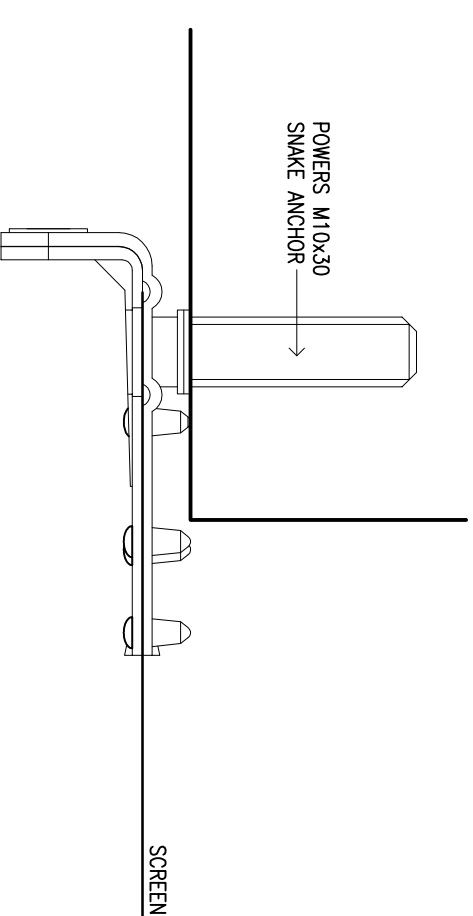


INSIDE FACE CONNECTION

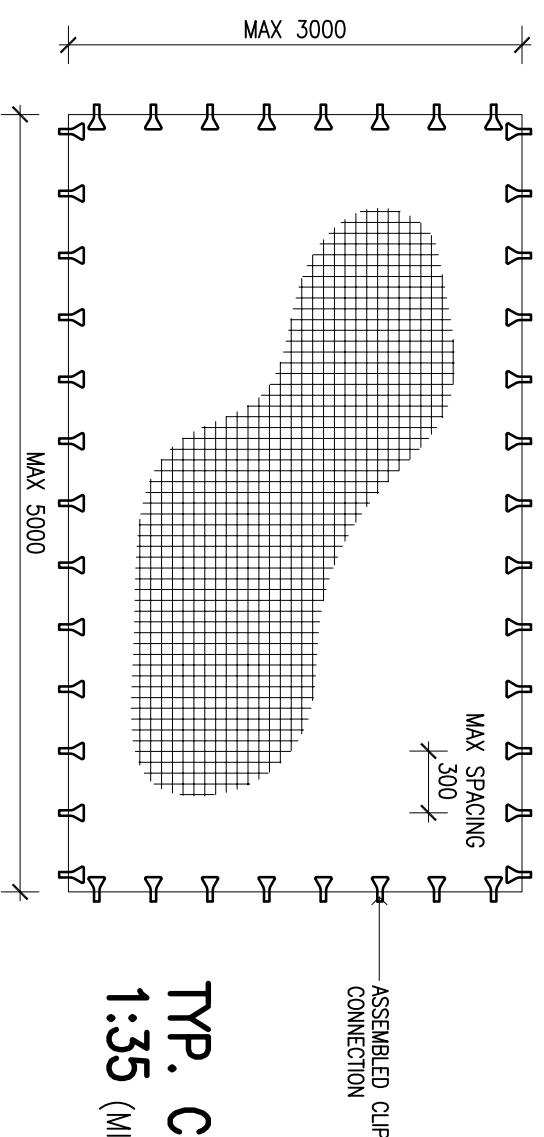


OUTSIDE FACE CONNECTION

CONNECTION DETAILS 1:5

STRUCTURAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE 2007 INTERNATIONAL BUILDING CODE. TEST STANDARDS USED – ASTM E330, ASTM E1886, & ASTM E1996. THE ADEQUACY FOR IMPACT, DEFLECTION & FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH THE ABOVE REFERENCED CODE & AS PER THE FLORIDA BUILDING CODE 2007, TAS 201, 202 & 203 AT FENESTRATION TESTING LABORATORY, INC. IT HAS ALSO BEEN TESTED BY THE JAMES COOK UNIVERSITY TROPICAL TESTING STATION.
2. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE & INSTALLATION OF THIS SYSTEM, INCLUDING VERIFYING THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND THE NEW SUPERIMPOSED LOADS SHOWN IN THE TABLES & THE SOUNDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. ENGINEERING ADVICE TO BE OBTAINED WHERE REQUIRED.
3. THIS WIND ABATEMENT SYSTEM IS INTENDED FOR USE ONLY DURING CYCLONE OR OTHER TROPICAL STORM WARNINGS. SEASONAL OR PERMANENT INSTALLATION OR STORAGE OF THIS WIND ABATEMENT SYSTEM IN AREAS OF PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR OTHER WEATHERING CONDITIONS MAY CAUSE MATERIAL DETERIORATION OR OTHERWISE INHERENT THEIR ADEQUACY AS AN IMPACT RESISTANT SYSTEM.
4. LIMITATIONS OF USE: MAXIMUM SPAN OF 5000mm WITH MINIMUM
5. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES OR CORROSION-RESISTANT COATED CARBON STEEL.
6. ALL BOLTS TO BE GALVANISED OR 304 SERIES STAINLESS STEEL.
7. ANCHORS TO THE STRUCTURE (WALL/FLOOR/CEILING/SYSTEM) SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS
8. MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 1 OF 2.



TYP. CLIP POSITIONING
1:35 (MIN 3 SIDES FIXED)

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM									
SPAN (METRES)	TX = PARALLEL LOADS								
	2.8	2.6	2.4	2.2	2.0	1.7	1.4	1.1	0.8
5.49	1134	1070	1004	936	866	792	714	642	570
4.88	1020	962	903	842	778	712	642	570	500
4.27	905	854	801	747	690	631	570	500	430
3.66	744	702	659	614	568	519	469	410	350
3.05	651	615	577	538	497	455	410	350	300
2.44	553	521	489	456	422	386	348	300	250
1.83	353	333	312	291	269	246	222	190	160
1.22	254	240	225	210	194	178	160	140	120

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM									
SPAN (METRES)	TY = PERPENDICULAR LOADS								
	2.8	2.6	2.4	2.2	2.0	1.7	1.4	1.1	0.8
5.49	540	495	450	405	360	315	270	225	180
4.88	480	440	400	360	320	280	240	200	160
4.27	420	385	350	315	280	245	210	175	140
3.66	360	330	300	270	240	210	180	150	120
3.05	300	275	250	225	200	175	150	120	100
2.44	240	220	200	180	160	140	120	100	80
1.83	180	165	150	135	120	105	90	70	60
1.22	120	110	100	90	80	70	60	50	40

SCREEN SPAN (METRES)	FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH ELCO PANELMATE PRO. MALE & FEMALE (mm)				CONCRETE (27.5 MPa)				HOLLOW CMU				TIMBER			
	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4
1.22	381	457	457	457	431	457	457	457	279	330	381	457	254	279	330	406
1.83	279	305	381	457	305	356	406	457	203	228	254	330	178	203	228	305
2.44	178	203	254	305	203	228	279	330	127	152	178	228	127	127	152	203
3.05	152	178	203	254	178	203	228	279	102	127	152	178	102	102	127	152
3.66	127	152	178	228	152	178	203	228	102	127	152	178	102	102	127	152
4.27	102	127	152	178	127	127	152	203	76	102	127	152	76	76	102	127
4.88	-	127	127	203	102	127	152	178	-	-	102	127	-	-	102	127
5.45	-	-	127	127	-	102	127	152	-	-	102	127	-	-	102	127

SCREEN SPAN (METRES)	FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH DROP-IN ANCHOR WITH SIDEWALK BOLT (mm)				CONCRETE (27.5 MPa)				HOLLOW CMU				TIMBER			
	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4	2.8	2.4	2.0	1.4
1.22	457	457	457	457	457	457	457	457	457	457	457	457	330	381	457	457
1.83	457	457	457	457	457	457	457	457	457	457	457	457	229	279	330	406
2.44	356	406	457	457	406	457	457	457	305	356	432	457	152	178	203	254
3.05	305	356	406	457	330	381	457	457	254	305	356	432	127	152	178	229
3.66	254	305	356	432	330	381	457	457	229	254	305	381	127	127	152	203
4.27	229	254	305	356	254	279	330	330	203	229	254	305	102	102	127	152
4.88	203	229	254	330	203	254	279	330	178	203	229	279	76	76	102	152
5.45	178	203	229	279	203	229	254	305	152	178	203	254	76	76	102	127

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Job No: _____ RPEQ No: _____

CLIENT:-
CYCLONE PROTECTION AUSTRALIA

PROJECT:-
ASTROGUARD TECHNICAL SPECIFICATION

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