELS ARE INSTALLED, POP RIVETS ARE TO BE USED FOR TEMPORARY INSTALLATION OF STACKING TRIM.	* ENSURE CAULK IS CONTINUOUS, IF NO CAULK IS PRESENT OR IF CAULK IS NOT CONTINUOUS, FIELD APPLY CONTINUOUS CAULK H3151
2"	X 2		
2			
	X 3		
1/2" 3"	#14		
	#14		
	#14 X 3		
	#14		
	X 4		

DATE: **6.7.19**
BY: **CHK:**

LAST **DETAIL**

APPLICABLE



PANEL STACKING DETAIL

INSULATED WALL PANELS

PANEL SHIMMING MAY BE REQUIRED. PANEL SHIMS BY OTHERS

GA2042

This is the *standard* splice when panel lengths violate the Solar Load Chart length requirements. An alternate Exterior Relief Cut is available if you prefer longer length panels.

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02/16/15

NAME IF

AK EGB
LASTDETAIL

[GA2042.dwg](#)

APPLICABLE

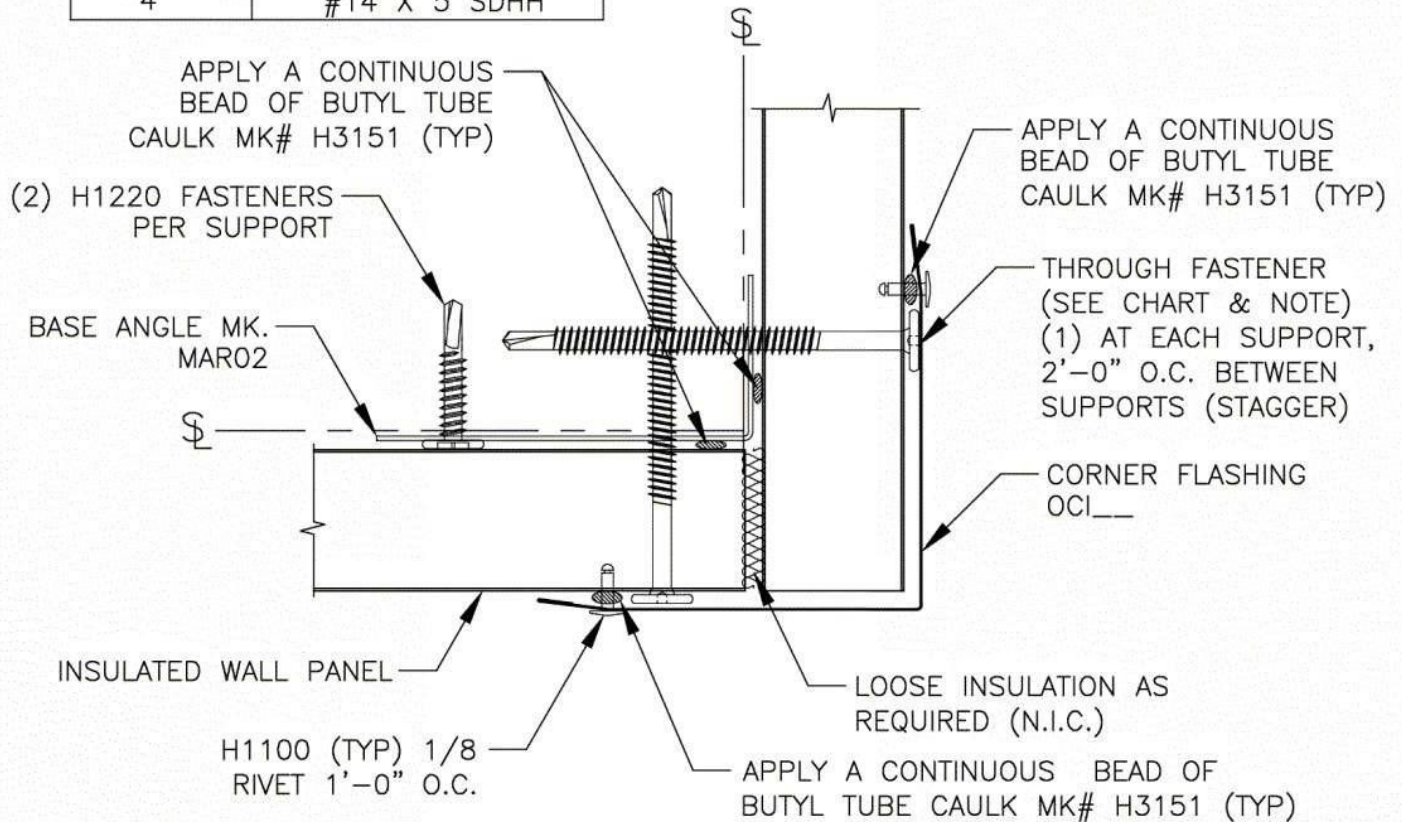
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GC2021PE - OUTSIDE CORNER TRIM

DATE:	LAST	<u>DETAIL</u>	APPLICABLE
BY:	CHK:	6.7.21	



PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDHH
2 1/2"	#14 X 4 SDHH
3"	#14 X 4 SDHH
4"	#14 X 5 SDHH



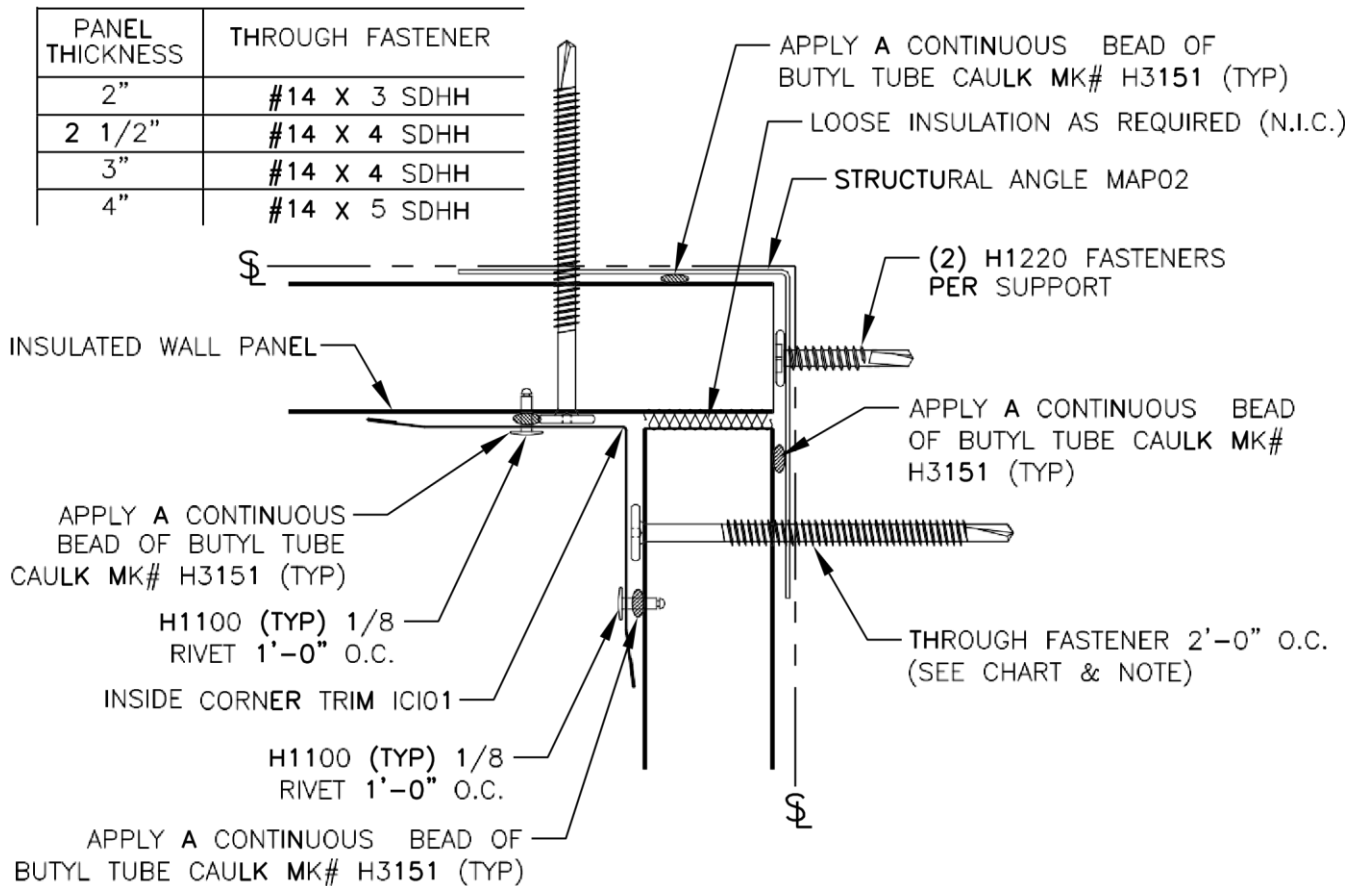
OUTSIDE CORNER DETAIL

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NAME IF
[GC2021PE.dwg](#)

SAA AES

GC2051PE - INSIDE CORNER TRIM



INSIDE CORNER DETAIL

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BY: _____
CHK: _____

LASTDETAIL

APPLICABLE

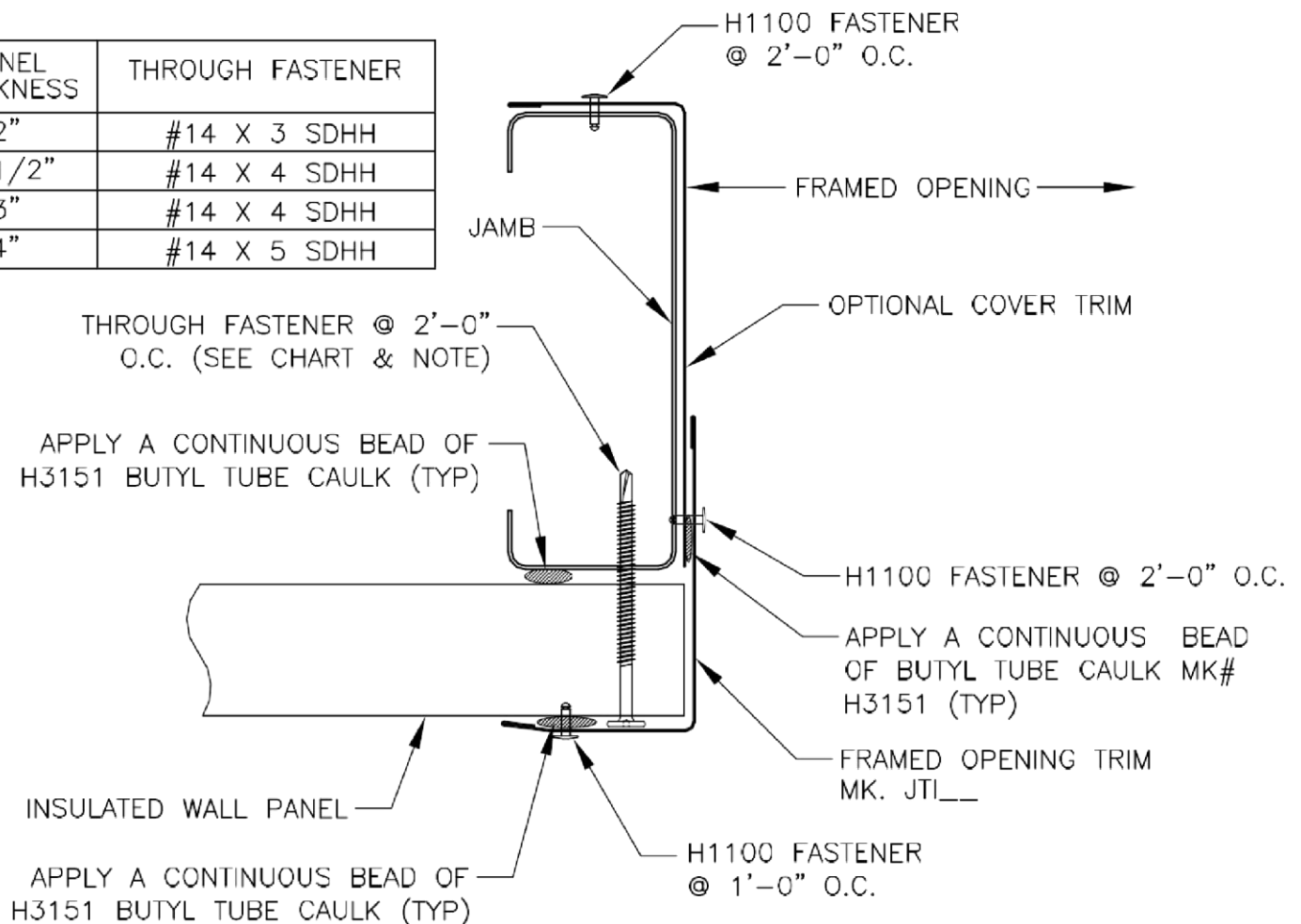
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TBS AES

GD2020PE - JAMB TRIM

NAME IF
[GC2051PE.dwg](#)

PANEL THICKNESS	THROUGH FASTENER
2"	#14 X 3 SDHH
2 1/2"	#14 X 4 SDHH
3"	#14 X 4 SDHH
4"	#14 X 5 SDHH



LASTDETAIL

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JAMB DETAIL

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GD2040PE - HEADER TRIM

NAME IF

[GD2020PE.dwg](#)

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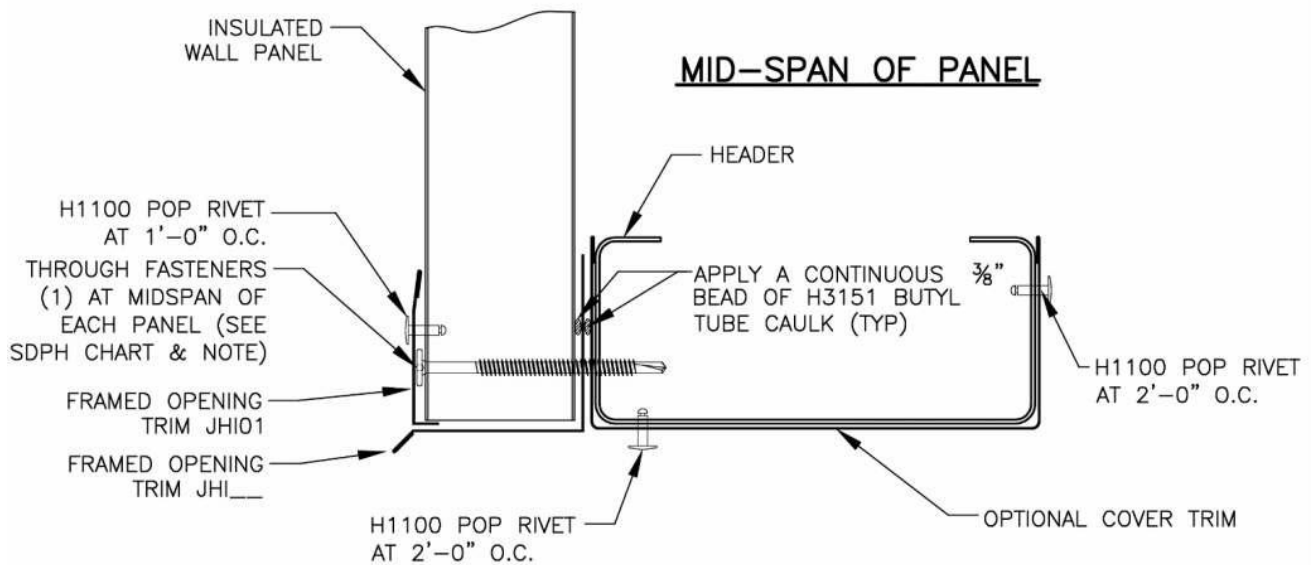
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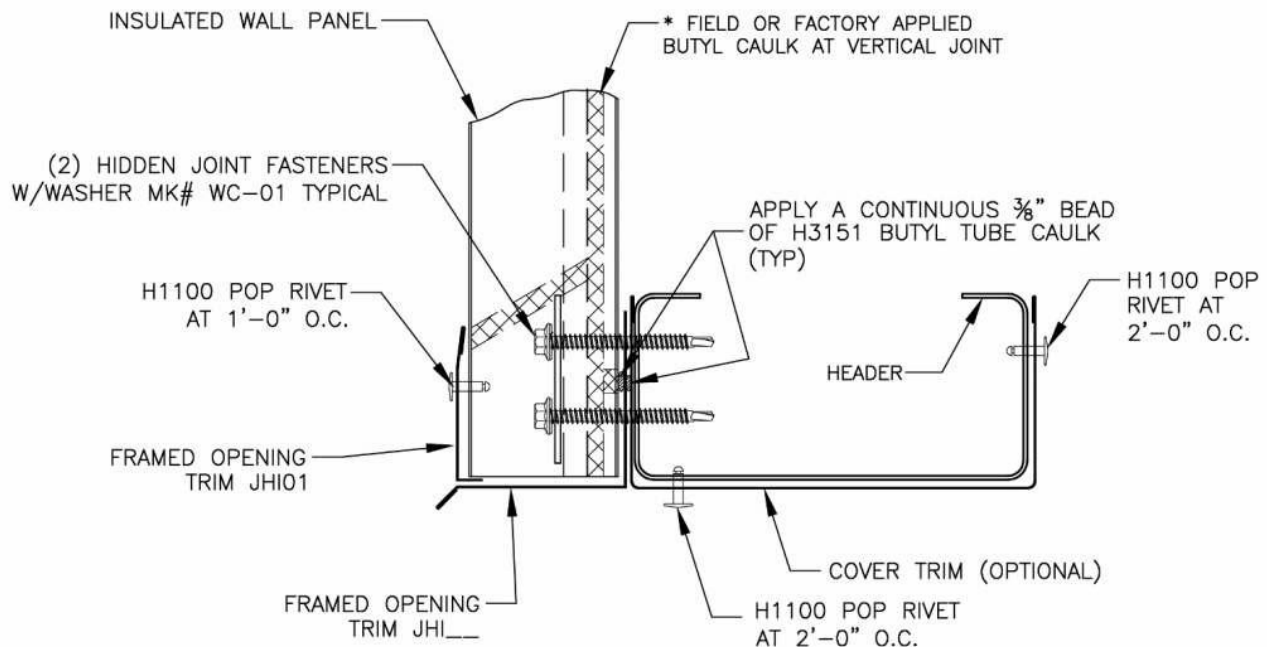
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BY:

CHK:



PANEL THICKNESS	THROUGH FASTENER	HIDDEN FASTENER
2"	#14 X 3 SDPH	#14 X 2 SDHH
2 1/2"	#14 X 4 SDPH	#14 X 3 SDHH
3"	#14 X 4 SDPH	#14 X 3 SDHH
4"	#14 X 5 SDPH	#14 X 4 SDHH



SIDE JOINT OF PANEL

DATE:
BY:



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SAA

EGB

NAME IF

[GD2040PE.dwg](#)

LAST DETAIL

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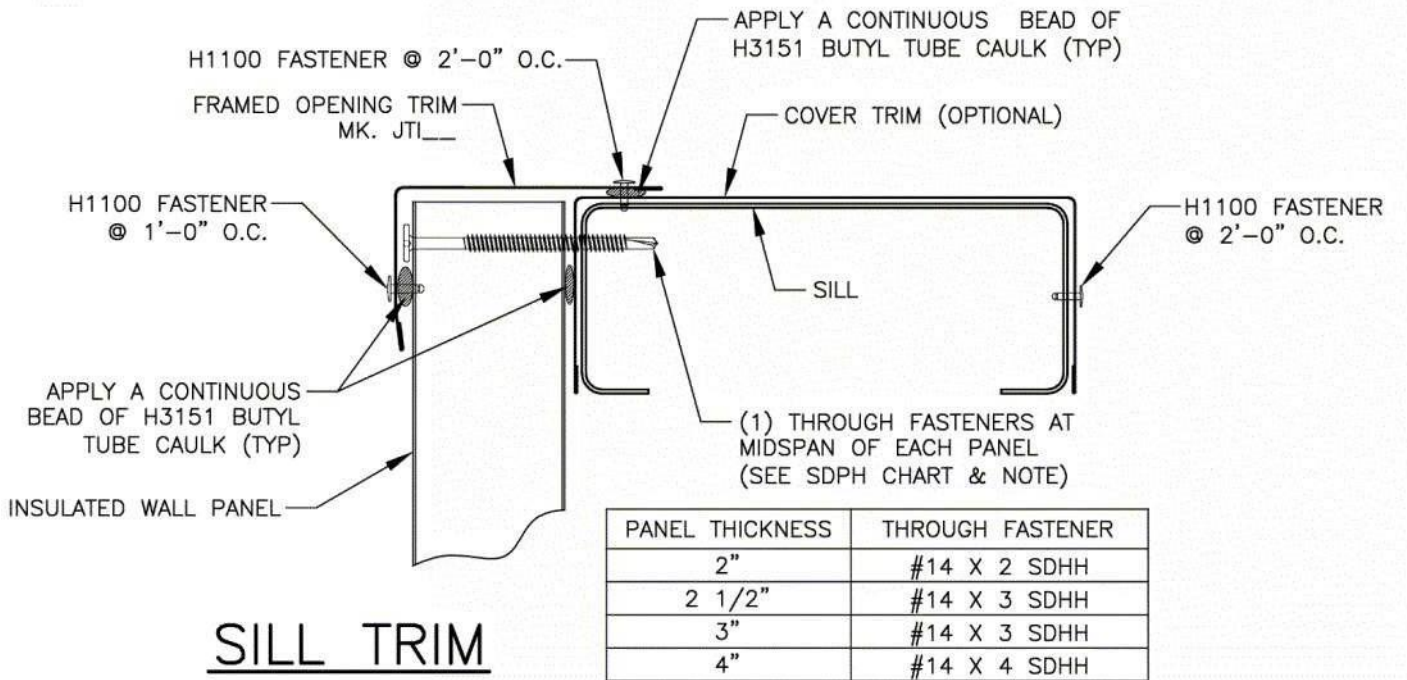
APPLICABLE

DATE:

BY:

CHK:

GD2070PE - SILL TRIM



LAST REVISION

DATE: 10/04/16

BY: SAA CHK: AES

DETAIL NAME IF APPLICABLE

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