

24 August 2021

**Matter No.** 021999009

**Re:** **Producer Statement-PS1-Design, for Universal Glazing Systems Limited F150 Glazing Box Bar & F150 Glazing Bar, Aluminium Polycarbonate Roof Support Member**

Issued By: Prendos New Zealand Limited

To: Universal Glazing Systems Limited

In Respect Of: Universal Glazing Systems Limited Standard Design Tables for F150 Aluminium Section

The proposed building work covered by this producer statement is covered on the attached Sketch 4, F150 Box, product no. 37809, Universal Glazing Systems and the F150 Top Cap, Sketch 3, product no. 37808.

The proposed F150 roof support element, if designed in accordance with the attached design table complies with the relevant provisions of the New Zealand Building Code. We confirm that compliance is met with Clauses B1-Structure & B2-Durability in terms of AS/NZS 1664.1:1997 (Reconfirmed 2020), Aluminium structures - Limit state design.

The Producer Statement-PS1-Design is subject to verification of the following assumptions:

- Correct calculation/selection of site wind loadings
- For support of 6mm polycarbonate only
- The F150 Glazing Box Bar or F150 Glazing Bar has been designed in accordance with the supplied design span table, related documents including Sketch 4, F150 Box, product 37809, Sketch 3, product no. 37808 Universal Glazing Systems and/or details and installation documents.
- All other assumptions stated on the attached design span table have been satisfied or taken into consideration

Yours sincerely


**PRENDOS NEW ZEALAND LIMITED**



**Cathy Thomas** *Director & Chartered Structural Engineer*  
*NZCE (Civil), BEng Tech (Civil), CEngNZ, CPeng*

Note: This statement becomes invalid if altered in any way.



 <p>PRENDOS. Intelligent Property Solutions</p>	JOB NAME: UNIVERSAL GLAZING SYSTEMS LTD	PAGE NO: 2
	SECTION: SPAN TABLE - F150 SPAN BOX & BAR	2
	JOB NO: 021999009	DESIGN: CST
	DATE: 23/08/21	CHECKED:

	Maximum Allowable Spans (metres)					Midspan
	Extra High	Very High	High	Medium	Low	
						Q=0.5
F150 Glazing Box - 600mm crs	4.5	4.9	5.6	6.0	6.0	4.2
F150 Glazing Box - 750mm crs	4.0	4.4	5.0	5.4	5.4	4.2

Rafter Type	Max Rafter Spacing (mm)	Extra High	Very High	High	Medium	Low
140x45 SG8	600	3.0	3.3	3.7	3.7	3.8
purlin spacing		1.0	1.2	1.3	1.4	1.4
190x45 SG8	600	4.0	4.4	5.0	5.2	5.2
purlin spacing		1.0	1.2	1.3	1.4	1.4
240x45 SG8	600	5.1	5.6	6.2	6.3	6.3
purlin spacing		1.0	1.2	1.3	1.4	1.4
140x45 SG8	750	2.6	2.9	3.3	3.6	3.6
purlin spacing		1.0	1.2	1.3	1.4	1.4
190x45 SG8	750	3.6	3.9	4.5	4.8	4.8
purlin spacing		1.0	1.2	1.3	1.4	1.4
240x45 SG8	750	4.5	5.0	5.7	6.1	6.1
purlin spacing		1.0	1.2	1.3	1.4	1.4
140x45 SG8	900	2.4	2.7	3.0	3.3	3.4
purlin spacing		1.0	1.2	1.3	1.4	1.4
190x45 SG8	900	3.3	3.6	4.1	4.4	4.4
purlin spacing		1.0	1.2	1.3	1.4	1.4
240x45 SG8	900	4.1	4.6	5.2	5.6	5.6
purlin spacing		1.0	1.2	1.3	1.4	1.4

Purlins fixed to rafters with 2-12 gauge screws with 40mm embedment at each rafter crossing

**Table Limitations**

F150 Glazing Box to be fixed with proprietary F150 Box Bracket and 4 x bolts

For support of 6mm polycarbonate only

Importance Level 2 Buildings

Buildings not subject to snow loading

Specific to canopies fixed at 0.75 x h (median building height above ground)

Width of canopy at least equal to height of canopy or greater