



ALUMINUM CLADDING

UNIVERSAL 140

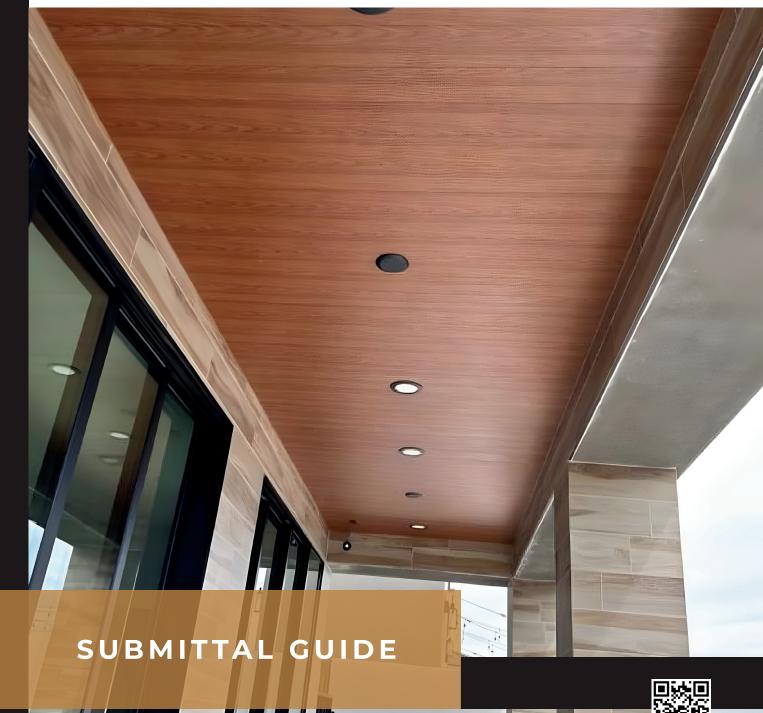
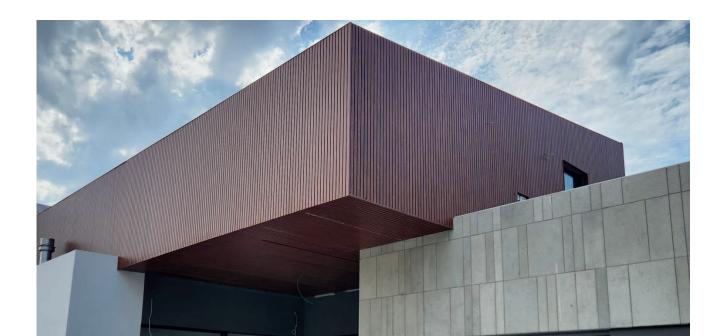




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WELCOME!





GTO ALUMINUM

Interior & Exterior Wall Cladding

GTO Aluminum is the leading innovator in Aluminum Cladding installation systems, profiles, and technology for both Interior & Exterior design.

A pioneer for both residential and commercial structures. Unlike anything else in the construction and design markets today! Slide-on, tongue and groove installation, fully enclosed with no gaps. Perfect for applications requiring a more waterproof solution.

One portion of the universal profile would be drilled in with screws; as the next profile slides in on top and cover the screws of the one beneath it. This provides a very sleek, sealed, modern, and clean finish.

A SUPERIOR PRODUCT

THAT GIVES CUSTOMER MORE OPTIONS

Using Aluminum is a better solution for an environmentally sustainable future. It does not rust or swell, its impervious to termites, its fire resistant, therefore great to cover the fireplace or BBQ walls for example, it also requires ZERO maintenance and can handle every climate type. Aluminum is 100% recyclable; that means Aluminum is a forever product. It is so long lasting that 75% of all aluminum ever created is still in use today! Remarkable.



Does not rust or swell.

Impervious to damage from pests such as termites.

Fire-resistant. Safe to cover fireplaces

100% Recyclable & Enviromentally Sustainable.

Includes lifetime warranty against water and pests.

Does not require maintenance.

COLOR GUIDE

IN STOCK COLOR OPTIONS



Gray



Espresso





Pine



Natural Oak



Hodge Wood **Toasted Walnut**

WALNUT COLLECTION











GREECE COLLECTION







Teak

Cocoa

Grey Walnut

Dark Cherry

Toasted Walnut

Hodge Wood

OAK COLLECTION

















Warm Cedar

Birch

Rustic Chestnut

White Oak



Sandstone Oak Warm Honeywood Silver Ash

Urban Ash

















Honey Wood Bourbon Wood

Driftwood

Driftwood

Hickory Oak Toasted Chestnut Heritage Oak

Royal Oak

MORE WOOD COLLECTION





















Hazelnut

Chestnut



Burnt Chestnut Warm Redwood



METAL & MARBLE COLLECTION





BLACK WOOD COLLECTION







03



UNIVERSAL 140

PRODUCT OVERVIEW

Description

The Universal 140 is GTO Aluminum's flagship cladding profile, measuring 5.51"W x 0.70"H x 19'L with a 0.047" thickness.

Ideal Applications:

Designed for expansive exterior surfaces, ceilings, and large-scale architectural projects requiring a seamless, modern aesthetic.

Key Features

- Seamless installation with hidden fasteners.
- Available in a range of wood tones and custom colors.
- Engineered for durability in diverse climates.

Standard Color Options













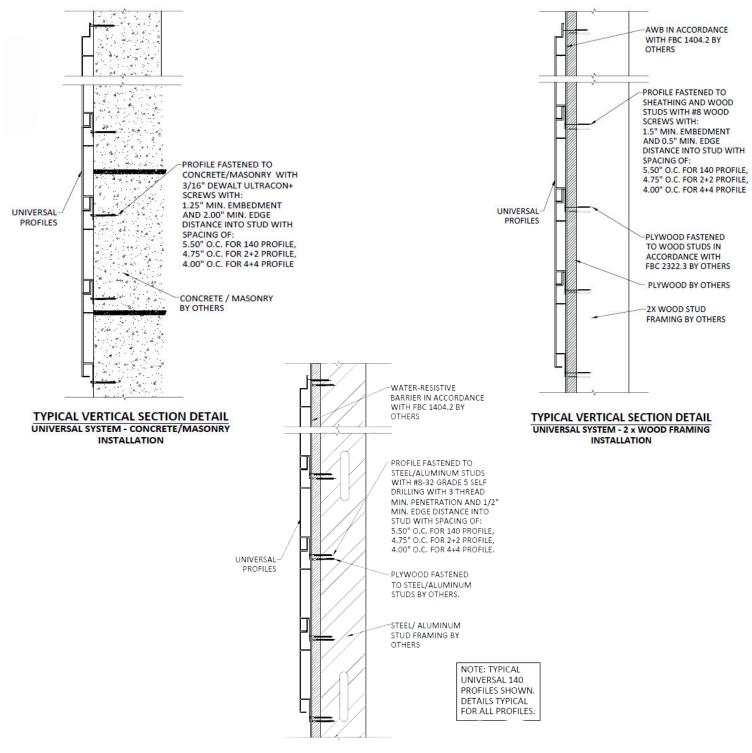






PRODUCT DETAILS &

SPECIFICATIONS

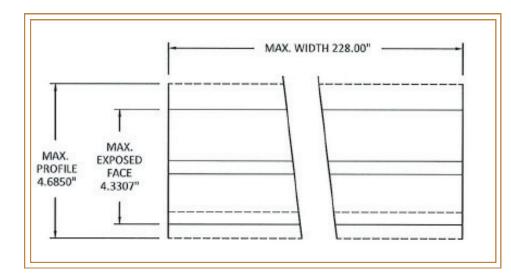


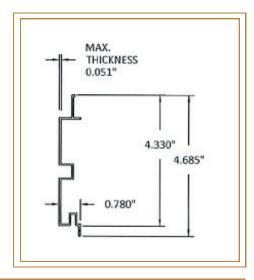
TYPICAL VERTICAL SECTION DETAIL UNIVERSAL SYSTEM - STEEL/ALUMINUM STUD FRAMING INSTALLATION

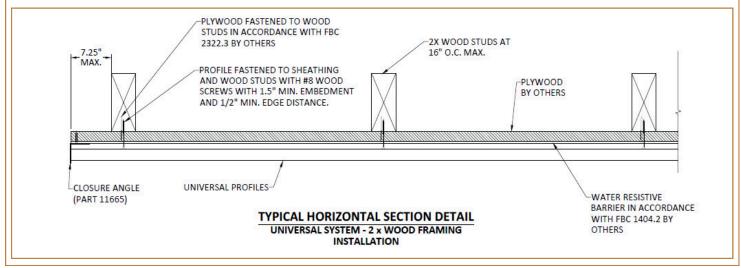


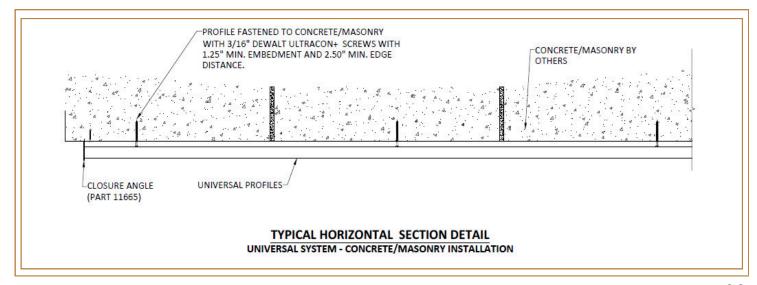
PRODUCT DETAILS &

SPECIFICATIONS





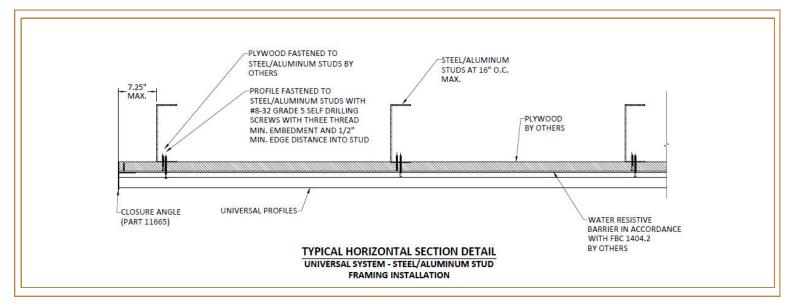


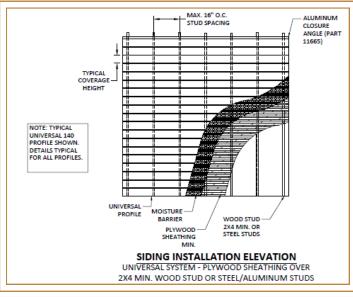


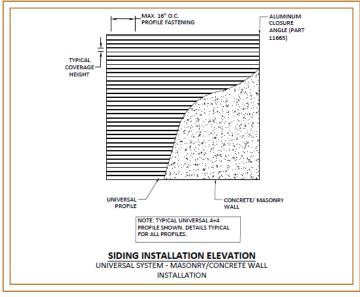


PRODUCT DETAILS &

SPECIFICATIONS







INSTALLATION NOTES

- 1. ONE INSTALLATION FASTENERS IS REQUIRED AT EACH FASTENER LOCATION SHOWN.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING
- ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- INSTALLATION FASTENERS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- INSTALLATION FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND FASTENERS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION FASTENERS CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH
 - THE FOLLOWING PROPERTIES:

 2 X WOOD FRAMING MINIMUM SPECIFIC GRAVITY OF 0.55.

 CONCRETE fc= 3000 PSI

 MASONRY CMU PER ASTM

 - C90 MIN 2000 PSI
 - METAL 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM 1/8" MIN. 6063-T5



PART 1: GENERAL I.

1.1 RELATED SECTIONS

- 05 40 00 Cold-Formed Metal Framing: Metal framing used to support aluminum cladding.
- 07 50 00 Membrane Roofing: Used in conjunction with roof-related aluminum cladding.
- 07 60 00 Flashing and Sheet Metal: Components used with aluminum siding.
- 07 46 16 Aluminum Siding: Specifics for aluminum siding applications.
- **05 50 00** Metal Fabrications: Involves metal workings that are necessary for structural supports and detailed metalwork integral to aluminum cladding installations.

1.2 **REFERENCES**

- Miami-Dade County NOA Approval (NOA No. 24-0408.05)
 - Meets Florida Building Code and High-Velocity Hurricane Zone standards. Large and small missile impact resistant, ensuring durability in extreme weather.
- Fire Safety Compliance
 - ASTM E84-24 tested for surface burning characteristics.
- Class A Fire Rating:
 - □ Flame Spread Index (FSI): 0 (Highest fire resistance rating).
 - ☐ Smoke Developed Index (SDI): 35 (Universal 4+4) & 30 (Click 180).
- ISO Standards:
 - □ ISO 9001:2015 Quality Management System.
 - □ ISO 14001:2015 Environmental Management System.
 - □ ISO 45001:2018 Occupational Health & Safety Management System.
 - □ ISO 50001:2018 Energy Management System.





PART 1: GENERAL II.

1.2 **REFERENCES**

- European Standards / EU Standards:
 - EN 515, EN 573-3, EN 755-2, EN 755-9, EN 12020-2, EN 15088:2005.
- Testing and Performance Certifications:
 - Resistance to humid atmospheres containing Sulphur dioxide (ISO 22479).
 - □ Acetic acid salt spray resistance (ISO 9227).
 - Accelerated weathering test (Solar box, ISO 16474-2).
 - □ Natural weathering test (Florida exposure, ISO 2810).
 - Filiform corrosion test (ISO 4623-2).
 - Q-SUN XE-3 HS Accelerated Weathering Test by SUBLITEX.
 - AAMA 2605 highest standard for powder-coated aluminum, ensuring durability and color retention in extreme environments.

1.3 **SUBMITTALS**

- Product data: Submit manufacturer's product literature, specifications, and data sheets.
- Samples: Submit duplicate samples of cladding material, of color and profile specified.
- Shop Drawings: Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, soffits, fascia, and related work.
- Certifications: Submit proof of compliance with specified tests and standards.

1.4 WARRANTY

□ Provide a 20-year limited warranty from the date of Substantial Completion covering manufacturing defects such as warping, corrosion, cracking, chalk resistance, and color retention. Warranty applies only to the original owner and is not transferable.





PART 2: PRODUCTS

2.1 ALUMINUM CLADDING AND COMPONENTS

- European Standards / EU Standards:
 - □ Profile: Universal 140 5.51"W x 0.70"H x 19'L | 0.047" thickness
 - □ Material: 6063 Alloy, T5, powder-coated, 18 gauge.
 - Finish: Powder-coated in standard and custom colors.
 - Colors: Espresso, Oak, Pine, Gray, Charcoal Black, Gloss Black; custom colors available for large orders.

2.2 ACCESSORIES

- Aluminum Furring Strips spaced every 24"-36"
 - ✓ Ventilation: The air gap created by the furring strips acts as a rainscreen, allowing moisture behind the cladding to dry and dissipating heat to reduce temperature buildup on the panels.

 - ⊗ Thermal Isolation: The furring strips minimize direct heat transfer from the wall to the cladding, further limiting expansion.
 - ▼ Flexibility: The furring strips allow the cladding system to move slightly as a single unit, accommodating minor thermal expansion without causing stress points or buckling. By spacing the furring strips every 24inches, the panels are effectively divided into smaller sections. Each section undergoes less expansion compared to a single long, continuous panel, which helps prevent buckling.
 - Ø Recommended Tools: Use a 96 teeth aluminum blade for cuts.

PART 3: EXECUTION

3.1 INSTALLATION

Install according to manufacturer's instructions and approved shop drawings. Maintain joints true to line, tight-fitting, and with a seamless appearance.

3.2 **CLEANING AND MAINTENANCE**

Conduct freshwater cleaning and general maintenance quarterly. Use a soft cloth or brush with mild soap and warm water for routine cleaning. Avoid harsh chemical cleaners and maintain a log of all maintenance activities.





ICC-ES TEST REPORT



1.6 Witnessing

No representative of GTO Aluminum USA witnessed the testing reported herein.

1.7 Conditions of Testing

Unless otherwise indicated, all testing reported herein was conducted in a laboratory set to maintain temperature in the range of 65-80°F and humidity in the range of 45-60% RH. All test specimen materials were stored in the laboratory conditioning room of 73.4 ± 5°F and at a relative humidity of 50 ± 5% environment for no less than 24 hours prior to testing. The test specimens were conditioned for **16** days and obtained steady state.

2.0 ReferencedStandards

ASTM E84-24 Standard Test Method for Surface Burning Characteristics of Building Materials.

3.0 Summary of Results

Flame Spread Index - 0

Smoke Developed Index - 35

3.1 General

This fire-test-response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

3.2 Test Specimens

The samples submitted by the manufacturer was identified as Universal 4+4 Cladding and was supplied in the form of (15) 0.047-in x 4.72-in x 288-in. They were received without damage.

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3.3 Test Setup and Procedure

The product(s) were setup and evaluated in accordance with ASTM E84-24.

Substrate Used:	N/A
Mounting Method:	Standard
Support Used:	Rods
Side Exposed:	Flat Side
Adhesive Used &	N/A
Coverage Rate	
(if Applicable):	
Cement Board Used	Yes
to Cover Sample	
(Y/N):	
Sample Continuous	Sectioned
or Sectioned:	Scottonica
No. & Size	(15) 0.047-in x 4.72-in x 288-in
of	(20,000 17 111 X 1172 111 X 200 111
Sections:	
Lab Ambient Temp (°F):	71
Lab Ambient RH (%):	27
DateTested:	1/24/2025





TEST DATA

Time to Ignition (mm/ss):	01:52
Maximum Flame Spread (ft):	0.000
Time to Max Flame Spread (mm/ss):	00:00
Maximum Temperature (°F):	
	499
Time to Max Temperature	09:28
(mm/ss):	
Total Fuel Burned (cubic feet):	45.007
	10.007
	10.007
Flame Spread*Time Area	
Flame Spread*Time Area (ft*min):	0.000
·	
(ft*min):	0.000
(ft*min):	0.000

TEST OBSERVATIONS

01:35	Observed charring and
	discoloration
07:00	Observed charring on surface increasing

POST-TEST OBSERVATIONS

0 – 8 ft	Section was charred and discolored
8 – 16 ft	Section was slightly discolored
16 – 24 ft	Section was untouched

Analysis on Classification Criteria

Based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. Three classes of interior finish are specified by the International Building Code (IBC) that describes a set of classification criteria required for interior wall and ceiling finish materials. The classification criteria for all three model codes is the same: ASTM E84 and UL 723 do not include classification criteria for the results obtained from testing.

Class	Flame Spread Index	Smoke Developed Index
Α	0-25	0-450
В	26-75	0-450
С	76-200	0-450

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TECHNICAL DATA & CERTIFICATIONS



4.0 Closing Statement This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Unless differently required, ICC-ES reports apply the "Simple Acceptance" rule, also called "Shared Risk approach", of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. ICC-ES makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen specified by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC-ES assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC-ES has no control. ICC-ES has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

For ICC-ES, LLC:

Tested by: Brent Mynar 01/27/2025

Project Manager

Reviewed by: Gabriel Parra

01/27/2025

Project Engineer

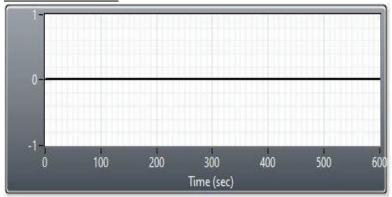


CERTIFICATIONS

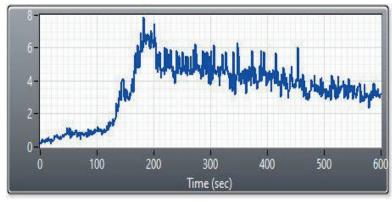


Appendix A - Data

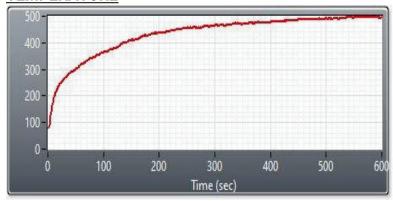
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Document Control ID:

FORM QA 4.3 Test Report 2024-05-10

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#8 Wood Screw into Mixed Maple-Southern Pine w/ 0.1457 in. of Gap Space. GTO Aluminum - Universal Aluminum Siding & CLICK Profile Siding System

Calculations herein are performed in accordance with the National Design Specification for Wood Construction - 2018,

Chapter 12.3 and Technical Report 12 - General Dowel Equations for Calculating Lateral Connection Values, published by the

American Wood Council

Wood Screw Type =	#8	Wood Screv	v
Wood Screw Length =	1.75	in	
Wood Screw Embedment =	1.50	in	
Wood Screw Thread Length =	1.17	in	
D =	0.164	in	, Dowel Diameter
D _m =	0.131	in	, Dowel Diameter at max. stress in main member
D _s =	0.131	in	, Dowel Diameter at max. stress in side member
F _b =	90,000	psi	, Dowel bending strength

Wood Screw Withdrawal Calculations

263.0 lbs

Substrate: Mixed Maple-Southern Pine

Tabulated withdrawal design value: W = 141 lbs

Penetration Factor: $C_p = 1.17$ in

Duration Factor: $C_D = 1.60$ Withdrawal Allowable (W') =

Concrete	Anchor Calculations	Masonry Anchor Calculations		
Fastener type:	3/16" DeWalt UltraCon+	Fastener type: 3/16" DeWalt UltraCon+		
Reference:	Manufacture Published Data	Reference: Manufacture Published Data		
Substrate: 3000 PSI Concrete or Greater		Substrate: Hollow Block CMU (Per ASTM C-90)		
Minimum embedment:	1.00 in	Minimum embedment: 1.25 in		
Minimum Spacing:	3.00 in	Minimum Spacing: 1.50 in		
Minimum edge distance:	2.50 in	Minimum edge distance: 2.00 in		
Allowable Design Value:	W'= 155 lbs / anchor	Allowable Design Value: W'= 150 lbs / anchor		



CERTIFICATIONS



Determine Screwed Connection Tensile Capacity: #8-32 Gr. 5 Self-Drilling Screw

Limit states for screw connection in tension per 2020 Aluminum Design Manual,

J.5.4.2: Pull-Over

Design Tension Strength and Allowable Tension Strength Shall be determined as follows:

 $\Phi = 0.5 \text{ (LRFD)}$

Ω = 3 (ASD builing-type structure)

Fastener Type: #8-32Gr. 5 Self-Drilling

J.5.5.1: Pull-Out

Thickness of member not in contact with head,	Le =	0.125	in.
Nominal diameter of the screw,	D =	0.164	in.
Threads per inch,	N =	32	per inch
Tensile yield of member not in contact with head,	Fty2 =	21000	psi
Tensile ultimate of member not in contact with head,	Ftu2 =	27000	psi
Thread stripping area of internal thread per thread,	TSA (I)	0.01	in.
Coefficient for design per 2015 ADM,	Ks =	1.2	(Not applicable for Le > 0.125)
Thread stripping area of internal thread per unit engaged,	Asn =	0.04	in.

Nominal pull out strength,

		Rn/Ω =	172.2	lbs
Design Values,		ΦRn =	258.3	lbs
Not Applicable	For 0.25. ≤ Le < .375 in.	Rn =	78.3	lbs
Not Applicable	For 0.125 in. < Le < 0.25 in.	Rn =	516.6	lbs
Use This Value	For 0.060in. < Le < 0.125 in.	Rn =	516.6	lbs

J.5.5.2: Pull-Over

 a) The nominal strength R_B for the limit state of pull-over for non-countersunk screws is:

$$R_a = C_{pen}t_1F_{tal}(D_{nn} - D_k)$$
 (J.5-8)

Coefficient for valley vs crown fastening,	Cpov =	1	
Nominal thickness of part in contact with screw head,	t1 =	0.0472	in.
Tensile ultimate of part in contact with screw head/washer,	Ftu1 =	27000	psi
Larger diam. of screw head or washer,	Dws =	0.438	in.
Nominal diameter of hole in material under screw head,	Dh =	0.1405	in.
Nominal Strength,	Rn =	379.134	Ibs
Design Values,	ΦRn =	189.567	lbs
	$Rn/\Omega =$	126.378	lbs



CERTIFICATIONS



E4.4.1 Pull-Out Stength: #8-32 Gr. 5 Self-Drilling Screw - Frame Installation

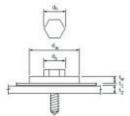
Reference: AISI Cold Formed Steel Specifications, E4.4.1

E4.4.1 Pull-Out Strength [Resistance]

The nominal pull-out strength [resistance], P_{not} , shall be calculated as follows: $P_{not} = 0.85 t_c d F_{u2}$ (Eq. E4.4.1-1)

Same formula is referenced in AAMA TIR A9-14 for thickness of 1/4" or less.





Where,

Nominal screw diameter, d=0.164 in. Thickness of member in contact with screw head, t1=0.051 in. Thickness of member not in contact with screw head, t2=0.0478 in. Tensile strength of mem. not in contact with screw head, Eq. E4.4.1 Pnot = 386.473 lbs Per ASD, Pns/ $\Omega=128.824$ lbs, $\Omega=3$ Per LRFD, Φ Pns = 193.236 lbs, $\Phi=0.5$

E4.4.2 Pull-Over Strength

Reference: AISI Cold Formed Steel Specifications, E4.4.2

Pnov = 1.5*t1*d'w*Fu1 (Eq. E4.4.2-1)

Where,

Thickness of member in contact with screw head, t1 = 0.0472 in. Tensile strngth of mem. in contact with screw head, Fu1 = 27000 psi Effective Pullover Diameter, d'w = 0.438 in.

Eq. E4.4.2-1

Per ASD, $\frac{Pns/\Omega}{Q} = \frac{279.094}{18.64} \frac{lbs}{lbs}, \frac{\Omega}{Q} = \frac{3}{0.5}$ Per LRFD, $\frac{\Phi Pns}{Q} = \frac{418.64}{18.64} \frac{lbs}{lbs}, \frac{\Phi}{Q} = \frac{3}{0.5}$

Check Tensile Capacity of Screw,

#8-32 Gr. 5 Self-Drilling Screw, D = 0.164 in.

 $Pn/\Omega = 560$ lbs, per AAMA TIR A9-14

Design Value T= 128.824 lbs



CERTIFICATIONS



Product Evaluation Report

Manufacture: Andersen Windows & Doors

1-3/4 (44)

1-3/4 (44)

1-3/4 (44)

1-3/4

(25)

1-3/8 (35)

1-3/4 (44)

1-3/4

(25) 1-3/8 (35)

Product: GTO Aluminum - Universal Aluminum Siding System & CLICK Profile Siding System

Manufacture Published Data

Ultimate and Allowable Load Capacities for UltraCon+ in Normal-Weight Concrete 12,3,4



f'c = 4,000 psi (27.6 Mpa)

AB 1-3/4 1,080 270 (5.0) 325 285 (0.4) 325 (1.4) (0.4) (0.3) 1-3/4 (44) 1-1/8 (29) 315 (1.4) 1-3/4 1,365 600 (2.6) 340 (1.5) 150 (0.7) 1,440 360 (1.6) 160 1,570 (6.9) 635 395 160 (0.7) 635 (2.8) 580 (2.6) 145 (0.7) 110 (0.5) 460 (2.0) 460 435 615 155 (0.7) 115 (0.5) 670 170 (0.7) 115 (25) 1-3/8 (35) 815 115 (0.5) 215 (1.0) 120 (0.5) 120 (0.5) 1-3/4 (44) 1,365 150 (0.7) 635 160 1,570 635 395 (1.7) 3/16 1-1/8 1-3/4 1,465 (6.4) (5.3) 365 (1.6) 300 (1.3) 1,265 (5.6) 390 (1.7) 315 (1.4) 1,690 (5.6) 425 (1.9) 315 (6.8) 1-3/4 (44) 1,200 300 (1.3) 1,550 390 1,690 425 315 145 (0.7) 160 155 (0.7) (25) (0.7)1-3/8 (35) 1,220 (5.4) 305 185 (0.8) 1,290 (5.7) 325 (1.4) 195 (0.9) 1,405

f'c = 3,000 psi (20.7 Mpa)

1,265

415 (1.8)

450 (2.0)

(2.3)

(3.0)

(6.0)

(1.5)

465 (2.0)

210 (0.9)

530 (2.3)

590

590 (2.6)

215 (1.0)

105

135 (0.6)

175 (0.8)

340 (1.5)

440 (1.9)

(6.8)

1,360

(8.1)

830

2,120 (9.3)

2,365

865 (3.8)

1,690

1,525

(9.1)

930

2,380

2,115

370

415 (1.8)

450 (2.0)

530 (2.3)

595

665 (2.9)

530 (2.3)

115 (0.5)

135

175

430

340 (1.5)

440

ULTRACON®+

S DEWALT - PEV.F

315 (1.4)

(1.9)

195

(0.9)

(2.2)

550 (2.4)

200 (0.9)

(1.8)

(2.8)

(0.4)

105 (0.5)

(0.6)

(0.7)

400 (1.8)

315 (1.4)

410 (1.8)

1,465

1,975

805 (3.5)

1-1/2 (38)

(76)

(102)

(102)

Tabulated Ultimate load values are for anchors installed in uncracked concrete. Concrete compressive strength must be at the specified minimum at the time of installation.
 Allowable load capacities listed are calculated using an application, such as

Autowable mad capacines issed are calculated using an applied salely factor of 4.0. Consideration of salety factors of 10 or higher may be necessary depending on the application, such as title safety or overhead.

^{3.} Linear interpolation may be used to determine allowable loads for intermediate compressive strengths

^{4.} For lightweight concrete multiply tabulated allowable load values by a reduction factor of 0.60.



CERTIFICATIONS



Product Evaluation Report

Manufacture: Andersen Windows & Doors

Product: GTO Aluminum - Universal Aluminum Siding System & CLICK Profile Siding System

Ultimate and Allowable Load Capacities for UltraCon+ Anchors

Installed in the Face of Hollow Concrete Masonry (2.3)



Nominal Anchor Diameter d in.	Minimum	Minimum	Minimum	Minimum	100000000000000000000000000000000000000	Ultimat	le Load	Allowab	le Load
	Embed. Depth h in. (mm)	Edge Distance in. (mm)	End Distance in. (mm)	Spacing in. (mm)	Minimum ASTM C90 Block Type	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
	1-1/4 (32)"	1	2	1-1/2 (38)	Normal Weight	725 (3.2)	405 (1.8)	145 (0.6)	80 (0.4)
	1-1/4 (32)	(25)	(51)	3 (76)	Normal Weight	750 (3.3)	585 (2.6)	150 (0.7)	115 (0.5)
	1 (25)			1-1/2 (38)	Lightweight	300 (1.3)	460 (2.1)	55 (0.3)	90 (0.4)
	1 (25)	2 (51)	2 (51)	3 (76)	Lightweight	340 (1.5)	460 (2.1)	65 (0.3)	90 (0.4)
3/16	1-1/4 (32)	nisca	30/10	1-1/2 (38)	Normal Weight	740 (3.3)	700 (3.1)	150 (0.7)	140 (0.6)
	1-1/4 (32)	2-1/2	2-1/2	1-1/8 (29)	Normal Weight	775 (3.4)	935 (4.1)	155 (0.7)	185 (0.8)
	1-1/4 (32)	(64)	(64)	2-1/4 (57)	Normal Weight	775 (3.4)	935 (4.1)	155 (0.7)	185 (0.8)
	1 (25)	3 (76)	3 (76)	1-1/2 (38)	Lightweight	385 (1.8)	670 (3.0)	80 (0.4)	135 (0.6)
	1 (25)	3 (76)	3 (76)	3 (76)	Lightweight	440 (2.0)	670 (3.0)	90 (0.4)	135 (0.6)
	1-1/4 (32)	1	2	1-1/2 (38)	Normal Weight	775 (3.4)	475 (2.1)	155 (0.7)	95 (0.4)
	1-1/4 (32)	(25)	(51)	3 (76)	Normal Weight	775 (3.4)	800 (3.5)	155 (0.7)	160 (0.7)
	1 (25)			(50)	Lightweight	435 (1.9)	530 (2.4)	90 (0.4)	105 (0.5)
	1 (25)	2 (51)	2 (51)	4 (102)	Lightweight	495 (2.2)	530 (2.4)	100 (0.4)	105 (0.5)
1/4	1-1/4 (32)	6884		2 (51)	Normal Weight	760 (3.4)	740 (3.3)	150 (0.6)	150 (0.7)
	1-1/4 (32)	2-1/2	2-1/2	1-1/2 (38)	Normal Weight	800 (3.5)	1,200 (5.3)	160 (0.7)	240 (1.1)
	1-1/4 (32)	(64)	(64)	3 (76)	Normal Weight	880 (3.9)	1,450 (6.4)	175 (0.8)	290 (1.3)
	1 (25)	3	3	2 (51)	Lightweight	510 (2.3)	820 (3.6)	100 (0.4)	165 (0.7)
	1 (25)	(76)	(76)	4 (102)	Lightweight	580 (2.6)	820 (3.6)	115 (0.5)	165 (0.7)

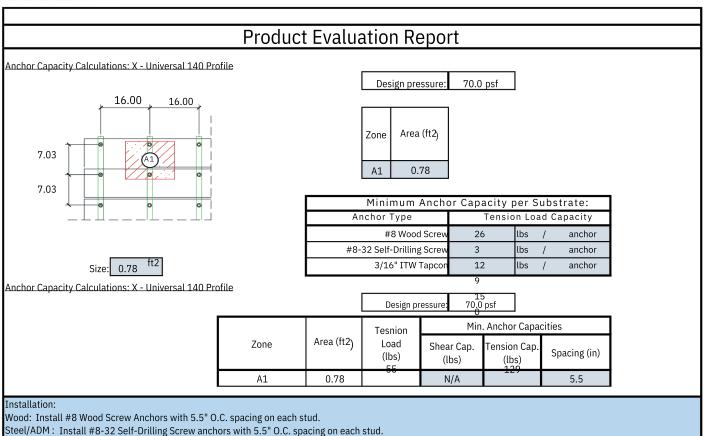
Tabulated load values are for anchors installed in minimum 8-inch-wide, Type II, light weight or normal weight concrete masonry units conforming to ASTM C90 that have reached the minimum designated ultimate compressive strength at the time of installation (f'm ≥ 2,000 psi). Mortar must be Grade N,S or M..
 Allowable load capacities listed are calculated using an applied safety factor of 5.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.

^{3.} Allowable shear loads into the face shell of a masonry wall may be applied in any direction.

^{4.} The tabulated values are applicable for anchors installed into the ends of concrete masonry units (e.g. wall opening) where minimum edge distances are maintained







Concrete : Install 3/16" DeWalt Ultracon anchors at 3.00" Min. from the corners with 5.5" O.C. spacing.