Span Tables — A Frame 30 Degree Tilt

Each table header reads: **A Frame 30 Degree Tilt - Fixing to substructure - F7 Softwood - Using Using 2/Bremick Vortex Universal Screw - 2100 Modules**

Wind Region A

WR	TC	Roof Pitch	Height	H/d	Zone	SPAN (mm) Proline 35	SPAN (mm) Proline 50
Wind Region A	TC2	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	1101	1429
			0≤z≤5m	h/d > 0.5	All	1111	1457
			5m<z≤10m	h/d ≤ 0.5	All	1005	1169
			5m<z≤10m	h/d > 0.5	All	1013	1192
			10m<z≤15m	h/d ≤ 0.5	All	966	1055
			10m<z≤15m	h/d > 0.5	All	966	1075
			15m<z≤20m	h/d ≤ 0.5	All	932	994
			15m<z≤20m	h/d > 0.5	All	940	1013
			20m<z≤30m	h/d ≤ 0.5	All	899	921
			20m<z≤30m	h/d > 0.5	All	907	939
		5≤s<10°	0≤z≤5m	h/d ≤ 0.5	All	1101	1429
			0≤z≤5m	h/d > 0.5	All	1111	1457
			5m<z≤10m	h/d ≤ 0.5	All	1005	1169
			5m<z≤10m	h/d > 0.5	All	1013	1192
			10m<z≤15m	h/d ≤ 0.5	All	958	1055
			10m<z≤15m	h/d > 0.5	All	966	1075
			15m<z≤20m	h/d ≤ 0.5	All	932	994
			15m<z≤20m	h/d > 0.5	All	940	1013
			20m<z≤30m	h/d ≤ 0.5	All	899	921
			20m<z≤30m	h/d > 0.5	All	907	939
		10≤s≤30	0≤z≤5m	h/d ≤ 0.5	All	1024	1220
			0≤z≤5m	h/d > 0.5	All	1050	1288
			5m<z≤10m	h/d ≤ 0.5	All	934	1000
			5m<z≤10m	h/d > 0.5	All	958	1055
			10m<z≤15m	h/d ≤ 0.5	All	891	903
			10m<z≤15m	h/d > 0.5	All	913	952
			15m<z≤20m	h/d ≤ 0.5	All	889	898
			15m<z≤20m	h/d > 0.5	All	789	789
			20m<z≤30m	h/d > 0.5	All	832	832
	TC2.5	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	1151	1560
			0≤z≤5m	h/d > 0.5	All	1161	1574
			5m<z≤10m	h/d ≤ 0.5	All	1090	1396
			5m<z≤10m	h/d > 0.5	All	1099	1423
			10m<z≤15m	h/d ≤ 0.5	All	1035	1247
			10m<z≤15m	h/d > 0.5	All	1044	1271
			15m<z≤20m	h/d ≤ 0.5	All	995	1145
			15m<z≤20m	h/d > 0.5	All	1004	1167
			20m<z≤30m	h/d ≤ 0.5	All	949	1034
			20m<z≤30m	h/d > 0.5	All	957	1054
		5≤s<10°	0≤z≤5m	h/d ≤ 0.5	All	1151	1560
			0≤z≤5m	h/d > 0.5	All	1161	1574
			5m<z≤10m	h/d ≤ 0.5	All	1090	1396
			5m<z≤10m	h/d > 0.5	All	1099	1423
			10m<z≤15m	h/d ≤ 0.5	All	1035	1247
			10m<z≤15m	h/d > 0.5	All	1044	1271
			15m<z≤20m	h/d ≤ 0.5	All	995	1145
			15m<z≤20m	h/d > 0.5	All	1004	1167
			20m<z≤30m	h/d ≤ 0.5	All	949	1034
			20m<z≤30m	h/d > 0.5	All	957	1054
		10≤s≤30	0≤z≤5m	h/d ≤ 0.5	All	1070	1342
			0≤z≤5m	h/d > 0.5	All	1094	1418
			5m<z≤10m	h/d ≤ 0.5	All	1039	1259
			10m<z≤15m	h/d ≤ 0.5	All	963	1066
			10m<z≤15m	h/d > 0.5	All	987	1125
			15m<z≤20m	h/d ≤ 0.5	All	925	979
			15m<z≤20m	h/d > 0.5	All	883	885
			20m<z≤30m	h/d > 0.5	All	905	934
	TC3	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	1205	1634
			0≤z≤5m	h/d > 0.5	All	1216	1648
			5m<z≤10m	h/d ≤ 0.5	All	1205	1634
			5m<z≤10m	h/d > 0.5	All	1216	1648
			10m<z≤15m	h/d ≤ 0.5	All	1126	1499
			10m<z≤15m	h/d > 0.5	All	1136	1528
			15m<z≤20m	h/d ≤ 0.5	All	1067	1333
			15m<z≤20m	h/d > 0.5	All	1076	1359
			20m<z≤30m	h/d ≤ 0.5	All	1005	1169
			20m<z≤30m	h/d > 0.5	All	1013	1192
		5≤s<10°	0≤z≤5m	h/d ≤ 0.5	All	1205	1634
			0≤z≤5m	h/d > 0.5	All	1216	1648
			5m<z≤10m	h/d ≤ 0.5	All	1205	1634
			5m<z≤10m	h/d > 0.5	All	1216	1648
			10m<z≤15m	h/d ≤ 0.5	All	1126	1499
			10m<z≤15m	h/d > 0.5	All	1136	1528
			15m<z≤20m	h/d ≤ 0.5	All	1067	1333
			15m<z≤20m	h/d > 0.5	All	1076	1359
			20m<z≤30m	h/d ≤ 0.5	All	1005	1169
			20m<z≤30m	h/d > 0.5	All	1013	1192
		10≤s≤30	0≤z≤5m	h/d ≤ 0.5	All	1121	1485
			0≤z≤5m	h/d > 0.5	All	1121	1558
			5m<z≤10m	h/d ≤ 0.5	All	1149	1558
			10m<z≤15m	h/d ≤ 0.5	All	1047	1279
			10m<z≤15m	h/d > 0.5	All	1073	1351
			15m<z≤20m	h/d ≤ 0.5	All	993	1139
			15m<z≤20m	h/d > 0.5	All	1018	1202
			20m<z≤30m	h/d ≤ 0.5	All	934	1000
			20m<z≤30m	h/d > 0.5	All	958	1055

Wind Region B

WR	TC	Roof Pitch	Height	H/d	Zone	Proline 35	Proline 50
Wind Region B	TC2	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	962	1065
			5m<z≤10m	h/d ≤ 0.5	All	970	1085
			10m<z≤15m	h/d ≤ 0.5	All	874	874
			15m<z≤20m	h/d ≤ 0.5	All	885	890
			15m<z≤20m	h/d > 0.5	All	789	789
			20m<z≤30m	h/d ≤ 0.5	All	804	804
			20m<z≤30m	h/d > 0.5	All	744	744
					All	758	758
					All	690	690
					All	703	703
		5≤s<10°	0≤z≤5m	h/d ≤ 0.5	All	962	1065
			5m<z≤10m	h/d ≤ 0.5	All	970	1085
			10m<z≤15m	h/d ≤ 0.5	All	874	874
			15m<z≤20m	h/d ≤ 0.5	All	885	890
					All	789	789
					All	804	804
					All	744	744
					All	758	758
					All	690	690
					All	703	703
		10≤s≤30	0≤z≤5m	h/d ≤ 0.5	All	895	911
				h/d > 0.5	All	917	961
			5m<z≤10m		All	749	749
			10m<z≤15m		All	789	789
					All	677	677
					All	713	713
					All	638	638
					All	673	673
					All	592	592
					All	624	624
	TC2.5	0≤s<5°	0≤z≤5m		All	1005	1170
					All	1014	1193
					All	952	1040
					All	960	1060
					All	904	931
					All	912	949
					All	856	856
					All	872	872
					All	774	774
					All	788	788
		5≤s<10°			All	1005	1170
					All	1014	1193
					All	952	1040
					All	960	1060
					All	904	931
					All	912	949
					All	856	856
					All	872	872
					All	774	774
					All	788	788
		10≤s≤30			All	935	1001
					All	958	1056
					All	885	891
					All	908	939
					All	798	798
					All	841	841
					All	733	733
					All	773	773
					All	664	664
					All	700	700
	TC3	0≤s<5°			All	1052	1293
					All	1062	1318
					All	1052	1293
					All	1062	1318
					All	983	1116
					All	992	1137
					All	932	994
					All	940	1013
					All	874	874
					All	885	890
		5≤s<10°			All	1052	1293
					All	1062	1318
					All	1052	1293
					All	1062	1318
					All	983	1116
					All	992	1137
					All	932	994
					All	940	1013
					All	874	874
					All	885	890
		10≤s≤30			All	979	1105
					All	1003	1167
					All	979	1105
					All	1003	1167
					All	914	954
					All	937	1007
					All	851	851
					All	889	898
					All	749	749
					All	789	789

Wind Region C

WR	TC	Roof Pitch	Height	H/d	Zone	Proline 35	Proline 50
Wind Region C	TC2	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	771	771
			5m<z≤10m	h/d ≤ 0.5	All	786	786
			10m<z≤15m	h/d ≤ 0.5	All	634	634
			15m<z≤20m	h/d ≤ 0.5	All	646	646
			20m<z≤30m	h/d ≤ 0.5	All	574	574
					All	584	584
					All	541	541
					All	551	551
					All	502	502
					All	512	512
		5≤s<10°			All	771	771
					All	786	786
					All	634	634
					All	646	646
					All	574	574
					All	584	584
					All	541	541
					All	551	551
					All	502	502
					All	512	512
		10≤s≤30			All	661	661
					All	697	697
					All	544	544
					All	574	574
					All	493	493
					All	519	519
					All	465	465
					All	490	490
					All	432	432
					All	455	455
	TC2.5	0≤s<5°			All	847	847
					All	863	863
					All	754	754
					All	768	768
					All	675	675
					All	688	688
					All	621	621
					All	633	633
					All	563	563
					All	573	573
		5≤s<10°			All	847	847
					All	863	863
					All	754	754
					All	768	768
					All	675	675
					All	688	688
					All	621	621
					All	633	633
					All	563	563
					All	573	573
		10≤s≤30			All	726	726
					All	765	765
					All	646	646
					All	681	681
					All	580	580
					All	611	611
					All	533	533
					All	562	562
					All	483	483
					All	509	509
	TC3	0≤s<5°			All	905	934
					All	913	952
					All	905	934
					All	913	952
					All	807	807
					All	823	823
					All	721	721
					All	734	734
					All	634	634
					All	646	646
		5≤s<10°			All	905	934
					All	913	952
					All	905	934
					All	913	952
					All	807	807
					All	823	823
					All	721	721
					All	734	734
					All	634	634
					All	646	646
		10≤s≤30			All	800	800
					All	844	844
					All	800	800
					All	844	844
					All	692	692
					All	730	730
					All	618	618
					All	652	652
					All	544	544
					All	574	574

Wind Region D

WR	TC	Roof Pitch	Height	H/d	Zone	Proline 35	Proline 50
Wind Region D	TC2	0≤s<5°	0≤z≤5m	h/d ≤ 0.5	All	547	547
			5m<z≤10m	h/d ≤ 0.5	All	558	558
			10m<z≤15m	h/d ≤ 0.5	All	451	451
			15m<z≤20m	h/d ≤ 0.5	All	460	460
			20m<z≤30m	h/d ≤ 0.5	All	408	408
					All	416	416
					All	386	386
					All	393	393
					All	358	358
					All	365	365
		5≤s<10°			All	547	547
					All	558	558
					All	451	451
					All	460	460
					All	408	408
					All	416	416
					All	386	386
					All	393	393
					All	358	358
					All	365	365
		10≤s≤30			All	470	470
					All	495	495
					All	388	388
					All	408	408
					All	351	351
					All	370	370
					All	331	331
					All	349	349
					All	308	308
					All	324	324
	TC2.5	0≤s<5°			All	601	601
					All	612	612
					All	535	535
					All	545	545
					All	480	480
					All	489	489
					All	442	442
					All	450	450
					All	401	401
					All	408	408
		5≤s<10°			All	601	601
					All	612	612
					All	535	535
					All	545	545
					All	480	480
					All	489	489
					All	442	442
					All	450	450
					All	401	401
					All	408	408
		10≤s≤30			All	516	516
					All	543	543
					All	460	460
					All	484	484
					All	413	413
					All	435	435
					All	380	380
					All	400	400
					All	344	344
					All	363	363
	TC3	0≤s<5°			All	662	662
					All	674	674
					All	662	662
					All	674	674
					All	573	573
					All	584	584
					All	512	512
					All	522	522
					All	451	451
					All	460	460
		5≤s<10°			All	662	662
					All	674	674
					All	662	662
					All	674	674
					All	573	573
					All	584	584
					All	512	512
					All	522	522
					All	451	451
					All	460	460
		10≤s≤30			All	568	568
					All	599	599
					All	568	568
					All	599	599
					All	490	490
					All	519	519
					All	440	440
					All	464	464
					All	388	388
					All	408	408

DESIGN PARAMETERS

WIND PARAMETERS ARE IN ACCORDANCE WITH AS/NZS1170.2:2021. EARTHQUAKE AND SNOW LOADS ARE EXCLUDED TABLES ARE SUITABLE FOR BUILDINGS INCLUSIVE OF PARAMETERS REFFERED TO IN THE TABLES BELOW AND ASSUMPTION MANUAL ATTACHED.

REGION = A, B, C, D
IMPORTANCE LEVEL = 2
DESIGN LIFE = 25 YEARS
ANNUAL PROBABILITY = 1/200

Base Wind Speed

Region	A	B	C	D
Vr(m/s)	43	52	61	72

GENERAL

- SPAN TABLE TO BE READ WITH PARTRIDGE ASSUMPTIONS MANUAL.
- **REVIEW OF SUPPORTING BUILDING FOR STRUCTURAL ADEQUACY TO SUPPORT PANEL INSTALLATION BY OTHERS.**
- **REVIEW OF ROOF SHEETING FOR STRUCTURAL ADEQUACY TO SUPPORT PANEL INSALLATION BY OTHERS.**
- **THESE SPANS ARE ONLY APPLICABLE TO CONTINUOUS RAILS SUPPORTED BY A MINIMUM OF 4 A-FRAMES. SEE BELOW FOR SPAN REDUCTION FACTORS FOR RAILS SUPPORTED BY LESS THAN 4 A-FRAMES.**
- **REVIEW OF SOLAR PANEL STRUCTURAL CAPACITY BY OTHERS.**
- A-FRAMES TO BE FIXED TO THE SUB STRUCTURE OR ROOF SHEETING WITH THE QUANTITY AND TYPE OF SCREWS NOTED IN THE TABLE.
- ALL FIXTURES TO BE INSTALLED TO THE MANUFACTURERS SPECIFICATIONS.
- ALLOWANCE HAS BEEN MADE FOR A SOLAR PANEL SELF WEIGHT OF 0.15 kPa.
- 2 RAILS MINIMUM ARE TO BE USED FOR ALL WIND REGIONS. RAILS TO BE LOCATED 15%-25% OF THE PANELS LENGTH FROM THE EDGE.
- PANELS TO BE ORIENTATED IN THE PORTRAIT POSITION.
- ALL RAILS ARE TO BE JOINED WITH RAIL CONNECTORS DOCUMENTED IN SCHLETTER Pty Ltd TECHNICAL ARTICLE Z-14.4-639.
- ALL RAILS TO SPAN THREE FULL SPAN MINIMUM (BE SUPPORTED BY MIN 4 FASTENERS). CANTILEVERS TO BE A MAXIMUM OF 40% OF THE ADJACENT SPAN CAPACITY.
- ALL RAILS, CLAMPS AND FASTENERS TO BE INSTALLED IN ACCORDANCE WITH THEIR RELEVANT SCHLETTER INC. DOCUMENTATION.
- FASTENERS FIXED TO TIMBER MUST HAVE AN EDGE DISTANCE OF 5D, WHERE 'D' IS THE DIAMETER OF THE SCREW. THIS IS IN COMPLIANCE WITH EDGE DISTANCES OUTLINED IN AS1720.1:2010 SECTION 4.3.4.
- FASTENERS FIXED TO TIMBER FRAMING MUST USE A BREMICK VORTEX UNIVERSAL SCREW, WITH MINIMUM DIAMETER OF 6.2mm, AND A MINIMUM EMBEDMENT OF 35mm.
- TIMBER PURLINS MUST HAVE A MINIMUM WIDTH OF 10D WHERE D IS THE DIAMETER OF THE TIMBER SCREW.
- TIMBER PURLINS MUST HAVE A MINIMUM GRADE OF F7 AS DEFINED IN AS1720.1.
- FASTENERS FIXED TO COLD FORMED STEEL PURLINS MUST HAVE AN EDGE DISTANCE OF 3D WHERE 'D' IS THE DIAMETER OF THE SCREW. THIS IS IN COMPLIANCE WITH EDGE DISTANCES OUTLINED IN AS4600:2-18 SECTION 5.4.3
- STEEL PURLINS MUST HAVE A MINIMUM BASE METAL EQUAL TO THE VALUE SPECIFIED IN THE TABLE.
- STEEL PURLINS MUST HAVE A MINIMUM WITDTH OF 6D WHERE D IS THE DIAMETER OF THE STEEL SCREW.
- PARTRIDGE ENGINEERS Pty Ltd PREPARED DOCUMENTATION, PROJECT NUMBER 2021S0925, IS FOR THE EXCLUSIVE USE BY SCHLETTER AUSTRALIA PTY LTD ONLY.
- INSTALLATION VERIFICATION AND ASSOCIATED CERTIFICATION IS BY OTHERS.
- NO ALLOWANCE HAS BEEN MADE FOR HYDRAULIC, HAIL OR SNOW LOADING.
- INSTALLATION OUTSIDE THE SPECIFIC PARAMETERS REQUIRES SPECIFIC ENGINEERING ANALYSIS.
- INSTALLATIONS IN TERRAIN CATEGORY = 1.0, REDUCE EQUIVALENT TERRAIN CATEGORY 2.0 VALUES BY THE FOLLOWING;
  Region A = 18%
  Region B = 18%
  Region C/D = Specific engineering review required.
- REFER TO AS1170.2:2021 SECTION 4.2.1 FOR THE DETERMINATION OF TERRAIN CATEGORY.
- SOLAR PANELS HAVE BEEN CHECKED FOR WIND LOADINGS AND SHOULD BE CERTIFIED BY THE MANUFACTURER FOR THE VARIOUS SPANS AND WIND REGIONS.
- **ALL SPANS IN THE TABLE MUST BE MULTIPLIED BY A REDUCTION FACTOR BASED ON THEIR POSITION ON THE ROOF.**

REDUCTION FACTORS FOR RAILS SUPPORTED BY LESS THAN 4 FASTENERS

SPANS FROM THE ABOVE TABLE CANNOT BE USED ON CONTINUOUS RAILS THAT ARE SUPPORTED BY LESS THAN 4 A-FRAMES. WHERE A RAIL IS SUPPORTED BY LESS THAN 4 A-FRAMES THE SPANS IN THE TABLE SHOULD BE MULTIPLIED BY THE BELOW FACTOR.

RAIL SUPPORT REDUCTION FACTOR = 0.89

NOTE: RAIL MUST SPAN BETWEEN MIN TWO FASTENERS.

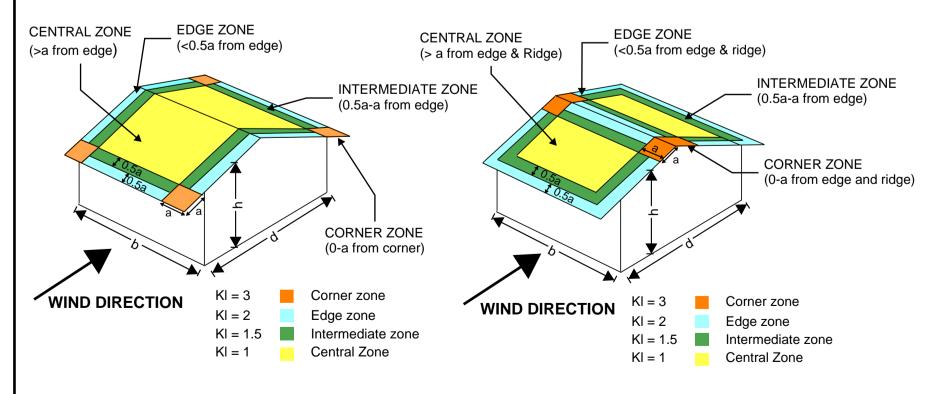---

REDUCTION FACTOR FOR SOLAR PANEL LOCATION ON ROOF

ALL A-FRAME SPACINGS IN THE ABOVE TABLE MUST BE MULTIPLIED BY ONE OF THE BELOW FACTORS BASED ON THEIR LOCATION ON THE ROOF.

CORNER ZONE: SPACINGS MUST BE MULTIPLIED BY 0.33
EDGE ZONE: SPACINGS MUST BE MULTIPLIED BY 0.5
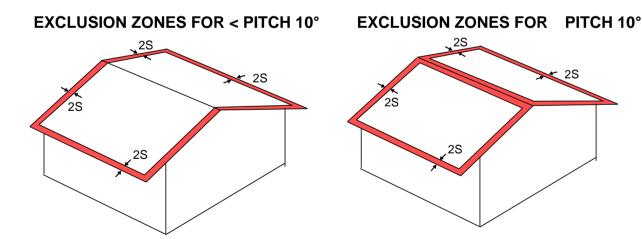INTERMEDIATE ZONE: SPACINGS MUST BE MULTIPLIED BY 0.66
CENTRAL ZONE: SPACINGS DO NOT NEED TO BE MULTIPLIED BY ANY FACTOR

WHERE a = MIN(0.2d, 0.2b) if h/d or h/b   0.2, or 2h if h/d and h/b < 0.2

ROOF ZONES FOR ROOVES WITH PITCHES < 10°
ROOF ZONE FOR ROOVES WITH PITCHES 10°

CENTRAL ZONE (>a from edge)
EDGE ZONE (<0.5a from edge)
INTERMEDIATE ZONE (0.5a-a from edge)
CORNER ZONE (0-a from corner)

CENTRAL ZONE (> a from edge & Ridge)
EDGE ZONE (<0.5a from edge & ridge)
INTERMEDIATE ZONE (0.5a-a from edge)
CORNER ZONE (0-a from edge and ridge)

WIND DIRECTION

	Kl = 3	Corner zone
	Kl = 2	Edge zone
	Kl = 1.5	Intermediate zone
	Kl = 1	Central Zone

SOLAR PANEL EXCLUSION ZONE & MOUNTING RESTRAINTS

EXCLUSION ZONES FOR < PITCH 10°
EXCLUSION ZONES FOR PITCH 10°

PANELS MUST NOT BE INSTALLED WITHIN A DISTANCE OF 2S FROM THE ROOF EDGE WHERE S IS THE GAP BETWEEN THE UNDERSIDE OF THE PANEL AND THE ROOF SURFACE (ROOF EDGE INCLUDES RIDGES WITH PITCH 10)

THE EXCLUSION ZONE SHOWN ABOVE MUST BE MIN 200mm.

THE GAP BETWEEN THE UNDERSIDE OF THE PANEL AND THE ROOF SURFACE MUST BE MIN 50mm AND MAX 300mm

TERRAIN CATEGORY DEFINITIONS

AS1170.2 :2021 CLAUSE 4.2.1

TC1 - VERY EXPOSED OPEN TERRAIN WITH VERY FEW OR NO OBSTRUCTIONS, AND ALL WATER SURFACES

TC2 - OPEN TERRAIN, INCLUDING GRASSLAND, WITH WELL SCATTER OBSTRUCTIONS HAVING HEIGHTS GENERALLY FROM 1.5m TO 5m, WITH NO MORE THAN TWO OBSTRUCTIONS PER HECTARE

TC2.5 - TERRAIN WITH SOME TREES OR ISOLATED OBSTRUCTIONS, TERRAIN IN DEVELOPING OUTER URBAN AREAS WITH SCATTERED HOUSES, OR LARGE ACREAGE DEVELOPMENTS WITH MORE THAN TWO AND LESS THAN 10 BUILDINGS PER HECTARE

TC3 - TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING HEIGHTS GENERALLY FROM 3m TO 10m. THE MINIMUM DENSITY OF OBSTRUCTIONS SHALL BE ATLEAST THE EQUIVALENT OF 10 HOUSE-SIZE OBSTRUCTIONS PER HECTARE

TC4 - TERRAIN WITH NUMEROUS LARGE, HIGH (10m TO 30m TALL) AND CLOSELY SPACED CONSTRUCTIONS, SUCH AS LARGE CITY CENTRES AND WELL-DEVELOPED INDUSTRIAL COMPELXES.

ALTERATIONS TO SPAN TABLES FOR SOLAR PANEL SIZE

THIS SPAN TABLE IS FOR SOLAR PANELS OF SIZE 2100x1100mm. EACH RAIL SUPPORTS A SOLAR PANEL WIDTH OF 1050mm. THE SPACINGS SHOWN IN THE TABLES HAVE BEEN CALCULATED ASSUMING EACH PANEL IS SUPPORTED WITH TWO RAILS. THE SPANS IN THE TABLE CAN BE ALTERED FOR LARGER & SMALLER SOLAR PANELS USING THE FOLLOWING EQUATIONS.

FOR SOLAR PANELS WITH WIDTH LARGER THAN 2100mm

$$Span * \frac{2100}{y}$$

Where y = NEW SOLAR PANEL WIDTH IN mm

FOR SOLAR PANELS WITH WIDTH SMALLER THAN 2100mm

$$Span * \sqrt{\frac{2100}{y}}$$

WHERE y = NEW SOLAR PANEL WIDTH IN mm

ALTERATIONS TO SPAN TABLES FOR ADDITIONAL RAILS

THIS SPAN TABLE IS FOR SOLAR PANELS OF SIZE 2100x1100mm. EACH RAIL SUPPORTS A SOLAR PANEL WIDTH OF 1050mm. THE SPACINGS SHOWN IN THE TABLES HAVE BEEN CALCULATED ASSUMING EACH PANEL IS SUPPORTED WITH TWO RAILS. THE SPANS IN THE TABLE CAN BE ALTERED FOR ADDITIONAL RAILS USING THE FOLLOWING EQUATION.

$$Span * \sqrt{\frac{1050}{\left(\frac{2100}{n}\right)}}$$

WHERE n = THE TOTAL NUMBER RAILS SUPPORTING THE PANEL. RAILS MUST BE SPACED SO THAT THEY SUPPORT EVEN WIDTHS OF THE PANEL.