ELITE ALUMINUM CORPORATION ASCE 7-16 COMPONENTS & CLADDING WIND LOAD ROOF PRESSURE SUNROOM & OPEN CANOPY CHARTS

SOLID WALL

WIND	ASCE EXPOSURE CATEGORY	MONOSLOPE (PSF)			
SPEED (MPH)		θ < 3°		3°<θ <10°	
		(+)	(-)	(+)	(-)
120	В	10	-22	10	-17
	C	10	-27	10	-21
	D	10	-33	10	-25
130	В	10	-26	10	[®] -20
	С	10	-32	10	-24
	D	10	-39	10	-30
	В	10	-30	10	-23
140	С	10	-37	10	-28
	D	10	-45	10	-35
150	В	10	-35	10	-27
	C	10	-43	10	-33
	D	10	-52	10	-40
160	В	10	-40	10	-31
	С	10	-49	10	-38
	D	10	-60	10	-46
170	В	10	-45	10	-35
	С	10	-55	10	-43
	D	10	-67	10	-52

OPEN WALL

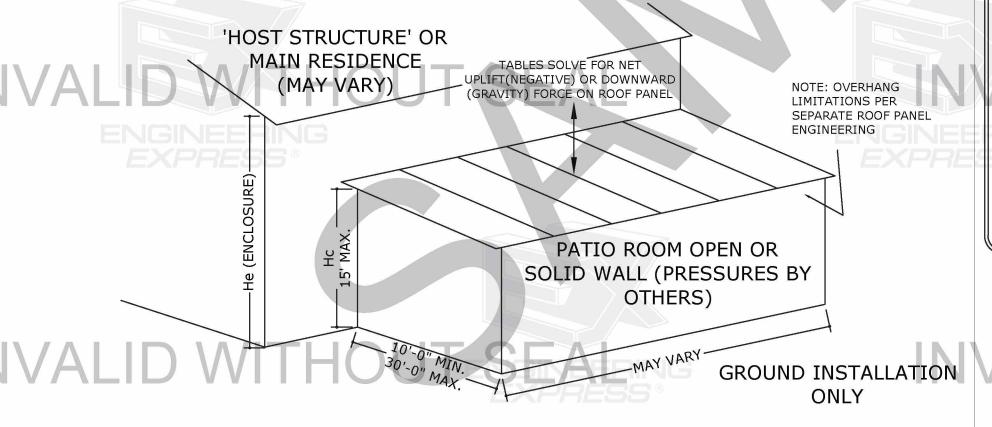
	PSF) ac/he<1 (-) -17 -21 -25
B	-17 -21 -25
120 C 13 -13 13 D 16 -16 16 B 13 -13 13 130 C 15 -15 15 D 18 -18 18 B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	-21 -25
D 16 -16 16 B 13 -13 13 C 15 -15 15 D 18 -18 18 B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	-25
B 13 -13 13 C 15 -15 15 D 18 -18 18 B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	
130 C 15 -15 15 D 18 -18 18 B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	20
D 18 -18 18 B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	-20
B 15 -14 15 C 18 -17 18 D 21 -21 21 B 17 -17 17	-24
140 C 18 -17 18 D 21 -21 21 B 17 -17 17	-29
D 21 -21 21 B 17 -17 17	-23
B 17 -17 17	-28
	-34
150 C 20 -20 20	-26
	-32
D 24 -24 24	-39
B 19 -19 19	-30
160 C 23 -23 23	-36
D 28 -27 28	-44
B 21 -21 21	-34
170 C 26 -26 26	-41
D 31 -31 31	

IMPORTANT DESIGN NOTE:

THIS PLAN PROVIDES WIND INFORMATION ONLY. SNOW, LIVE, SEISMIC & OTHER LOADING CONDITIONS SHALL ALSO BE CONSIDERED IN DETERMINING THE FINAL DESIGN PRESSURE FOR USE IN DETERMINING ROOF SPAN & SUBSTRUCTURE DESIGN.

 $\theta = ROOF SLOPE$ He=HEIGHT OF ENCLOSURE Hc=HEIGHT OF MAIN BUILDING

USE PRESSURE RESULTS FROM THESE TABLES FOR APPLICABLE WIND AREAS TO SELECT ROOF PANELS FROM ROOF PANEL CLEAR SPAN TABLES, POSTS, WALLS, & FOUNDATIONS BELOW (SEPARATE DOCUMENTS BY THIS ENGINEER FOR ELITE ALUMINUM CORPORATION ONLY)



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- 1) POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS USING ASD METHOD OF ASCE 7-16
- RISK CATEGORY II STRUCTURE
- ENCLOSED, Gcpi=+/-0.18 RISK CATEGORY I STRUCTURE
- OPEN OR IRC TABLE AH106 4(1)
- MEAN ROOF HEIGHT OF ENCLOSURE = 15' MAXIMUM FOR USE WITH THIS TABLE (GROUND).
- ROOF TYPE: MONOSLOPE WITH 2:12 ROOF PITCH.
- TRIBUTARY AREA = 10 SOFT USED IN CALCULATIONS
- ZONE 1 CONSIDERED FOR ASCE ROOF LOADING AS CRITICAL PANEL SPAN LIES IN ZONE 1. FOR ADDITIONAL ZONES MAY APPLY: CONTACT A DESIGN PROFESSIONAL FOR SITE-SPECIFIC REQUIREMENTS AT ROOF ZONES NOT LISTED HEREIN.
- DIRECTIONALITY FACTOR Kd=0.85
 - TOPOGRAPHIC FACTOR Kzt=1.0 (NO STEEP HILLS NEARBY)
- PROJECTION OF ENCLOSURE FROM RESIDENCE NOT TO EXCEED 30', 10' MIN. USED IN
- OR AN ENCLOSURE AVERAGE HEIGHT (MEAN ROOF HEIGHT) OF 15'. HOUSE HEIGHT MAY VARY.
- MONOSLOPE UPLIET GCp CHARTS USED FROM ASCE 7
- ROOF PANEL DEAD LOADS HAVE NOT BEEN ACCOUNTED FOR IN THIS DOCUMENT; SEE SEPARATE SPAN CHARTS FOR ROOF PANEL DEAD LOAD REDUCTIONS AND INCREASES ON A CASE-BY-CASE
- RESULTING PRESSURE SHALL BE COMPARED TO A PRODUCT APPROVED PATIO ROOM ROOF PANEL SPAN CHART WHICH SHALL HAVE HIGHER APPROVED/ALLOWABLE PRESSURES THAN LISTED HEREIN FOR A GIVEN CONFIGURATION WITH CRITERIA SET AND VERIFIED BY OTHERS

- THIS SPECIFICATION HAS BEEN CREATED IN ACCORDANCE WITH THE REQUIREMENTS OF ASCE
- THIS INFORMATION IS PROVIDED AS SUPPLEMENTAL INFORMATION TO BE PROVIDED WITH ELITE ROOF PANEL SPANS FOR PATIO ENCLOSURE TYPE ROOM SYSTEMS ONLY FOR THE UPLIFT VALUES SPECIFIED FOR GIVEN REGIONS. THIS DOCUMENT IS TO BE USED ONLY WITH SEALED
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- THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS DETAIL
- FOR HIGH VELOCITY HURRICANE ZONES, THE MINIMUM ROOF LIVE LOAD REQUIRED SHALL BE 30 PSF. CONTRACTOR SHALL VERIFY GOVERNING ROOF LOAD IN HVHZ BEFORE USE

VISIT ECALC.IO/30325

FOR ENGINEER CERTIFIED ORIGINALS, BETTER TABLE ANSWERS, & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THE QR CODE TO THE RIGHT

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CORPORATE OFFICE:
160 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442
(954) 354-060 | (866) 396-9999
TEAM@ENGINGEKPRESS.COM
ENGINEERINGEXPRESS.COM

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