

SUBMITTAL GUIDE





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WELCOME!





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!

CLICK SYSTEM

Snap-on installation with centimeter-wide gaps for an aesthetic look. Ideal for DIY enthusiasts, offering a quick and straightforward setup process.

Simply install the rails to the wall and easily just press & click on the aluminum profiles. Make sure to click it on, and not slide it in.

A SUPERIOR PRODUCT

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.



COLOR GUIDE



Rust

Marble

Midnight Oak

Black Wood

Onyx Timber

03

CLICK 60 PRODUCT OVERVIEW

Description

The Click 60 This profile is ideal for both interior and exterior cladding, measuring 2.36"W x 0.70"H x 19'L with a 0.047" thickness.

Ideal Applications:

It is slightly wider than the Click 40, making it suitable for covering more substantial surfaces. It can cover cracks, peelings, and marks on walls without the need for wall treatment.

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



CLICK TRACK WITH RAIL PROFILE

CLICK SYSTEM - 2X WOOD FRAMING INSTALLATION

CLICK RAIL TRACK PROFILE PART 32321



CLICK SYSTEM - CONCRETE/MASONRY INSTALLATION

MING

05

INSTALLATION

PRODUCT DETAILS & SPECIFICATIONS



PRODUCT DETAILS & SPECIFICATIONS

CLICK SYSTEM - MASONRY/CONCRETE WALL INSTALLATION



CLICK SYSTEM - PLYWOOD SHEATHING OVER 2X4

MIN. WOOD STUD OR STEEL/ALUMINUM STUDS



CERTIFICATIONS

Our products have successfully passed the rigorous TAS201, TAS202, and TAS203 testing as part of the Dade County NOA approval process.

It is essential to highlight that our products are engineered from the finest architectural grade extruded aluminum (6063-T5 alloy), known for its exceptional durability and rigidity. This non-combustible material boasts a Class A fire rating, ensuring maximum safety. The specifics of the aluminum alloy used are: <u>6063 Alloy in a T5 temper, with a robust thickness of 0.047 inches (Gauge 18) and finished with an electrostatic powder coating for a durable, sublimated surface.</u>

EUROPEAN STANDARDS





- Quality Mark of Electrostatic Coating of Aluminum Surface according to the QUALICOAT Specification
- Quality Label for Powder Coated Aluminum Surfaces according to QUALICOAT Specification
- Decoration Quality Mark (Sub-color) Electrostatically Painted Aluminum Surface according to QUALIDECO specification
- Quality Label for Decoration (Sublimation) of Powder Coated Aluminum Surfaces according to QUALIDECO Specification QUALIMARINE
- Quality Mark for Electrostatic Painting of Aluminum Surface according to the French QUALIMARINE specifications
- Quality Label for Powder Coated Aluminum Surfaces according to the French QUALIMARINE Specifications QUALANOD
- Aluminum Surface Anodizing Quality Mark according to the QUALANOD Specification
- Quality Label for Anodized Aluminum Surfaces according to QUALANOD Specification

Certification and Powder Coating Mastery: Setting the Standard



Our products are Qualicoat, Class 1 certified and have undergone rigorous testing for UV exposure and salt spray resistance. Most of our powder coat colors have been tested for 2000-3000 hours in a solar box and 1-3 vears in Florida exposure tests.

Typically, this equates to 10-20 years of color resistance (with a 5% fade) and about 5 years of corrosion resistance within 5 kilometers of a beach. These are estimations based on test results, but it's important to note that our warranty does not extend to beachfront properties. For enhanced resistance in beachfront properties, we offer Qualimarin and Seaside Certified products, classified as Class 2. These are specifically designed for durability in marine or coastal environments.

They undergo a more intensive preparation process, including deeper acid or acid and alkaline dual etching, reaching 2 g/m2 (as opposed to the standard 1 g/m2), followed by a conversion layer that thoroughly seals the aluminum surface for superior corrosion protection. Class 2 certifications typically offer double the longevity compared to Class 1 products. However, they are also priced higher and require a 90-day lead time, in contrast to the standard 45 days for our regular offerings.

POWDER COATING WITH SUBLIMATION: Sublimation & Unique Custom Color Process

The sublimation or transfer technology consists of transferring an image previously printed on a specific film, to the aluminum profiles.

•Powder paints used as sublimation bases can be formulated with polyester or polyurethane resins. •They must have both the ability to resist the sublimation temperature (190-200 °C) and to adequately absorb the inks transferred by the film.

THE PROCESS:

1)Base Application: The first step in the process is the base application the profiles to give them a colored base. The purpose in this is to create the right base tone to imitate the desired type of wood or the color of the thermo-print finish that is required.

Electrostatic paint is applied to the surface of the aluminum. The paints used are polyester or polyurethane resins. These finishes are highly resistant to UV rays, atmospheric agents, and corrosion.

2)Bagged: The ends of the profiles are protected with tape and placed in plastic film bags. These bags already have the wood pattern, or the established design printed on them using dyes.

3)Empty: Air is extracted from the bags through nozzles at the end of the bags, creating a vacuum. The profiles are revised so that the casing adjust to the geometry of the profile, eliminating the occluded air.

4)Sublimation: The profiles are introduced into an oven that is at a temperature between 190 and 220 C. Thesis where the sublimation effect on the aluminum occurs, passing the ink in the bag from a solid state to a gaseous state. After a few minutes, the coloring is transferred to the profile.

5)Withdrawal of the film: Air is introduced to the profiles in the bags do that the film can be removed, cooling them at the same time.

Sustainability Information



- GTO Aluminum products undergo rigorous testing in a solar box for 2,000 to 4,000 hours, simulating approximately 20 years of real-world weather exposure.
- These tests include QUV accelerated weathering, a proven method for evaluating a coating's resistance to ultraviolet (UV) radiation and environmental conditions.

Testing Methodology

QUV Testing (QUV = "Quick UV"):

- Exposes samples to controlled UV radiation and moisture cycles (condensation or water spray).
- Simulates natural outdoor environments to accelerate degradation and assess long-term performance.
- Adjustable light intensity and wet/dry cycles replicate a wide range of climatic conditions.

Evaluation Criteria

- Following testing, samples are carefully evaluated for:
- Color shift and gloss retention
- Surface integrity, including chalking or cracking
- Coating adhesion and protective performance

Performance Expectations

- Color durability: Up to 10-20 years with no more than 5% fade under typical exposure conditions.
- Corrosion resistance: Up to 5 years within 5 km of coastal areas.
- These estimations are based on laboratory conditions and may vary depending on environmental factors.

Coastal Applications & Warranty Considerations

- Standard powder-coated finishes are not warranted for direct beachfront use.
- For projects in marine or coastal environments, GTO offers:
- Qualimarin® Certified Finishes
- Seaside Class 2 Certified Systems
- These options are engineered specifically for enhanced resistance in high-salinity, high-humidity conditions.

Enhancement Options Sealing Edges and Joints

Ensure that the edges, joints, and other potential entry points for moisture are properly sealed and protected. – Use of Primers: Applying a corrosion-inhibiting primer before the topcoat can significantly reduce the risk of filiform corrosion. Primers often contain chromates or other inhibitors that provide additional protection.





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:

- E 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 4+4 4.72"W x 0.70"H x 19'L | 0.047" thickness
 - Material: 6063 Alloy, T5, powder-coated, 18 gauge.
 - E 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.
 - ⊘ Drainage: Any excess water entering the system can drain downward through the gap, preventing water accumulation.
 - 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.
 - ⊗ 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 \pm 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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TECHNICAL DATA & CERTIFICATIONS



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:	
No. & Size	(15) 0.047-in x 4.72-in x 288-in
of	
Sections:	
Lab Ambient Temp (°F):	71
Lab Ambient RH (%):	27
DateTested:	1/24/2025

TECHNICAL DATA & CERTIFICATIONS



TEST DATA	
Time to Ignition (mm/ss):	01:52
Maximum Flame Spread (ft):	0.000
Time to Max Flame Spread (mm/ss):	00:00
Movimum Tomporatura (°E):	_
Time to Max Temperature (F).	499
(mm/ss):	09:28
Total Fuel Burned (cubic feet):	45.007
Flame Spread*Time Area (ft*min):	0.000
Smoke Area (%A*min):	22.693
Unrounded FSI:	0.000
Unrounded SDI:	33.573

TEST OBSERVATIONS

01:35	Observed charring and	
	discoloration	8
07:00	Observed charring on	1
	surface increasing	

POST-TEST OBSERVATIO	NS
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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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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:

Brent Mynar

Tested by: Brent Mynar Ø Project Manager 01/27/2025

abriel Parra

Reviewed by: Gabriel Parra Project Engineer 01/27/2025

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TECHNICAL DATA & CERTIFICATIONS



Appendix A - Data

FLAME SPREAD



SMOKE (%A)



TEMPERATURE



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#8 Wood Screw i	nto Mi	xed Map ersal Alu	le-Southern Pine w/ 0.1457 in. of Gap Space. minum Siding & CLICK Profile Siding System
Calculations herein are performed Chapter 12.3 and Technical Report 12	in accor - Gener	dance wit al Dowel I Amei	the National Design Specification for Wood Construction - 2018, Equations for Calculating Lateral Connection Values, published by the rican Wood Council
Wood Screw Type =	#8	Wood Scre	2W
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
	w	ood Screv	v Withdrawal Calculations
Substrate:	Mixed Ma	ple-Souther	n Pine
Tabulated withdrawal design value:	w =	141	lbs
Penetration Factor:	Cp	1.17	in
Duration Factor:	C _D =	1.60	
		Withdra	wal Allowable (W') = 263.0 lbs

	Tension De	esign Value
Concrete	Anchor Calculations	Masonry Anchor Calculations
Fastener type:	3/16" DeWalt UltraCon+	Fastener type: 3/16" DeWalt UltraCon+
Reference: M	Manufacture Published Data	Reference: Manufacture Published Data
Substrate: 3	000 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
Minimum anchor capa	city: 150 lbs / anchor	

TECHNICAL DATA & CERTIFICATIONS



AMERICAN WOOD COUNCIL Determine Screwed Connection Tensile Capacity: #8-32 Gr. 5 Self-Drilling Screw Limit states for screw connection in tension per 2020 Aluminum Design Manual, 1.5.4.2: Pull-Over Design Tension Strength and Allowable Tension Strength Shall be determined as follows: Φ= 0.5 (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, 0.125 in. Le = 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) 0.04 Thread stripping area of internal thread per unit engaged, in. Asn = Nominal pull out strength, For 0.060in. < Le < 0.125 in. Use This Value lbs Rn = 516.6 Not Applicable For 0.125 in. < Le < 0.25 in. Rn = 516.6 lbs Not Applicable For 0.25. < Le < .375 in. Rn = 78.3 lbs ØRn = Design Values, 258.3 Ibs $Rn/\Omega =$ 172.2 Ibs 1.5.5.2: Pull-Over a) The nominal strength R_e for the limit state of pull-over for non-countersunk screws is: $R_{\rm s} = C_{\rm pes} t_1 F_{\rm tail} (D_{\rm ses} - D_{\rm s})$ (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	Ibs
	$Rn/\Omega =$	126.378	Ibs



E4.4.1 Pull-Out Stength: #8-32 Gr. 5 Self-Drilling Screw	- Frame Ins	tallation	1	
Reference: AISI Cold Formed Steel Specifications, E	4.4.1			
E4.4.1 Pull-Out Strength [Resistance]			Figure 1:	Typical Connection Detail
The nominal pull-out strength [resistance], P_{not} , shall be calculated as follow P_{not} = 0.85 t _c d F_{u2}	vs: (Eq. E4.4.1-1)			
Same formula is referenced in AAMA TIR A9-14 fo	r thickness			
of 1/4" or less.			Ē	
Where.				U
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,	Fu2 =	58000	psi	
Eq. E4.4.1	Pnot =	386.473	lbs	
Per ASD,	$Pns/\Omega =$	128.824	lbs, Ω=	3
Per LRFD,	ΦPns =	193.236	lbs, Φ=	0.5
E4.4.2 Pull-Over Strength Reference: AISI Cold Formed Steel Specifications, F	442			
Reference. Alsi cola formed steel specifications, e	4.4.2			
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,	$Pns/\Omega =$	279.094	lbs, Ω=	<u>3</u>
Per LRFD,	<u>ΦPns</u> =	418.64	<u>lbs</u> , Φ =	0.5
Check Tensile Capacity of Screw,				
#8-32 Gr. 5 Self-Drilling Screw,	D =	0.164	in.	
	$Pn/\Omega =$	560	lbs, per A	AMA TIR A9-14
Design Value	T=	128.824	lbs	

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TECHNICAL DATA & CERTIFICATIONS



Product Evaluation Report

Manufacture: Andersen Windows & Doors

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

			1	-			1	Minimum (Concrete (Compressi	re Streng	th																				
Nominal Anchor	Anchor Jameter d L L L L L L L L L L L L L L L L L L	Minimum Edge	Miniroum	(nimum (17.3 Mpa)						f'c = 3,000 psi (20.7 Mpa)				f'c = 4,000 psi (27.6 Mpa)																		
Diameter		Distance In.	in. (mm)	Uitin	nate	Alley	wable	Ultin	Cheve	Allos	wable	Ultin	nate	ABoy	rable																	
	(mm)	(many		lbs. (kN)	ibs. (icN)	Ibs. (kN)	Ibs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	Ibs. (kN)	Ibs. (kN)	ibs. (kN)	lbs. (kN)	ibs. (kN)																	
	1-3/4 (44)		1 (25)	1,080 (4.8)	305 (1.3)	270	75 (0.3)	1,145 (5.0)	325 (1.4)	285 (1.3)	80 (0.4)	1,245	325 (1.4)	310 (1.4)	80 (0.4)																	
	1-3/4 (44)	1	1-1/8 (29)	1,190 (5.2)	305 (1.3)	295 (1.3)	75 (0.3)	1,255	325 (1.4)	315 (1.4)	80 (0.4)	1,370 (6.0)	325 (1.4)	340 (1.5)	80 (0.4)																	
	1-3/4 (44)		2-1/4	1,365	600 (2.6)	340 (1.5)	150	1,440	635	360 (1.6)	160	1,570	635 (2.8)	395 (1.7)	160																	
	1 (25)	(25)	a	580 (2.6)	435	145	110	615	460	155	115 (0.5)	670 (2.9)	460	170	115																	
	1-3/8	1	(76)	815	455	205	115	860	485	215	120	940	485	235	120																	
3/16	1-3/4		3-3/8 (86)	1,365	600 (2.6)	340	150	1,440	635	360	160	1,570	635 (2.8)	395 (1.7)	160																	
	1-3/4 (44) 1-3/4 (44) 1 (25)	2-1/2 (64)	1-1/8	1,465	1,200	365	300	1,550	1,265	390	315	1,690	1,265	425	315																	
			2-1/4	1,465	1,200	365	300	1,550	1,265	390	315	1,690	1,265	425	315																	
				580	640	145	160	615	680	155	170	670	680	170	170																	
	1-3/8		(76)	1,220	735	305	185	1,290	775	325	195	1,405	775	350	195																	
	1-3/4		3-3/8	1,465	1,200	365	300	1,550	1,265	390	315	1,690	1,265	425	315																	
	1-3/4		1 (25)	1,265	340	315	85	1,360	370	340	96	1,525	370	380	95																	
	1-3/4	ĺ	1-1/2	1,265	385	315	95	1,325	415	340	105	1,525	415	380	105																	
	1-3/4	Ι.	3 (76)	1,720	420	430	105	1,850	450	465	115	2,075	450	520	115																	
	1 (25)	1 (25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	1 (25)	(25)	1 (25)	1 (25)	1 (25)	(25)	100	770	495	195	125	830	530	210	135	930	530	235	135
	1-3/8		4	1,105	640	275	160	1,190	690	300	175	1,335	690	335	175																	
1/4	1-3/4	1	(Ister	1,975	645	495	160	2,120	690	530	175	2,380	690	595	175																	
	1-3/4		1-1/2	2,200	1,590	550	400	2,365	1,710	590 (2.6)	430	2,650	1,710	665	430																	
	1-3/4		3 (76)	2,200	1,635	550 (2.4)	410	2,365	1,755	590 (2.6)	440	2,650	1,755	665 (2.9)	440																	
	1 (25)	2-1/2	0.97	805	1,260	200	315	865	1,355	215	340	970	1,355	245	340																	
	1-3/8		4	1,755	1,635	440	410	1.885	1,755	470	440	2,115	1.755	530	440																	
	1-3/4	1	(i dizy	2,290	1,635	570	410	2,460	1,755	615	440	2,650	1755	665 (2.9)	440																	
1. Tabulate	d Ultimate loar	t values are for	anchors instal	ed in uncrac	ckad concre	ete. Concret	e compress	ive strength	must be at	the specifie	d minimum	n at the time	of installab	on.	Trial																	

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TECHNICAL DATA & CERTIFICATIONS



Product Evaluation Report

Manufacture: Andersen Windows & Doors

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

Nominal Anchor Diameter d in.	Minimum Embed. Depth h in. (mm)	Minimum Edge Distance in. (mm)	Minimum End Distance in. (mm)	Minimum Spacing in. (mm)	Minimum ASTM C90 Block Type	Ultimate Load		Allowable Load	
						lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs (kN
	1-1/4 (32)"	1 (25)	2 (51)	1-1/2 (38)	Normal Weight	725 (3.2)	405 (1.8)	145 (0.6)	80 (0.4
	1-1/4 (32)			3 (76)	Normal Weight	750 (3.3)	585 (2.6)	150 (0.7)	11 (0.
3/16	1 (25)		2 (51)	1-1/2 (38)	Lightweight	300 (1.3)	460 (2.1)	55 (0.3)	90
	1 (25)	2 (51)		3 (76)	Lightweight	340 (1.5)	460 (2.1)	65 (0.3)	90 (0
	1-1/4 (32)	MIGN	N0.02	1-1/2 (38)	Normal Weight	740	700 (3.1)	150 (0,7)	14
	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)	18
	1-1/4 (32)	(64)	(64)	2-1/4 (57)	Normal Weight	775 (3.4)	935 (4.1)	155 (0.7)	18 (0.)
	1 (25)	3 (76)	3 (76)	1-1/2 (38)	Lightweight	385 (1.8)	670 (3.0)	80 (0.4)	13 (0.
	1 (25)	3 (76)	3 (76)	3 (76)	Lightweight	440	670 (3.0)	90 (0.4)	13
1/4	1-1/4 (32)	1 (25)	2 (51)	1-1/2 (38)	Normal Weight	775 (3.4)	475 (2.1)	155 (0.7)	95 (0.
	1-1/4 (32)			3 (76)	Normal Weight	775 (3.4)	800 (3.5)	155 (0.7)	16 (0.
	1 (25)	2 (51)	2 (51)	2 (50)	Lightweight	435 (1.9)	530 (2.4)	90 (0.4)	10 (0.
	1 (25)			4 (102)	Lightweight	495 (2.2)	530 (2.4)	100 (0.4)	10
	1-1/4 (32)	6004		2 (51)	Normal Weight	760 (3.4)	740 (3.3)	150 (0.6)	15 (0,
	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)	24 (1.
	1-1/4 (32)	(64)	(64)	3 (76)	Normal Weight	880 (3.9)	1,450 (6.4)	175 (0.8)	29 (1.
	1 (25)	3	3	2 (51)	Lightweight	510 (2.3)	820 (3.6)	100 (0.4)	16 (0.
	1 (25)	(76)	(76)	4 (102)	Lightweight	580 (2.6)	820 (3.6)	115 (0.5)	16 (0.

TECHNICAL DATA & CERTIFICATIONS





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