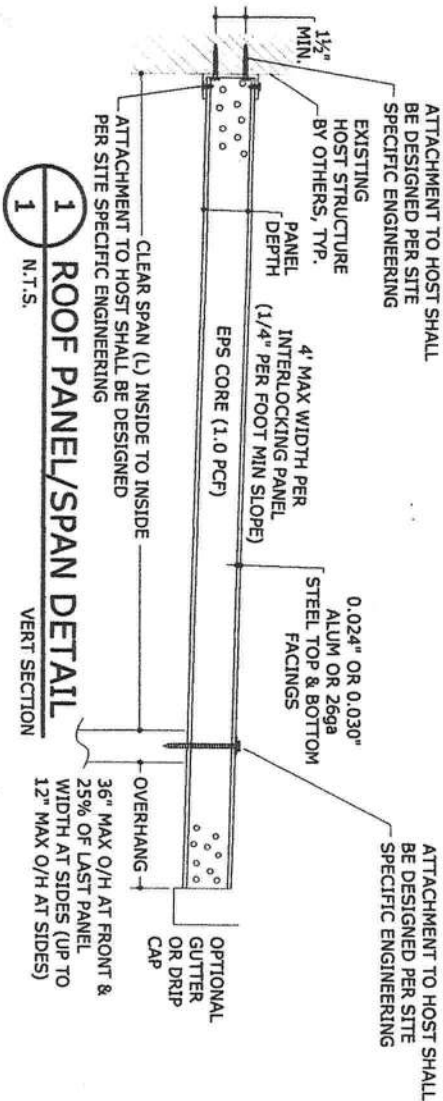


PRO-FAB ROOF PANELS



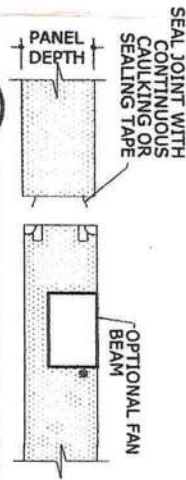
1 ROOF PANEL/SPAN DETAIL

VERT SECTION

36" MAX O/H AT FRONT & 25% OF LAST PANEL WIDTH AT SIDES (UP TO 12" MAX O/H AT SIDES)

2 PANEL INTERLOCK

VERT SECTION



MAXIMUM ALLOWABLE CLEAR SPAN TABLE ROOFS OVER SCREEN WALLS AND PATIO COVERS:

Wind Speed	Expo- sure	Live Load	Deflection Limit (L/...)	3' Panels	4' Panels	6' Panels
110 MPH	B	9 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
110 MPH	C	10 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
110 MPH	D	11 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
120 MPH	B	11 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
120 MPH	C	12 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
120 MPH	D	13 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
130 MPH	B	12 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
130 MPH	C	13 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
130 MPH	D	14 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
140 MPH	B	13 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
140 MPH	C	14 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
140 MPH	D	15 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
150 MPH	B	14 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
150 MPH	C	15 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
150 MPH	D	16 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
160 MPH	B	15 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
160 MPH	C	16 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
160 MPH	D	17 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
170 MPH	B	16 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
170 MPH	C	17 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
170 MPH	D	18 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
175 MPH	B	17 PSF	0.024"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
175 MPH	C	18 PSF	0.030"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
175 MPH	D	19 PSF	0.036"	Alum Skin 1-LB EPS 18-6"	Alum Skin 1-LB EPS 20-5"	Alum Skin 1-LB EPS 23-0"
175 MPH	T	31 PSF	10-6"	11-2"	11-7"	13-2"
175 MPH	T	31 PSF	10-6"	11-2"	11-7"	13-2"
175 MPH	T	31 PSF	10-6"	11-2"	11-7"	13-2"

TABLE NOTES:

1. CALCULATIONS BASED ON FBC SECTION 2002.4, SOLID SURFACE VERTICAL LOADS, RISK CATEGORY I, 10 PSF MIN LOAD. EXP 'B' PRESSURES VALID UP TO 30' MRH. EXP 'C' PRESSURES DERIVED USING FACTOR OF 0.86 & EXP 'D' PRESSURES DERIVED USING FACTOR OF 0.89 PER FBC TABLE 2002.4A. WIND PRESSURE VALUES FOR 156MPH EXP 'C' & 'D' & 165MPH EXP 'C' & 'D' OBTAINED USING INTERPOLATION PER ASCE 7-10 METHODOLOGY.
2. DEFLECTION LIMIT = L/120. MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
3. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES.
4. MAXIMUM ALLOWABLE ROOF OVERHANGS FOR THE VALUES LISTED ABOVE SHALL NOT EXCEED 3'-0". MAXIMUM ALLOWABLE SIDE OVERHANG IS 25% OF LAST PANEL WIDTH. (1.e. 12" MAX FOR 48" PANEL WIDTH).
5. (1) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
5.1. L/80 FOR SPANS < 12'-0"
5.2. L/180 FOR SPANS > 12'-0"



DESIGN NOTES

ALLOWABLE DESIGN PRESSURES UTILIZED IN THIS DOCUMENT HAVE BEEN CALCULATED PER THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) & ASCE 7-10 USING ALLOWABLE STRESS DESIGN METHODOLOGY WITH THE CRITERIA AS OUTLINED HEREIN.

GENERAL NOTES

1. THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) FOR USE WITHIN & OUTSIDE OF THE HVHZ. COMPOSITE ROOF PANELS SHALL COMPLY WITH CHAPTER 7 SECTION 720, CHAPTER 8 SECTION 803, CLASS A INTERIOR FINISH, AND CHAPTER 28 SECTION 2803 OF THE FBC. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND ALL DESIGN CRITERIA, CODES AND STANDARDS WHICH MAY APPLY. REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
2. THIS SYSTEM IS NOT APPROVED FOR LARGE OR SMALL IMPACT RESISTANCE. WHEN USED WITHIN THE HVHZ, THIS SYSTEM SHALL BE LIMITED TO NON-HABITABLE LIVING AREAS.
3. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
4. 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.
5. SEPARATE SITE-SPECIFIC SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. LINEAR INTERPOLATION OF THE ALLOWABLE SPAN TABLES LISTED HEREIN SHALL NOT BE PERMITTED. CONTACT THIS DESIGNER FOR REQUIRED ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
6. THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
7. EPS CORE COMPOSITE PANELS SHALL BE CONSTRUCTED USING TYPE 3105-H254 ALUMINUM FACINGS, 1.0 PCF EPS. THE EPS FOAM SHALL BE ADHERED TO THE ALUMINUM FACINGS WITH MOK-AD M-652 MOISTURE CURE URETHANE ADHESIVE (BY ROHM & HAAS CO.). FABRICATION SHALL BE IN ACCORDANCE WITH APPROVED FABRICATION METHODS BY METALS BUILDING PRODUCTS AT THEIR GROVELAND FACILITY FOR ALL PANELS, WHICH SHALL BE MANUFACTURED BY METALS BUILDING PRODUCTS AT THEIR GROVELAND FACILITY. SELF-TESTING PANELS SHALL BE CONDUCTED FOR EACH PANEL TYPE. TESTS SHALL BE CONDUCTED AT THE GROVELAND FACILITY. TEST RESULTS SHALL BE PROVIDED TO THE CONTRACTOR. TEST STANDARDS: SEE EVALUATION REPORT FOR MORE INFORMATION.
9. ALL FASTENERS TO BE #8 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
10. CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO NON-CRACKED CONCRETE ONLY. INSTALL ALL CONCRETE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
11. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIPILAR MATERIALS TO PREVENT ELECTROLYSIS. SEAL AFFIXED HERE TO VALIDATES SPECIFICATION DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR AT HIS OWN RISK. CONTRACTOR SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & 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.
13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
14. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
15. PANEL STRUCTURAL PROPERTIES DERIVED FROM CERTIFIED TEST REPORTS (REPORT NOS. 30332-A, 30410-A, 30410-B, 30410-C, 30410-D, 30410-E, 30410-F, 30410-G, 30410-H, 30410-I, 30410-J, 30410-K, 30410-L, 30410-M, 30410-N, 30410-O, 30410-P, 30410-Q, 30410-R, 30410-S, 30410-T, 30410-U, 30410-V, 30410-W, 30410-X, 30410-Y, 30410-Z, 30410-AA, 30410-AB, 30410-AC, 30410-AD, 30410-AE, 30410-AF, 30410-AG, 30410-AH, 30410-AI, 30410-AJ, 30410-AL, 30410-AM, 30410-AN, 30410-AO, 30410-AP, 30410-AQ, 30410-AR, 30410-AS, 30410-AT, 30410-AU, 30410-AV, 30410-AW, 30410-AX, 30410-AY, 30410-AZ, 30410-BA, 30410-BB, 30410-BC, 30410-BD, 30410-BE, 30410-BF, 30410-BG, 30410-BH, 30410-BI, 30410-BJ, 30410-BL, 30410-BM, 30410-BN, 30410-BO, 30410-BP, 30410-BQ, 30410-BR, 30410-BS, 30410-BT, 30410-BU, 30410-BV, 30410-BW, 30410-BX, 30410-BY, 30410-BZ, 30410-CA, 30410-CB, 30410-CC, 30410-CD, 30410-CE, 30410-CF, 30410-CG, 30410-CH, 30410-CI, 30410-CJ, 30410-CL, 30410-CM, 30410-CN, 30410-CO, 30410-CP, 30410-CQ, 30410-CR, 30410-CS, 30410-CT, 30410-CU, 30410-CV, 30410-CW, 30410-CX, 30410-CY, 30410-CZ, 30410-DA, 30410-DB, 30410-DC, 30410-DD, 30410-DE, 30410-DF, 30410-DG, 30410-DH, 30410-DI, 30410-DJ, 30410-DL, 30410-DM, 30410-DN, 30410-DO, 30410-DP, 30410-DQ, 30410-DR, 30410-DS, 30410-DT, 30410-DU, 30410-DV, 30410-DW, 30410-DX, 30410-DY, 30410-DZ, 30410-EA, 30410-EB, 30410-EC, 30410-ED, 30410-EE, 30410-EF, 30410-EG, 30410-EH, 30410-EI, 30410-EJ, 30410-EL, 30410-EM, 30410-EN, 30410-EO, 30410-EP, 30410-EQ, 30410-ER, 30410-ES, 30410-ET, 30410-EU, 30410-EV, 30410-EW, 30410-EX, 30410-EY, 30410-EZ, 30410-FA, 30410-FB, 30410-FC, 30410-FD, 30410-FE, 30410-FG, 30410-FH, 30410-FI, 30410-FJ, 30410-FL, 30410-FM, 30410-FN, 30410-FO, 30410-FP, 30410-FQ, 30410-FR, 30410-FS, 30410-FT, 30410-FU, 30410-FV, 30410-FW, 30410-FX, 30410-FY, 30410-FZ, 30410-GA, 30410-GB, 30410-GC, 30410-GD, 30410-GE, 30410-GF, 30410-GG, 30410-GH, 30410-GI, 30410-GJ, 30410-GL, 30410-GM, 30410-GN, 30410-GO, 30410-GP, 30410-GQ, 30410-GR, 30410-GS, 30410-GT, 30410-GU, 30410-GV, 30410-GW, 30410-GX, 30410-GY, 30410-GZ, 30410-HA, 30410-HB, 30410-HC, 30410-HD, 30410-HE, 30410-HF, 30410-HG, 30410-HI, 30410-HJ, 30410-HL, 30410-HM, 30410-HN, 30410-HO, 30410-HP, 30410-HQ, 30410-HR, 30410-HS, 30410-HT, 30410-HU, 30410-HV, 30410-HW, 30410-HX, 30410-HY, 30410-HZ, 30410-IA, 30410-IB, 30410-IC, 30410-ID, 30410-IE, 30410-IF, 30410-IG, 30410-IH, 30410-II, 30410-IJ, 30410-IL, 30410-IM, 30410-IN, 30410-IO, 30410-IP, 30410-IQ, 30410-IR, 30410-IS, 30410-IT, 30410-IU, 30410-IV, 30410-IW, 30410-IX, 30410-IY, 30410-IZ, 30410-JA, 30410-JB, 30410-JC, 30410-JD, 30410-JE, 30410-JF, 30410-JG, 30410-JH, 30410-JI, 30410-JJ, 30410-JL, 30410-JM, 30410-JN, 30410-JO, 30410-JP, 30410-JQ, 30410-JR, 30410-JS, 30410-JT, 30410-JU, 30410-JV, 30410-JW, 30410-JX, 30410-JY, 30410-JZ, 30410-KA, 30410-KB, 30410-KC, 30410-KD, 30410-KE, 30410-KF, 30410-KG, 30410-KH, 30410-KI, 30410-KJ, 30410-KL, 30410-KM, 30410-KN, 30410-KO, 30410-KP, 30410-KQ, 30410-KR, 30410-KS, 30410-KT, 30410-KU, 30410-KV, 30410-KW, 30410-KX, 30410-KY, 30410-KZ, 30410-LA, 30410-LB, 30410-LC, 30410-LD, 30410-LE, 30410-LF, 30410-LG, 30410-LH, 30410-LI, 30410-LJ, 30410-LK, 30410-LM, 30410-LN, 30410-LO, 30410-LP, 30410-LQ, 30410-LR, 30410-LS, 30410-LT, 30410-LU, 30410-LV, 30410-LW, 30410-LX, 30410-LY, 30410-LZ, 30410-MA, 30410-MB, 30410-MC, 30410-MD, 30410-ME, 30410-MF, 30410-MG, 30410-MH, 30410-MI, 30410-MJ, 30410-ML, 30410-MN, 30410-MO, 30410-MP, 30410-MQ, 30410-MR, 30410-MS, 30410-MT, 30410-MU, 30410-MV, 30410-MW, 30410-MX, 30410-MY, 30410-MZ, 30410-NA, 30410-NB, 30410-NC, 30410-ND, 30410-NE, 30410-NF, 30410-NG, 30410-NH, 30410-NI, 30410-NJ, 30410-NL, 30410-NM, 30410-NO, 30410-NP, 30410-NQ, 30410-NR, 30410-NS, 30410-NT, 30410-NU, 30410-NV, 30410-NW, 30410-NX, 30410-NY, 30410-NZ, 30410-OA, 30410-OB, 30410-OC, 30410-OD, 30410-OE, 30410-OF, 30410-OG, 30410-OH, 30410-OI, 30410-OJ, 30410-OL, 30410-OM, 30410-ON, 30410-OO, 30410-OP, 30410-OQ, 30410-OR, 30410-OS, 30410-OT, 30410-OU, 30410-OV, 30410-OW, 30410-OX, 30410-OY, 30410-OZ, 30410-PA, 30410-PB, 30410-PC, 30410-PD, 30410-PE, 30410-PF, 30410-PG, 30410-PH, 30410-PI, 30410-PJ, 30410-PL, 30410-PM, 30410-PN, 30410-PO, 30410-PP, 30410-PQ, 30410-PR, 30410-PS, 30410-PT, 30410-PU, 30410-PV, 30410-PW, 30410-PX, 30410-PY, 30410-PZ, 30410-QA, 30410-QB, 30410-QC, 30410-QD, 30410-QE, 30410-QF, 30410-QG, 30410-QH, 30410-QI, 30410-QJ, 30410-QL, 30410-QM, 30410-QN, 30410-QO, 30410-QP, 30410-QQ, 30410-QR, 30410-QS, 30410-QT, 30410-QU, 30410-QV, 30410-QW, 30410-QX, 30410-QY, 30410-QZ, 30410-RA, 30410-RB, 30410-RC, 30410-RD, 30410-RE, 30410-RF, 30410-RG, 30410-RH, 30410-RI, 30410-RJ, 30410-RL, 30410-RM, 30410-RN, 30410-RO, 30410-RR, 30410-RS, 30410-RT, 30410-RU, 30410-RV, 30410-RW, 30410-RX, 30410-RY, 30410-RZ, 30410-SA, 30410-SB, 30410-SC, 30410-SD, 30410-SE, 30410-SF, 30410-SG, 30410-SH, 30410-SI, 30410-SJ, 30410-SL, 30410-SM, 30410-SN, 30410-SO, 30410-SP, 30410-SQ, 30410-SR, 30410-SS, 30410-ST, 30410-SU, 30410-SV, 30410-SW, 30410-SX, 30410-SY, 30410-SZ, 30410-TA, 30410-TB, 30410-TC, 30410-TD, 30410-TE, 30410-TF, 30410-TG, 30410-TH, 30410-TI, 30410-TJ, 30410-TL, 30410-TM, 30410-TN, 30410-TO, 30410-TP, 30410-TQ, 30410-TR, 30410-TS, 30410-TU, 30410-TV, 30410-TW, 30410-TX, 30410-TY, 30410-TZ, 30410-UA, 30410-UB, 30410-UC, 30410-UD, 30410-UE, 30410-UF, 30410-UG, 30410-UH, 30410-UI, 30410-UJ, 30410-UL, 30410-UM, 30410-UN, 30410-UO, 30410-UP, 30410-UQ, 30410-UR, 30410-US, 30410-UT, 30410-UY, 30410-UZ, 30410-VA, 30410-VB, 30410-VC, 30410-VD, 30410-VE, 30410-VF, 30410-VG, 30410-VH, 30410-VI, 30410-VJ, 30410-VL, 30410-VM, 30410-VN, 30410-VO, 30410-VP, 30410-VQ, 30410-VR, 30410-VS, 30410-VT, 30410-VU, 30410-VV, 30410-VW, 30410-VX, 30410-VY, 30410-VZ, 30410-WA, 30410-WB, 30410-WC, 30410-WD, 30410-WE, 30410-WF, 30410-WG, 30410-WH, 30410-WI, 30410-WJ, 30410-WL, 30410-WM, 30410-WN, 30410-WO, 30410-WP, 30410-WQ, 30410-WS, 30410-WT, 30410-WU, 30410-WV, 30410-WX, 30410-WY, 30410-WZ, 30410-XA, 30410-XB, 30410-XC, 30410-XD, 30410-XE, 30410-XF, 30410-XG, 30410-XH, 30410-XI, 30410-XJ, 30410-XL, 30410-XM, 30410-XN, 30410-XO, 30410-XP, 30410-XQ, 30410-XR, 30410-XS, 30410-XT, 30410-XU, 30410-XV, 30410-XW, 30410-XX, 30410-XY, 30410-XZ, 30410-YA, 30410-YB, 30410-YC, 30410-YD, 30410-YE, 30410-YF, 30410-YG, 30410-YH, 30410-YI, 30410-YJ, 30410-YL, 30410-YM, 30410-YN, 30410-YO, 30410-YP, 30410-YQ, 30410-YR, 30410-YS, 30410-YT, 30410-YU, 30410-YV, 30410-YW, 30410-YX, 30410-YY, 30410-YZ, 30410-ZA, 30410-ZB, 30410-ZC, 30410-ZD, 30410-ZE, 30410-ZF, 30410-ZG, 30410-ZH, 30410-ZI, 30410-ZJ, 30410-ZL, 30410-ZM, 30410-ZN, 30410-ZO, 30410-ZP, 30410-ZQ, 30410-ZR, 30410-ZS, 30410-ZT, 30410-ZU, 30410-ZV, 30410-ZW, 30410-ZX, 30410-ZY, 30410-ZZ

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REMARKS
17-4060
SCALE: NTS UNLESS NOTED
2

MAXIMUM ALLOWABLE CLEAR SPAN TABLE
ROOFS OVER ENCLOSED SUNROOM ADDITIONS:

Wind Speed (mph)	Expo- sure (L)	Live Load (psf)	Deflection Limit (L/...)	3' Panels						4' Panels						5' Panels					
				0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin
100 MPH	B	13 PSF	120	13.1"	16.2"	17.2"	14.7"	18.3"	19.3"	16.5"	17.1"	20.1"	16.5"	17.1"	20.1"	16.5"	17.1"	20.1"	16.5"	17.1"	20.1"
100 MPH	B	13 PSF	180	12.2"	14.1"	15.0"	12.9"	15.7"	16.7"	14.5"	15.7"	18.3"	14.5"	15.7"	18.3"	14.5"	15.7"	18.3"	14.5"	15.7"	18.3"
100 MPH	B	13 PSF	240	11.1"	12.1"	13.8"	11.7"	13.1"	14.2"	13.4"	14.2"	16.2"	13.4"	14.2"	16.2"	13.4"	14.2"	16.2"	13.4"	14.2"	16.2"
100 MPH	C	16 PSF	120	13.1"	15.2"	16.2"	13.8"	15.6"	16.6"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"
100 MPH	C	16 PSF	180	11.5"	13.3"	14.1"	11.1"	13.6"	14.3"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"
100 MPH	C	16 PSF	240	10.4"	12.1"	12.1"	10.1"	12.0"	12.0"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"
100 MPH	D	19 PSF	120	12.3"	14.3"	14.1"	12.0"	14.1"	14.1"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"
100 MPH	D	19 PSF	180	10.8"	12.5"	13.3"	11.2"	12.8"	13.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"
100 MPH	D	19 PSF	240	9.9"	11.3"	12.0"	10.3"	11.6"	12.6"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"
110 MPH	B	16 PSF	120	13.1"	15.2"	16.2"	13.8"	15.6"	16.6"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"	13.6"	14.7"	16.8"
110 MPH	B	16 PSF	180	11.5"	13.3"	14.1"	11.1"	13.6"	14.3"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"	12.4"	13.3"	15.7"
110 MPH	B	16 PSF	240	10.4"	12.1"	12.1"	10.1"	12.0"	12.0"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"	11.1"	12.0"	14.6"
110 MPH	C	19 PSF	120	12.3"	14.3"	14.1"	12.0"	14.1"	14.1"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"	12.0"	14.1"	16.4"
110 MPH	C	19 PSF	180	10.8"	12.5"	13.3"	11.2"	12.8"	13.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"	10.6"	12.6"	15.8"
110 MPH	C	19 PSF	240	9.9"	11.3"	12.0"	10.3"	11.6"	12.6"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"	9.8"	11.6"	14.7"
110 MPH	D	23 PSF	120	10.7"	13.4"	13.6"	11.2"	13.7"	13.7"	11.2"	13.7"	15.4"	11.2"	13.7"	15.4"	11.2"	13.7"	15.4"	11.2"	13.7"	15.4"
110 MPH	D	23 PSF	180	9.1"	10.7"	11.3"	9.6"	10.1"	11.8"	9.0"	10.1"	13.8"	9.0"	10.1"	13.8"	9.0"	10.1"	13.8"	9.0"	10.1"	13.8"
110 MPH	D	23 PSF	240	8.2"	9.2"	9.4"	8.7"	9.1"	10.1"	8.1"	9.1"	11.1"	8.1"	9.1"	11.1"	8.1"	9.1"	11.1"	8.1"	9.1"	11.1"
120 MPH	B	19 PSF	120	12.4"	14.4"	15.1"	12.1"	14.2"	15.1"	12.1"	14.2"	16.1"	12.1"	14.2"	16.1"	12.1"	14.2"	16.1"	12.1"	14.2"	16.1"
120 MPH	B	19 PSF	180	10.9"	12.5"	13.4"	10.3"	12.9"	13.9"	10.2"	12.9"	15.9"	10.2"	12.9"	15.9"	10.2"	12.9"	15.9"	10.2"	12.9"	15.9"
120 MPH	B	19 PSF	240	9.9"	11.4"	12.1"	10.3"	11.7"	12.7"	9.8"	11.7"	14.8"	9.8"	11.7"	14.8"	9.8"	11.7"	14.8"	9.8"	11.7"	14.8"
120 MPH	C	22 PSF	120	11.7"	13.5"	13.8"	12.1"	13.9"	14.9"	11.7"	13.9"	15.6"	11.7"	13.9"	15.6"	11.7"	13.9"	15.6"	11.7"	13.9"	15.6"
120 MPH	C	22 PSF	180	10.1"	11.9"	12.6"	10.7"	11.2"	12.9"	10.1"	11.2"	14.9"	10.1"	11.2"	14.9"	10.1"	11.2"	14.9"	10.1"	11.2"	14.9"
120 MPH	C	22 PSF	240	9.2"	10.8"	11.4"	9.7"	10.1"	11.8"	9.2"	10.1"	13.5"	9.2"	10.1"	13.5"	9.2"	10.1"	13.5"	9.2"	10.1"	13.5"
120 MPH	D	27 PSF	120	10.1"	12.7"	12.5"	11.4"	12.1"	13.1"	10.1"	12.1"	15.8"	10.1"	12.1"	15.8"	10.1"	12.1"	15.8"	10.1"	12.1"	15.8"
120 MPH	D	27 PSF	180	8.6"	10.1"	10.8"	8.1"	9.1"	10.1"	8.6"	9.1"	12.1"	8.6"	9.1"	12.1"	8.6"	9.1"	12.1"	8.6"	9.1"	12.1"
120 MPH	D	27 PSF	240	7.7"	9.1"	9.8"	7.2"	8.1"	9.1"	7.7"	8.1"	11.1"	7.7"	8.1"	11.1"	7.7"	8.1"	11.1"	7.7"	8.1"	11.1"
130 MPH	B	22 PSF	120	11.8"	13.7"	13.1"	12.2"	13.1"	14.1"	11.8"	13.1"	15.9"	11.8"	13.1"	15.9"	11.8"	13.1"	15.9"	11.8"	13.1"	15.9"
130 MPH	B	22 PSF	180	10.2"	11.0"	12.7"	10.8"	12.2"	13.1"	10.2"	12.2"	14.1"	10.2"	12.2"	14.1"	10.2"	12.2"	14.1"	10.2"	12.2"	14.1"
130 MPH	B	22 PSF	240	9.3"	10.9"	12.7"	10.8"	12.2"	13.1"	9.3"	10.9"	15.4"	9.3"	10.9"	15.4"	9.3"	10.9"	15.4"	9.3"	10.9"	15.4"
130 MPH	C	26 PSF	120	10.1"	12.9"	12.8"	11.5"	12.1"	13.1"	10.1"	12.1"	14.8"	10.1"	12.1"	14.8"	10.1"	12.1"	14.8"	10.1"	12.1"	14.8"
130 MPH	C	26 PSF	180	8.7"	11.1"	11.0"	10.0"	10.4"	11.4"	8.7"	10.4"	13.1"	8.7"	10.4"	13.1"	8.7"	10.4"	13.1"	8.7"	10.4"	13.1"
130 MPH	C	26 PSF	240	7.7"	10.1"	10.9"	8.1"	9.1"	10.1"	7.7"	9.1"	12.1"	7.7"	9.1"	12.1"	7.7"	9.1"	12.1"	7.7"	9.1"	12.1"
130 MPH	D	32 PSF	120	10.3"	11.7"	11.5"	10.8"	12.1"	13.0"	10.3"	12.1"	14.6"	10.3"	12.1"	14.6"	10.3"	12.1"	14.6"	10.3"	12.1"	14.6"
130 MPH	D	32 PSF	180	8.1"	10.5"	11.1"	9.5"	10.8"	11.8"	8.1"	10.8"	13.0"	8.1"	10.8"	13.0"	8.1"	10.8"	13.0"	8.1"	10.8"	13.0"
130 MPH	D	32 PSF	240	7.2"	9.6"	10.1"	8.6"	9.8"	10.8"	7.2"	9.8"	12.3"	7.2"	9.8"	12.3"	7.2"	9.8"	12.3"	7.2"	9.8"	12.3"
140 MPH	B	25 PSF	120	11.2"	12.1"	12.1"	11.8"	13.2"	14.3"	11.2"	14.3"	17.7"	11.2"	14.3"	17.7"	11.2"	14.3"	17.7"	11.2"	14.3"	17.7"
140 MPH	B	25 PSF	180	9.9"	11.3"	12.0"	10.2"	11.6"	12.6"	9.9"	12.6"	14.7"	9.9"	12.6"	14.7"	9.9"	12.6"	14.7"	9.9"	12.6"	14.7"
140 MPH	B	25 PSF	240	8.1"	10.3"	10.1"	9.3"	10.6"	11.6"	8.1"	10.6"	13.3"	8.1"	10.6"	13.3"	8.1"	10.6"	13.3"	8.1"	10.6"	13.3"
140 MPH	C	30 PSF	120	10.5"	11.1"	11.9"	10.1"	12.5"	13.4"	10.5"	13.4"	14.9"	10.5"	13.4"	14.9"	10.5"	13.4"	14.9"	10.5"	13.4"	14.9"
140 MPH	C	30 PSF	180	9.1"	10.7"	11.3"	9.6"	11.0"	12.1"	9.1"	12.1"	14.5"	9.1"	12.1"	14.5"	9.1"	12.1"	14.5"	9.1"	12.1"	14.5"
140 MPH	C	30 PSF	240	8.3"	9.7"	10.3"	8.8"	10.1"	11.2"	8.3"	11.2"	13.1"	8.3"	11.2"	13.1"	8.3"	11.2"	13.1"	8.3"	11.2"	13.1"
140 MPH	D	37 PSF	120	9.9"	10.1"	10.8"	10.3"	10.5"	11.5"	9.9"	10.5"	14.5"	9.9"	10.5"	14.5"	9.9"	10.5"	14.5"	9.9"	10.5"	14.5"
140 MPH	D	37 PSF	180	8.7"	9.1"	10.7"	8.1"	10.2"	11.1"	8.7"	11.1"	12.1"	8.7"	11.1"	12.1"	8.7"	11.1"	12.1"	8.7"	11.1"	12.1"
140 MPH	D	37 PSF	240	7.8"	9.0"	9.7"	8.1"	9.2"	10.1"	7.8"	10.1"	11.8"	7.8"	10.1"	11.8"	7.8"	10.1"	11.8"	7.8"	10.1"	11.8"

TABLE NOTES:

1. ALLOWABLE CLEAR SPAN CALCULATIONS BASED ON ASCE 7-10 FIGURE 26.5-1c, RISK CATEGORY 1, 10 PSF MIN LOAD. EXP 'B' PRESSURES VALID UP TO 30' MRL. EXP 'C' & EXP 'D' PRESSURES VALID UP TO 15' MRL ONLY.
2. DEFLECTION LIMIT AS NOTED IN CLEAR SPAN TABLES, MAXIMUM ALLOWABLE ROOF SLOPE SHALL BE 3" MAX PER FOOT (3:12).
3. PANEL DEAD LOADS HAVE BEEN FACTORED INTO CALCULATIONS FOR GRAVITY LOADS AS WELL AS CALCULATIONS FOR PANEL PROPERTIES. MAXIMUM ALLOWABLE ROOF OVERHANGS FOR THE VALUES LISTED ABOVE SHALL NOT EXCEED 3'-0". MAXIMUM ALLOWABLE SIDE OVERHANG IS 25% OF LAST PANEL WIDTH. (i.e. 12" MAX FOR 48" PANEL WIDTH).
4. (1) INDICATES ROWS FOR USE WITHIN THE HVHZ ONLY. DEFLECTION LIMITS CONSIDERED FOR USE IN THE HVHZ ARE:
5.1. L/80 FOR SPANS ≤ 12'-0"
5.2. L/180 FOR SPANS > 12'-0"

MAXIMUM ALLOWABLE CLEAR SPAN TABLE
ROOFS OVER ENCLOSED SUNROOM ADDITIONS:

Wind Speed	Exposure &or Uplift	Live Load	Deflection Limit (L/...)	3' Panels						4' Panels						5' Panels						6' Panels									
				0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin	0.024" Alum Skin	0.030" Alum Skin	26ga Steel Skin													
150 MPH	B	29 PSF	120	10.8"	12.3"	12.1"	11.1"	12.7"	13.7"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	10.8"	12.3"	13.8"	
150 MPH	B	29 PSF	180	9.3"	10.9"	11.6"	9.8"	11.0"	11.0"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	9.3"	11.0"	13.7"	
150 MPH	B	29 PSF	240	8.5"	9.9"	10.5"	8.1"	9.12"	10.9"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	8.5"	9.12"	12.4"	
150 MPH	D	42 PSF	120	9.4"	10.1"	9.11"	9.6"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	9.4"	10.6"	11.4"	
150 MPH	D	42 PSF	180	8.2"	9.6"	9.11"	8.6"	9.8"	10.6"	8.2"	9.8"	10.5"	11.3"	12.3"	12.3"	8.2"	9.8"	10.5"	11.3"	12.3"	12.3"	8.2"	9.8"	10.5"	11.3"	12.3"	12.3"	8.2"	9.8"	10.5"	
150 MPH	D	42 PSF	240	7.5"	8.7"	9.2"	7.9"	9.0"	10.0"	7.5"	9.0"	10.8"	8.1"	11.1"	12.3"	7.5"	9.0"	10.8"	8.1"	11.1"	12.3"	7.5"	9.0"	10.8"	8.1"	11.1"	12.3"	7.5"	9.0"	10.8"	
156 MPH	B	31 PSF	120	10.4"	11.9"	11.7"	10.10"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	10.4"	12.3"	13.2"	
156 MPH	B	31 PSF	180	9.0"	10.6"	11.2"	9.5"	10.9"	11.7"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	9.0"	10.9"	13.2"	
156 MPH	B	31 PSF	240	8.3"	9.6"	10.2"	8.7"	9.8"	10.6"	8.3"	9.8"	10.6"	11.12"	12.4"	13.7"	8.3"	9.8"	10.6"	11.12"	12.4"	13.7"	8.3"	9.8"	10.6"	11.12"	12.4"	13.7"	8.3"	9.8"	10.6"	
156 MPH	C	38 PSF	120	9.8"	10.8"	10.6"	8.1"	10.1"	11.1"	9.8"	10.1"	11.1"	10.10"	11.11"	13.3"	9.8"	10.1"	11.1"	10.10"	11.11"	13.3"	9.8"	10.1"	11.1"	10.10"	11.11"	13.3"	9.8"	10.1"	11.1"	
156 MPH	C	38 PSF	180	8.6"	9.10"	10.6"	8.10"	10.2"	11.1"	8.6"	10.2"	11.1"	10.10"	11.11"	13.3"	8.6"	10.2"	11.1"	10.10"	11.11"	13.3"	8.6"	10.2"	11.1"	10.10"	11.11"	13.3"	8.6"	10.2"	11.1"	
156 MPH	C	38 PSF	240	7.8"	8.11"	9.6"	8.1"	9.5"	10.9"	7.8"	9.5"	10.9"	9.10"	11.3"	12.7"	7.8"	9.5"	10.9"	9.10"	11.3"	12.7"	7.8"	9.5"	10.9"	9.10"	11.3"	12.7"	7.8"	9.5"	10.9"	
156 MPH	D	46 PSF	120	9.1"	9.8"	8.7"	9.6"	10.1"	10.10"	9.1"	10.10"	10.10"	10.10"	11.3"	12.7"	9.1"	10.10"	10.10"	10.10"	11.3"	12.7"	9.1"	10.10"	10.10"	10.10"	11.3"	12.7"	9.1"	10.10"	10.10"	
156 MPH	D	46 PSF	180	7.1"	8.3"	8.11"	7.7"	8.7"	9.5"	7.1"	8.7"	9.5"	10.2"	10.10"	11.11"	7.1"	8.7"	9.5"	10.2"	10.10"	11.11"	7.1"	8.7"	9.5"	10.2"	10.10"	11.11"	7.1"	8.7"	9.5"	
156 MPH	D	46 PSF	240	7.3"	8.5"	8.11"	7.4"	8.7"	9.4"	7.3"	8.7"	9.4"	10.7"	10.7"	12.4"	7.3"	8.7"	9.4"	10.7"	10.7"	12.4"	7.3"	8.7"	9.4"	10.7"	10.7"	12.4"	7.3"	8.7"	9.4"	
160 MPH	B	33 PSF	120	10.2"	11.5"	11.3"	10.8"	11.11"	12.10"	10.2"	12.10"	12.10"	11.4"	12.10"	13.4"	10.2"	12.10"	12.10"	11.4"	12.10"	13.4"	10.2"	12.10"	12.10"	11.4"	12.10"	13.4"	10.2"	12.10"	13.4"	
160 MPH	B	33 PSF	180	8.11"	10.4"	10.12"	8.3"	10.6"	11.4"	8.11"	10.6"	11.4"	10.4"	12.10"	13.4"	8.11"	10.6"	11.4"	10.4"	12.10"	13.4"	8.11"	10.6"	11.4"	10.4"	12.10"	13.4"	8.11"	10.6"	11.4"	
160 MPH	B	33 PSF	240	8.1"	9.4"	9.12"	8.5"	9.7"	10.4"	8.1"	9.7"	10.4"	11.10"	12.11"	12.9"	8.1"	9.7"	10.4"	11.10"	12.11"	12.9"	8.1"	9.7"	10.4"	11.10"	12.11"	12.9"	8.1"	9.7"	10.4"	
160 MPH	C	40 PSF	120	9.7"	10.5"	10.3"	9.12"	10.10"	11.4"	9.7"	10.10"	11.4"	11.4"	12.11"	13.12"	9.7"	10.10"	11.4"	11.4"	12.11"	13.12"	9.7"	10.10"	11.4"	11.4"	12.11"	13.12"	9.7"	10.10"	11.4"	
160 MPH	C	40 PSF	180	8.4"	9.8"	10.3"	8.9"	9.11"	10.8"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	
160 MPH	C	40 PSF	240	8.4"	9.8"	10.3"	8.9"	9.11"	10.8"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	11.5"	12.6"	13.2"	8.4"	9.11"	10.8"	
160 MPH	D	48 PSF	120	8.10"	9.5"	9.4"	9.4"	10.1"	10.7"	8.10"	10.7"	10.7"	11.4"	12.8"	13.5"	8.10"	10.7"	10.7"	11.4"	12.8"	13.5"	8.10"	10.7"	10.7"	11.4"	12.8"	13.5"	8.10"	10.7"	10.7"	
160 MPH	D	48 PSF	180	7.10"	9.1"	9.4"	8.2"	9.3"	9.12"	7.10"	9.12"	10.7"	11.9"	12.4"	13.5"	7.10"	9.12"	10.7"	11.9"	12.4"	13.5"	7.10"	9.12"	10.7"	11.9"	12.4"	13.5"	7.10"	9.12"	10.7"	
160 MPH	D	48 PSF	240	7.1"	8.3"	8.9"	7.5"	8.5"	9.1"	7.1"	8.5"	9.1"	10.5"	11.2"	13.1"	7.1"	8.5"	9.1"	10.5"	11.2"	13.1"	7.1"	8.5"	9.1"	10.5"	11.2"	13.1"	7.1"	8.5"	9.1"	
165 MPH	B	35 PSF	120	9.11"	11.1"	10.11"	10.5"	11.7"	12.5"	9.11"	11.7"	12.5"	12.5"	13.9"	14.11"	9.11"	11.7"	12.5"	12.5"	13.9"	14.11"	9.11"	11.7"	12.5"	12.5"	13.9"	14.11"	9.11"	11.7"	12.5"	
165 MPH	B	35 PSF	180	8.8"	10.1"	10.9"	9.1"	10.4"	11.1"	8.8"	10.4"	11.1"	12.5"	13.1"	13.9"	8.8"	10.4"	11.1"	12.5"	13.1"	13.9"	8.8"	10.4"	11.1"	12.5"	13.1"	13.9"	8.8"	10.4"	11.1"	
165 MPH	B	35 PSF	240	7.11"	9.2"	9.9"	8.3"	9.4"	10.1"	7.11"	9.4"	10.1"	11.7"	12.6"	12.6"	7.11"	9.4"	10.1"	11.7"	12.6"	12.6"	7.11"	9.4"	10.1"	11.7"	12.6"	12.6"	7.11"	9.4"	10.1"	
165 MPH	C	42 PSF	120	9.4"	10.1"	9.11"	8.6"	10.6"	11.3"	9.4"	10.6"	11.3"	11.3"	12.6"	13.6"	9.4"	10.6"	11.3"	11.3"	12.6"	13.6"	9.4"	10.6"	11.3"	11.3"	12.6"	13.6"	9.4"	10.6"	11.3"	
165 MPH	C	42 PSF	180	8.2"	9.6"	9.11"	8.9"	9.8"	10.5"	8.2"	9.8"	10.5"	11.3"	12.3"	12.11"	8.2"	9.8"	10.5"	11.3"	12.3"	12.11"	8.2"	9.8"	10.5"	11.3"	12.3"	12.11"	8.2"	9.8"	10.5"	
165 MPH	C	42 PSF	240	7.5"	8.7"	9.2"	7.9"	8.10"	9.6"	7.5"	8.10"	9.6"	10.10"	11.1"	11.8"	7.5"	8.7"	9.2"	10.10"	11.1"	11.8"	7.5"	8.7"	9.2"	10.10"	11.1"	11.8"	7.5"	8.7"	9.2"	
165 MPH	D	51 PSF	120	8.7"	9.2"	9.0"	8.4"	9.6"	10.3"	8.7"	9.6"	10.3"	11.4"	12.3"	12.12"	8.7"	9.6"	10.3"	11.4"	12.3"	12.12"	8.7"	9.6"	10.3"	11.4"	12.3"	12.12"	8.7"	9.6"	10.3"	
165 MPH	D	51 PSF	180	7.8"	8.11"	9.0"	7.12"	9.1"	9.9"	7.8"	9.1"	9.9"	10.3"	11.4"	12.1"	7.8"	8.11"	9.0"	10.3"	11.4"	12.1"	7.8"	8.11"	9.0"	10.3"	11.4"	12.1"	7.8"	8.11"	9.0"	
165 MPH	D	51 PSF	240	6.11"	8.1"	8.7"	7.3"	8.3"	8.1"	6.11"	8.3"	8.1"	10.2"	10.5"	10.12"	6.11"	8.3"	8.1"	10.2"	10.5"	10.12"	6.11"	8.3"	8.1"	10.2"	10.5"	10.12"	6.11"	8.3"	8.1"	
170 MPH	B	37 PSF	120	9.9"	10.9"	10.7"	10.2"	11.2"	12.1"	9.9"	10.7"	12.0"	12.4"	13.4"	14.5"	9.9"	10.9"	10.7"	12.0"	12.4"	13.4"	9.9"	10.9"	10.7"	12.0"	12.4"	13.4"	9.9"	10.9"	10.7"	
170 MPH	B	37 PSF	180	8.6"	9.11"	10.6"	8.11"	10.4"	11.1"	8.6"	10.4"	11.1"	12.0"	12.9"	13.5"	8.6"	9.11"	10.6"	11.1"	12.0"	12.9"	13.5"	8.6"	9.11"	10.6"	11.1"	12.0"	12.9"	13.5"	8.6"	9.11"
170 MPH	B	37 PSF	240	7.9"	8.12"	9.7"	8.1"	9.2"	9.11"	7.9"	9.11"	11.4"	11.7"	12.3"	14.3"	7.9"	8.12"	9.7"	9.11"	11.4"	11.7"	12.3"	7.9"	8.12"	9.7"	9.11"	11.4"	11.7"	12.3"	7.9"	8.12"
170 MPH	C	45 PSF	80	9.2"	9.9"	9.8"	10.1"	10.2"	10.11"	9.2"	10.2"	10.11"	12.2"	13.1"	13.11"	9.2"	9.9"	9.8"	10.2"	10.11"	12.2"	13.1"	9.2"	9.9"	9.8"	10.2"	10.11"	12.2"	13.1"	9.2"	9.9"
170 MPH	C	45 PSF	120	9.2"	9.9"	9.8"	8.7"	10.2"	10.11"	9.2"	10.2"	10.11"	12.2"	13.1"	13.11"	9.2"	9.9"	9.8"	10.2"	10.11"	12.2"	13.1"	9.2"	9.9"	9.8"	10.2"	10.11"	12.2"	13.1"	9.2"	9.9"
170 MPH	C	45 PSF	180	8.0"	9.3"	9.8"	8.4"	9.6"	10.3"	8.0"	9.6"	10.3"	11.12"	12.7"	13.11"	8.0"	9.3"	9.8"	9.6"	10.3"	11.12"	12.7"	8.0"	9.3"	9.8"	9.6"	10.3"	11.12"	12.7"	8.0"	9.3"
170 MPH	C	45 PSF	240	7.3"	8.5"	8.12"	7.7"	8.7"	9.4"	7.3"	8.7"	9.4"	10.7"	11.11"	11.6"	7.3"	8.5"	8.12"	9.4"	10.7"	11.11"	11.6"	7.3"	8.5"	8.12"	9.4"	10.7"	11.11"	11.6"	7.3"	8.5"
170 MPH	D	54 PSF	80	8.4"	8.10"	8.9"	8.2"	9.3"	9.3"	8.4"	9.3"	9.3"	11.0"	11.11"	11.11"	8.4"	8.10"	8.9"	9.3"	9.3"	11.0"	11.11"	8.4"	8.10"	8.9"	9.3"	9.3"	11.0"	11.11"	8.4"	8.10"
170 MPH	D	54 PSF	120	8.4"	8.10"	8.9"	8.2"	9.3"	9.3"	8.4"	9.3"	9.3"	11.0"	11.11"	11.11"	8.4"	8.10"	8.9"	9.3"	9.3"	11.0"	11.11"	8.4"	8.10"	8.9"	9.3"	9.3"	11.0"	11.11"	8.4"	8.10"
170 MPH	D	54 PSF	180	7.6"	8.8"	8.9"	7.10"	8.11"	8.8"	7.6"	8.11"	8.8"	9.11"	11.0"	10.9"	7.6"	8.8"	8.9"	9.11"	11.0"	10.9"	10.9"	7.6"	8.8"	8.9"	9.11"	11.0"	10.9"	10.9"	7.6"	8.8"
170 MPH	D	54 PSF	240	6.10"	7.11"	8.5"	7.1"	8.1"	8.6"	6.10"	8.1"	8.6"	9.11"	10.3"	10.3"	6.10"	7.11"	8.5"	7.1"	8.1"	8.6"	9.11"	10.3"	10.3"	6.10"	7.11"	8.5"	7.1"	8.1"	8.6"	9.11"
175 MPH	B	39 PSF	120	9.7"	10.5"	10.4"	8.9"	10.11"	11.8"	9.7"																					