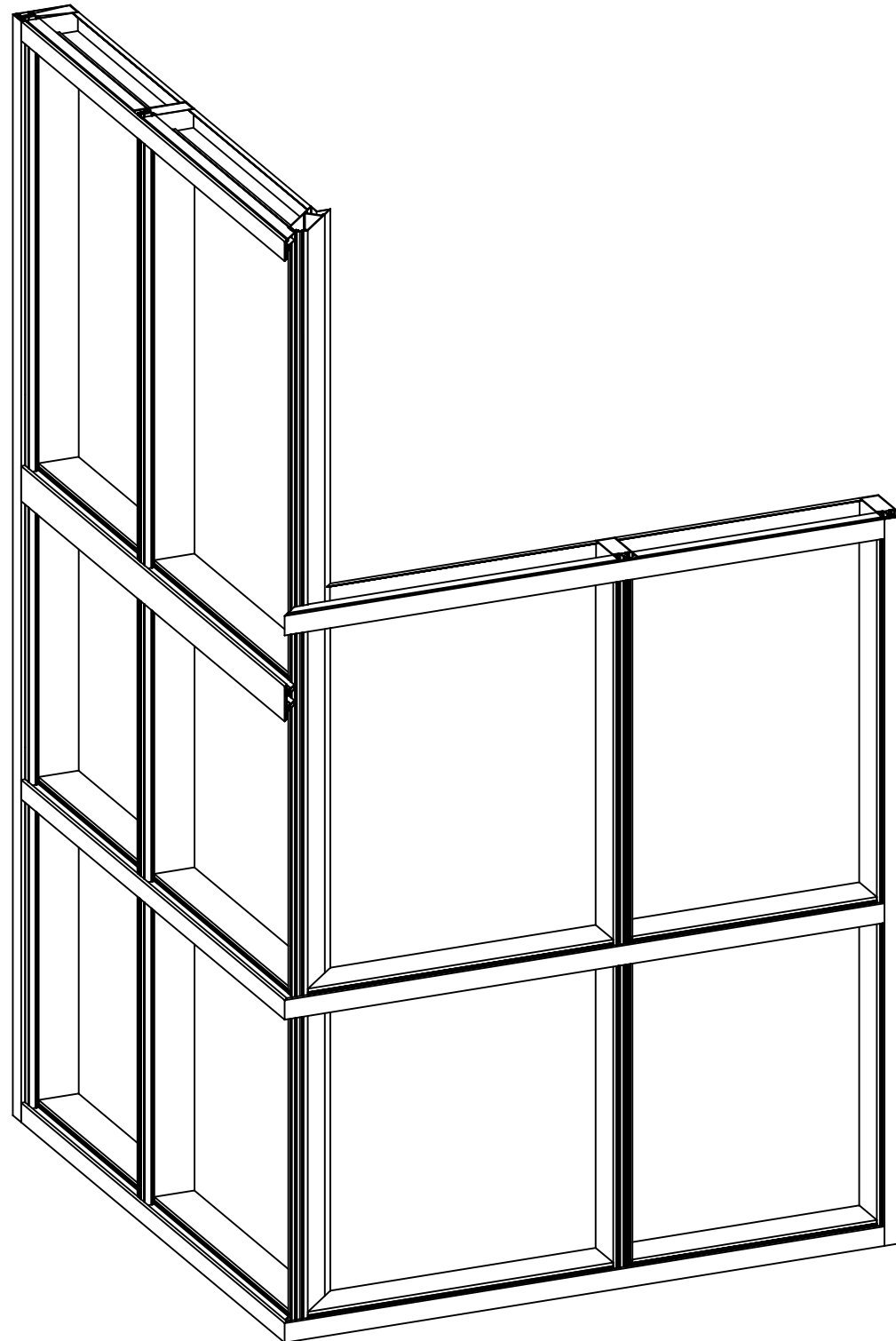


# Oldcastle BuildingEnvelope®

## Reliance™ StormMax® SSG ALUMINUM CURTAINWALL SYSTEM (LARGE AND SMALL MISSILE IMPACT)



### GENERAL NOTES:

- THIS SYSTEM HAS BEEN TESTED AND EVALUATED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE WITH LATEST APPLICABLE TEXAS REVISIONS PER
  - ASTM E330-14, E331-00, E283-04, E1886-13a, E1996-14
  - TAS 201 / 202 / 203
  - AAMA 501
  - ANSI Z97.1-2015 (400 ft-lb. IMPACT)
  - ALUMINUM DESIGN MANUAL 2015, ASCE 7-16
- SITE-SPECIFIC REQUIRED DESIGN PRESSURES SHALL BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER FOR USE WITH THIS DOCUMENT PER CURRENT ADOPTED EDITION OF ASCE 7 AND WITH LOCAL CODE REQUIREMENTS.
- THIS PRODUCT HAS BEEN DESIGNED FOR USE FOR ALL AREAS WITHIN TEXAS AS DEFINED BY THE TEXAS DEPARTMENT OF INSURANCE.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd-1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBER FROM DISSIMILAR MATERIALS OR PREVENT ELECTROLYSIS.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 1.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING AND ANY OTHER TDI REQUIREMENTS:  
Oldcastle BuildingEnvelope®  
803 AIRPORT ROAD  
TERRELL, TEXAS 75160

### SHEET INDEX

# SHEET	DESCRIPTION
01	COVER SHEET
02	ELEVATIONS
03-07	GLASS LOADING TABLES
08	SINGLE SPAN MULLION & JAMB LOAD DETERMINATION
09-15	SINGLE SPAN MULLION LOADING TABLES
16	MULLION & JAMB LOAD DETERMINATION
17-23	TWIN SPAN MULLION LOADING TABLES
24-29	ANCHORING SCHEDULE
30-36	DETAILS
37-38	ZONE PLUG AND PRESSURE PLATE INSTALLATION
39	SUNSHADE OPTION
40-44	EXTRUSIONS / PART LIST
44	TOTAL

VISIT [ECALC.IO/30425](http://ECALC.IO/30425)  
FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

Oldcastle BuildingEnvelope®

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

01 OF 44



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

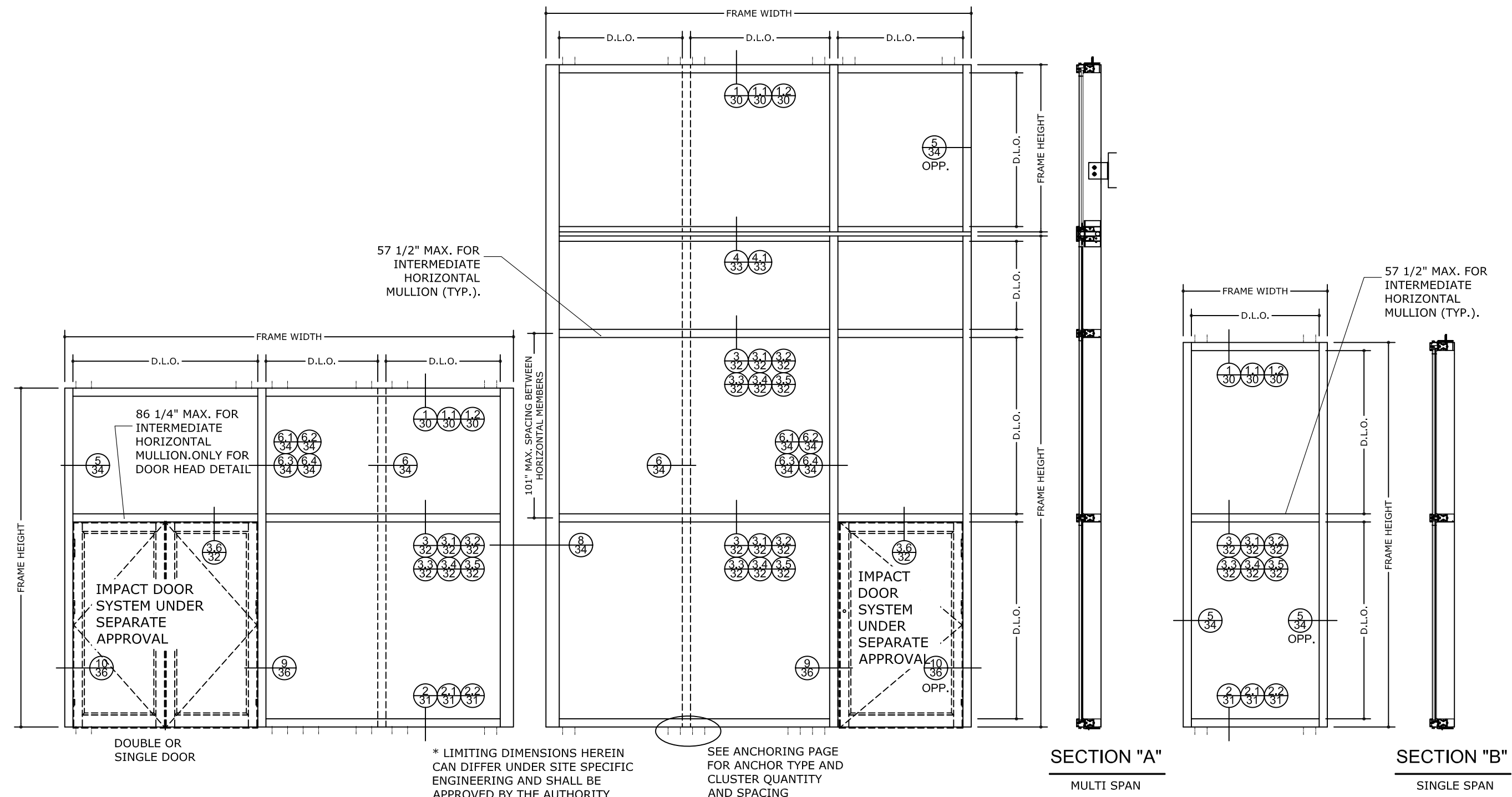
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

02 OF 44



**TYPICAL CURTAINWALL ELEVATION**

**SECTION "A"**  
MULTI SPAN

**SECTION "B"**  
SINGLE SPAN

**TYPICAL SINGLE PANEL OPENING**

**INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING**

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS  
NOTE: TO DETERMINE THE LOADS OF THE MULLIONS, SEE DIAGRAMS ON PAGES 08 & 16  
NOTE: FOR TWIN SPANS, BOTH MULLIONS SPANS NEED TO BE LOOKED UP IN THE MULLION LOADING TABLES AND THE MINIMUM PRESSURE SHALL GOVERN.

STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.

**WATER INFILTRATION NOTE:**  
WATER RESISTANCE PER TAS 202 AND ASTM E331= 15 P.S.F

FRAME SIZE FOR SINGLE OPENINGS SHALL BE GOVERNED BY THE MAXIMUM ALLOWABLE D.L.O. DIMENSIONS DISPLAYED ON THE GLASS CHARTS

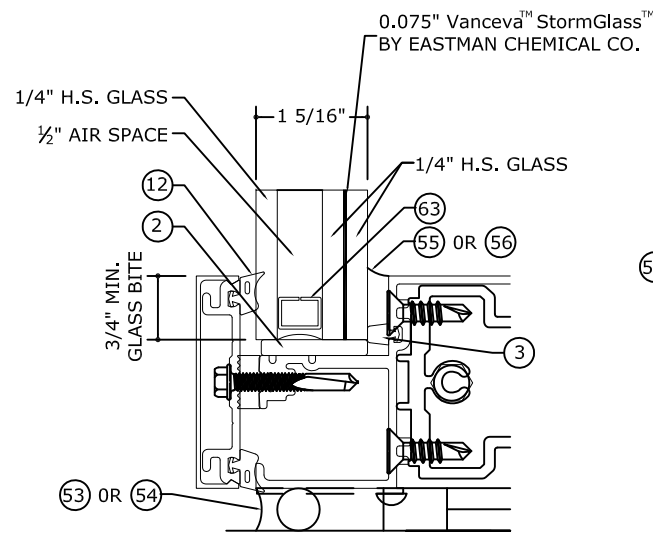
\* LIMITING DIMENSIONS HEREIN CAN DIFFER UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ)

SEE ANCHORING PAGE FOR ANCHOR TYPE AND CLUSTER QUANTITY AND SPACING

C:\Users\thayer\appdata\local\temp\AcP\ubfish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

04/02/2021 - 1:22pm thayer

# GLASS TYPE (L.M.I.) - MISSILE LEVEL "D"



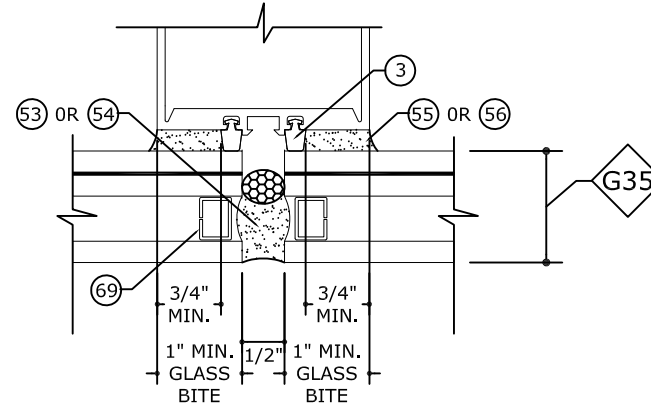
GLASS TYPE **G35**

GLAZING DETAIL

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D  
1 5/16" GLASS



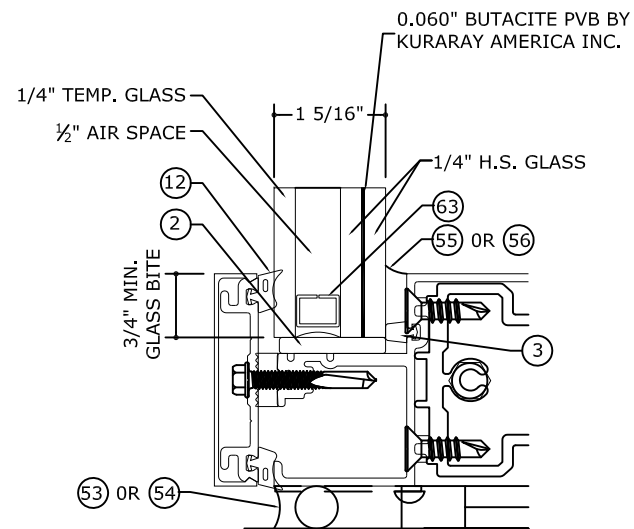
GLAZING DETAIL (TOP VIEW)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D  
1 5/16" GLASS

# GLASS TYPES (S.M.I.)



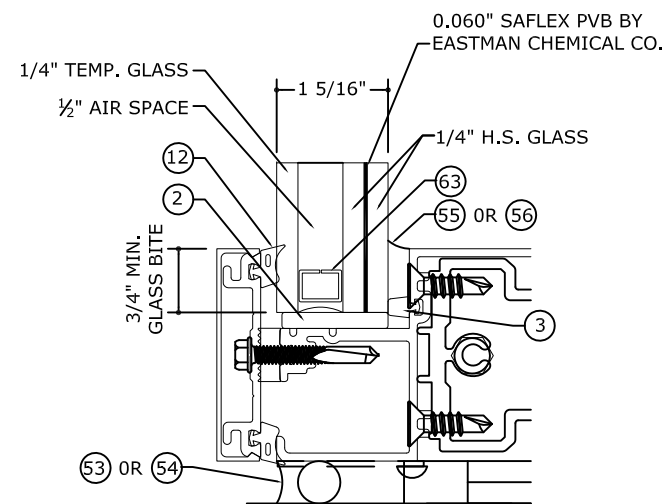
GLASS TYPE **G7**

GLAZING DETAIL

N.T.S.

GLASS RATING:

SMALL MISSILE  
1 5/16" GLASS



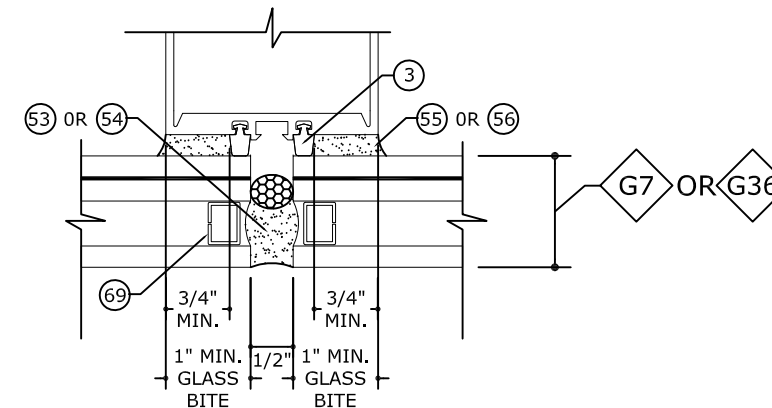
GLASS TYPE **G36**

GLAZING DETAIL

N.T.S.

GLASS RATING:

SMALL MISSILE  
1 5/16" GLASS



GLAZING DETAIL (TOP VIEW)

N.T.S.

GLASS RATING:

SMALL MISSILE  
1 5/16" GLASS



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

03 OF 44

# GLASS LOADING TABLES - MISSILE LEVEL "D"

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

04

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
24	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90
	30	24	90
30		90	90
36		90	90
42		90	90
45 1/2		90	90
48		90	90
54		90	90
57 1/2		90	90
60		90	90
66		90	90
72		90	90
36		24	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
42	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90
	48	24	90
30		90	90
36		90	90
42		90	90
45 1/2		90	90
48		85	85
54		85	85
57 1/2		85	85
60		85	85
66		85	85
72		85	85
54		24	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	75	75
	60	75	75
	66	75	75
	72	75	75

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
60	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	71	71
	60	68	68
	66	68	68
	72	68	68
	66	24	90
30		90	90
36		90	90
42		90	90
45 1/2		90	90
48		85	85
54		75	75
57 1/2		71	71
60		68	68
66		62	62
72		-	-
72		24	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	71	71
	60	68	68
	66	-	-
	72	-	-

**NOTE:**  
D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN BE REVERSED.

C:\Users\thayer\appdata\local\temp\AcP\Pub\fish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:22pm



# GLASS LOADING TABLES - MISSILE LEVEL "D"

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

05

OF 44

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
78	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-
84	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-
90	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
96	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-
101	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-
108	24	90	90
	30	90	90
	36	90	90
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-

GLASS TYPES		GLASS TYPE <b>LOADING CHART (L.M.I.)</b>	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
114	24	90	90
	30	90	90
	36	90	90
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-
120	24	90	90
	30	90	90
	36	90	90
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-

NOTE:  
D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN  
BE REVERSED.

C:\Users\thayer\appdata\local\temp\AcPublish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:22pm

# GLASS LOADING TABLES - SMALL MISSILE

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS®**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

06 OF 44

GLASS TYPES		GLASS TYPE LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
24	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90
30	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90
36	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90

GLASS TYPES		GLASS TYPE LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
42	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	90	90
	54	90	90
	57 1/2	90	90
	60	90	90
	66	90	90
	72	90	90
48	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	85	85
	57 1/2	85	85
	60	85	85
	66	85	85
	72	85	85
54	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	75	75
	60	75	75
	66	75	75
	72	-	-

GLASS TYPES		GLASS TYPE LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
60	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	71	71
	60	68	68
	66	-	-
	72	-	-
66	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	75	75
	57 1/2	71	71
	60	-	-
	66	-	-
	72	-	-
72	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
	72	-	-

NOTE:  
D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN  
BE REVERSED.

C:\Users\thayer\appdata\local\temp\AcFpublsh\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:22pm

# GLASS LOADING TABLES - SMALL MISSILE

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS®**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

07

OF 44

GLASS TYPES		GLASS TYPE	
		LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
78	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	85	85
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
84	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	90	90
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
90	24	90	90
	30	90	90
	36	90	90
	42	90	90
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
72	-	-	

GLASS TYPES		GLASS TYPE	
		LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
96	24	90	90
	30	90	90
	36	90	90
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
101	24	90	90
	30	90	90
	36	90	90
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
108	24	90	90
	30	90	90
	36	-	-
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
72	-	-	

GLASS TYPES		GLASS TYPE	
		LOADING CHART (S.M.I.)	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
114	24	90	90
	30	90	90
	36	-	-
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
120	24	90	90
	30	90	90
	36	-	-
	42	-	-
	45 1/2	-	-
	48	-	-
	54	-	-
	57 1/2	-	-
	60	-	-
	66	-	-
72	-	-	

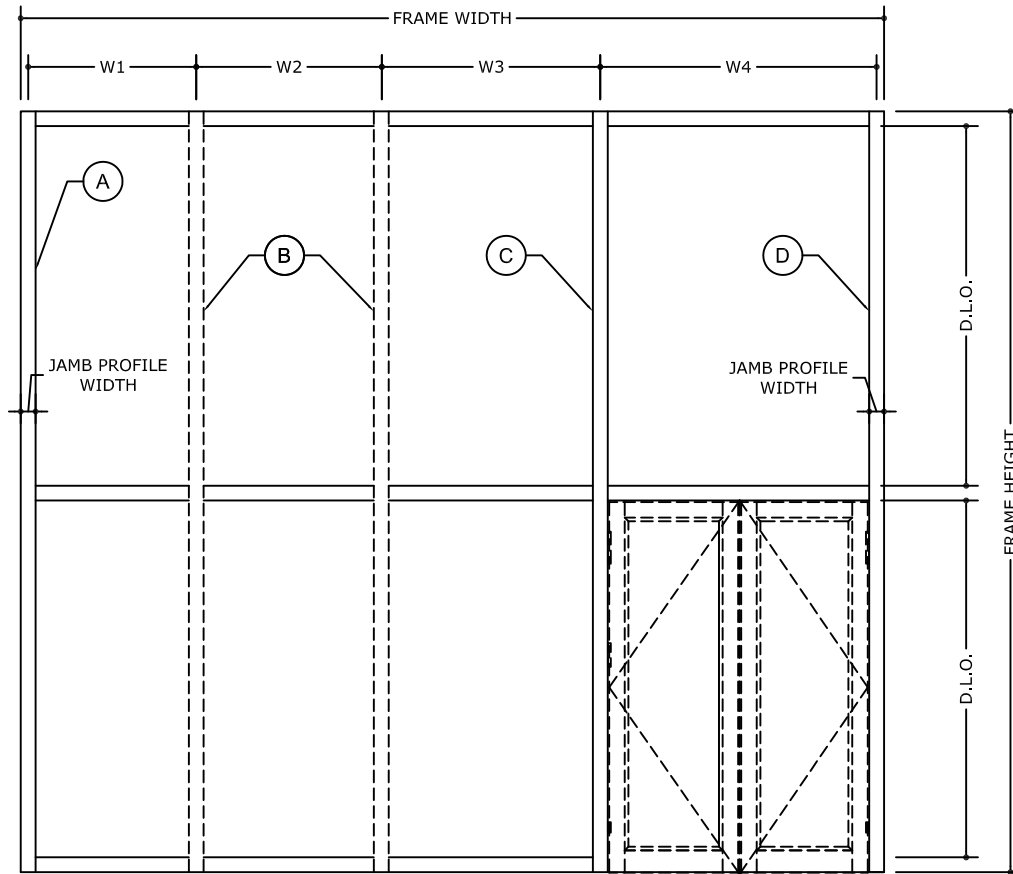
NOTE:  
D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN  
BE REVERSED.

C:\Users\thayer\appdata\local\temp\AcFpublsh\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:22pm

# SINGLE SPAN MULLION DETERMINATION LOAD



## LOAD DETERMINATION

L = FRAME HEIGHT  
JAMB WIDTH = 3"

$$\text{EFFECTIVE SPACING A} = \frac{W1}{2} + 1/2" \text{ JAMB WIDTH}$$

(FOR STANDARD JAMB MULLION)

$$\text{EFFECTIVE SPACING B} = \frac{W1 + W2}{2} \text{ OR } \frac{W2 + W3}{2}$$

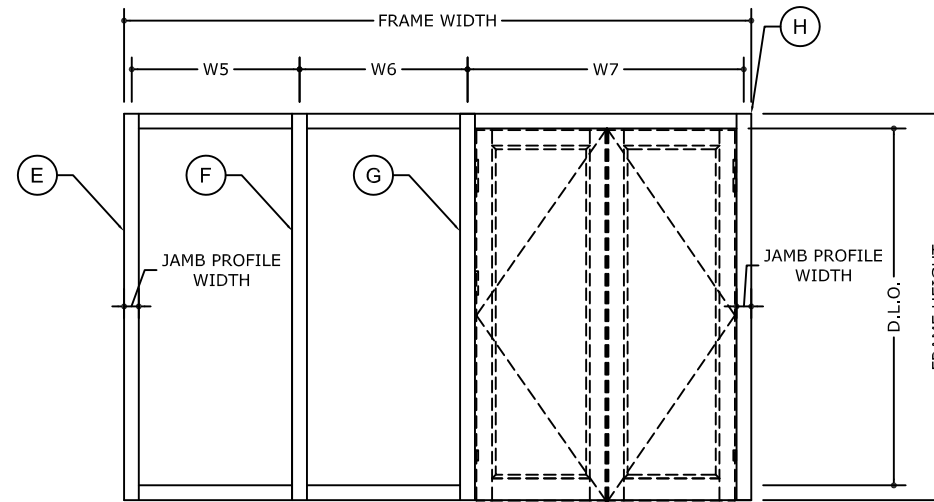
(FOR STANDARD MULLION)

$$\text{EFFECTIVE SPACING C} = \frac{W3 + W4}{2}$$

(FOR INTERMEDIATE DOOR MULLION)

$$\text{EFFECTIVE SPACING D} = \frac{W4}{2} + 1/2" \text{ JAMB WIDTH}$$

(FOR DOOR JAMB MULLION)



## LOAD DETERMINATION

L = FRAME HEIGHT  
JAMB WIDTH = 3"

$$\text{EFFECTIVE SPACING E} = \frac{W5}{2} + 1/2" \text{ JAMB WIDTH}$$

(FOR STANDARD JAMB MULLION)

$$\text{EFFECTIVE SPACING F} = \frac{W5 + W6}{2}$$

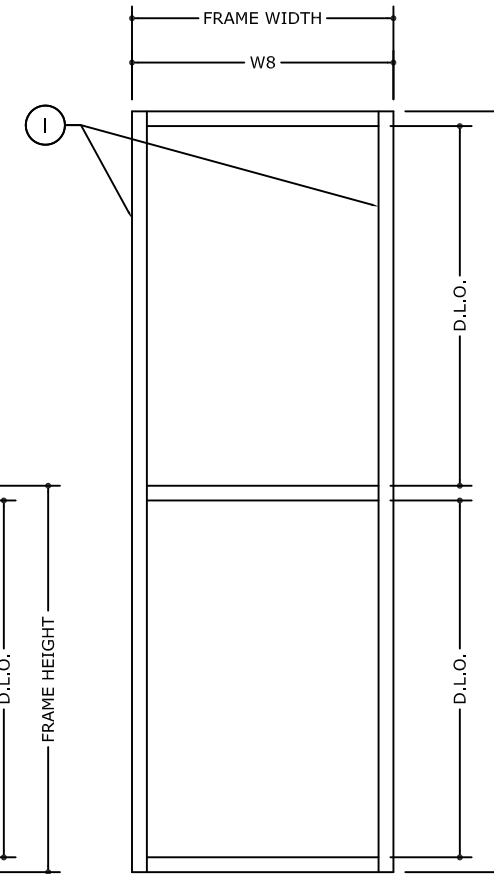
(FOR STANDARD MULLION)

$$\text{EFFECTIVE SPACING G} = \frac{W6}{2} + \frac{W7}{4}$$

(FOR INTERMEDIATE DOOR MULLION)

$$\text{EFFECTIVE SPACING H} = \frac{W7}{4} + 1/2" \text{ JAMB WIDTH}$$

(FOR DOOR JAMB MULLION)



## LOAD DETERMINATION

L = FRAME HEIGHT  
JAMB WIDTH = 3"

$$\text{EFFECTIVE SPACING I} = \frac{W8}{2} + 1/2" \text{ JAMB WIDTH}$$

(FOR STANDARD JAMB MULLION)

- (A) (E) (I) JAMB MULLION
- (B) (F) STANDARD MULLION
- (C) (G) DOOR JAMB INTERMEDIATE MULLION
- (D) (H) DOOR JAMB MULLION



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

08 OF 44



# RELIANCE STORMMAX™ SSG SINGLE SPAN MULLION

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

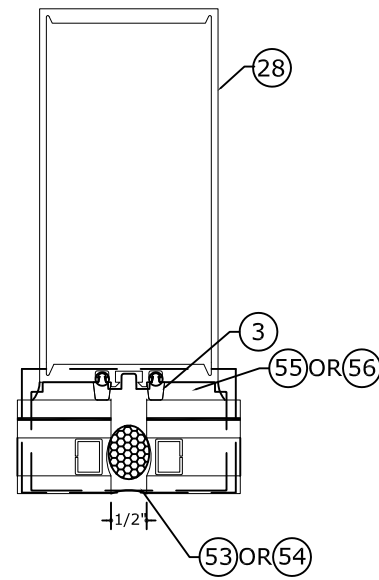
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

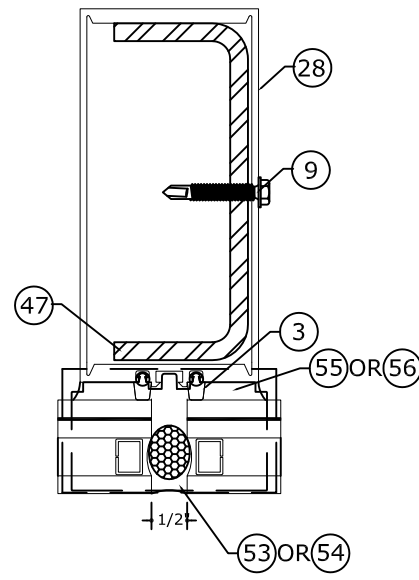
20-30425.3

SCALE: NTS UNLESS NOTED

09 OF 44

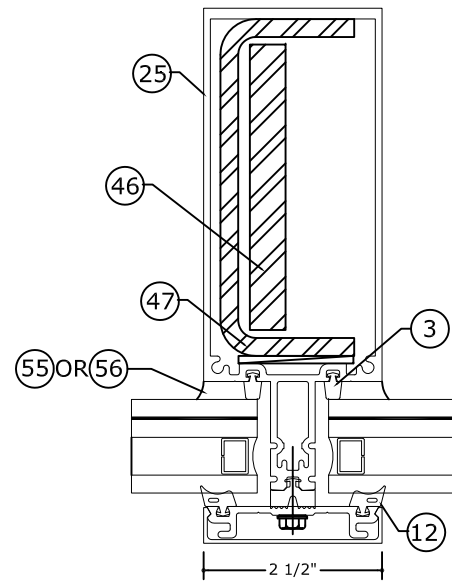
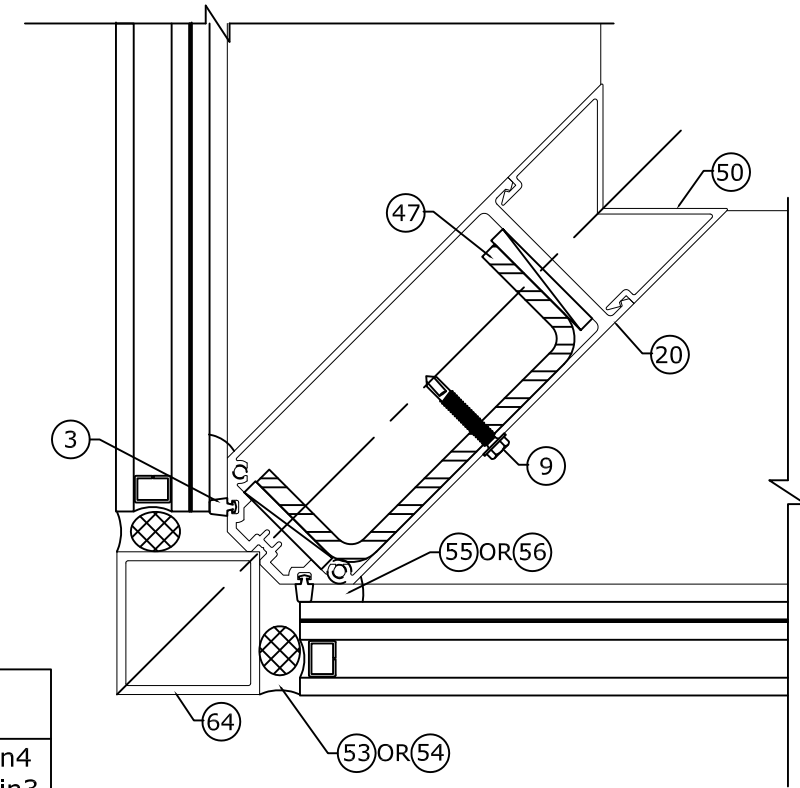


**M1**  
Ix= 8.0273 in4  
Sx= 3.0435 in3  
IN TERMS OF ALUMINUM

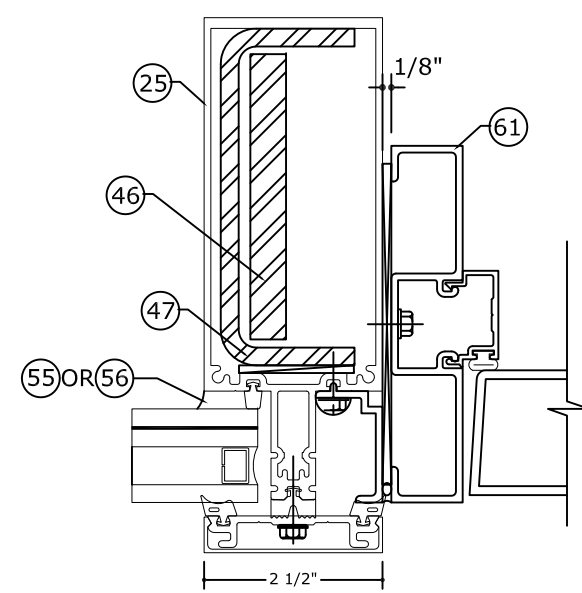


**M2**  
Ix= 25.5382 in4  
Sx= 9.8032 in3  
IN TERMS OF ALUMINUM

**CM1**  
Ix= 27.782 in4  
Sx= 8.6737 in3  
IN TERMS OF ALUMINUM



**DJM1**  
Ix= 37.488 in4  
Sx= 9.085 in3  
IN TERMS OF ALUMINUM



**DJ1**  
Ix= 37.488 in4  
Sx= 9.085 in3  
IN TERMS OF ALUMINUM

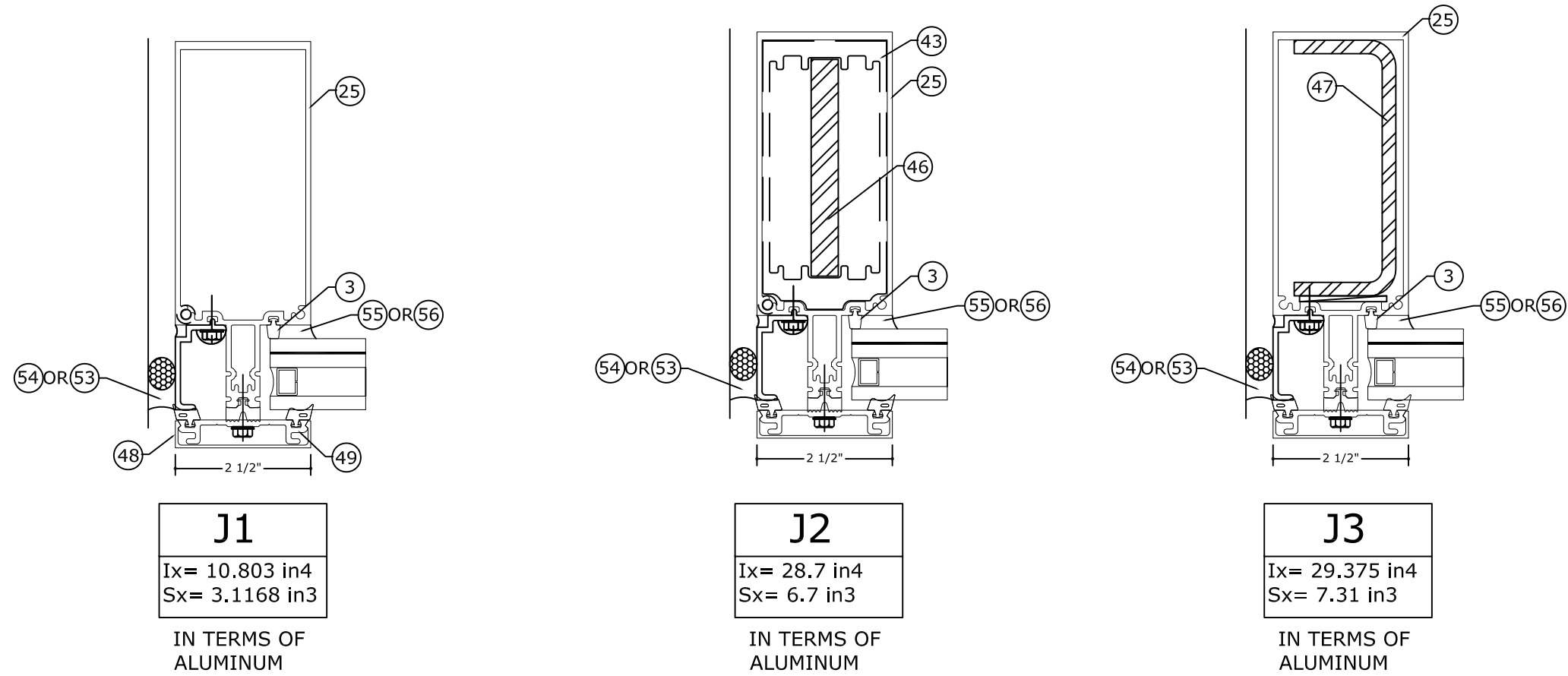
NOTE:  
REINFORCEMENT MEMBERS  
MUST BE SHIMMED TIGHT.

# RELIANCE STORMMAX™ SSG SINGLE SPAN JAMB

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

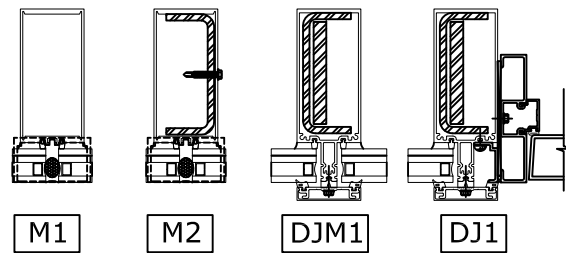
SCALE: NTS UNLESS NOTED

10 OF 44

NOTE:  
REINFORCEMENT MEMBERS  
MUST BE SHIMMED TIGHT.

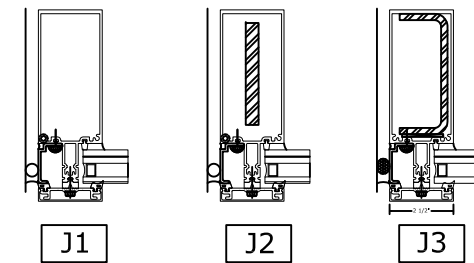
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1		M2		DJM1 - DJ1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
60	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	70	70	70	70	70	80
	60	70	70	70	70	70	80
	66	70	70	70	70	70	80
	72	70	70	70	70	70	80
	74	-	-	70	70	70	80
67	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	70	70	70	70	70	80
	60	70	70	70	70	70	80
	66	70	70	70	70	70	80
	72	70	70	70	70	70	80
	74	-	-	70	70	70	80
73	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	70	70	70	70	70	80
	60	70	70	70	70	70	80
	66	70	70	70	70	70	80
	72	70	70	70	70	70	80
	74	-	-	70	70	70	80
78	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	70	70	70	70	70	80
	60	70	70	70	70	70	80
	66	70	70	70	70	70	80
	72	70	70	70	70	70	80
	74	-	-	70	70	70	80



# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J1		J2		J3	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
60	8	70	70	70	70	100	100
	12	70	70	70	70	100	100
	16	70	70	70	70	100	100
	20	70	70	70	70	100	100
	25-1/2	70	70	70	70	100	100
	31-1/2	70	70	70	70	100	100
	38	70	70	70	70	100	100
	44	70	70	70	70	100	100
	50	-	-	70	70	100	100
	56	-	-	70	70	100	100
67	8	70	70	70	70	100	100
	12	70	70	70	70	100	100
	16	70	70	70	70	100	100
	20	70	70	70	70	100	100
	25-1/2	70	70	70	70	100	100
	31-1/2	70	70	70	70	100	100
	38	70	70	70	70	100	100
	44	-	-	70	70	100	100
	50	-	-	70	70	100	100
	56	-	-	-	-	100	100
73	8	70	70	70	70	100	100
	12	70	70	70	70	100	100
	16	70	70	70	70	100	100
	20	70	70	70	70	100	100
	25-1/2	70	70	70	70	100	100
	31-1/2	70	70	70	70	100	100
	38	-	-	70	70	100	100
	44	-	-	70	70	100	100
	50	-	-	-	-	100	100
	56	-	-	-	-	100	100
78	8	70	70	70	70	100	100
	12	70	70	70	70	100	100
	16	70	70	70	70	100	100
	20	70	70	70	70	100	100
	25-1/2	70	70	70	70	100	100
	31-1/2	70	70	70	70	100	100
	38	-	-	70	70	100	100
	44	-	-	70	70	100	100
	50	-	-	-	-	100	100
	56	-	-	-	-	100	100



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

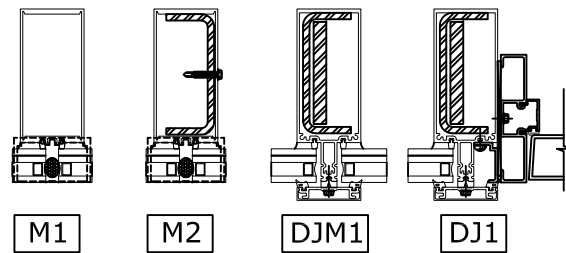
20-30425.3

SCALE: NTS UNLESS NOTED

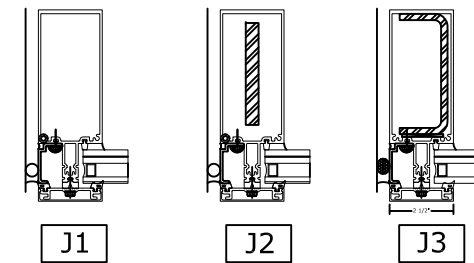
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - SINGLE SPAN

# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE DJM1 - DJ1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
84	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	70	70	70	70	70	80
	60	-	-	70	70	70	80
	66	-	-	70	70	70	80
	72	-	-	70	70	70	80
	74	-	-	70	70	70	80
90	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	-	-	70	70	70	80
	60	-	-	70	70	70	80
	66	-	-	70	70	70	80
	72	-	-	70	70	70	80
	74	-	-	70	70	70	80
96	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	-	-	70	70	70	80
	60	-	-	70	70	70	80
	66	-	-	70	70	70	80
	72	-	-	70	70	70	80
	74	-	-	-	-	70	80
101	24	70	70	70	70	70	80
	30	70	70	70	70	70	80
	36	70	70	70	70	70	80
	42	70	70	70	70	70	80
	48	70	70	70	70	70	80
	54	-	-	70	70	70	80
	60	-	-	70	70	70	80
	66	-	-	70	70	70	80
	72	-	-	-	-	70	80
	74	-	-	-	-	70	80



SINGLE SPAN JAMB LOADING CHART		JAMB TYPE J1		JAMB TYPE J2		JAMB TYPE J3		
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	
84	8	70	70	70	70	100	100	
	12	70	70	70	70	100	100	
	16	70	70	70	70	100	100	
	20	70	70	70	70	100	100	
	25-1/2	70	70	70	70	100	100	
	31-1/2	70	70	70	70	100	100	
	38	-	-	70	70	100	100	
	44	-	-	-	-	100	100	
	50	-	-	-	-	100	100	
	56	-	-	-	-	-	-	
	90	8	70	70	70	70	100	100
		12	70	70	70	70	100	100
16		70	70	70	70	100	100	
20		70	70	70	70	100	100	
25-1/2		70	70	70	70	100	100	
31-1/2		-	-	70	70	100	100	
38		-	-	70	70	100	100	
44		-	-	-	-	100	100	
50		-	-	-	-	100	100	
56		-	-	-	-	-	-	
96		8	70	70	70	70	100	100
		12	70	70	70	70	100	100
	16	70	70	70	70	100	100	
	20	70	70	70	70	100	100	
	25-1/2	70	70	70	70	100	100	
	31-1/2	-	-	70	70	100	100	
	38	-	-	-	-	100	100	
	44	-	-	-	-	100	100	
	50	-	-	-	-	-	-	
	56	-	-	-	-	-	-	
	101	8	70	70	70	70	100	100
		12	70	70	70	70	100	100
16		70	70	70	70	100	100	
20		70	70	70	70	100	100	
25-1/2		70	70	70	70	100	100	
31-1/2		-	-	70	70	100	100	
38		-	-	-	-	100	100	
44		-	-	-	-	100	100	
50		-	-	-	-	-	-	
56		-	-	-	-	-	-	



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

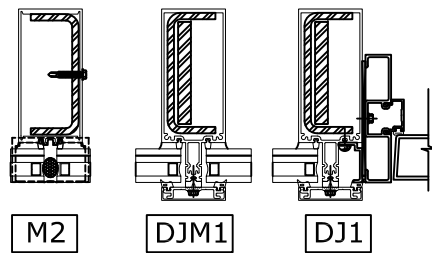
20-30425.3

SCALE: NTS UNLESS NOTED



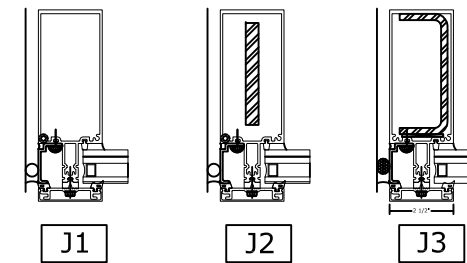
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE	
		M2		DJM1 - DJ1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
106	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	70	70	70	80
	60	70	70	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
114	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	70	70	70	80
	60	70	70	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
120	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	70	70	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
126	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	70	70	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80



# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J1		J2		J3	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
106	8	65	65	70	70	100	100
	12	65	65	70	70	100	100
	16	65	65	70	70	100	100
	20	65	65	70	70	100	100
	25-1/2	65	65	70	70	100	100
	31-1/2	-	-	70	70	100	100
	38	-	-	-	-	100	100
	44	-	-	-	-	100	100
	50	-	-	-	-	-	-
	56	-	-	-	-	-	-
114	8	-	-	70	70	100	100
	12	-	-	70	70	100	100
	16	-	-	70	70	100	100
	20	-	-	70	70	100	100
	25-1/2	-	-	70	70	100	100
	31-1/2	-	-	70	70	100	100
	38	-	-	-	-	100	100
	44	-	-	-	-	-	-
	50	-	-	-	-	-	-
	56	-	-	-	-	-	-
120	8	-	-	70	70	100	100
	12	-	-	70	70	100	100
	16	-	-	70	70	100	100
	20	-	-	70	70	100	100
	25-1/2	-	-	70	70	100	100
	31-1/2	-	-	-	-	100	100
	38	-	-	-	-	100	100
	44	-	-	-	-	-	-
	50	-	-	-	-	-	-
	56	-	-	-	-	-	-
126	8	-	-	70	70	100	100
	12	-	-	70	70	100	100
	16	-	-	70	70	100	100
	20	-	-	70	70	100	100
	25-1/2	-	-	70	70	100	100
	31-1/2	-	-	-	-	100	100
	38	-	-	-	-	-	-
	44	-	-	-	-	-	-
	50	-	-	-	-	-	-
	56	-	-	-	-	-	-



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

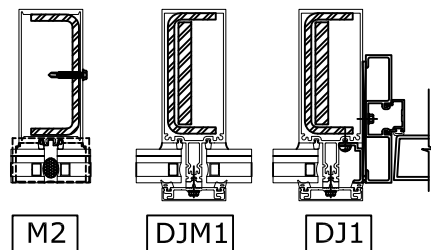
20-30425.3

SCALE: NTS UNLESS NOTED

C:\Users\thayer\appdata\local\temp\AcPufish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg  
thayer  
04/02/2021 - 1:22pm

# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE	
		M2		DJM1 - DJ1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
132	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
138	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
144	24	70	70	70	80
	30	70	70	70	80
	36	70	70	70	80
	42	70	70	70	80
	48	70	70	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
150	24	-	-	70	80
	30	-	-	70	80
	36	-	-	70	80
	42	-	-	70	80
	48	-	-	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70*	80*
	74	-	-	70*	80*



M2

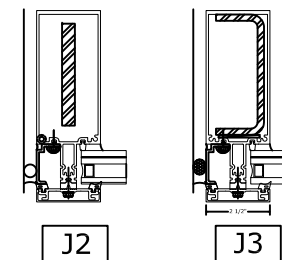
DJM1

DJ1

\* MULLION/JAMB SHALL BE INSTALLED WITH A MINIMUM OF 1 HORIZONTAL FOR LATERAL BRACING PURPOSES.

# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE	
		J2		J3	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
132	8	70	70	100	100
	12	70	70	100	100
	16	70	70	100	100
	20	70	70	100	100
	25-1/2	70	70	100	100
	31-1/2	-	-	100	100
	38	-	-	-	-
	44	-	-	-	-
	50	-	-	-	-
	56	-	-	-	-
138	8	70	70	100	100
	12	70	70	100	100
	16	70	70	100	100
	20	70	70	100	100
	25-1/2	70	70	100	100
	31-1/2	-	-	100	100
	38	-	-	-	-
	44	-	-	-	-
	50	-	-	-	-
	56	-	-	-	-
144	8	70	70	100	100
	12	70	70	100	100
	16	70	70	100	100
	20	70	70	100	100
	25-1/2	70	70	100	100
	31-1/2	-	-	100	100
	38	-	-	-	-
	44	-	-	-	-
	50	-	-	-	-
	56	-	-	-	-
150	8	-	-	100	100
	12	-	-	100	100
	16	-	-	100	100
	20	-	-	100	100
	25-1/2	-	-	100*	100*
	31-1/2	-	-	100*	100*
	38	-	-	-	-
	44	-	-	-	-
	50	-	-	-	-
	56	-	-	-	-



J2

J3

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

Oldcastle BuildingEnvelope®

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD CORNER MULLION - SINGLE SPAN

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS®**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

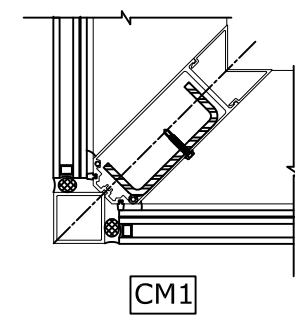
15

OF 44

SINGLE SPAN CORNER MULLION LOADING CHART		MULLION TYPE	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	CM1	
		(+) P.S.F.	(-) P.S.F.
96	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	74	-	-
102	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	74	-	-
108	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	74	-	-
114	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	74	-	-

SINGLE SPAN CORNER MULLION LOADING CHART		MULLION TYPE	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	CM1	
		(+) P.S.F.	(-) P.S.F.
120	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	74	-	-
126	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	-	-
	74	-	-
132	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	-	-
	74	-	-
138	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	-	-
	72	-	-
	74	-	-

SINGLE SPAN CORNER MULLION LOADING CHART		MULLION TYPE	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	CM1	
		(+) P.S.F.	(-) P.S.F.
144	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	-	-
	72	-	-
	74	-	-
150	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	-	-
	72	-	-
	74	-	-

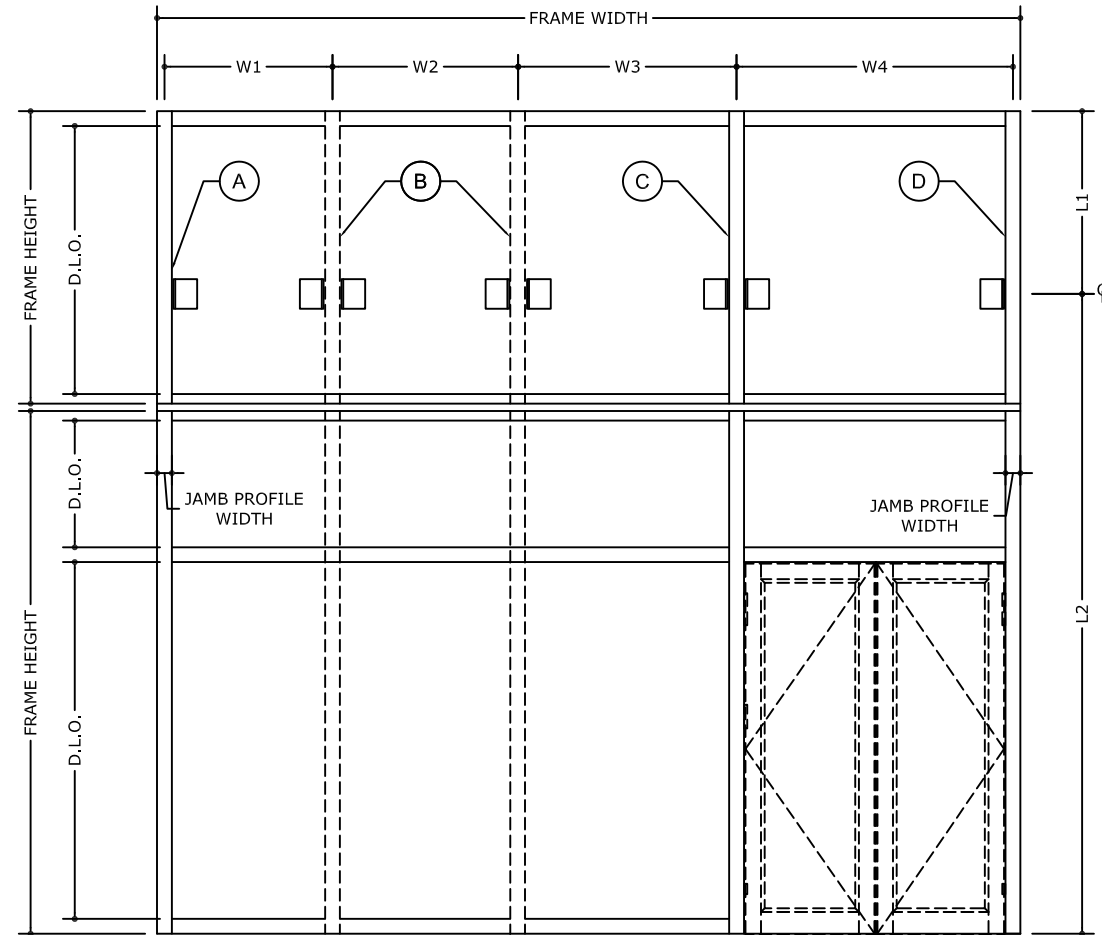


C:\Users\thayer\appdata\local\temp\AcP\Pub\fish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:22pm

# TWIN SPAN MULLION DETERMINATION LOAD



SPAN (L) = LARGER OF L1 OR L2

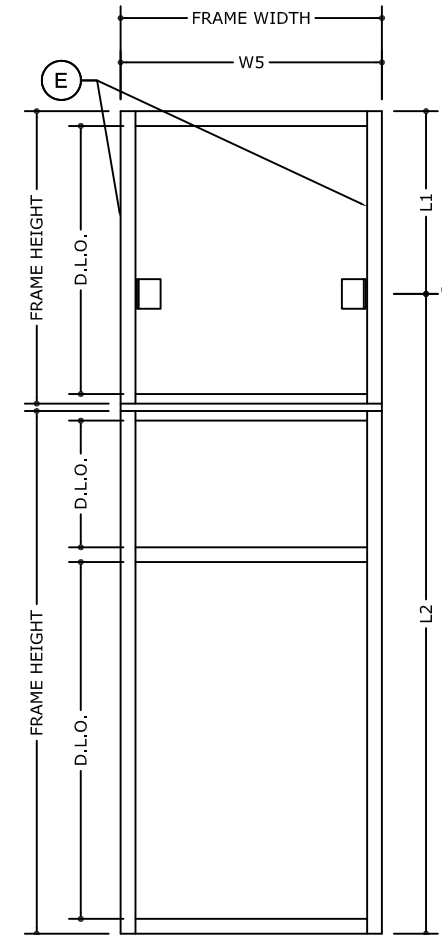
## LOAD DETERMINATION

TRIBUTARY WIDTH A =  $\frac{W1}{2} + 1/2"$  JAMB PROFILE WIDTH  
(FOR STANDARD JAMB MULLION)

TRIBUTARY WIDTH B = LARGER OF  $\frac{W1 + W2}{2}$  OR  $\frac{W2 + W3}{2}$   
(FOR STANDARD MULLION)

TRIBUTARY WIDTH C =  $\frac{W3 + W4}{2}$   
(FOR INTERMEDIATE DOOR MULLION)

TRIBUTARY WIDTH D =  $\frac{W4}{2} + 1/2"$  JAMB PROFILE WIDTH  
(FOR DOOR JAMB MULLION )



SPAN (L) = LARGER OF L1 OR L2

## LOAD DETERMINATION

TRIBUTARY WIDTH E =  $\frac{W5}{2}$   
(FOR STANDARD JAMB MULLION)

- (A) (E) JAMB MULLION
- (B) STANDARD MULLION
- (C) DOOR JAMB INTERMEDIATE MULLION
- (D) DOOR JAMB MULLION



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

Oldcastle BuildingEnvelope®

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

16 OF 44



# RELIANCE STORMMAX™ SSG TWIN SPAN MULLION (WITH & WITHOUT SPLICE)

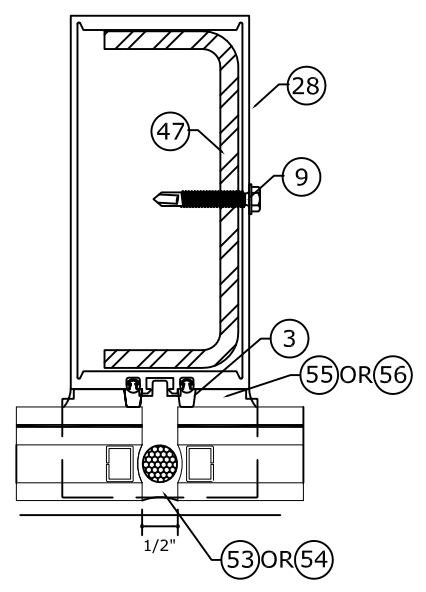
FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



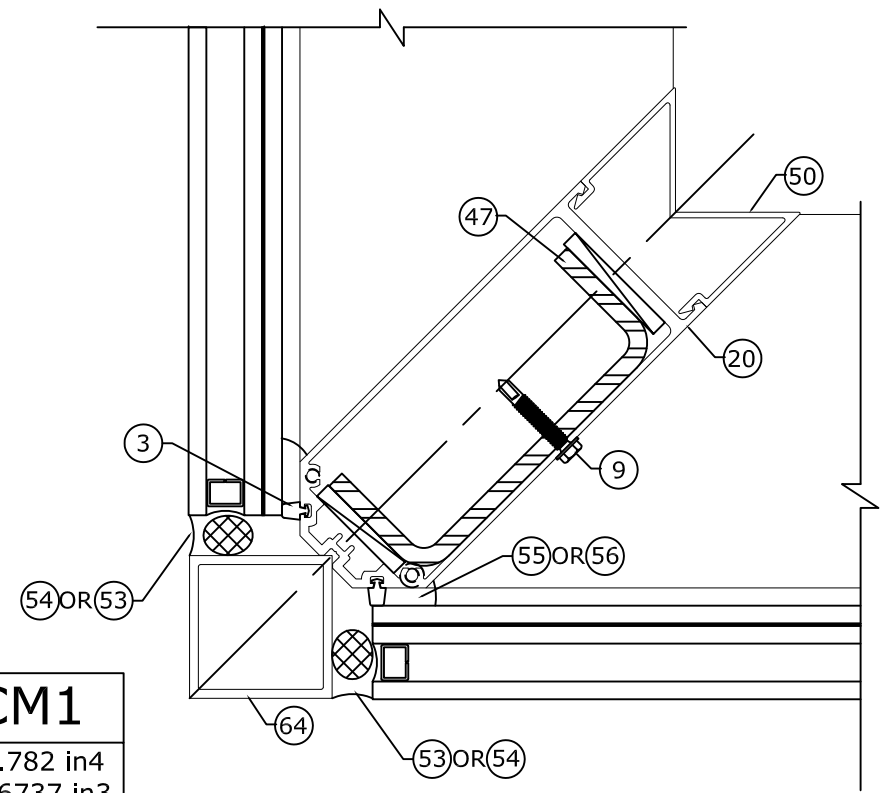
04/02/2021



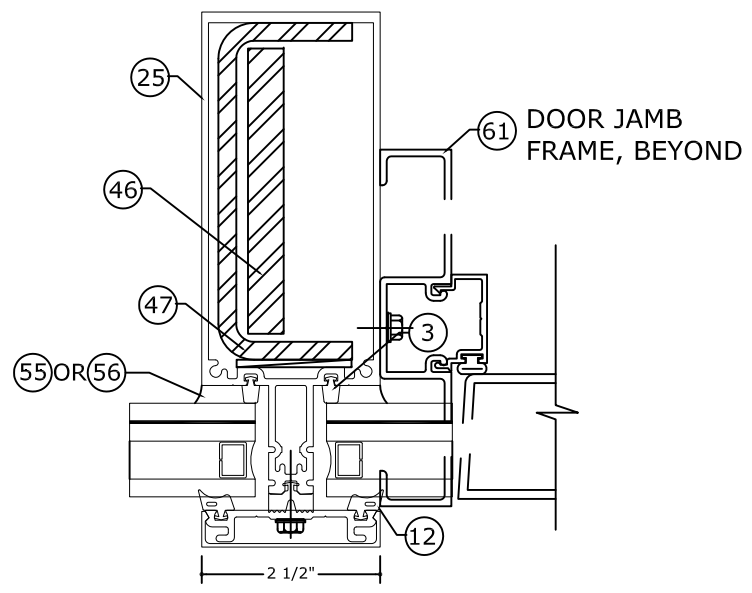
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM



**TM1**  
Ix= 25.5382 in4  
Sx= 9.8032 in3



**TCM1**  
Ix= 27.782 in4  
Sx= 8.6737 in3



**TDJ1**  
Ix= 37.488 in4  
Sx= 9.085 in3

IN TERMS OF ALUMINUM

NOTE:  
REFER TO PAGE 19 AND 20 FOR LENGTH OF REINFORCEMENT (PART# 47)

NOTE:  
REINFORCEMENT MEMBERS MUST BE SHIMMED TIGHT.

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

C:\Users\thayer\appdata\local\temp\AcPufish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg thayer 04/02/2021 - 1:22pm

# RELIANCE STORMMAX™ SSG TWIN SPAN JAMB (WITH & WITHOUT SPLICE)

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

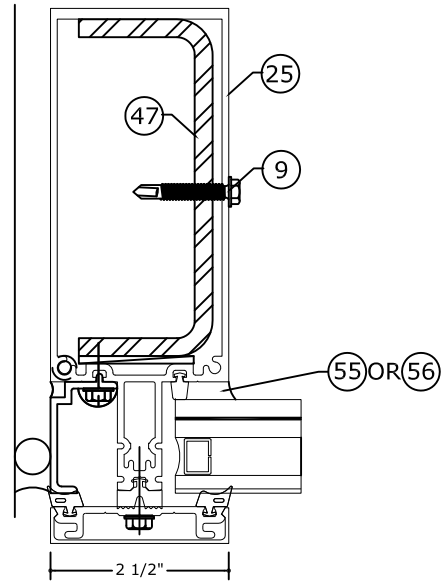
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

18 OF 44

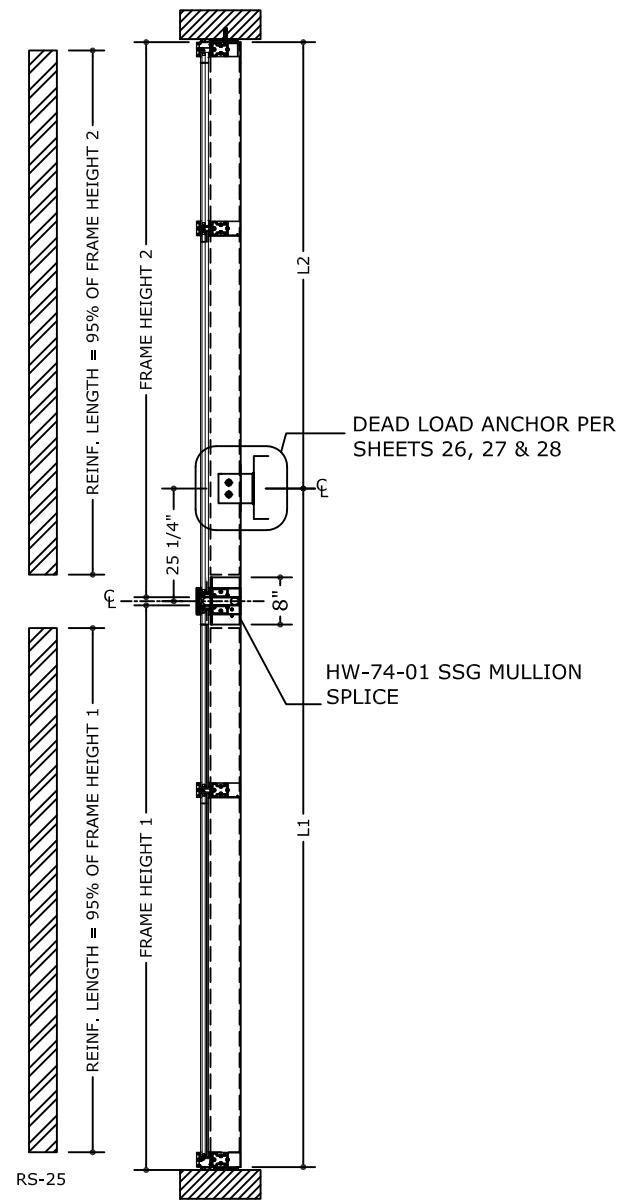


**TJ1**  
Ix= 29.375 in4  
Sx= 7.31 in3

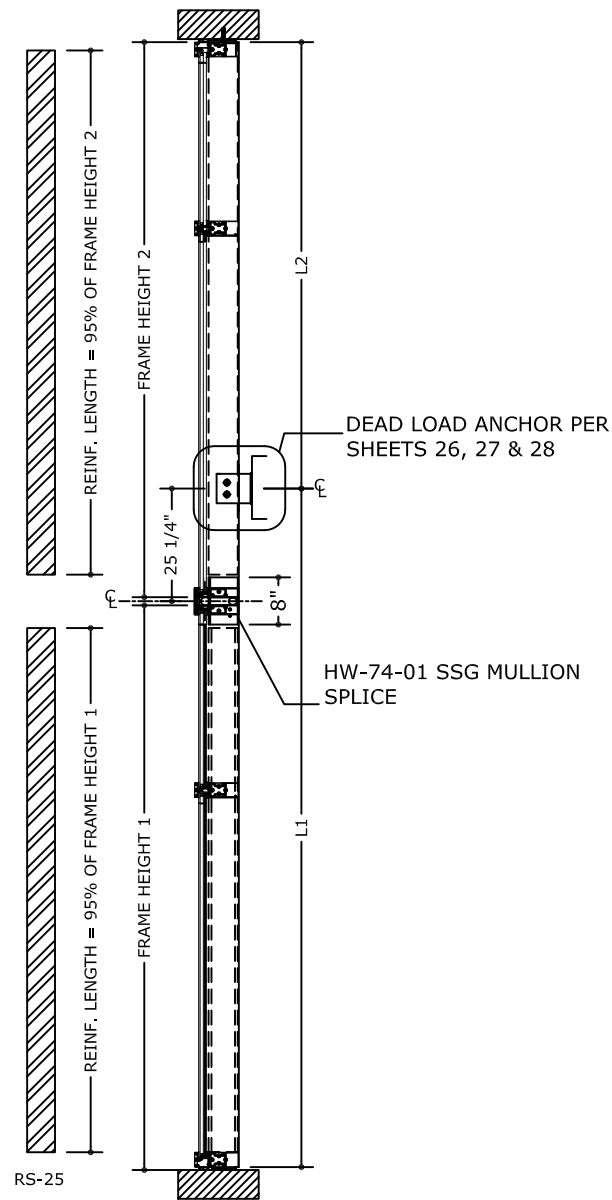
NOTE:  
REFER TO PAGE 19 AND 20 FOR  
LENGTH OF REINFORCEMENT  
(PART# 47)

NOTE:  
REINFORCEMENT MEMBERS  
MUST BE SHIMMED TIGHT.

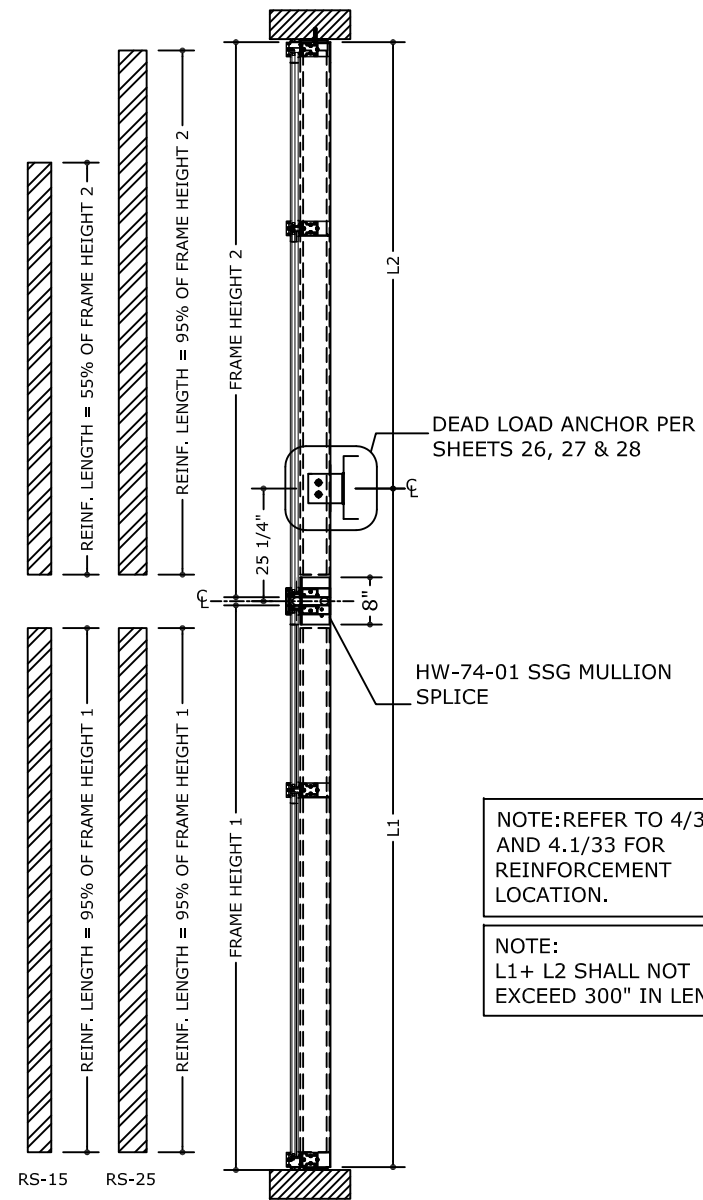
# OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION FOR TWIN SPAN CURTAIN WALL SYSTEM WITH SPLICED MULLIONS



SIDE VIEW FOR: TM1 TCM1



SIDE VIEW FOR: TJ1



SIDE VIEW FOR: TDJ1

NOTE: REFER TO 4/33 AND 4.1/33 FOR REINFORCEMENT LOCATION.

NOTE: L1 + L2 SHALL NOT EXCEED 300" IN LENGTH

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

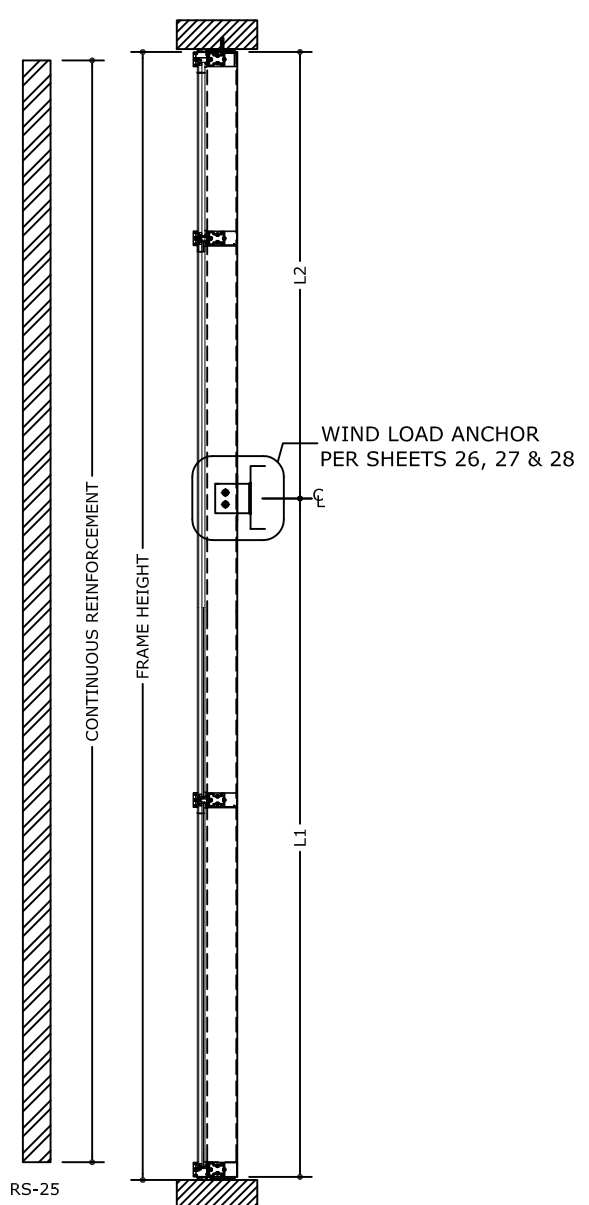
20-30425.3

SCALE: NTS UNLESS NOTED

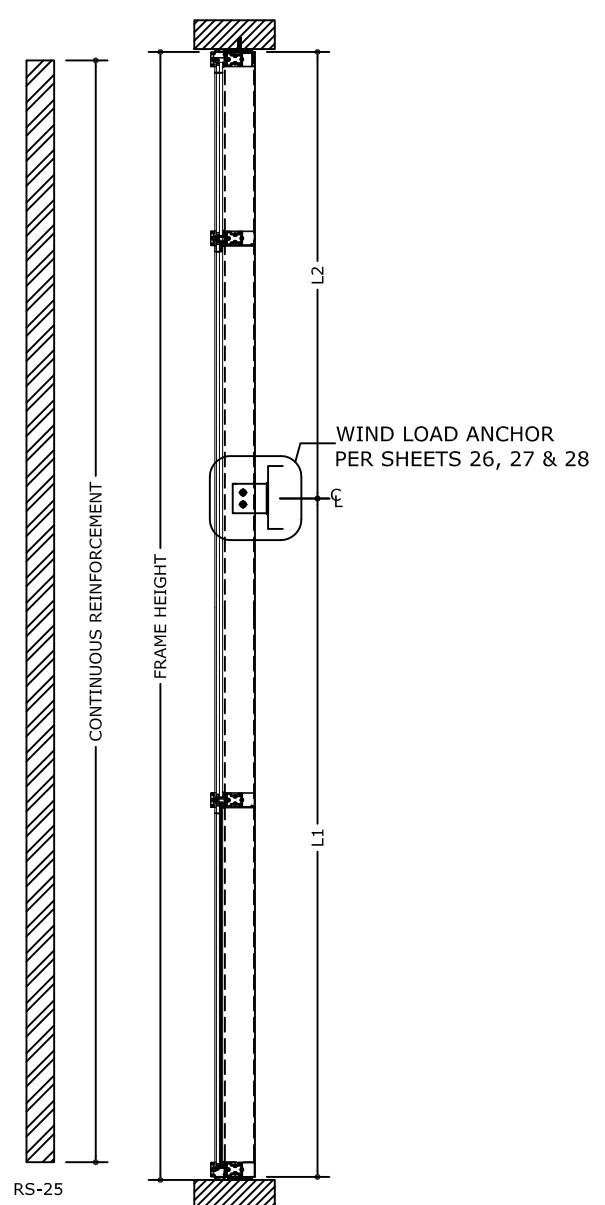
19

OF 44

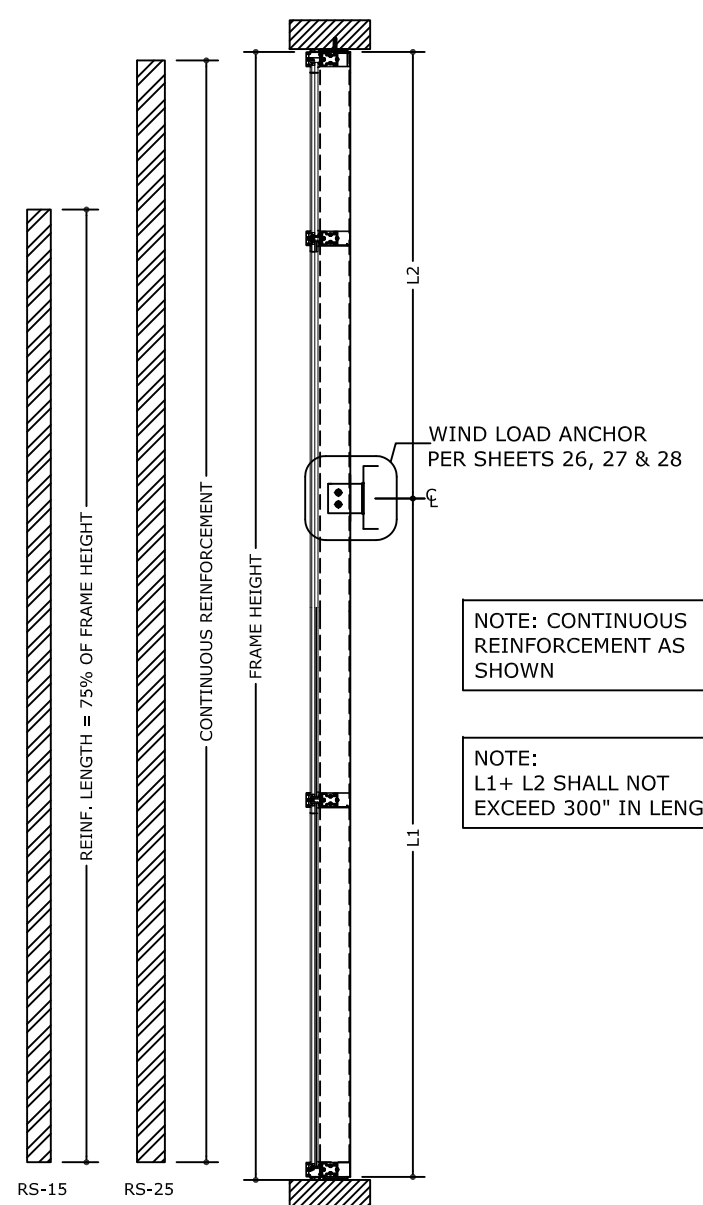
**OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION FOR TWIN  
SPAN CURTAIN WALL SYSTEM WITH CONTINUOUS (NON-SPLICED) MULLIONS**



SIDE VIEW FOR: **TM1** **TCM1**



SIDE VIEW FOR: **TJ1**



SIDE VIEW FOR: **TDJ1**

NOTE: CONTINUOUS REINFORCEMENT AS SHOWN

NOTE: L1 + L2 SHALL NOT EXCEED 300" IN LENGTH

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

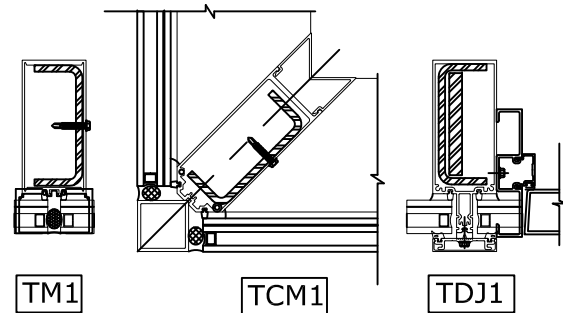
SCALE: NTS UNLESS NOTED

04/02/2021 - 1:22pm thayer C:\Users\thayer\appdata\local\temp\AcPublish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg



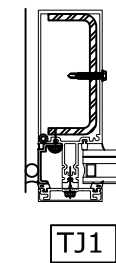
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - TWIN SPAN

TWIN SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE	
		TM1-TCM1		TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
96	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	90	90	70	80
	66	90	90	70	80
	72	90	90	70	80
	74	-	-	70	80
102	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	90	90	70	80
	66	90	90	70	80
	72	-	-	70	80
	74	-	-	70	80
108	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	90	90	70	80
	66	90	90	70	80
	72	-	-	70	80
	74	-	-	70	80
114	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	90	90	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80



# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - TWIN SPAN

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
96	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	90	90
	38	90	90
	44	-	-
	50	-	-
	56	-	-
102	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	90	90
	38	-	-
	44	-	-
	50	-	-
	56	-	-
108	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	90	90
	38	-	-
	44	-	-
	50	-	-
	56	-	-
114	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	90	90
	38	-	-
	44	-	-
	50	-	-
	56	-	-



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

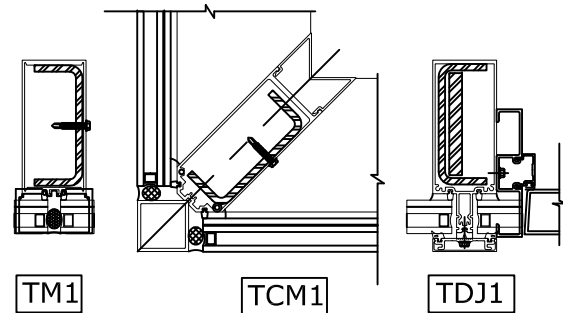
COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

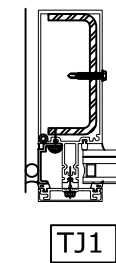
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - TWIN SPAN

TWIN SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	TM1-TCM1		TDJ1	
		(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
120	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	90	90	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
126	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
132	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	90	90	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
138	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80



# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - TWIN SPAN

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	TJ1	
		(+) P.S.F.	(-) P.S.F.
120	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	90	90
	38	-	-
	44	-	-
	50	-	-
	56	-	-
126	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	-	-
	38	-	-
	44	-	-
	50	-	-
	56	-	-
132	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	-	-
	38	-	-
	44	-	-
	50	-	-
	56	-	-
138	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	-	-
	38	-	-
	44	-	-
	50	-	-
	56	-	-



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

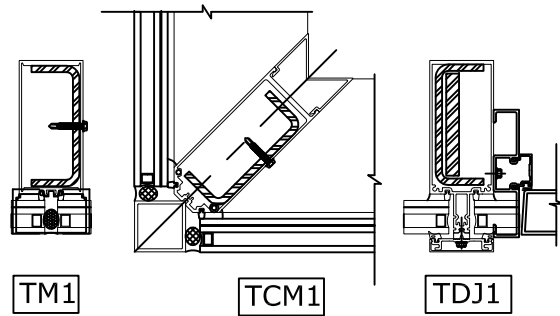
20-30425.3

SCALE: NTS UNLESS NOTED

C:\Users\thayer\appdata\local\temp\AcPufish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

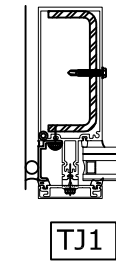
# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD MULLIONS - TWIN SPAN

TWIN SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE	
		TM1-TCM1		TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
144	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90	90	70	80
	48	90	90	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80
150	24	90	90	70	80
	30	90	90	70	80
	36	90	90	70	80
	42	90*	90*	70	80
	48	90*	90*	70	80
	54	-	-	70	80
	60	-	-	70	80
	66	-	-	70	80
	72	-	-	70	80
	74	-	-	70	80



# MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMBS - TWIN SPAN

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
144	8	90	90
	12	90	90
	16	90	90
	20	90	90
	25-1/2	90	90
	31-1/2	-	-
	38	-	-
	44	-	-
	50	-	-
	56	-	-
150	8	90	90
	12	90	90
	16	90	90
	20	90*	90*
	25-1/2	90*	90*
	31-1/2	-	-
	38	-	-
	44	-	-
	50	-	-
	56	-	-



FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

23 OF 44

\* MULLION/JAMB SHALL BE IN INSTALLED WITH A MINIMUM OF 1 HORIZONTAL FOR LATERAL BRACING PURPOSES.

# SINGLE & TWIN SPAN HEAD & SILL STANDARD OR CORNER MULLION CONNECTIONS

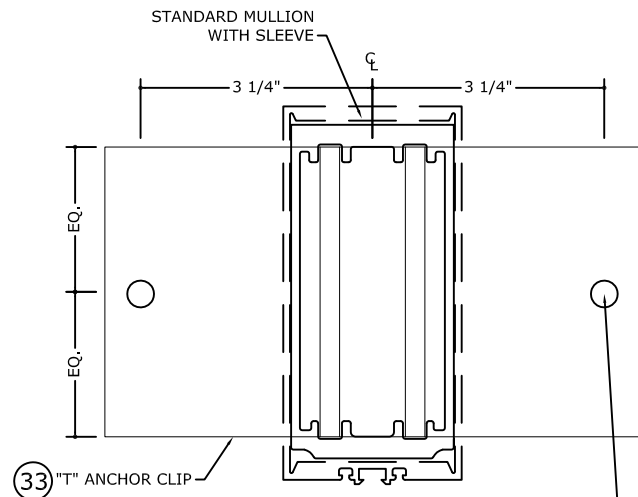
FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



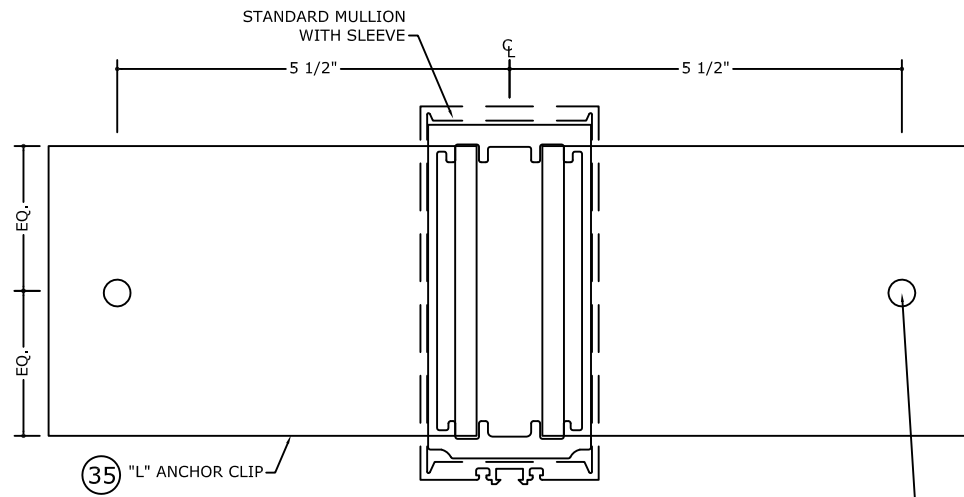
04/02/2021



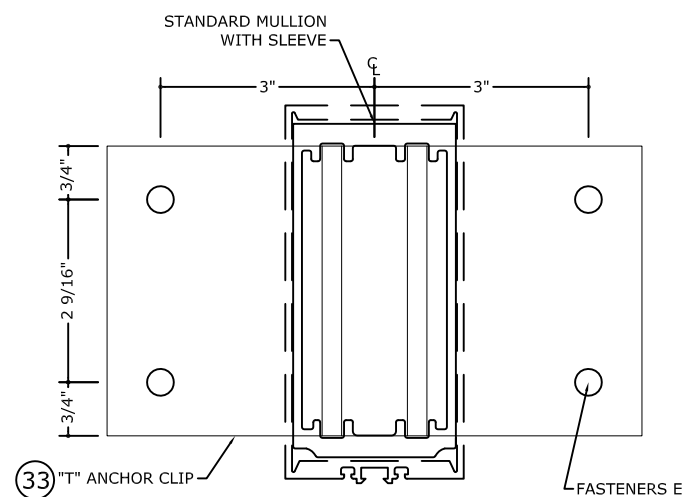
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM



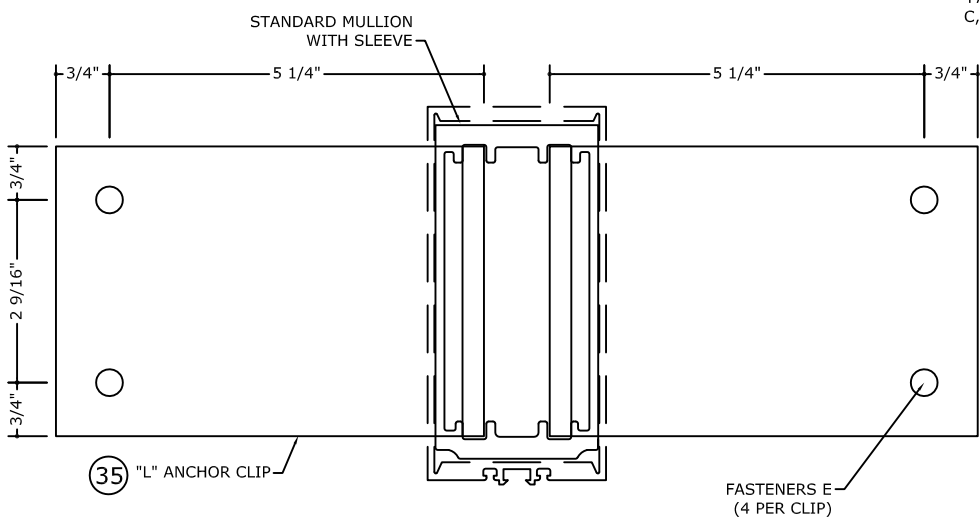
**"T" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C & D (CONCRETE AND STEEL)**



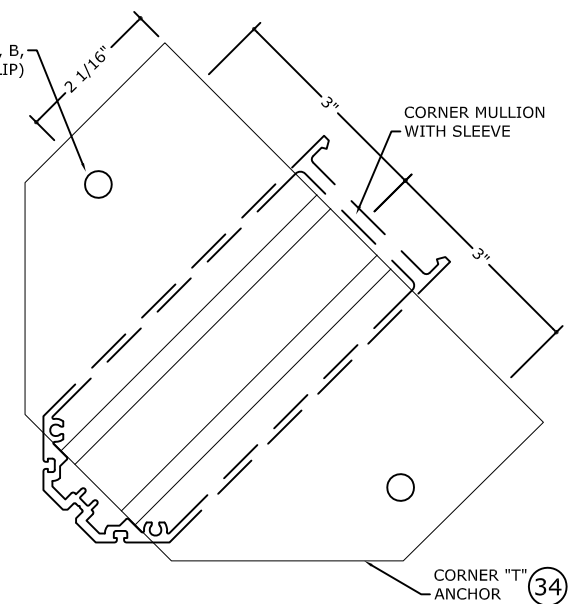
**"L" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C & D (CONCRETE AND STEEL)**



**"T" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENER E (WOOD)**



**"L" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS E (WOOD)**



**"T" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C & D (CONCRETE AND STEEL)**

## FASTENER TYPES

- A - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR WITH 3 1/4" MIN. EMBEDMENT INTO 8" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 6" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*
- B - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR WITH 3 1/4" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 7 1/2" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*
- C - 1/2" Ø HILTI KWIK HUS-H SCREW ANCHOR WITH 3" MIN. EMBEDMENT INTO 4" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 3 3/4" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*
- D - 1/2" Ø -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE OR 1/2" Ø -13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT WITH NUT & LOCK WASHER TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*
- E - 3/8" Ø LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE. 70 P.S.F. MAX.\* REFER TO LOADING CHART ON SHEET 25

**\*NOTE:**  
1. FOR SPANS LISTED ON MULLION/GLASS TABLES LIMITED TO MULLION/GLASS DESIGN PRESSURE.  
2. INSTALLATION WITH "L" ANCHOR CLIPS ARE LIMITED TO 12' MULLION HEIGHT AND 4' MULLION TRIBUTARY.

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

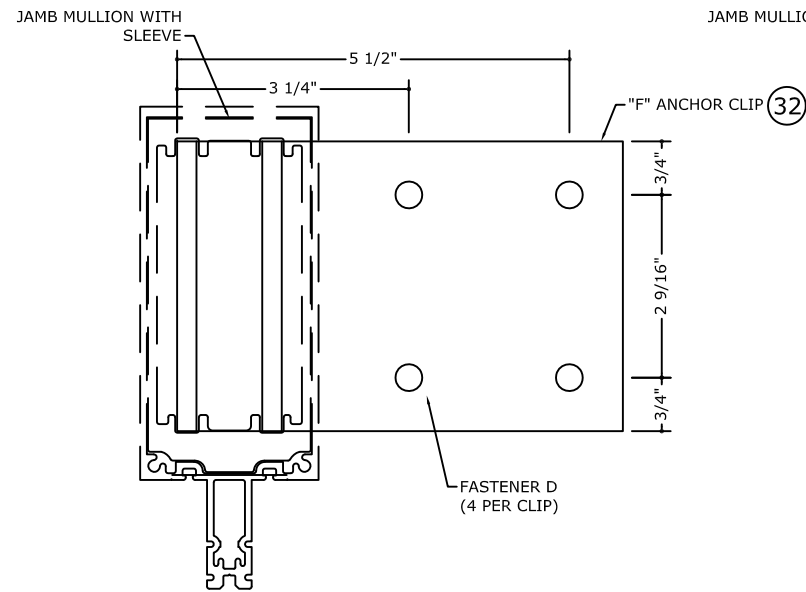
C:\Users\thayer\appdata\local\temp\AcPublish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg  
thayer  
04/02/2021 - 1:23pm

# SINGLE & TWIN SPAN HEAD & SILL JAMB OR DOOR JAMB MULLION CONNECTIONS

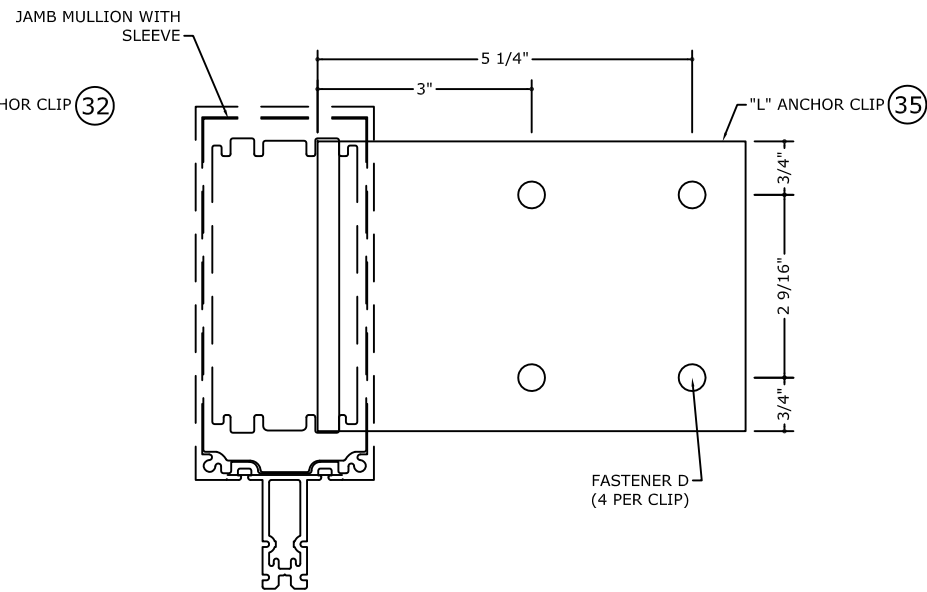
FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



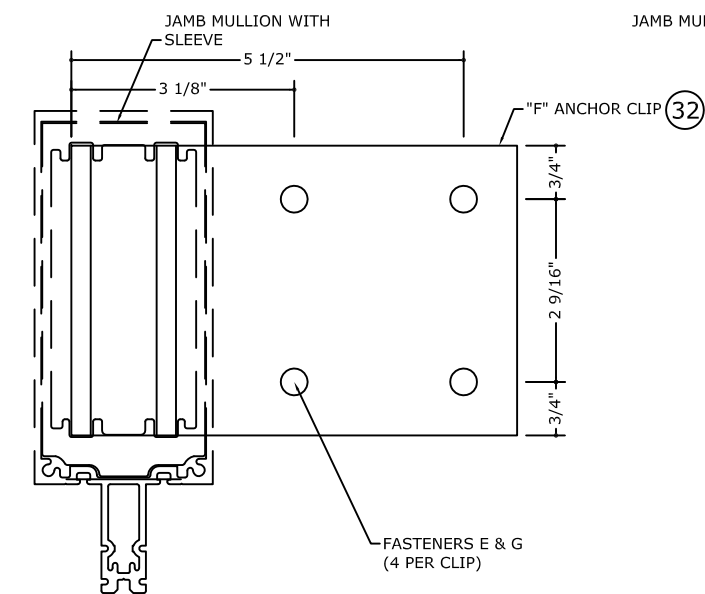
04/02/2021



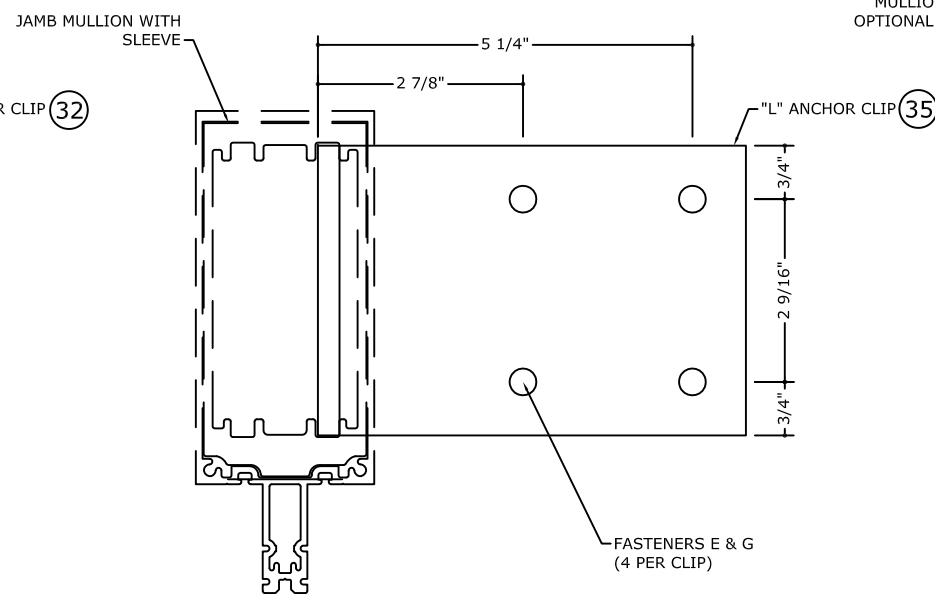
"F" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS D (STEEL)



"L" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS D (STEEL)

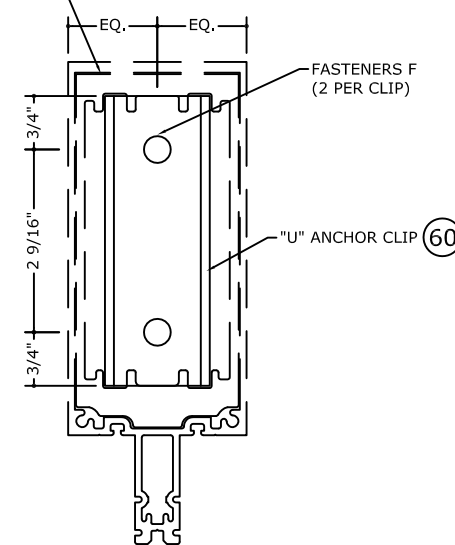


"F" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS E & G (WOOD & CONCRETE)



"L" ANCHOR/SLEEVE CONNECTION DETAIL FOR FASTENERS E & G (WOOD & CONCRETE)

DOOR JAMB MULLION & JAMB MULLION W/O SIDELITE & OPTIONAL AT JAMB MULLION WITH SLEEVE



"U" ANCHOR WITH SLEEVE CONNECTION DETAIL FOR FASTENER F (CONCRETE)

## FASTENER TYPES

- D - 1/2" Ø -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE OR 1/2" Ø -13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT WITH NUT & LOCK WASHER TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*
- E - 3/8" Ø LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE. 70 P.S.F. MAX.\* REFER TO LOADING CHART ON SHEET 25
- F - 1/2" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 6" MIN. EDGE DISTANCE. 80 P.S.F. MAX.\*
- G - 3/8" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 4 1/2" MIN. EDGE DISTANCE. 90 P.S.F. MAX.\*

FASTENER "E" LOADING CHART		
MAX FRAME HEIGHT/SPAN(in)	MAX TRIBUTARY (in)	DESIGN PRESSURE A.S.D.
120" OR LESS	24"	70 PSF
84" OR LESS	36" OR LESS	70 PSF
78" OR LESS	48" OR LESS	60 PSF
78" OR LESS	60" OR LESS	50 PSF
90" OR LESS	72" OR LESS	40 PSF
120" OR LESS	84" OR LESS	20 PSF

\*NOTE:  
FOR SPANS LISTED ON JAMB/GLASS TABLES LIMITED TO JAMB/GLASS DESIGN PRESSURE.

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

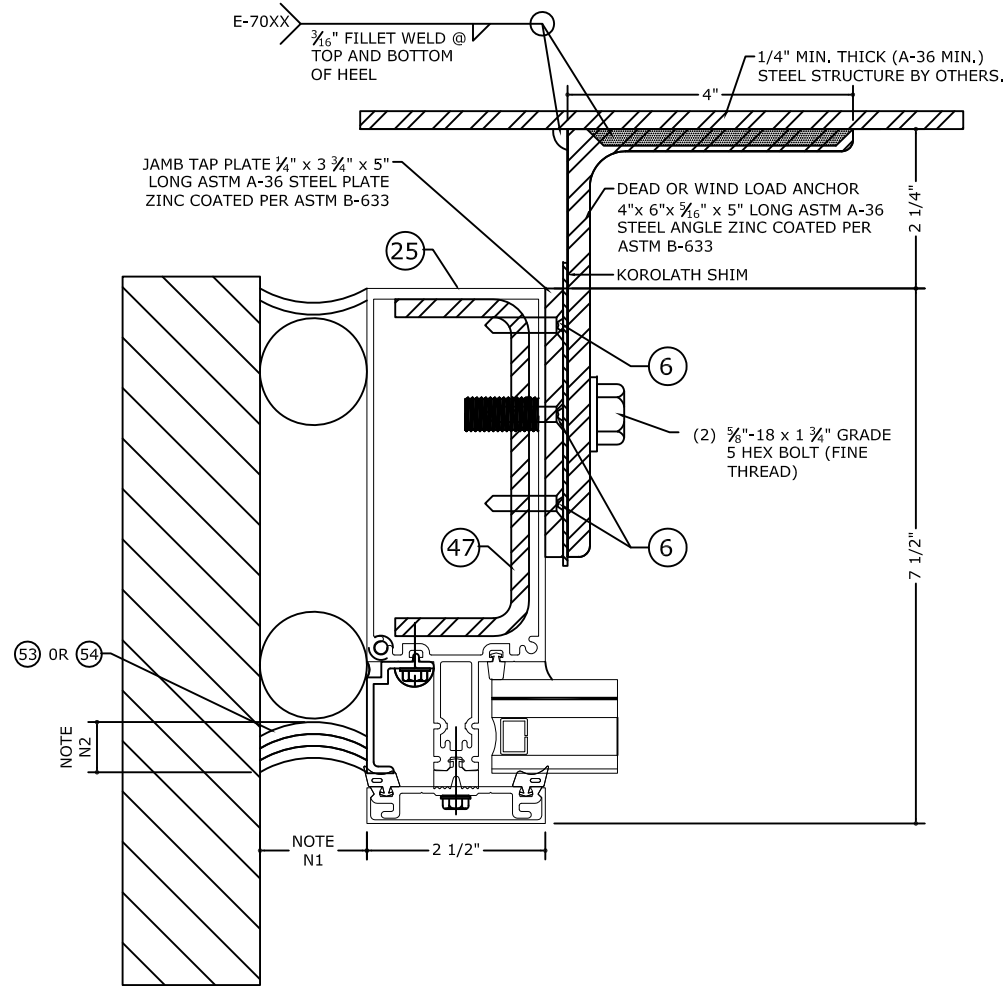
20-30425.3

SCALE: NTS UNLESS NOTED

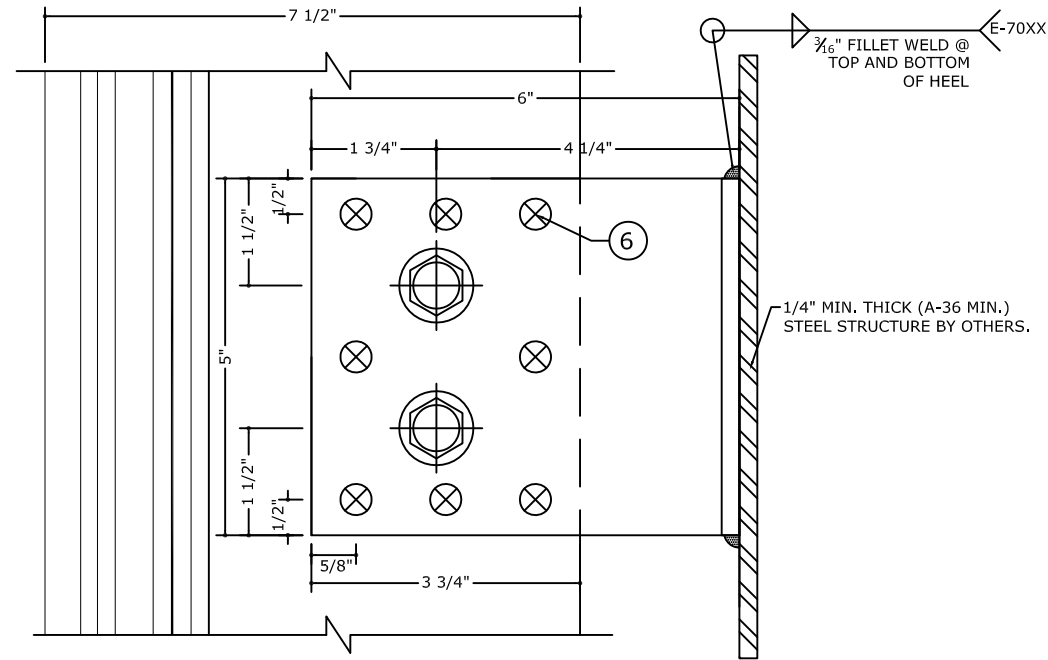
25 OF 44



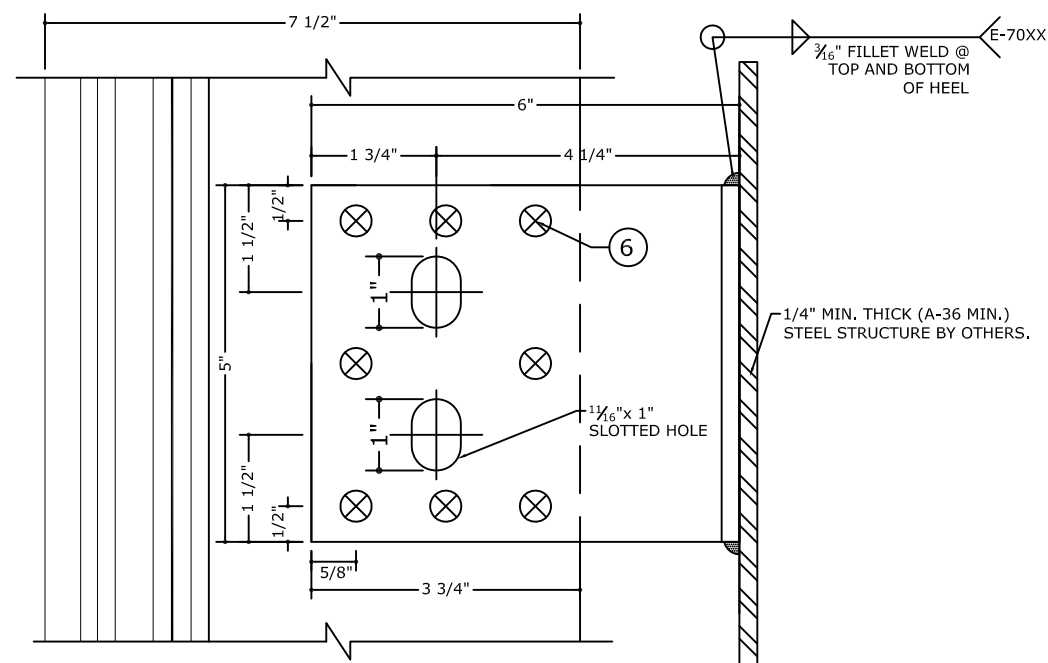
# JAMB MULLION INTERMEDIATE SUPPORT WITH DEAD & WIND LOAD ANCHOR\* AT TWIN SPAN



**MID ANCHOR AT JAMB DETAIL**  
SCALE: 6" = 1'-0" (TOP VIEW)



**DEAD LOAD ANCHOR AT JAMB DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)



**WIND LOAD ANCHOR AT JAMB DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)

**SEALANT JOINT NOTES**

N1:  $\frac{5}{8}$ " MIN. &  $1 \frac{5}{8}$ " MAX. WIDE JOINT WITH SEALANT (53) OR (54)

N2:  $\frac{1}{4}$ " MIN. &  $\frac{3}{8}$ " MAX. DEPTH JOINT WITH  $\frac{1}{4}$ " DEPTH AT MIDWIDTH OF JOINT WITH SEALANT (53) OR (54)

\* ONLY ONE DEADLOAD APPLICATION PER MULTIPLE SPAN MULLION/JAMB. ANY OTHER ANCHOR IN THE SAME MULTIPLE SPAN SHALL ALLOW FREE MOVEMENT DUE TO THERMAL EXPANSION. MULTIPLE SPAN MULLION MAY BE CONNECTED BY SPLICE AS SHOWN ON MULLION SPLICE DETAILS.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

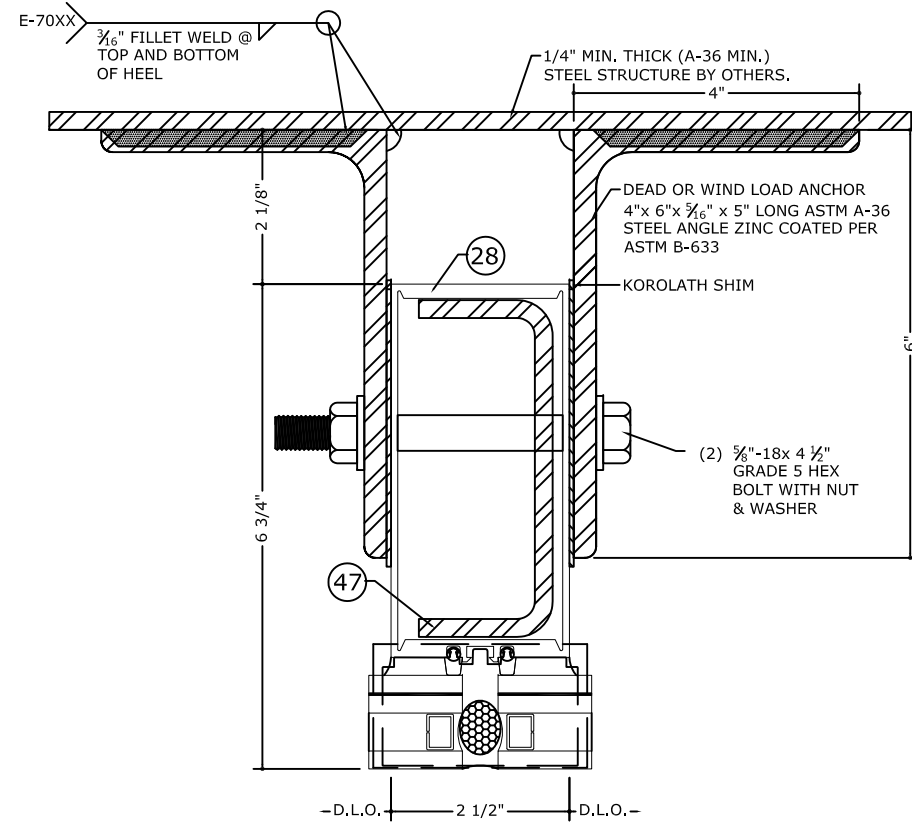
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

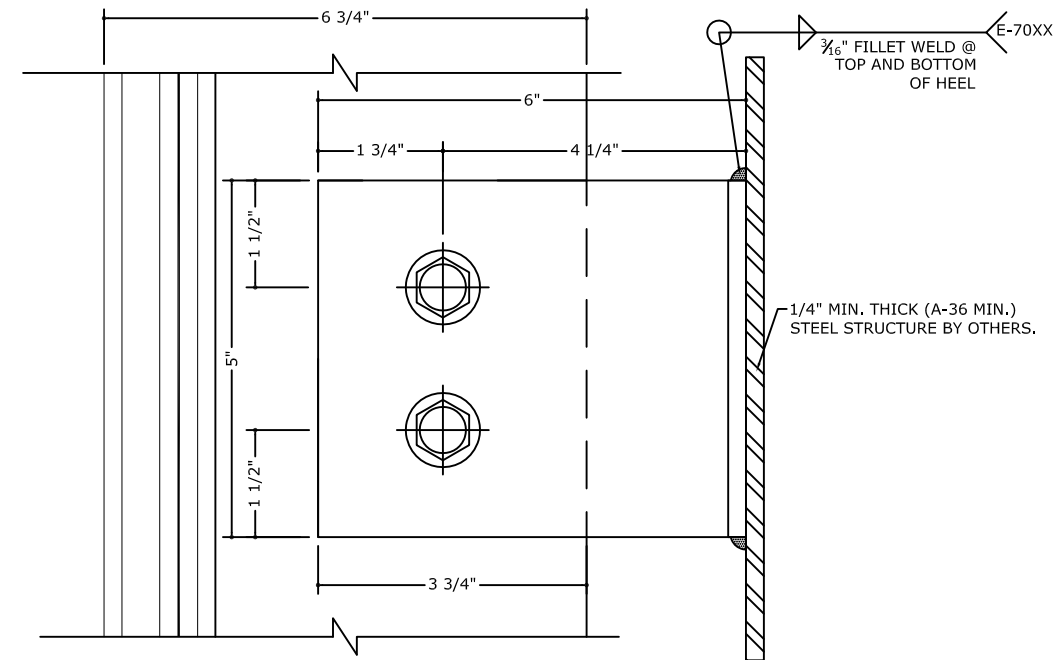
20-30425.3

SCALE: NTS UNLESS NOTED

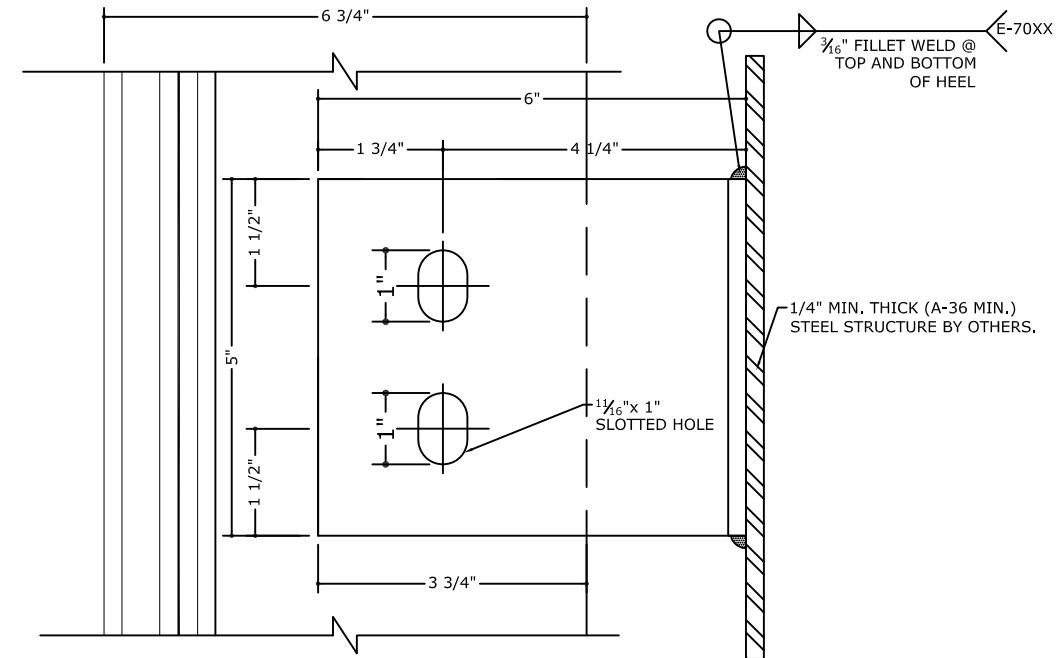
# STANDARD MULLION INTERMEDIATE SUPPORT WITH DEAD & WIND LOAD ANCHOR\* AT TWIN SPAN



**MID ANCHOR AT STANDARD MULLION DETAIL**  
SCALE: 6" = 1'-0" (TOP VIEW)



**DEAD LOAD ANCHOR DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)



**WIND LOAD ANCHOR DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)

\* ONLY ONE DEADLOAD APPLICATION PER MULTIPLE SPAN MULLION/JAMB. ANY OTHER ANCHOR IN THE SAME MULTIPLE SPAN SHALL ALLOW FREE MOVEMENT DUE TO THERMAL EXPANSION. MULTIPLE SPAN MULLION MAY BE CONNECTED BY SPLICE AS SHOWN ON MULLION SPLICE DETAILS.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

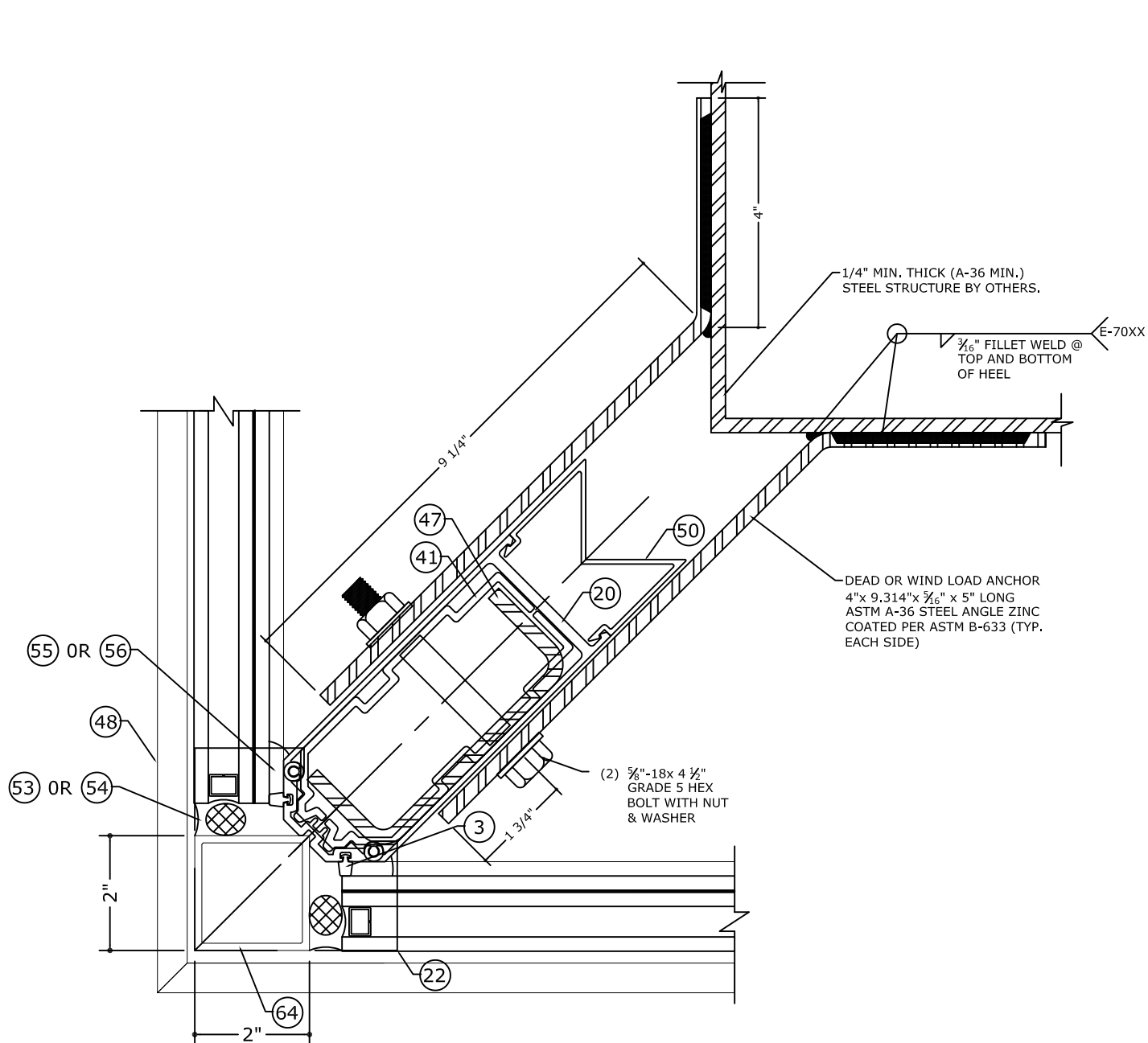
# CORNER MULLION INTERMEDIATE SUPPORT WITH DEAD & WIND LOAD ANCHOR\* AT TWIN SPAN

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383

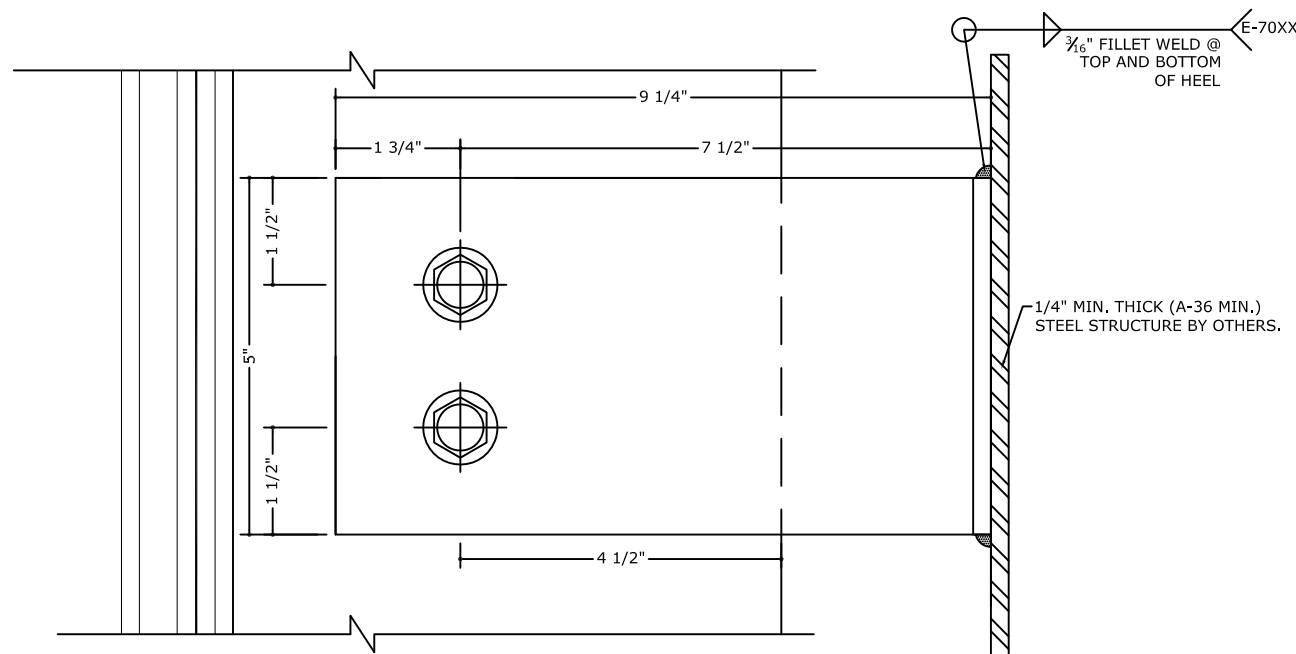


04/02/2021

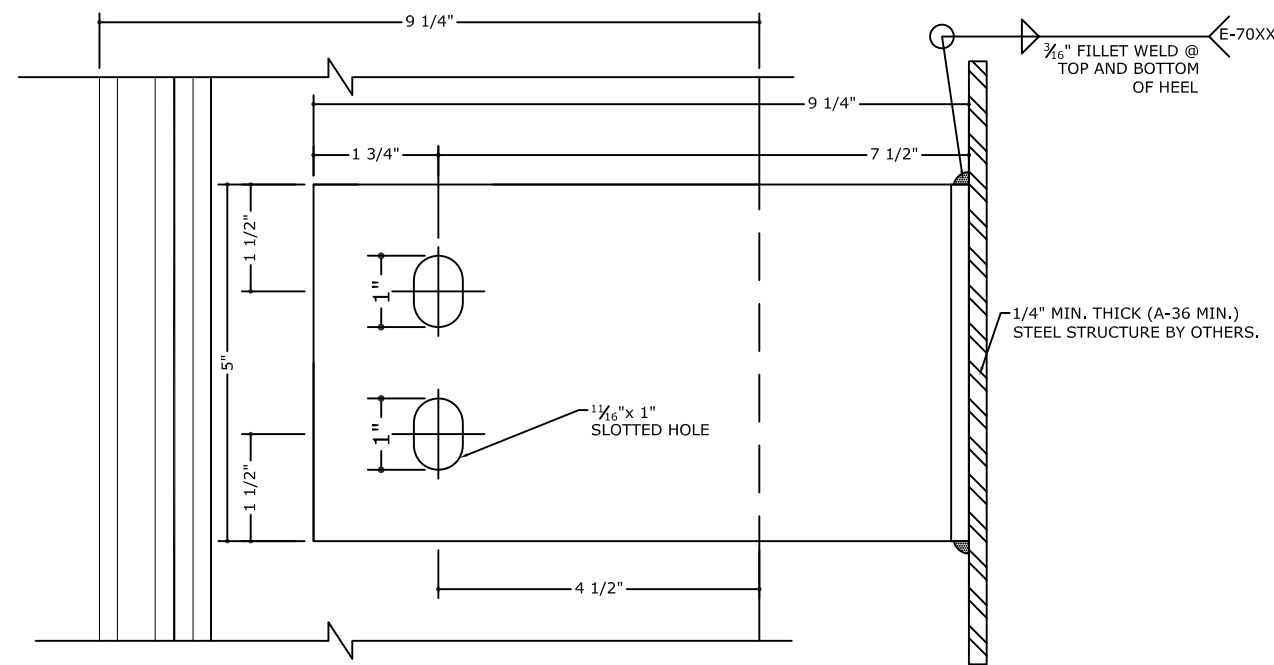
**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM



**MID ANCHOR AT CORNER DETAIL**  
SCALE: 6" = 1'-0" (TOP VIEW)



**DEAD LOAD ANCHOR AT CORNER DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)



**WIND LOAD ANCHOR AT CORNER DETAIL**  
SCALE: 6" = 1'-0" (SIDE VIEW)

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

28 OF 44



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

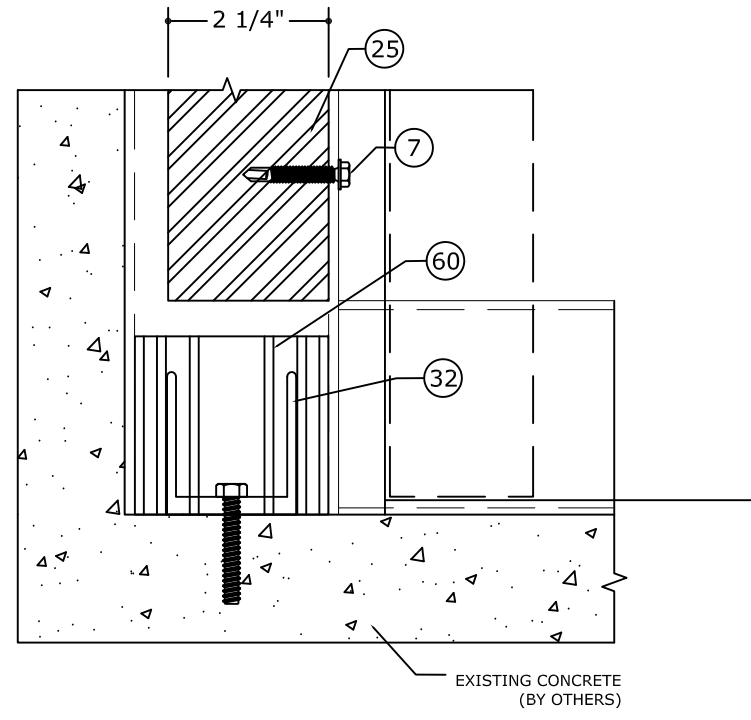
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

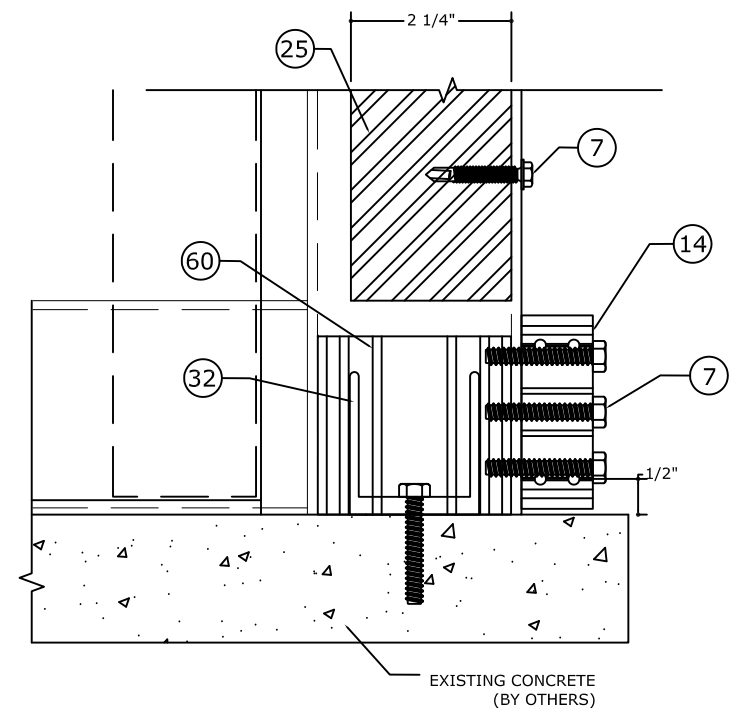
20-30425.3

SCALE: NTS UNLESS NOTED

# SILL CONNECTION FOR JAMB MULLION W/ NO SIDELITE & FOR DOOR JAMB MULLION FOR DOORS INSTALLED AT EXISTING STRUCTURE OR ADJACENT TO CURTAIN WALL

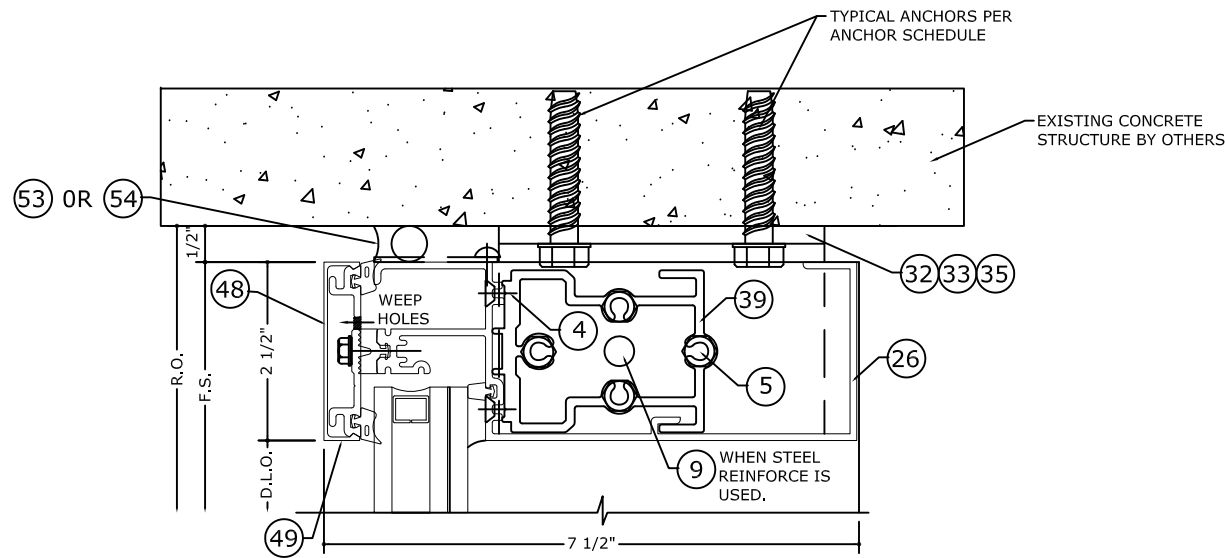


**ANCHORING DETAIL AT DOOR JAMB MULLION WITH NO SIDELITE CONDITION**  
SCALE: 6" = 1'-0"

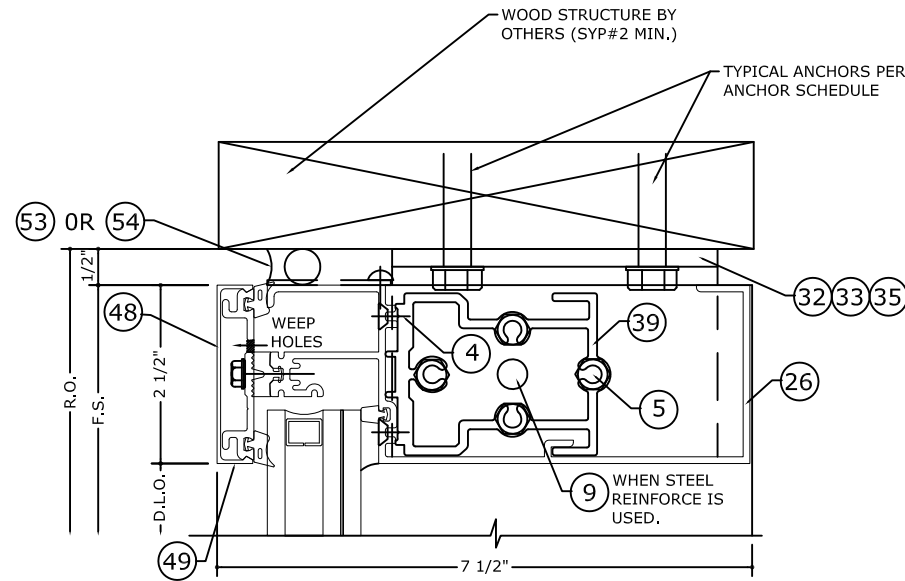


**ANCHORING DETAIL AT DOOR JAMB MULLION WITH SIDELITE CONDITION**  
SCALE: 6" = 1'-0"

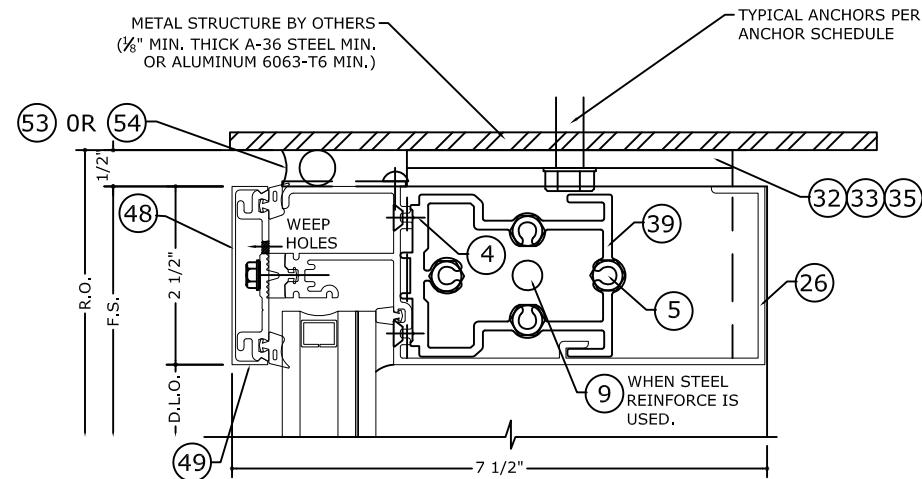
# HEAD CONNECTION DETAILS



**1 HEAD DETAIL**  
SCALE: 6" = 1'-0"



**1.1 HEAD DETAIL**  
SCALE: 6" = 1'-0"



**1.2 HEAD DETAIL**  
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

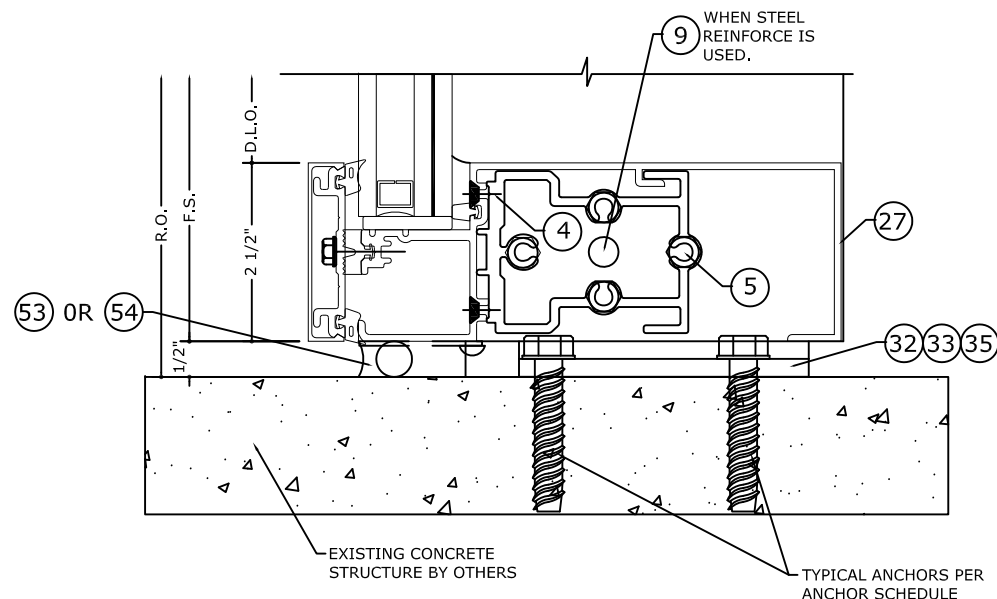
20-30425.3

SCALE: NTS UNLESS NOTED

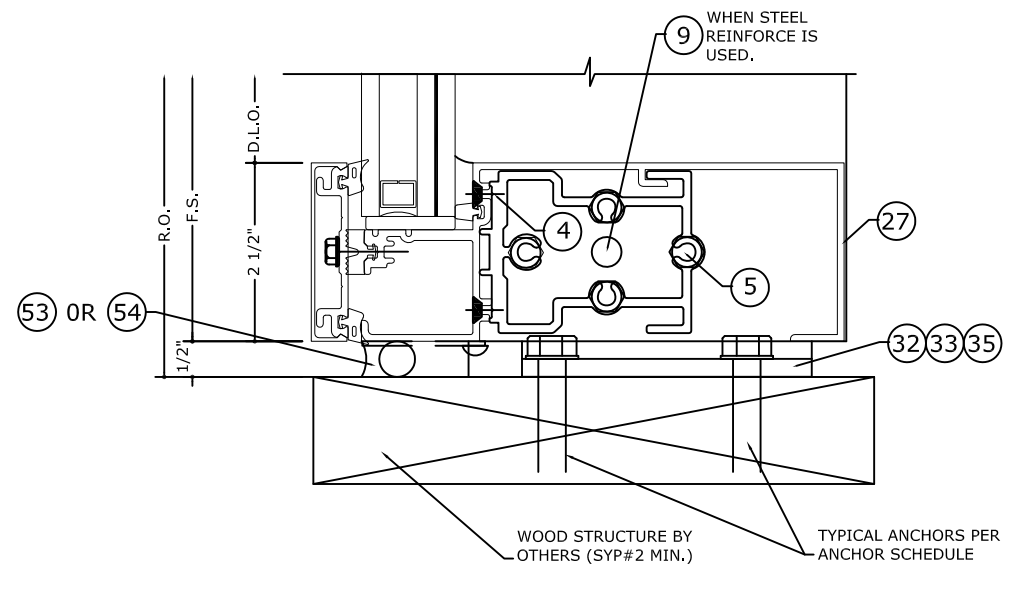
30 OF 44



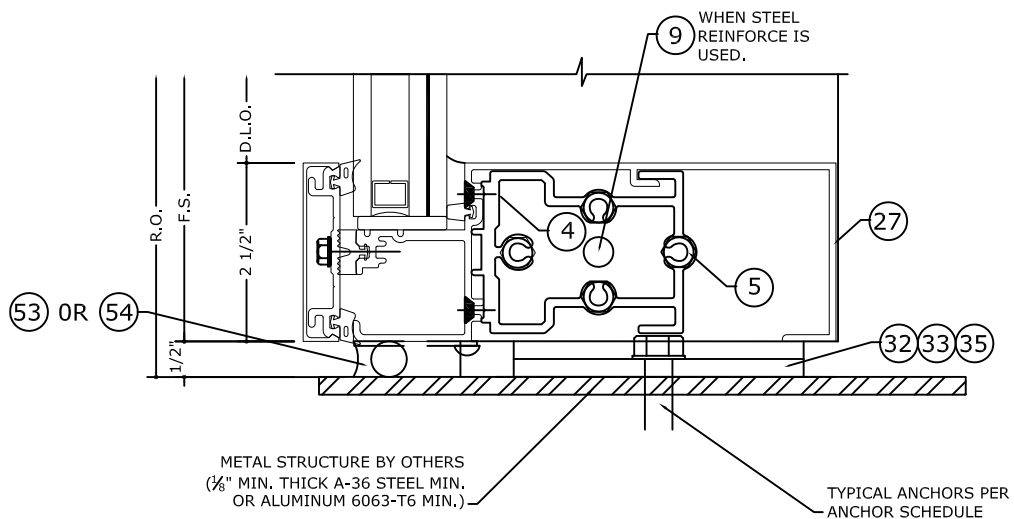
# SILL CONNECTION DETAILS



**2 SILL DETAIL**  
SCALE: 6" = 1'-0"



**2.1 SILL DETAIL**  
SCALE: 6" = 1'-0"



**2.2 SILL DETAIL**  
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

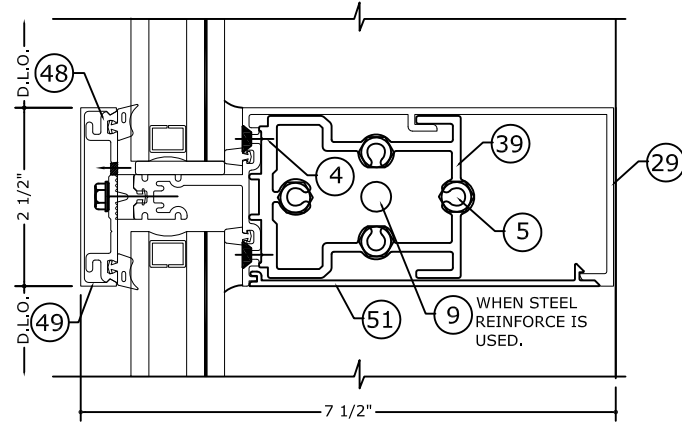
COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

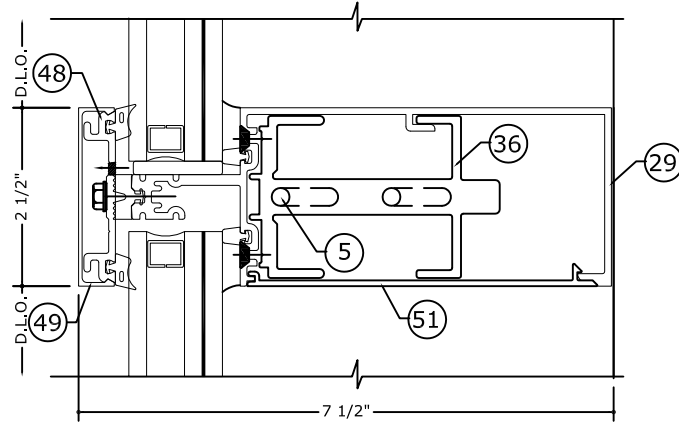
SCALE: NTS UNLESS NOTED

C:\Users\thayer\appdata\local\temp\AcFpubish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg  
thayer  
04/02/2021 - 1:23pm

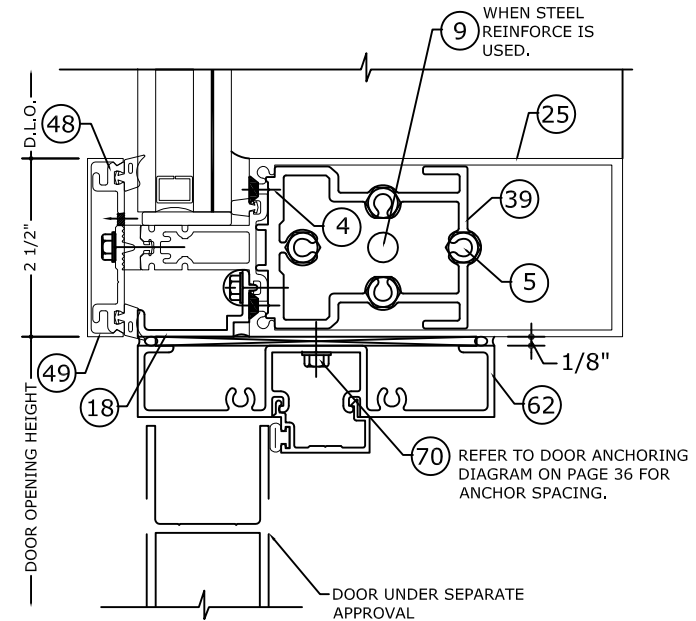
# HORIZONTAL CONNECTION DETAILS



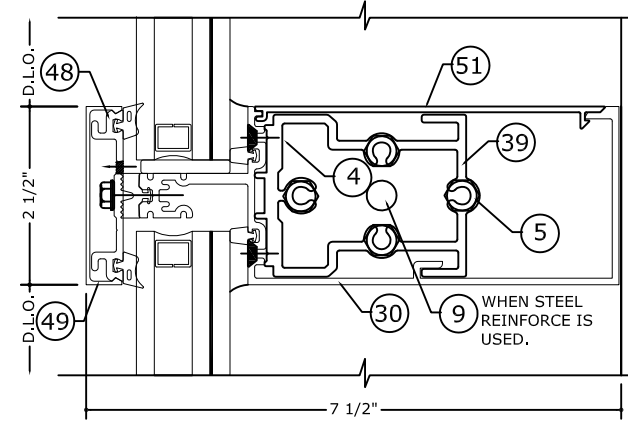
**3** INTERMEDIATE HORIZONTAL DETAIL (ROLL OVER)  
SCALE: 6" = 1'-0"



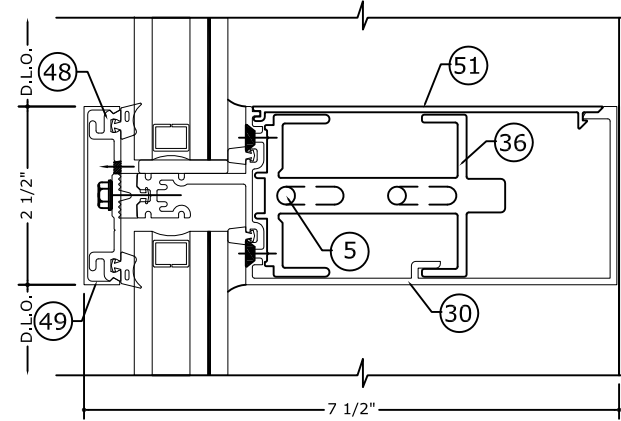
**3.3** INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL (ROLL OVER)  
SCALE: 6" = 1'-0"



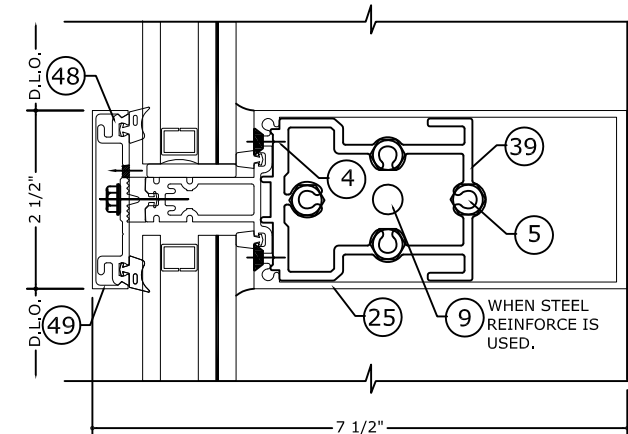
**3.6** DOOR HEADER DETAIL  
SCALE: 6" = 1'-0"



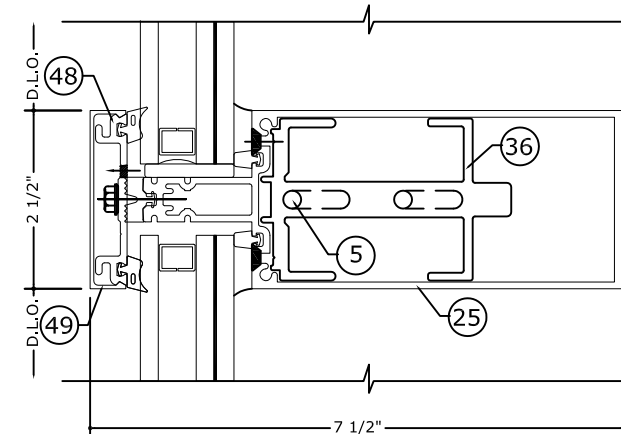
**3.1** INTERMEDIATE HORIZONTAL DETAIL (ROLL UNDER)  
SCALE: 6" = 1'-0"



**3.4** INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL (ROLL UNDER)  
SCALE: 6" = 1'-0"



**3.2** INTERMEDIATE HORIZONTAL DETAIL  
SCALE: 6" = 1'-0"



**3.5** INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL  
SCALE: 6" = 1'-0"

**NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02 FOR LENGTH LIMITATIONS ON HORIZONTAL MULLIONS.**

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

# EXPANSION HORIZONTAL CONNECTION DETAILS

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

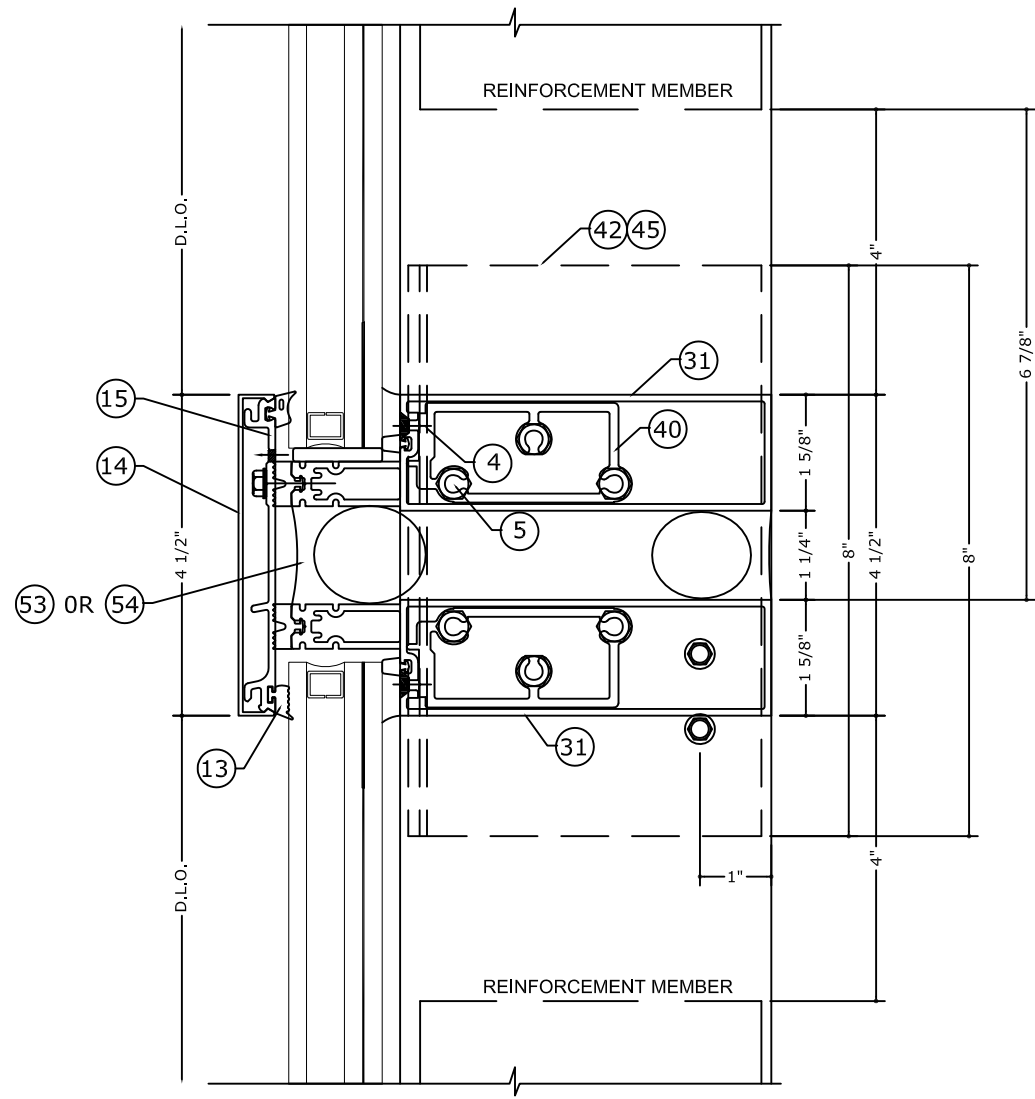
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

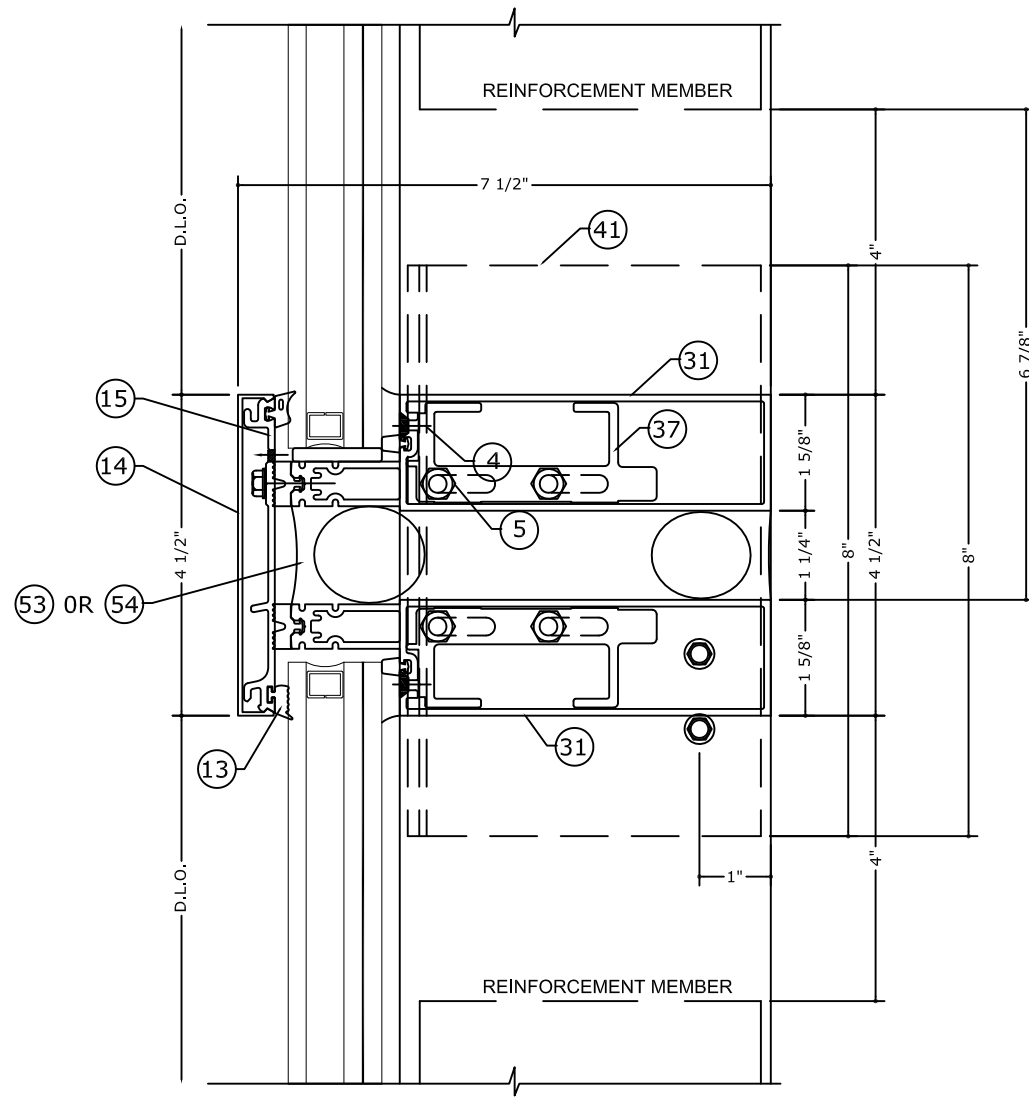
20-30425.3

SCALE: NTS UNLESS NOTED

33 OF 44



**4** EXPANSION HORIZONTAL CONNECTION  
DETAIL AT STANDARD OR JAMB MULLION  
SCALE: 6" = 1'-0"



**4.1** EXPANSION HORIZONTAL CONNECTION  
DETAIL AT CORNER MULLION  
SCALE: 6" = 1'-0"

**NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02 FOR LENGTH LIMITATIONS ON HORIZONTAL MULLIONS.**

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

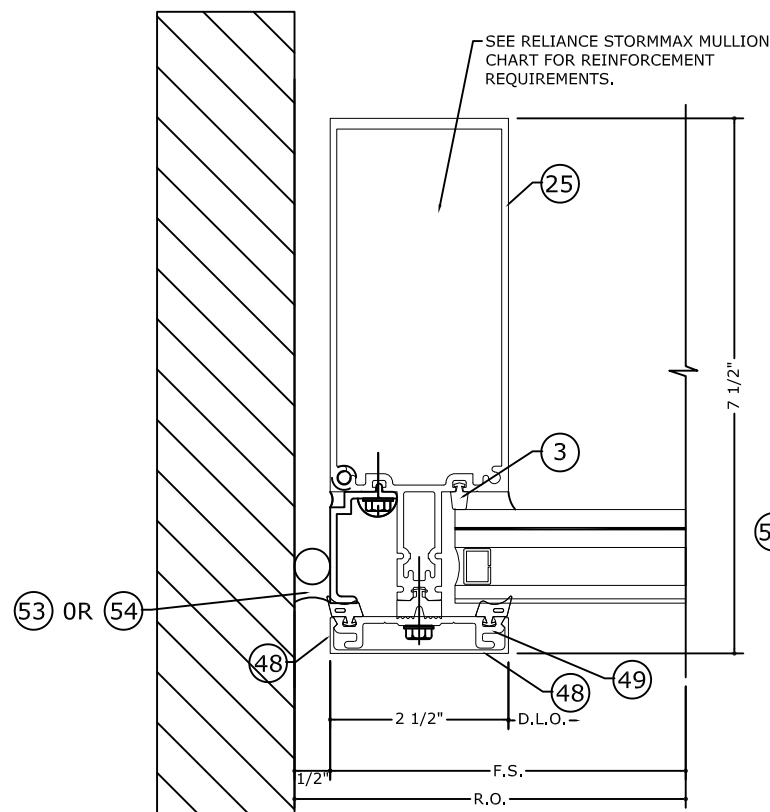
COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

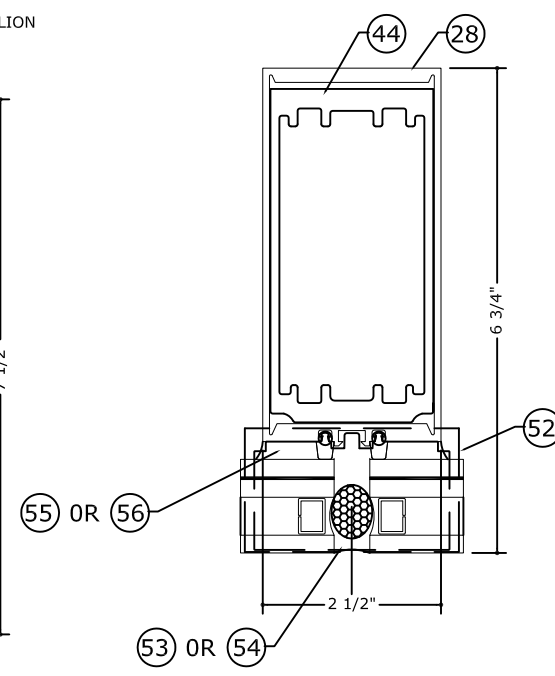
SCALE: NTS UNLESS NOTED

34 OF 44

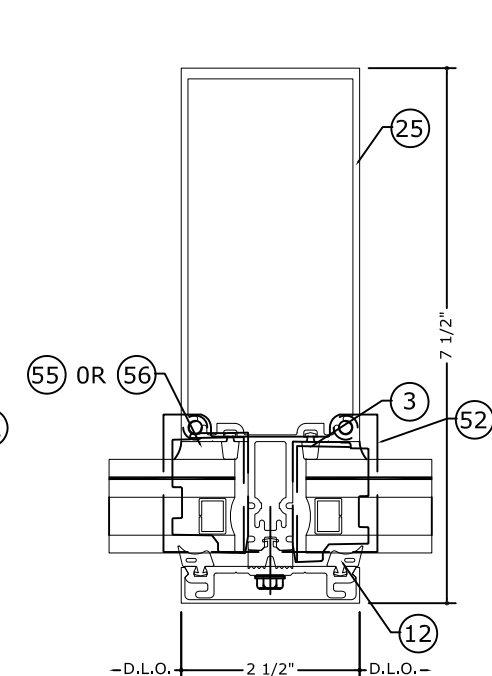
# VERTICAL JAMB / MULLION DETAILS



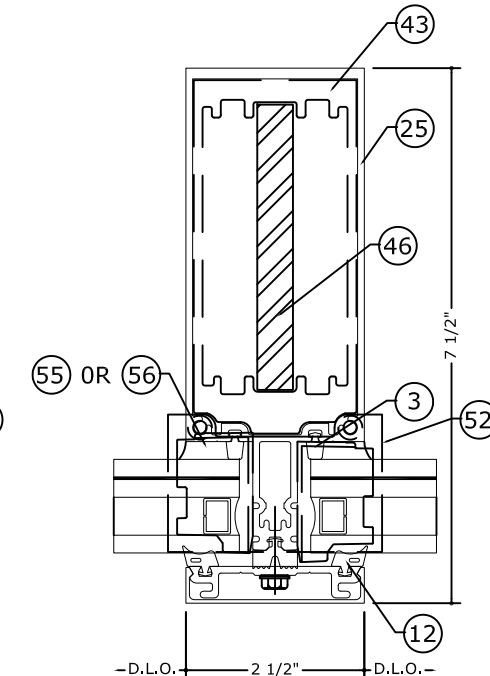
**5 JAMB DETAIL**  
SCALE: 6" = 1'-0"



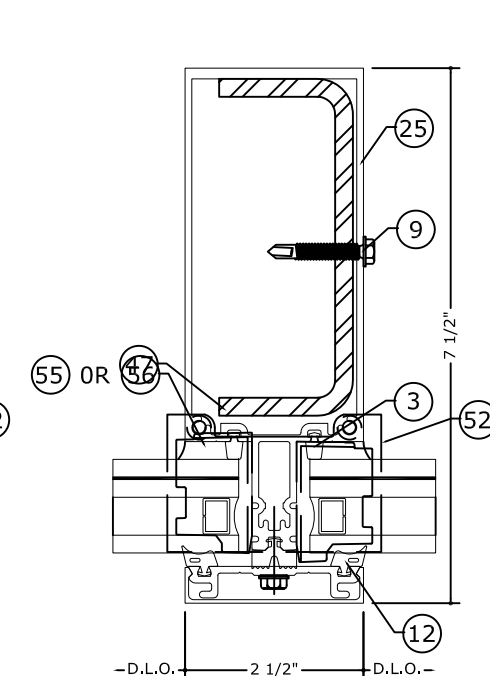
**6 HEAVY MULLION VERTICAL DETAIL**  
SCALE: 6" = 1'-0"



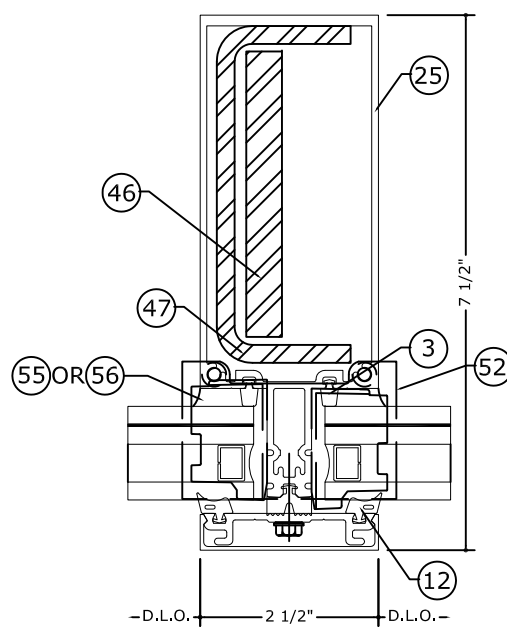
**6.1 STANDARD MULLION VERTICAL DETAIL**  
SCALE: 6" = 1'-0"



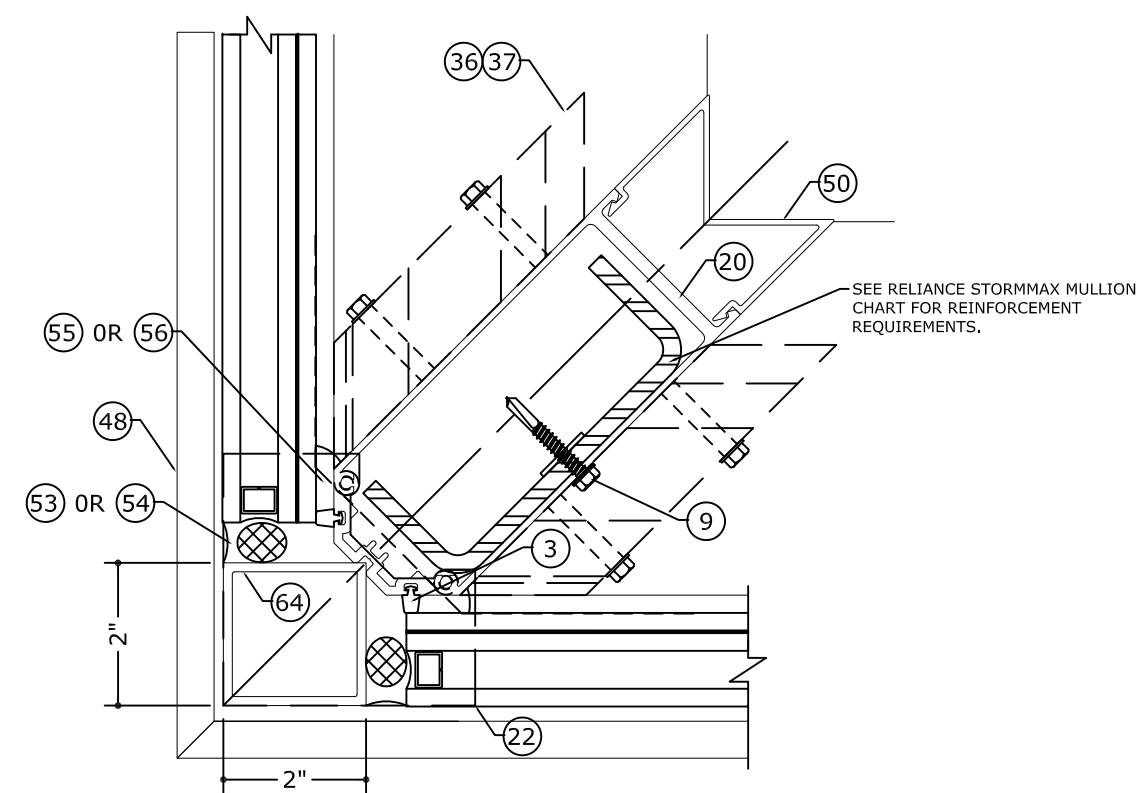
**6.2 STANDARD MULLION VERTICAL DETAIL**  
SCALE: 6" = 1'-0"



**6.3 STANDARD MULLION VERTICAL DETAIL**  
SCALE: 6" = 1'-0"



**6.4 STANDARD MULLION VERTICAL DETAIL**  
SCALE: 6" = 1'-0"



**8 CORNER DETAIL**  
SCALE: 6" = 1'-0"

**SEALANT JOINT NOTES**

N1: 5/8" MIN. & 1 5/8" MAX. WIDE JOINT WITH SEALANT 53 OR 54

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT WITH 1/4" DEPTH AT MIDWIDTH OF JOINT WITH SEALANT 53 OR 54

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

C:\Users\thayer\appdata\local\temp\AcP\Pub\ish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg  
thayer  
04/02/2021 - 1:23pm

# JAMB AND STANDARD MULLION SPLICE DETAILS AT TWIN SPAN

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

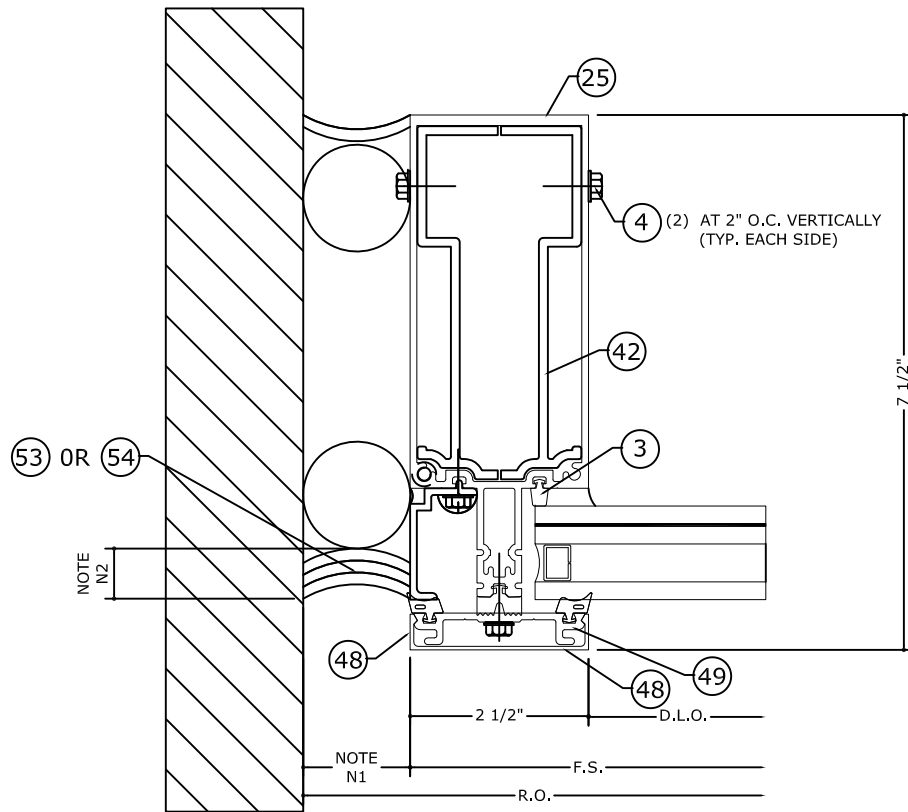


CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

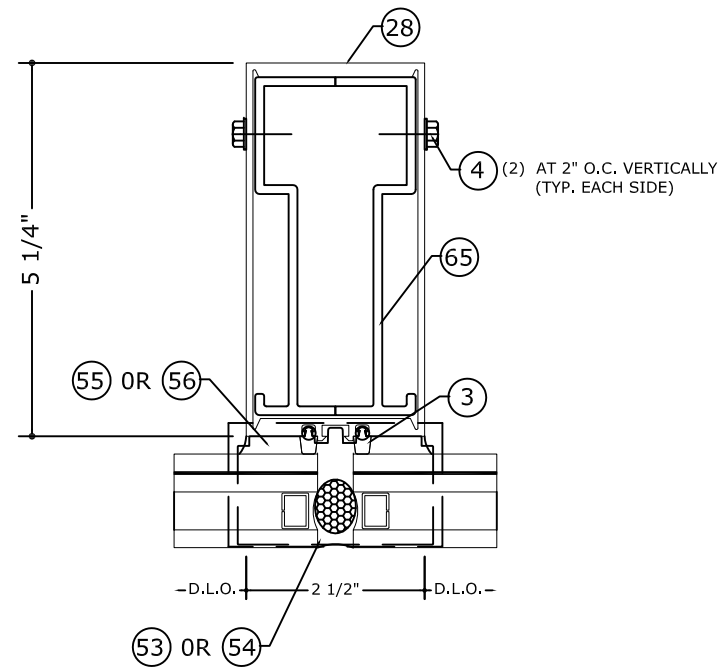
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM



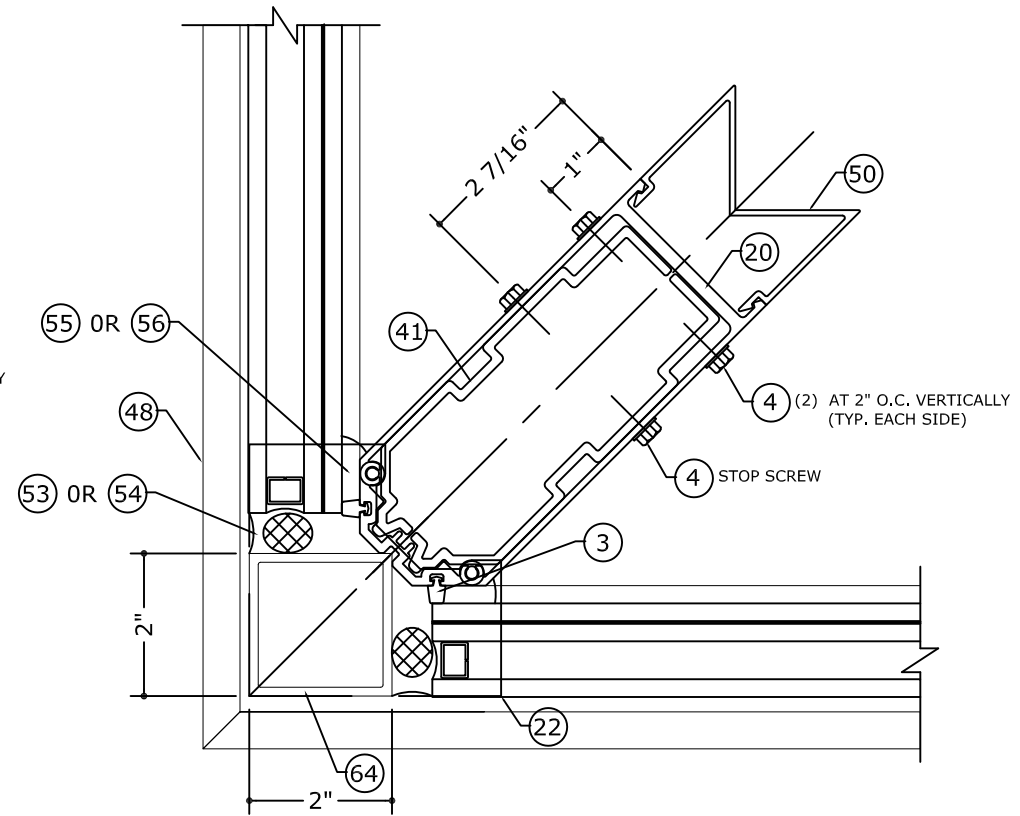
**JAMB MULLION SPLICE DETAIL**

SCALE: 6" = 1'-0"



**HEAVY MULLION SPLICE DETAIL**

SCALE: 6" = 1'-0"



**CORNER MULLION SPLICE DETAIL**

SCALE: 6" = 1'-0"

**SEALANT JOINT NOTES**

N1: 5/8" MIN. & 1 5/8" MAX. WIDE JOINT WITH SEALANT (53) OR (54)

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT WITH 1/4" DEPTH AT MIDWIDTH OF JOINT WITH SEALANT (53) OR (54)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

35 OF 44

C:\Users\thayer\appdata\local\temp\AcP\Pub\ish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:23pm



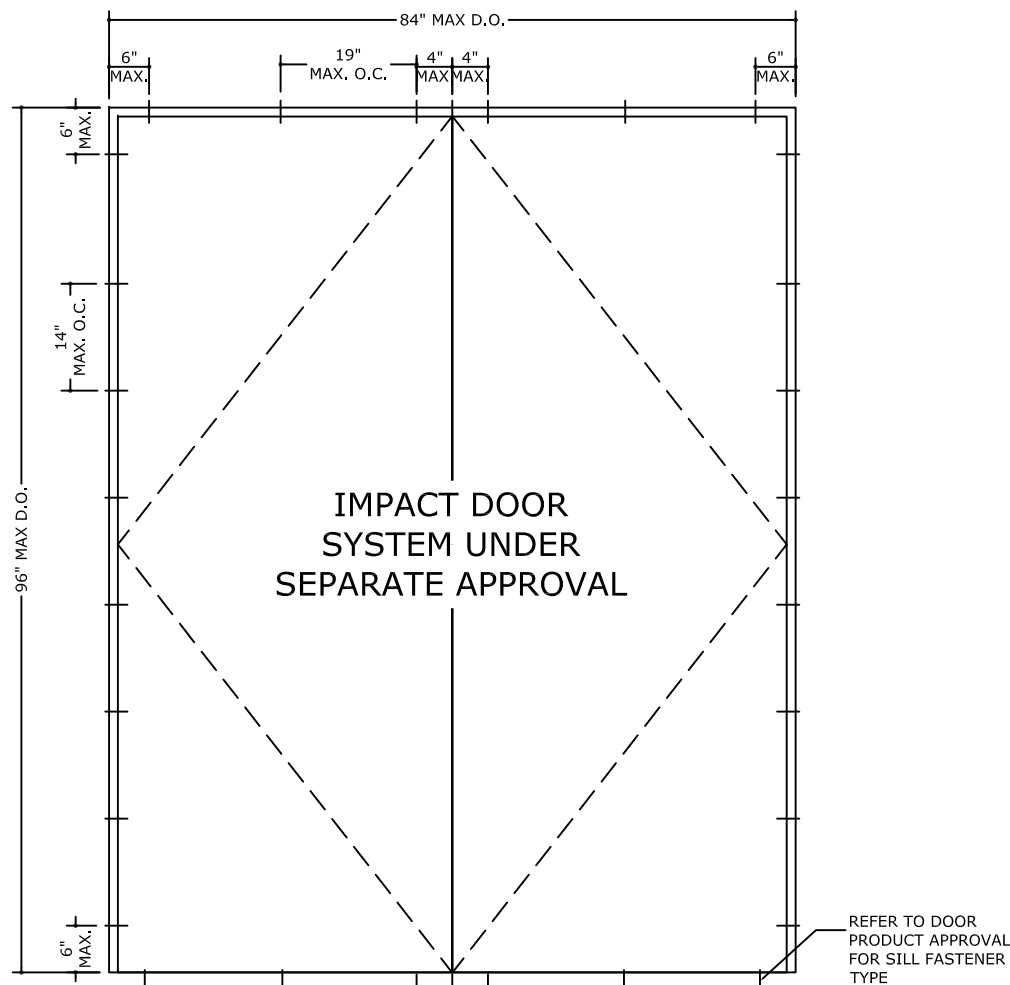
# DOOR JAMB CONNECTION TO CURTAIN WALL VERTICALS

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383

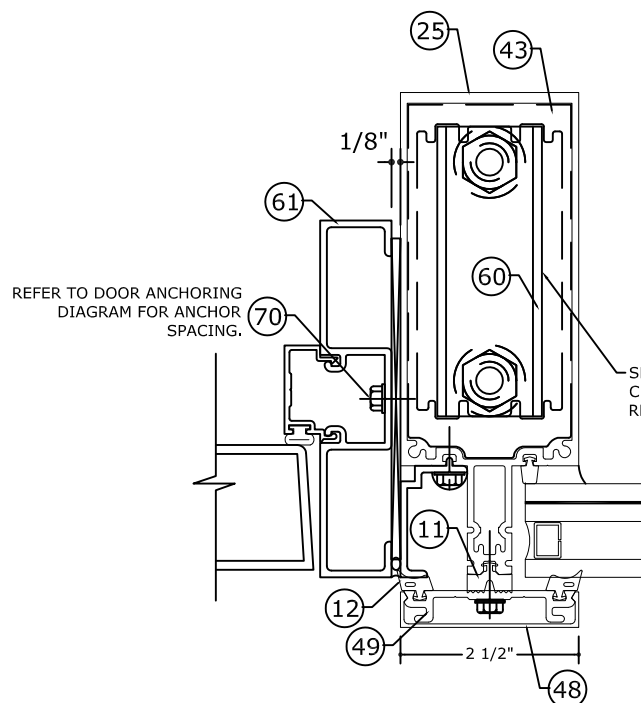


04/02/2021

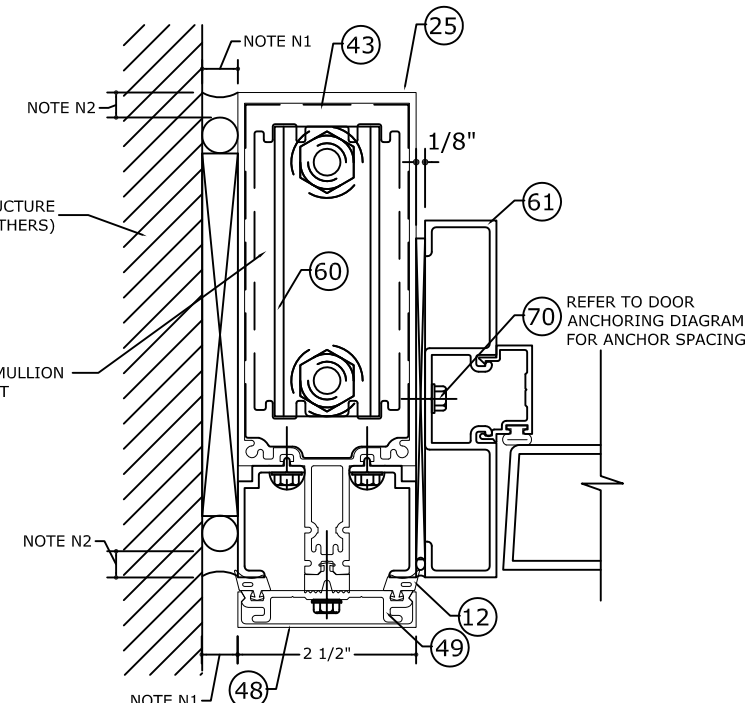
**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM



LOCATIONS FOR DOOR FRAME ATTACHEMENTS  
ABOVE DIMENSIONS ARE MAXIMUM SIZES TESTED



**9** DOOR JAMB MULLION AT CURTAIN WALL WITH SIDELITE - DJ1  
SCALE: 6" = 1'-0"



**10** JAMB MULLION W/ NO SIDELITE CONDITION  
SCALE: 6" = 1'-0"

**SEALANT JOINT NOTES**

N1: 1/2" MIN. & 1 3/4" MAX. WIDE JOINT WITH SEALANT (28) OR (30)

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT WITH 1/4" DEPTH AT MIDWIDTH OF JOINT WITH SEALANT (28) OR (30)

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

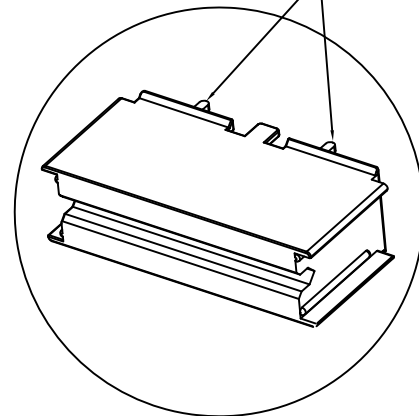
20-30425.3

SCALE: NTS UNLESS NOTED

36 OF 44

# BRIDGE AND ZONE PLUG INSTALLATION

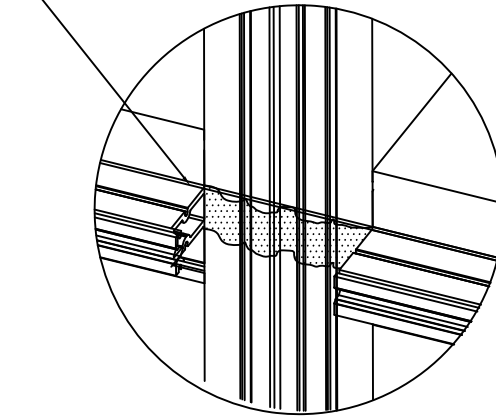
TRIM OFF NUBS WITH NEEDLE NOSE PLIERS.



**WW-350 ZONE BRIDGE**

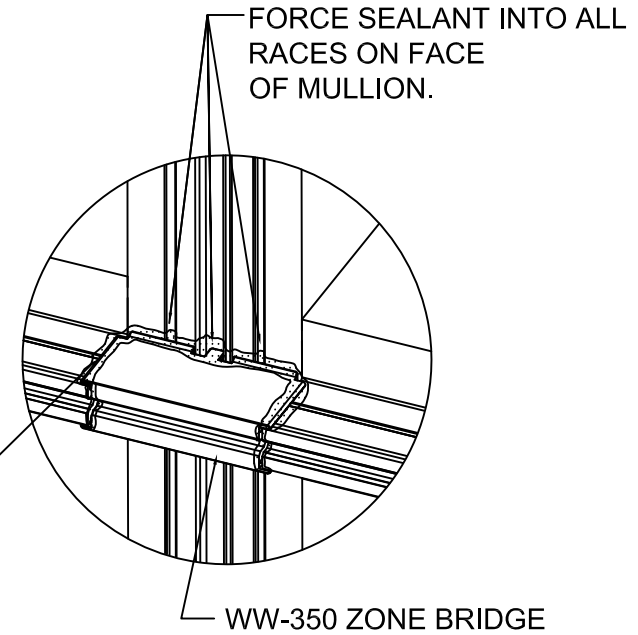
**STEP 1**

SEAL ALONG TONGUE OF HORIZONTAL AND ACROSS FACE OF MULLION BEFORE INSTALLING ZONE BRIDGE.

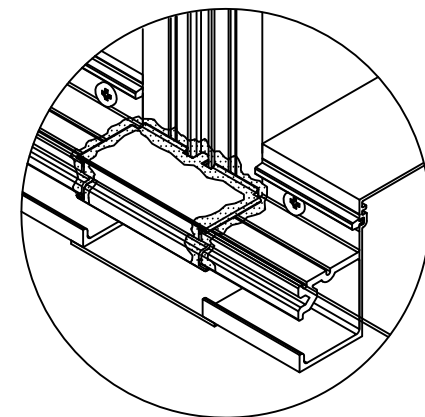


**STEP 2**

TOOL SEALANT ALONG TOP & SIDES OF ZONE BRIDGE TO FORM A WATER TIGHT SEAL.



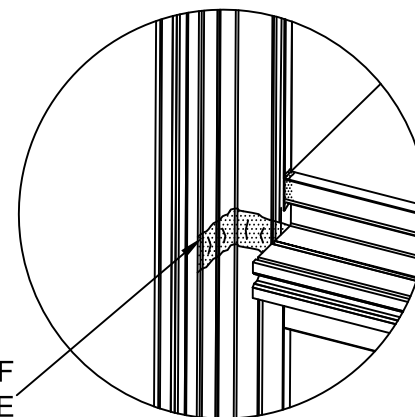
**STEP 3**



**WW-350 ZONE BRIDGE AT SILL (HEAD SIMILAR)**

**STEP 4**

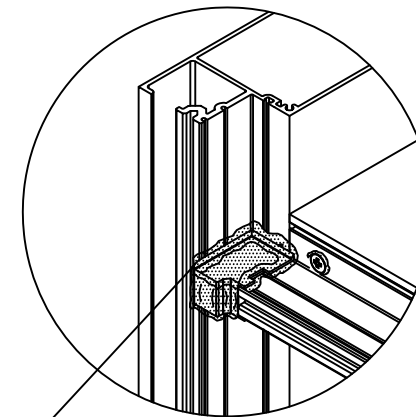
SEAL ALONG TONGUE OF HORIZONTAL & ACROSS FACE AND TONGUE OF MULLION BEFORE INSTALLING WW-352 ZONE PLUGS.



**WW-352 ZONE PLUG AT JAMB**

**STEP 4**

SEAL HEAD, JAMB & SILL ZONE PLUGS



**WW-352 ZONE PLUG AT JAMB**

**STEP 5**

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

37 OF 44

# PRESSURE PLATE AND FACE CAP INSTALLATION

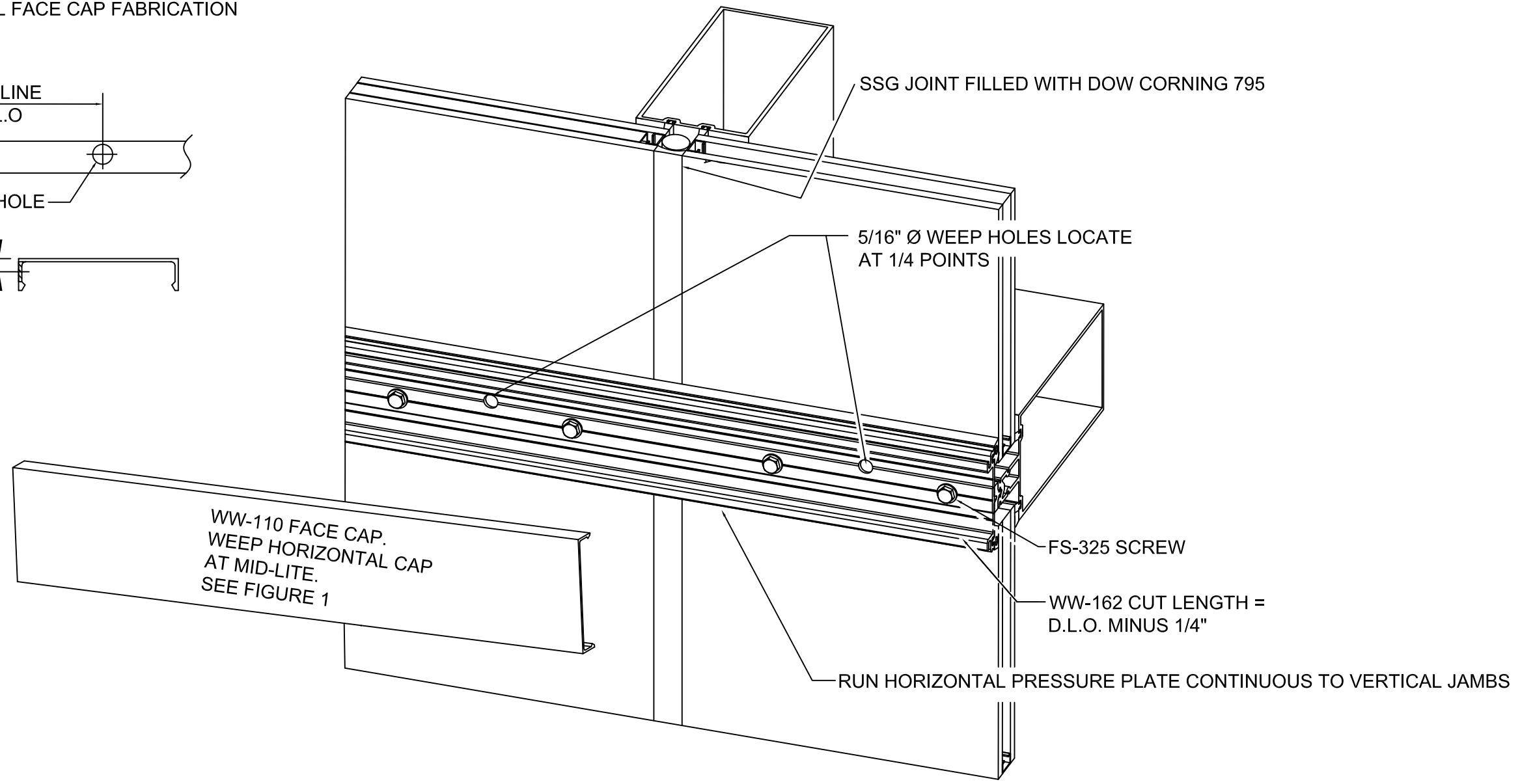
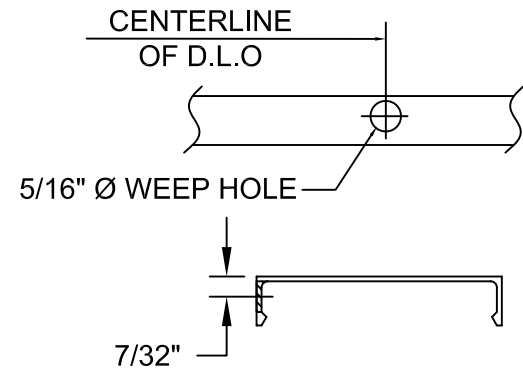
FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS®**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**FIGURE 1**  
GLAZING INSTRUCTIONS  
HORIZONTAL FACE CAP FABRICATION



WW-110 FACE CAP.  
WEEP HORIZONTAL CAP  
AT MID-LITE.  
SEE FIGURE 1

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

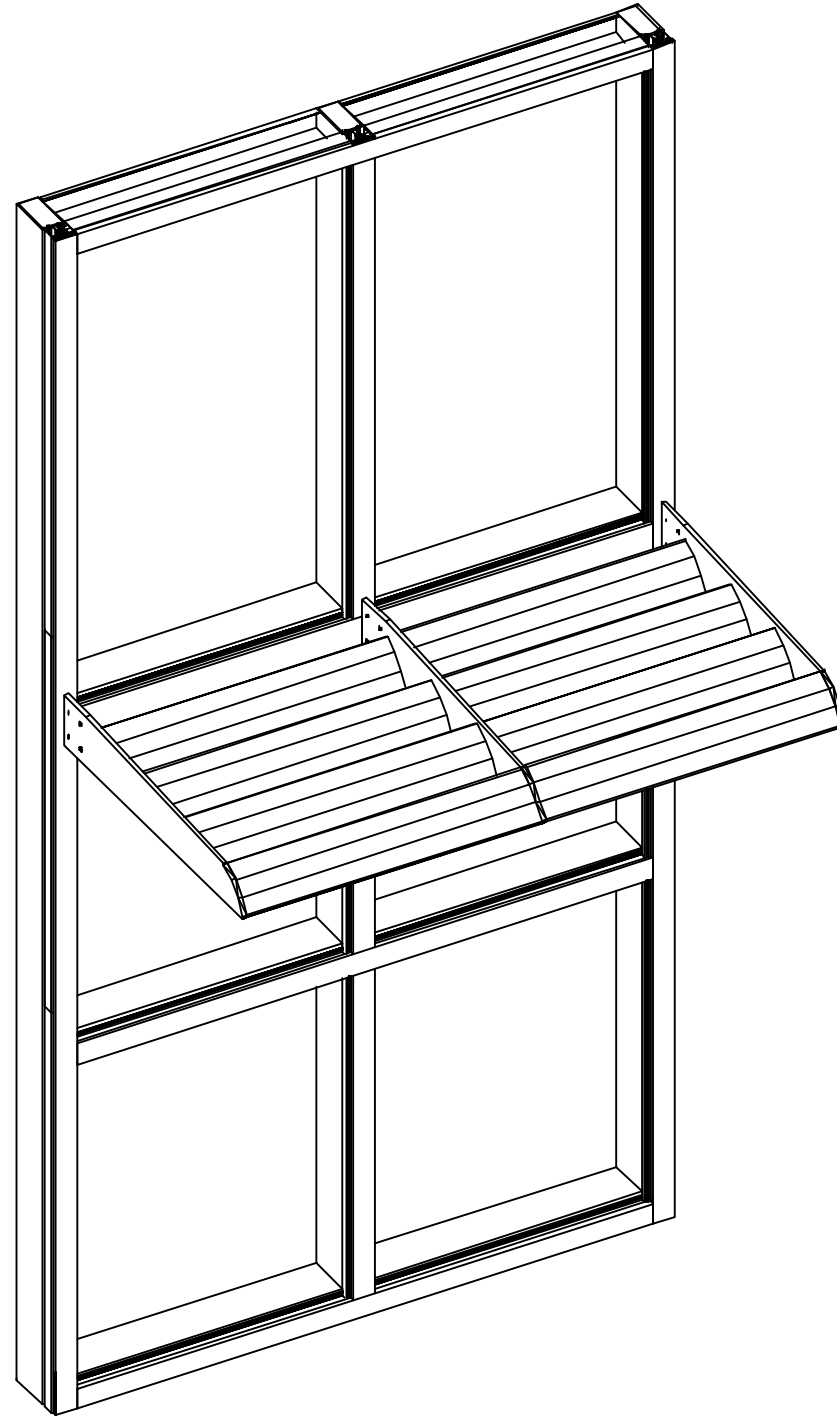
COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

38 OF 44

# SUNSHADE OPTION



NOTE: OPTIONAL SUNSHADES IN NON-HVHZ CONDITIONS CAN BE USED BASED ON SITE SPECIFIC ENGINEERING.

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021



CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**

803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21
	-	-	-
	-	-	-
	-	-	-

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

39 OF 44

# RELIANCE STORMMAX™ CURTAIN WALL SYSTEM COMPONENTS

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS®**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

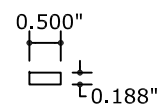
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

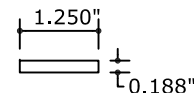
20-30425.3

SCALE: NTS UNLESS NOTED

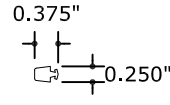
40 OF 44



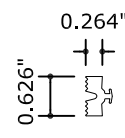
① CW-2101  
SETTING BLOCK  
(L.M.)



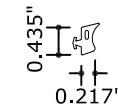
② CW-2102  
SETTING BLOCK  
(L.M. & S.M.)



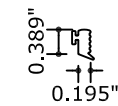
③ FG-5185S GASKET  
(L.M. & S.M.)



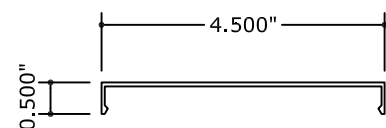
⑪ GP-107 ISOLATOR  
(L.M. & S.M.)



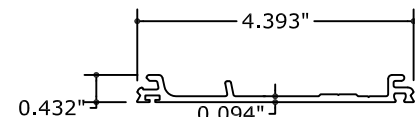
⑫ GP-117 GASKET  
(L.M. & S.M.)



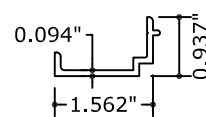
⑬ GP-160 GASKET  
(L.M. & S.M.)



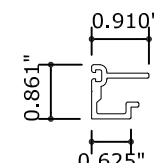
⑭ HW-100 FACE CAP  
(L.M. & S.M.)



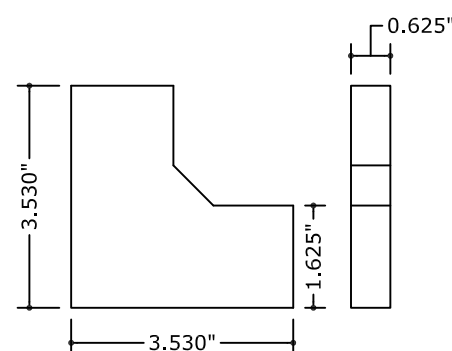
⑮ HW-102 PRESSURE PLATE  
(L.M. & S.M.)



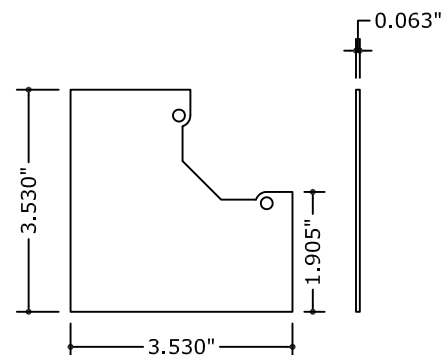
⑰ HW-122 FILLER  
(L.M. & S.M.)



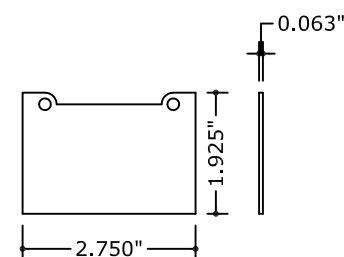
⑱ HW-130 GLAZING ADAPTOR  
(L.M.)



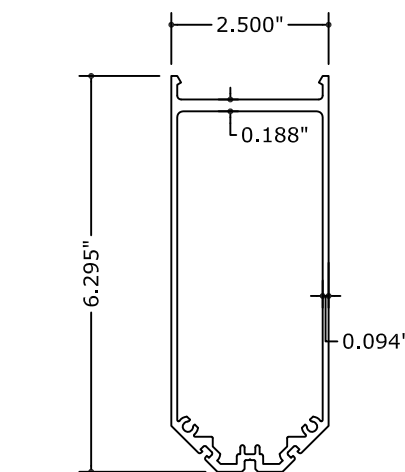
⑳ HW-312 CORNER BRIDGE  
(L.M. & S.M.)



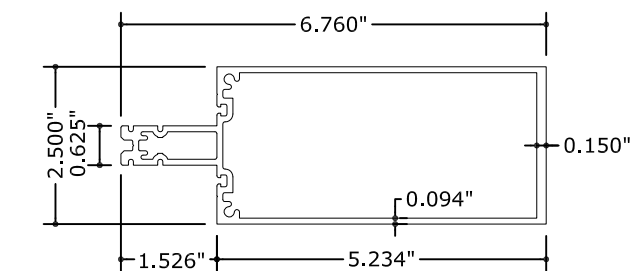
㉑ HW-323 CORNER MULL  
CAP (L.M. & S.M.)



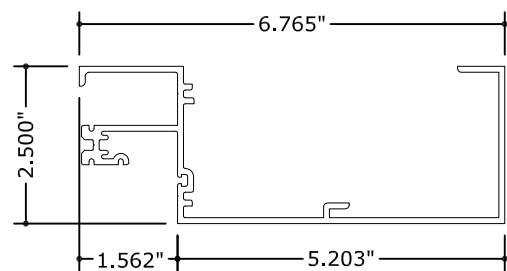
㉒ HW-338 JAMB CAP  
(L.M. & S.M.)



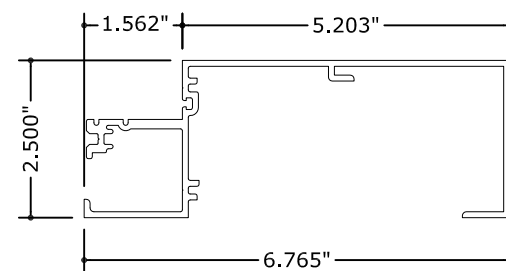
㉓ HW-240 CORNER MULLION  
(L.M. & S.M.)



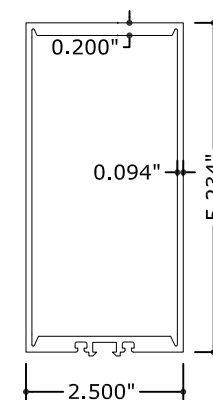
㉔ HW-500 MULLION  
(L.M. & S.M.)



㉕ HW-501 HEAD  
(L.M. & S.M.)



㉖ HW-502 SILL  
(L.M. & S.M.)



㉗ HW-504 HEAVY MULLION  
(L.M. & S.M.)

C:\Users\thayer\appdata\local\temp\AcPublish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

thayer

04/02/2021 - 1:23pm



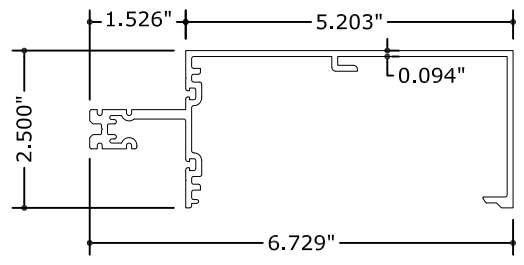
# RELIANCE STORMMAX<sup>™</sup> CURTAIN WALL SYSTEM COMPONENTS

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383

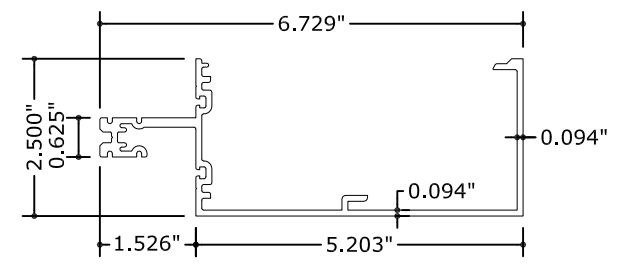


04/02/2021

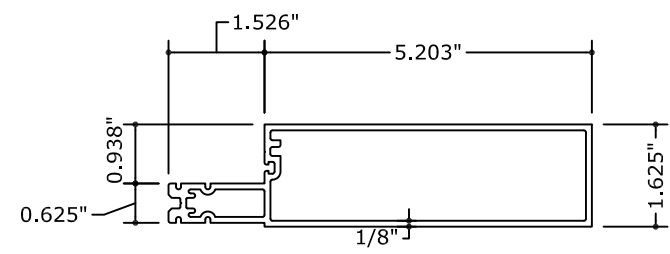
**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM



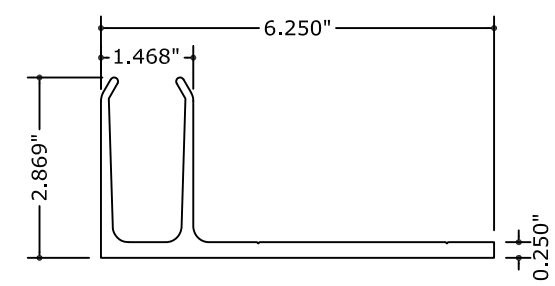
29 HW-532 ROLL OVER HORIZ.  
(L.M. & S.M.)



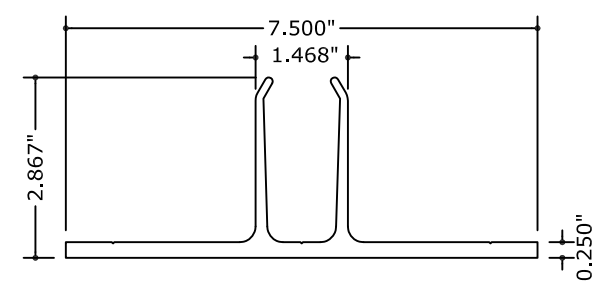
30 HW-533 ROLL UNDER HORIZ.  
(L.M. & S.M.)



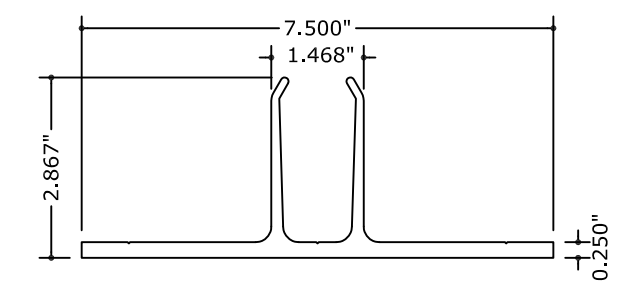
31 HW-536 HORIZONTAL  
(L.M. & S.M.)



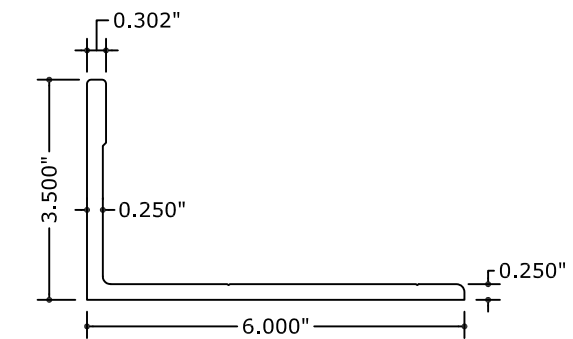
32 HW-103-01 "F" ANCHOR  
(JAMB MULLION)  
(L.M. & S.M.)



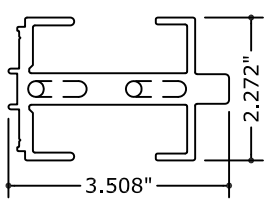
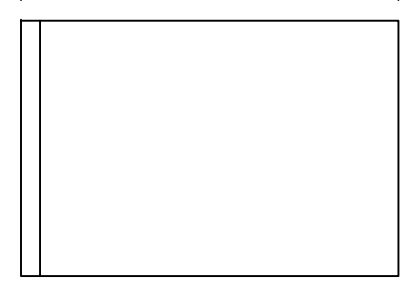
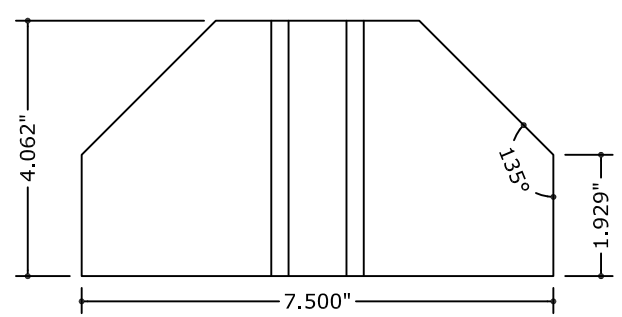
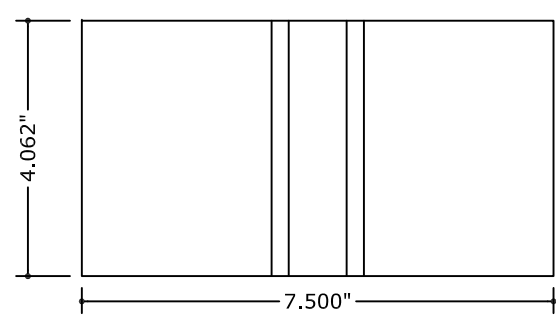
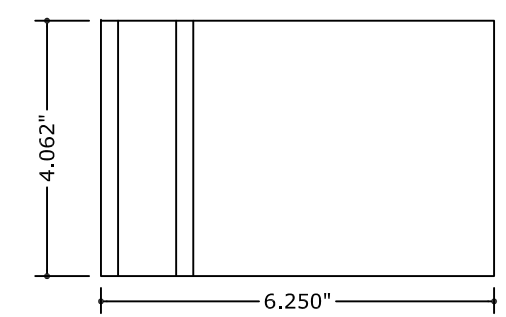
33 HW-105-01 "T" ANCHOR  
(STD. MULLION & TOP OF  
DOOR JAMB MULLION)  
(L.M. & S.M.)



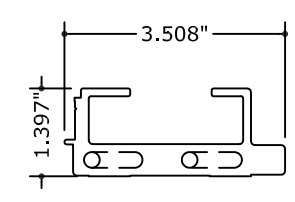
34 HW-105-02 "T" ANCHOR  
(CORNER MULLION)  
(L.M. & S.M.)



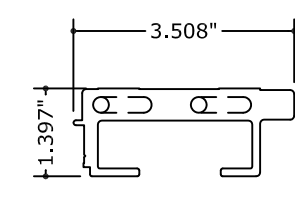
35 HW-174-01 "L" ANCHOR  
(JAMB & STD. MULLION)  
(L.M. & S.M.)



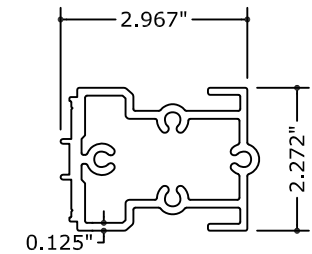
36 HW-180-01 CORNER  
SHEAR BLOCK  
(L.M. & S.M.)



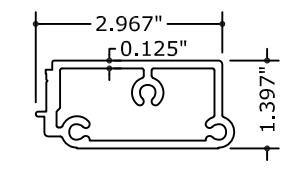
37 HW-180-02 CORNER  
SHEAR BLOCK  
(L.M. & S.M.)



38 HW-180-03 CORNER  
SHEAR BLOCK  
(L.M. & S.M.)



39 HW-183-01 SHEAR BLOCK  
(L.M. & S.M.)



40 HW-184-01 SHEAR BLOCK  
(L.M. & S.M.)

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance<sup>™</sup> StormMax<sup>®</sup> SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

04/02/2021 - 1:23pm thayer C:\Users\thayer\appdata\local\temp\AcP\Pub\sh\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg

# RELIANCE STORMMAX™ CURTAIN WALL SYSTEM COMPONENTS

FRANK BENNARDO, P.E.  
PE# 96064 CA.-F-11383



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
TEAM@ENGINEERINGEXPRESS.COM  
(954) 354-0660 | (866) 396-9999  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

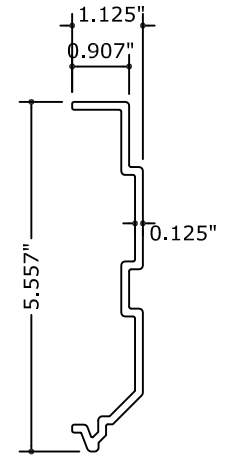
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

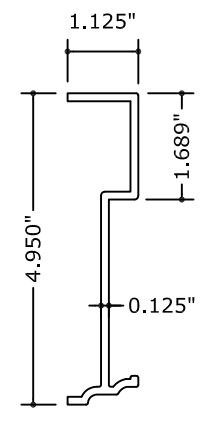
COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

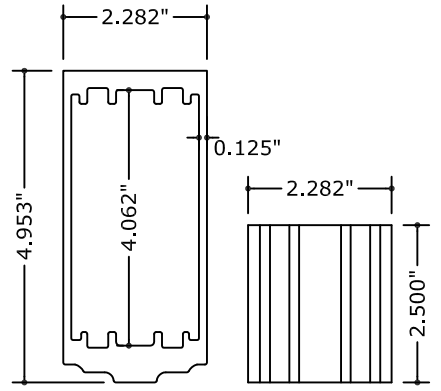
SCALE: NTS UNLESS NOTED



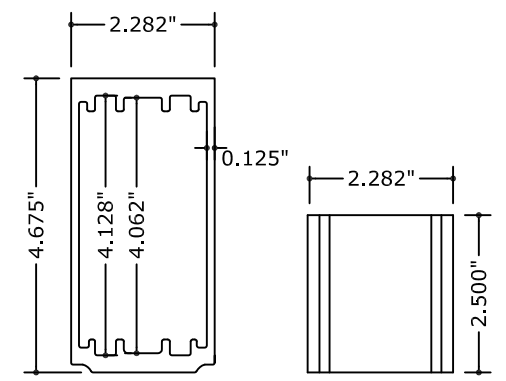
41 HW-191-01 CORNER SPLICE  
(L.M. & S.M.)



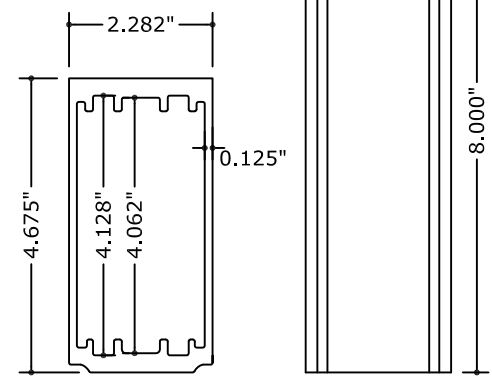
42 HW-194-01 MULLION SPLICE  
(L.M. & S.M.)



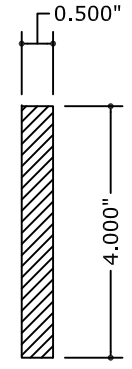
43 HW-200-01 STANDARD ANCHOR SLEEVE  
(L.M. & S.M.)



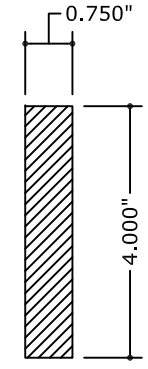
44 HW-201-01 HEAVY ANCHOR SLEEVE  
(L.M. & S.M.)



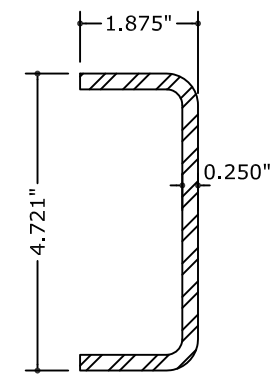
45 HW-201-02 HEAVY MULLION HARD SPLICE  
(L.M. & S.M.)



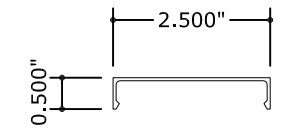
46 RS-15 STEEL REINFORCEMENT  
(L.M. & S.M.)



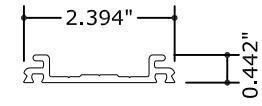
46A RS-17 STEEL REINFORCEMENT  
(L.M. & S.M.)



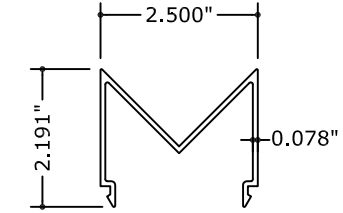
47 RS-25 STEEL REINFORCEMENT  
(L.M. & S.M.)



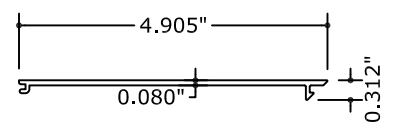
48 HW-110 FACE CAP  
(L.M. & S.M.)



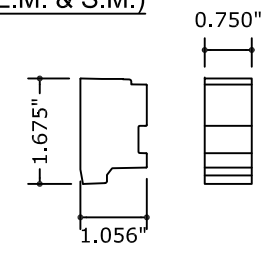
49 HW-162 PRESSURE PLATE  
(L.M. & S.M.)



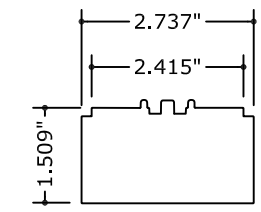
50 HW-224 COVER  
(L.M. & S.M.)



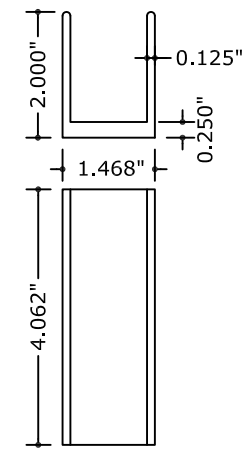
51 HW-237 FILLER (L.M. & S.M.)



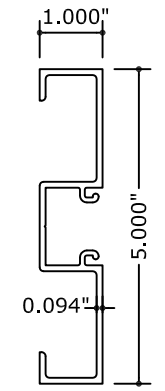
52 WW-352 ZONE PLUG  
(L.M. & S.M.)



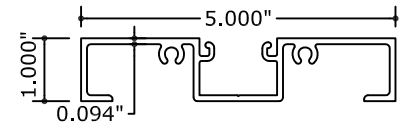
67 WW-350 SSG BRIDGE  
(L.M. & S.M.)



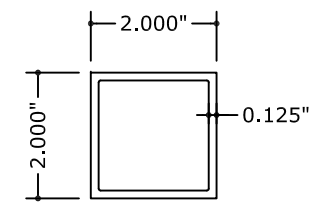
60 HW-108-01 "U" ANCHOR  
(L.M. & S.M.)



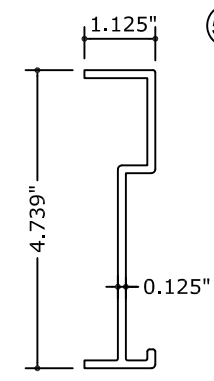
61 D-226 DOOR JAMB  
(L.M. & S.M.)



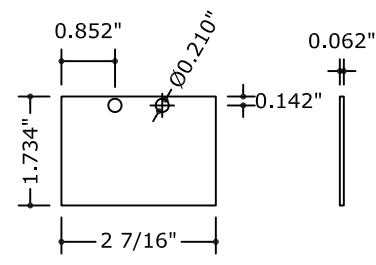
62 D-231 DOOR HEADER  
(L.M. & S.M.)



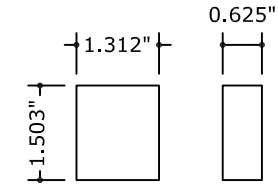
64 F-64 TUBE  
(L.M. & S.M.)



65 HW-7401 SSG MULLION SPLICE  
(L.M. & S.M.)



66 HW-358 SSG MULLION CAP  
(L.M. & S.M.)



68 HW-358 SSG MULLION CAP  
(L.M. & S.M.)

C:\Users\thayer\appdata\local\temp\AcPublish\_20516\20-30425.3a Impact Curtain Wall (SSG).dwg  
thayer  
04/02/2021 - 1:23pm



04/02/2021

### BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANF. / SUPPLIER / REMARKS
1	CW-2101	SETTING BLOCK	.50x .188x 4.00	EPDM 80 DUROMETER	EPG
2	CW-2102	SETTING BLOCK	1.250x .188x 4.00	EPDM 80 DUROMETER	EPG
3	FG-5185S	INTERIOR SPACING GASKET	.375x 0.25	SILICONE 70 DURO	EPG
4	FS-7	HORIZ. TO SHEAR BLOCK FASTENER #10x 3/4" PFH	3/4"	ZINC COATED STEEL	VARIES - MIN. Fu=124 ksi. & Fy=92 ksi (L.M. & S.M.)
5	FS-9	SHEAR BLOCK ASSEMBLY SCREW #14x 1 1/2" HH	1 1/2"	ZINC COATED STEEL	VARIES - MIN. Fu=124 ksi. & Fy=92 ksi (L.M. & S.M.)
6	FS-259	JAMB CAP PLATE FASTENER 1/4-20x 1" PFH TYPE F	1"	ZINC COATED STEEL	VARIES - MIN. Fu=124 ksi. & Fy=92 ksi (L.M. & S.M.)
7	FS-320	END CAP ATTACHMENT FASTENER #10x 1/2" U-DRIVE	1/2"	ZINC COATED STEEL	VARIES - MIN. Fu=124 ksi. & Fy=92 ksi (L.M. & S.M.)
8	FS-322	POCKET FILLER ATTACHMENT #12-14x 1" HH	1"	ZINC COATED STEEL	VARIES - MIN. Fu=124 ksi. & Fy=92 ksi (L.M. & S.M.)
9	FS-325	PRESSURE PLATE SCREW #12-14x 1 1/2" HH	1 1/2"	STALLGARD STEEL	ELCO
10	FS-328	ADAPTOR ATTACHMENT SCREW #10x 1 1/2" PFH	1 1/2"	ZINC COATED STEEL	VARIES
11	GP-107	ISOLATOR GASKET	.264x .626	EPDM 70 DUROMETER	EPG
12	GP-117	EXTERIOR GASKET	.217x .438	EPDM 60 DUROMETER	EPG
13	GP-160	EXTERIOR GASKET AT EXP HORIZ.	.195x .380	EPDM 60 DUROMETER	TREMCO
14	HW-100	FACE CAP	4.50x .50x .062	6063-T5 ALUMINUM	OBE
15	HW-102	PRESSURE PLATE	4.394x .432x .094	6063-T6 ALUMINUM	OBE
17	HW-122	POCKET FILLER	1.562x .937x .094	6063-T5 ALUMINUM	OBE
18	HW-130	GLAZING ADAPTOR	.861x .910x .080	6063-T5 ALUMINUM	OBE
20	HW-240	CORNER MULLION	6.295x 2.50x .094	6063-T6 ALUMINUM	OBE
21	HW-312	CORNER BRIDGE	3.50x 1.625x .625	EPDM SPONGE 55 SHRE	EPG
22	HW-323	CORNER MULL CAP	3.00x 1.925x .063	5005-H32 ALUMINUM	OBE
24	HW-338	JAMB CAP	2.75x 1.925x .063	5005-H32 ALUMINUM	OBE
25	HW-500	MULLION	2.50x 5.00x .094	6063-T6 ALUMINUM	OBE
26	HW-501	HEAD	2.50x 5.203x .094	6063-T6 ALUMINUM	OBE
27	HW-502	SILL	2.50x 5.203x .094	6063-T6 ALUMINUM	OBE
28	HW-504	HEAVY MULLION	2.50x 5.234x .250	6063-T6 ALUMINUM	OBE
29	HW-532	ROLL OVER HORIZONTAL	2.50x 5.203x .094	6063-T6 ALUMINUM	OBE
30	HW-533	ROLL UNDER HORIZONTAL	2.50x 5.203x .094	6063-T6 ALUMINUM	OBE
31	HW-536	EXPANSION HORIZONTAL	1.625x 6.729x .094	6063-T6 ALUMINUM	OBE
32	HW-103-01	"F" ANCHOR (JAMB MULLION)	6.25x 2.869x 0.25x 4.062	6063-T6 ALUMINUM	OBE
33	HW-105-01	"T" ANCHOR (STD. & DOOR JAMB MULLION)	7.50x 2.869x 0.25x 4.062	6063-T6 ALUMINUM	OBE
34	HW-105-02	"T" ANCHOR (CORNER MULLION)	7.50x 2.869x 0.25x 4.061	6063-T6 ALUMINUM	OBE
35	HW-174-01	"L" ANCHOR (STD. & JAMB MULLION)	3.50x 6.0x 0.25x 4.062	6063-T6 ALUMINUM	OBE
36	HW-180-01	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM	OBE
37	HW-180-02	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM	OBE
38	HW-180-03	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM	OBE
39	HW-183-01	SHEAR BLOCK	2.827x 2.272x .125	6063-T6 ALUMINUM	OBE
40	HW-184-01	SHEAR BLOCK	3.153x 1.397x .125	6063-T6 ALUMINUM	OBE
41	HW-191-01	CORNER SPLICE	5.557x 1.125x 8.00x .126	6063-T6 ALUMINUM	OBE
42	HW-194-01	JAMB & STD. MULLION SPLICE	4.950x 1.125x 8.00x .125	6063-T6 ALUMINUM	OBE
43	HW-200-01	STD. MULLION ANCHOR SLEEVE	2.282x 4.953x 2.50x .125	6063-T6 ALUMINUM	OBE

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100  
Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

43 OF 44



04/02/2021

**ENGINEERING EXPRESS**  
CORPORATE OFFICE:  
160 SW 12th AVE, SUITE 106  
DEERFIELD BEACH, FL 33442  
(954) 354-0660 | (866) 396-9999  
TEAM@ENGINEERINGEXPRESS.COM  
ENGINEERINGEXPRESS.COM

### BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANF. / SUPPLIER / REMARKS
44	HW-201-01	HEAVY MULL ANCHOR SLEEVE	2.282x 4.675x 2.50x .125	6063-T6 ALUMINUM	OBE
45	HW-201-02	HEAVY MULL SPLICE	2.282x 4.675x 8.00x .125	6063-T6 ALUMINUM	OBE
46	RS-15	REINFORCEMENT STEEL	.50x 4.00	ASTM A-36	OBE - ZINC PAINTED STEEL
46A	RS-17	REINFORCEMENT STEEL	.75x 4.00	ASTM A-36	OBE - ZINC PAINTED STEEL
47	RS-25	REINFORCEMENT STEEL	1.875x 4.721x 0.25	ASTM A-36	OBE - ZINC PAINTED STEEL
48	WW-110	FACE CAP	.50x 2.50x .050	6063-T5 ALUMINUM	OBE
49	WW-162	PRESSURE PLATE	.442x 2.394x .094	6063-T6 ALUMINUM	OBE
50	WW-224	COVER	2.50x 2.190x .078	6063-T5 ALUMINUM	OBE
51	WW-237	FILLER	.204x 4.905x .080	6063-T5 ALUMINUM	OBE
52	WW-352	ZONE PLUG	1.056x 1.675x .75	ABS PLASTIC	CHARLOMA
53	795	PERIMETER SEAL	-	SILICONE	DOWSIL
54	SCS 2000	PERIMETER SEAL	-	SILICONE	GE
55	995	POCKET SEAL	-	SILICONE	DOWSIL
56	SSG 4600	POCKET SEAL	-	SILICONE	GE
57	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x 4 1/2" HH	4.50	GRADE 5 ZINC PLATED	VARIES
58	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x NUTS	-	GRADE 5 ZINC PLATED	VARIES
59	FASTENERS	MID POINT ANCHOR AT JAMBS 5/8-18x 1 3/4" HH FN THREAD	1.75	GRADE 5 ZINC PLATED	VARIES
60	HW-108-01 "U" ANCHOR	AT DOOR JAMB MULLION & AT JAMB MULLION AT DOOR W/ MOM SIDELITE & OPTIONAL AT JAMB MULLION	2.875x 1.468x 0.25x 4.062	6063-T6 ALUMINUM	OBE - USE ONLY AT BOTTOM.
61	D-226	DOOR JAMB	1.00x 5.00x .094	6063-T6 ALUMINUM	OBE
62	D-231	DOOR HEADER	1.00x 5.00x .094	6063-T6 ALUMINUM	OBE
64	F-64	TUBE	2.00x 2.00x .125	6063-T6 ALUMINUM	OBE
65	HW-74-01	SSG MULLION SPLICE	4.793x 1.125x 8.00x .125	6063-T6 ALUMINUM	OBE
66	HW-358	SSG MULLION CAP	3.00x 1.735x .063	5005-H32 ALUMINUM	OBE
67	WW-350	SSG BRIDGE	2.737x 1.519x .761	ABS PLASTIC	CHARLOMA
68	HW-314	CORNER ZONE PLUG	1.312x 1.503x .625	EPDM SPONGE 55	EPG
69	INSULATING GLASS UNIT SPACER	MODEL H 6.5	0.5x 0.25x 0.014	3105-H24 ALUMINUM	PROFILGLASS
70	FS-322	@12X14 x 1" HEX WASHER HEAD DRIL-FLEX SCREW	1"	S.S	OBE

**Oldcastle BuildingEnvelope®**  
803 AIRPORT ROAD  
TERRELL, TX, 75160  
Phn. (972) 551-6100

Reliance™ StormMax® SSG  
CURTAINWALL SYSTEM

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/21/20
2020 TDI UPDATE	TAE	AJP	03/17/21

COPYRIGHT ENGINEERING EXPRESS®

20-30425.3

SCALE: NTS UNLESS NOTED

44 OF 44