



Page

I. About us	03-07
2. Processes	08-15
3. Flexible solar panels	
3. Designs	
4. Brandburn	42
8. Social Media	43

Our vision is to create innovative and architectural solar solutions. Using our 32 years experience in the tensile industry we believe we are well placed to reaslise our vision.

We have sourced a 3.5mm thick flexible solar panel that allows us the freedom to create architectural tensile solutions which provide not only solar power but also shade and a waterproof footprint where required.



2022 by the numbers 30 years exprience WORLD COUNTRIES AND CAPITALS 1 000's of projects ARCTIC OCEAN 10 000's of structures ARCTIC OCEAN 47 countries RUSSIAN 88 standard designs 10 000's of engineering -UNITED STATE NORTH PACIFIC & design hours PACIFIC OCEAN NORTH ATLAN OCEAN OCEAN AUSTRA INDIAN OCEAN SOUTH PACIFIC OCEAN SOUTH ATLANTIC OCEAN SOUTHERN OCEAN 35 Countries visited - design & supplied structures 12 Countries not visited - design & supplied structures 17 Countries visited - vacation (excluding work travel)



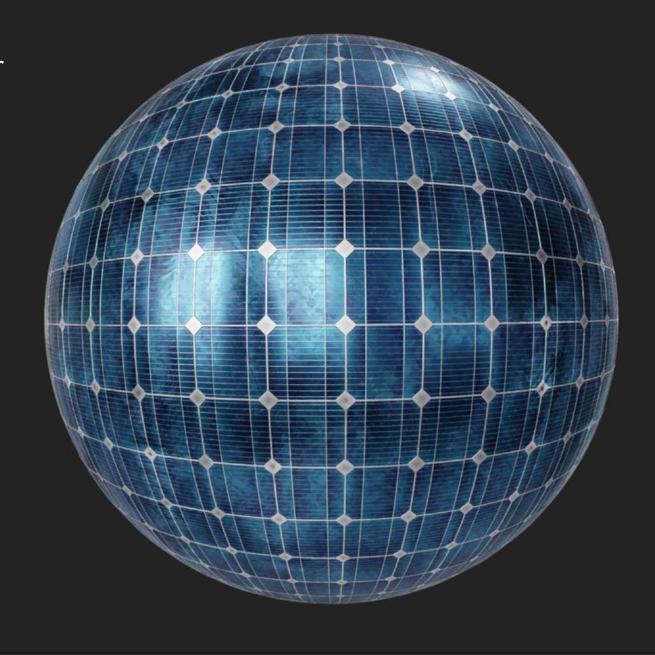


Solaris Architectural Solar has a large range of standard design tensile structures to suite most individual requirements in the commercial, hospitality and private sector.

Solaris Architectural Solar business partners have over the past 32 years developed a great deal of expertise in the design, manufacture & installation of custom and standard tensile structures

Our in-house project engineers have a wealth of experience in the design and development of custom designs for extreme high wind areas as well as the South African Standards. We use only the highest quality imported and locally produced fabrics.

Our structures are designed be innovative and organic in design and functionality.



FINDING YOU IN EVERY DETAIL

When deciding on the perfect design for your needs there are a number of criteria that need to be taken into account.

Amongst these is how much power we need to provide. What is the expected lifespan of the structure. Do you require the structure to provide shade, hail and or rain protection. What is the general layout of the area we have at our disposal.



Function of the structure to provide shade or rain protection. What weather conditions can we expect & what weather conditions need to be taken into account in the design.

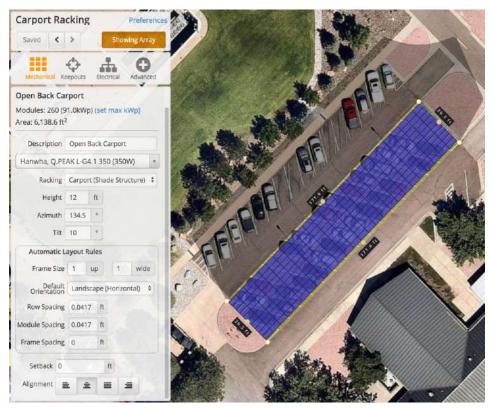


Prefered design. There are many designs that we can offer in both standard and bespoke designs. We work with you to determine the best fit for your requirements.

Do you require an engineer's sign off on the project or do you just require the structural analysis report that we routinely offer to our clients for each project we undertake.

Helioscope

We use Helioscope a web-based sales and design tool for solar professionals with the power to completely reshape the proposal generation process. From its robust 3D design engine and bankable energy yield simulator to its detailed financial calculator and drag-and-drop proposal editor.

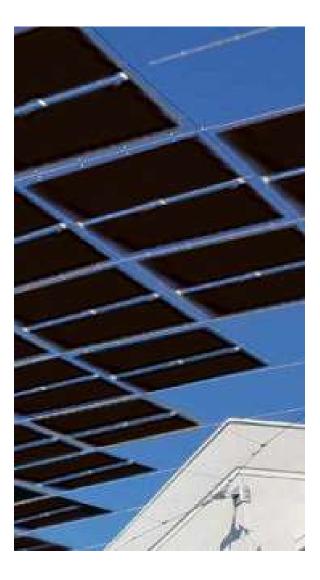


\bullet : $\times \checkmark f_x$ Q37 К М Α В С D Е F G Н I. J L N 1 Average of AC Power 1 2 3 4 5 6 7 8 9 10 11 12 13 Time **PV** Power Load Battery Power Analyses 2 00:00 0,00 7,69 -7,69 20,00 3,08 -3,08 01:00 0,00 02:00 0,00 3,08 -3,08 03:00 0,00 7,08 -7,08 04:00 0,00 3,08 -3,08 15,00 05:00 0,00 3,69 -3,69 06:00 0,12 9,61 -9,49 07:00 4,27 3,69 0,58 10.00 08:00 9,22 3,69 5,53 09:00 13,25 7,48 5,78 10:00 15,92 3,01 12,91 5,00 14 11:00 16,40 3,01 13,39 15 12:00 16,71 7,01 9,70 16 13:00 16,23 3,01 13,22 0,00 17 14,52 14:00 3,01 11,52 00:00 01:00 02:00 03:00 04:00 05:00 05:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 18 19 15:00 11,57 7,01 4,57 16:00 7,70 3,01 4,70 20 -5,00 17:00 2,99 4,93 -1,94 21 18:00 0,04 7,69 -7,65 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 19:00 0,00 3,69 -3,69 20:00 3,69 -3,69 0,00 -10,00 21:00 0,00 7,69 -7,69 22:00 0,00 3,69 -3,69 23:00 0,00 3,69 -3,69 PV Power Load - Battery -15,00 Grand Total 128,94 116,27 12,67 architectural solar (+) 8 The Bean Unit Helio 1 Sum Helio 2 Sum Sheet5

PEAK POWER REQUIRED



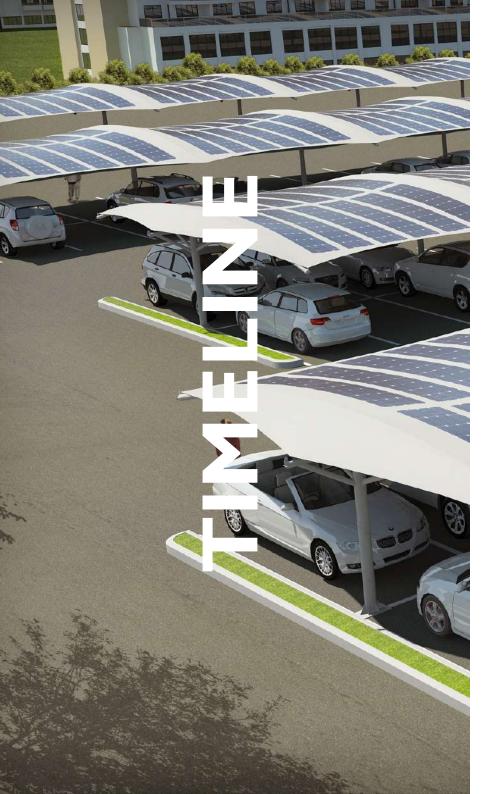
Services - conceptual design - 3D model - renders - layout drawing - structural analysis (for your region) -fabrication drawings - foundation layouts - steel cutting list - hardware list - membrane pattern cable detail & lengths - assembly instructions - Solar requirements



INSIST ON A STRUCTURAL ANALYSIS



SOLARIS Architectural Solar



DESIGN

ANALYSIS



In general the design process takes about 7 working days. This includes the layout drawings, renders and membrane patterns.

Structural analysis is conducted by country and by region in accordance with the required wind load codes of the region. This process can take up to a week depending on the complexity of the design.

FABRICATION

INSTALLATION



Fabrication process takes about 4-6 weeks. This will includes the costing, procurement, receipt of materials, fabrication & coating.



The time on site is totally dependant on the complexity of the structure. Site visits are normally broken up into foundations and the installation of the actual structure.



3D

The Solaris Architectural Solar panels can be curved into 3D shapes.

Designs

2 We offer our Solaris Architectural Solar solutions in standard designs as well as architectural custom designs.



3

Accreditations

Electrical Contractor in terms of regulation 6(4) of the Electrical Installation Regulations PQRS Accredited Solar PV Training **ECB** Listed Contractor





Flexible Solar Panels

Weight - Panels weigh 2.9kgs per sqm (less than 30% of traditional glass panels)

Thickness - Thickness I.8mm

Flexible - Smallest bending radius of 0.3m, no cell cracks, no power loss

Hail - Can ensure hail strikes without cell cracks or power loss

Easy-to-install - No need for PV support bracket, modules can be directly bonded to installation surface by weather-resistant glue Aesthetics - Module's surface and texture can be customized to meet aesthetic requirements

GlareIntensityisLessThan10% of Traditional Glass Modules

Super Strong Resistance to Cell Cracks After Sharp Bending

Quality Assurance - TUV Nord Cert GmbH





Tier one panel



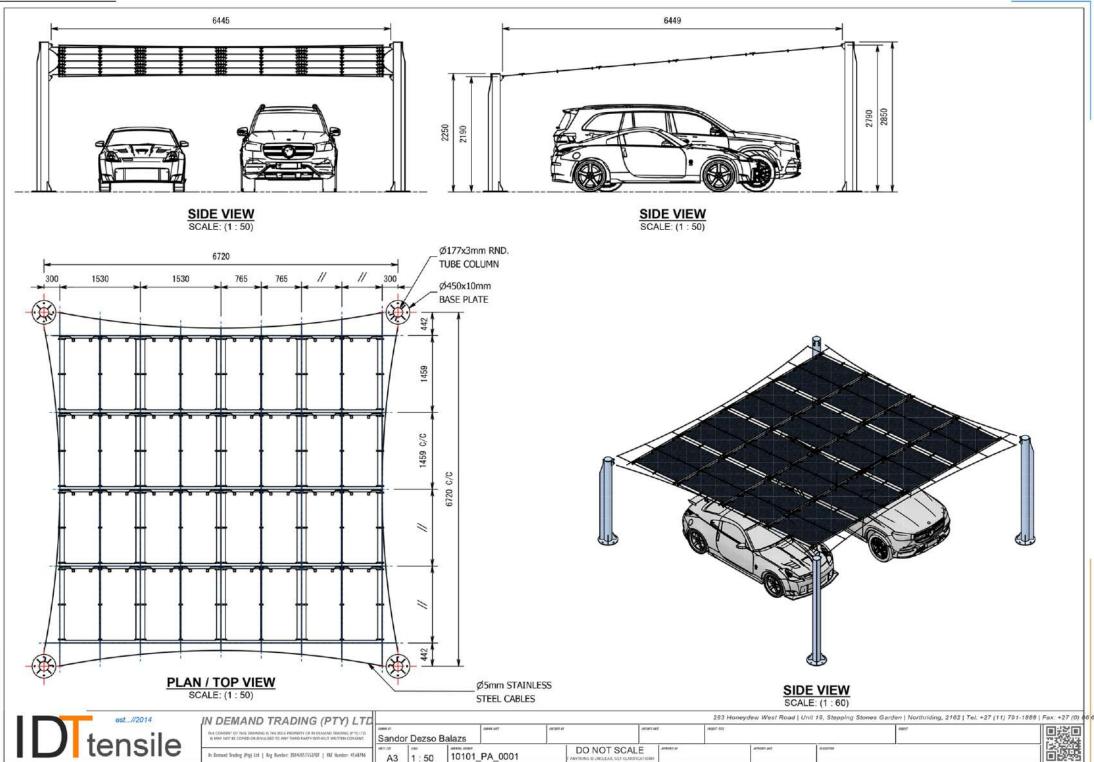
PRODUCT SPECIFICATION



Module type	2		000A-460	000A-465	000A-470	000A-475	000A-480	
Peak-power	PMPP	[W]	460	465	470	475	480	
Power-tolerance	0~+3%	[W]	0~5W	0~5W	0~5W	0~5W	0~5W	
Peak-voltage	VMPP	[V]	38.24	38.37	38.5	38.63	38.76	
Peak-current	IMPP	[A]	12.02	12.11	12.2	12.29	12.38	
Peak-current voltage Voc [V]			45.4	45.53 45.66		45.79	45.82	
Short-circuit current	Isc	[A]	12.54	12.62	12.7	12.78	12.86	
Fuse-current		[A]			20			
Maximum–system voltage	IEC/UL	[v]		100	00/1500V DC (I	EC)		
Size		2250*1130m	m (+2/-2)					
Front-plate material Fluorine membrar			front plate	Junction-box		Triad Junction box IP68		
Jointing-material POE poly			əf	Output-ter	minal	MC4		
Backboard-material Reinforceme			aterials	Cell		Monocry	stal PERC	
thickness 1.8 r				Quality-as:	surance		warranty wer warranty	
weight 7.62				Panel-cert	ification	IEC 61646,	IEC 61730	
Single-area we	ight	3.0 kg/m2	2					
NOCT			[°C]	45+	2°C	C	3	
Temperature-coefficient of PMPP			[%/°C]	-0.37		- 0	1010	
Temperature-coefficient of Voc			[%/°C]	-0.28			endure hai es without	
Temperature-c	oefficie	nt of Isc	[%/°C]	0.0	5		racks and wer loss	

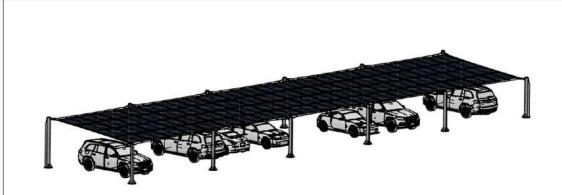
DESIGNS





SOLARISPORT SA





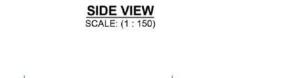


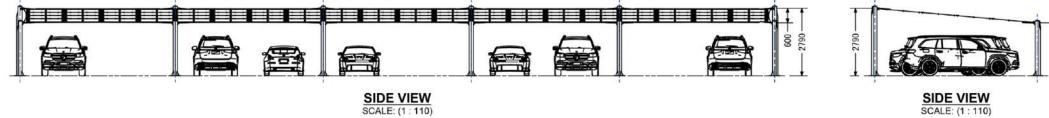
Max Rated Power: Tolerance: Normal Operating Cell Temp: Operating Temprature: Application Class:

25.6 Kilowatts +/- 3% 47°C | +/- 2°C -40°C to 85°C Class A

innovative

solar products hospitality





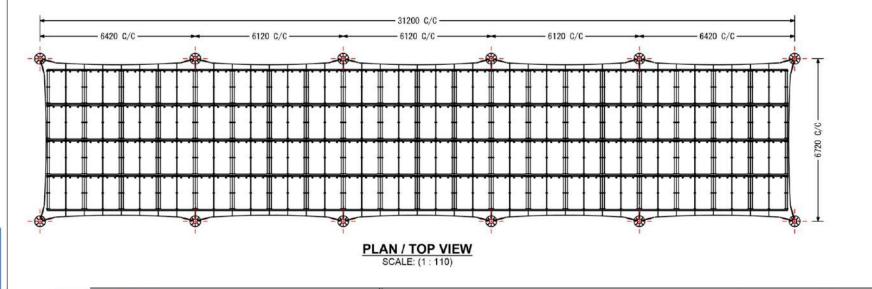


-2190 -

hotels coffee shops

restaurants

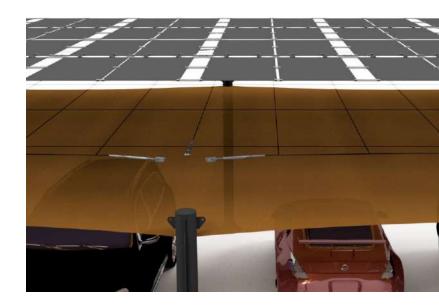




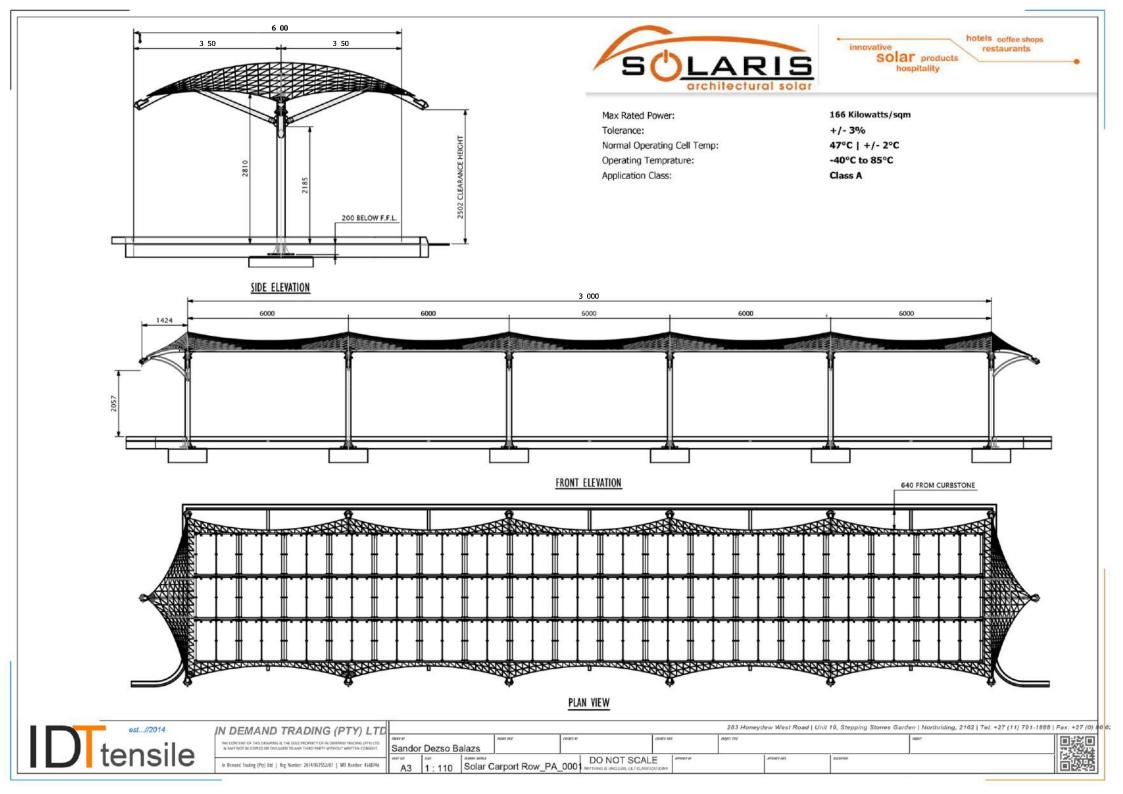
est//2014	IN DEMAND TRADING (PTY) LTD		283 Honeydew West Road Unit 19, Stepping Stones Garden Northriding, 2162 Tel: +27 (11) 791-1888 Fax: +27 (0								
tonoilo	THE CONTENT OF THIS DRAWING IS THE SCIE PROPERTY OF IN DRAWING TRADBUG (#TY) ITO	26043 27	Dezso Balazs	DAVAN DAV	awing 11	intere nor	ANDRES WAR			weak?	
tensile	In Demand Trading (Pty) Ltd: Reg Number: 2014/057552/07 VAI Number: 4568746	A3	1:110 Solar C	arport Row_PA_		E MINUTAR		ANNYARIS JANY	2013/07/010		

SOLARISPORT MU



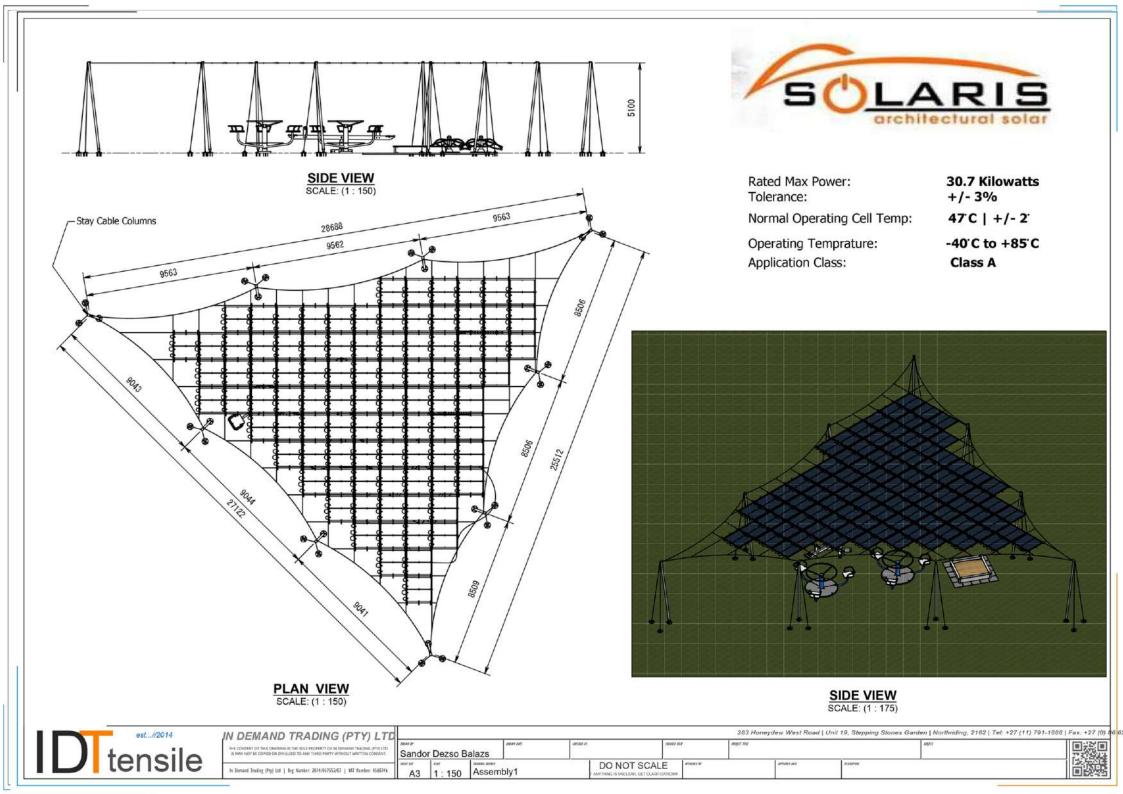




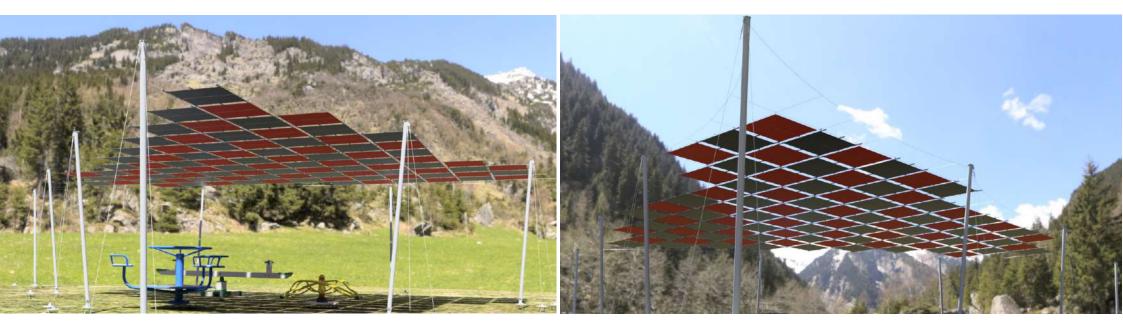


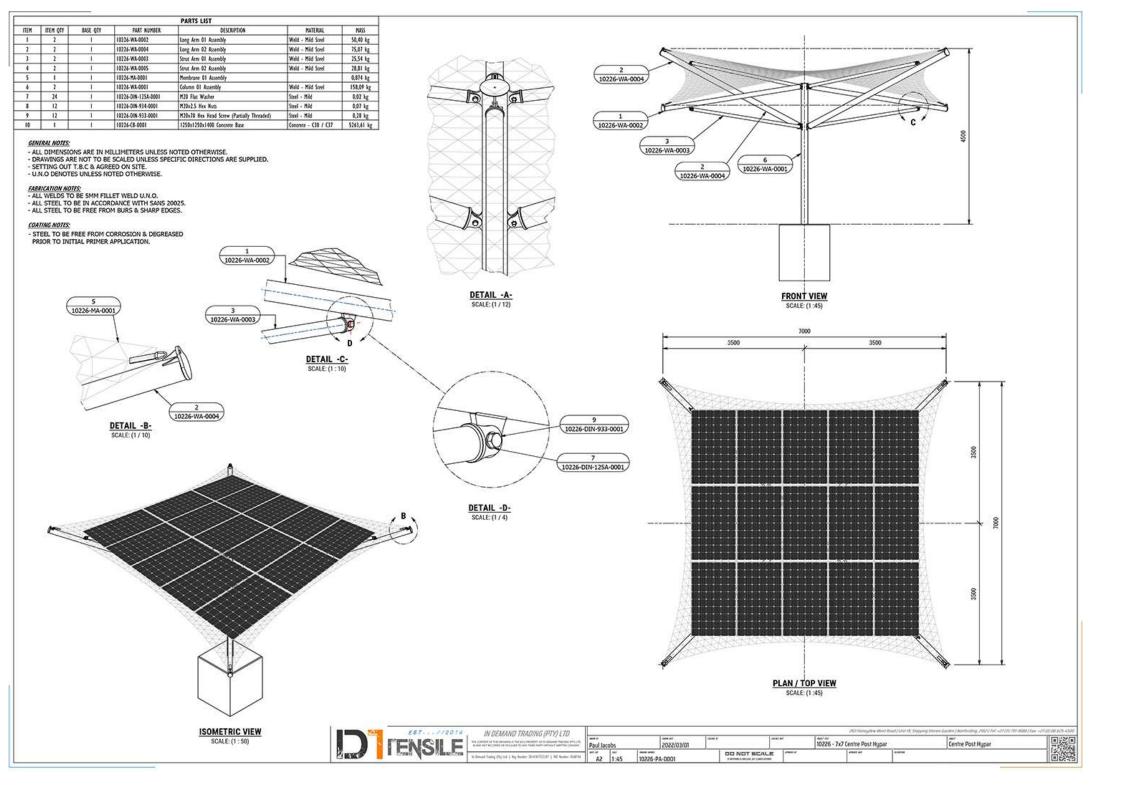
SOLARIS BARRELPORT MU





FREE STANDING





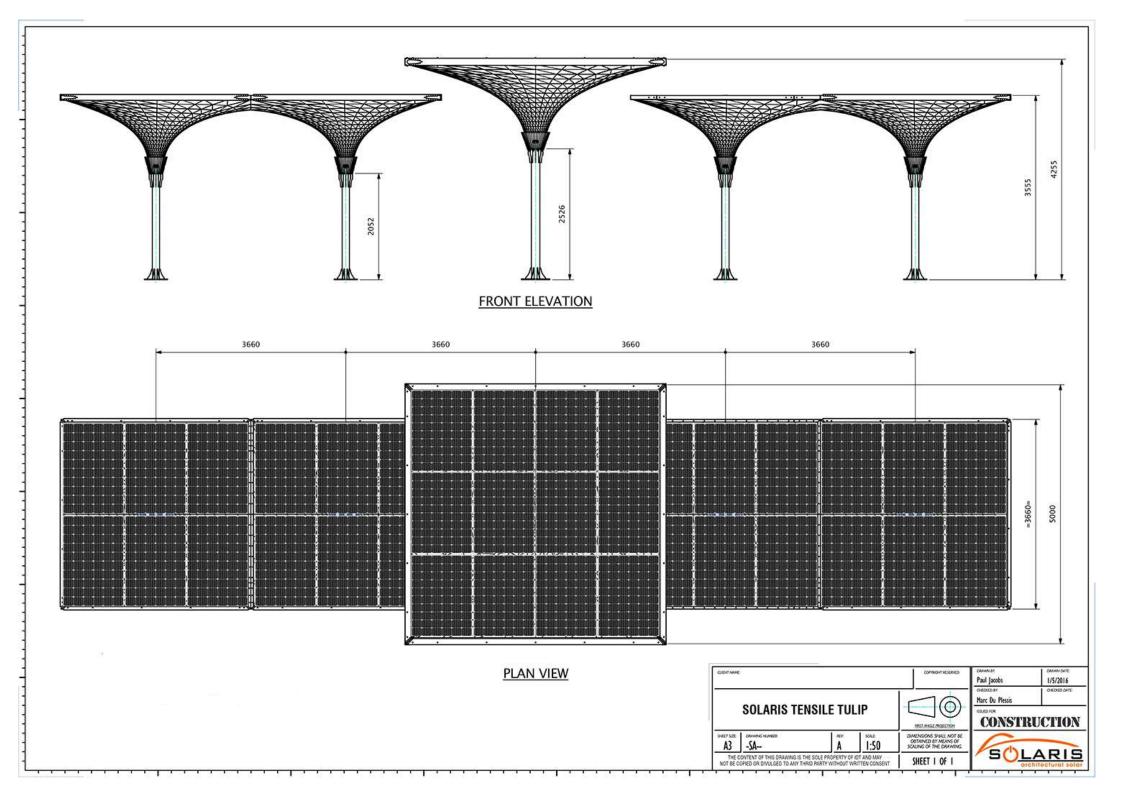
Centre Post Hypar



1122 1022				PARTS LIST				00.004.6-	110 -/	
ITEM II	ITEM QTY	BASE QTY	PART NUMBER	DESCRIPTION	MATERIAL	MASS	AREA 11541406.695 mm^2	MA55 29.024 Kg	DENSITY 1.148 g/cm^3	VOLUME 25808984.370 mm^
1	1	1	10054-GRID-0001		Generic	0.00 kg				
2	2	1	10054-WA-0001	Membrane 01 Assembly		8.229 kg				
3	2	1	10054-WA-0002	Membrane 01 Assembly		6.583 kg				
4	1	1	10054-MA-0001	Membrane OI Assembly		0.000 kg				
		L.		6500		A	-		DE VIEW2 ALE: (1 : 65)	
				<u>VIEW A-A</u> <u>SCALE 1 : 65</u>					7500	<u>→</u>
							į			0200 1000
b) b) ra			VSILE	IN DEMAND TRADING (PTV) L1 The contribution for this GALAWIG is the SOLE RECORD WE GALAWIG TRADING afford in A MARK REPORTED OF DALLEGED AND TRADING AT UNIT-OUT INTETILS CONCIDENT In Demand Trading (Pty) Lid Acg Needler: 2014/03/353/27 333 Needler:	a.	SCALE 1:65 SIZE A3 REV SHT# 1	PROJECT 10054 - Nedbank DESCRIPTION Membrane 01 Ass SUBJECT		FIRST ANGLE PROJECTION FIRST ANGLE PROJECTION DI DIDT SCALE J ANTING S BALLAL AT CAMPONENT # 101 DRAWN BY PAIL CHECKED BY APPROVED BY	

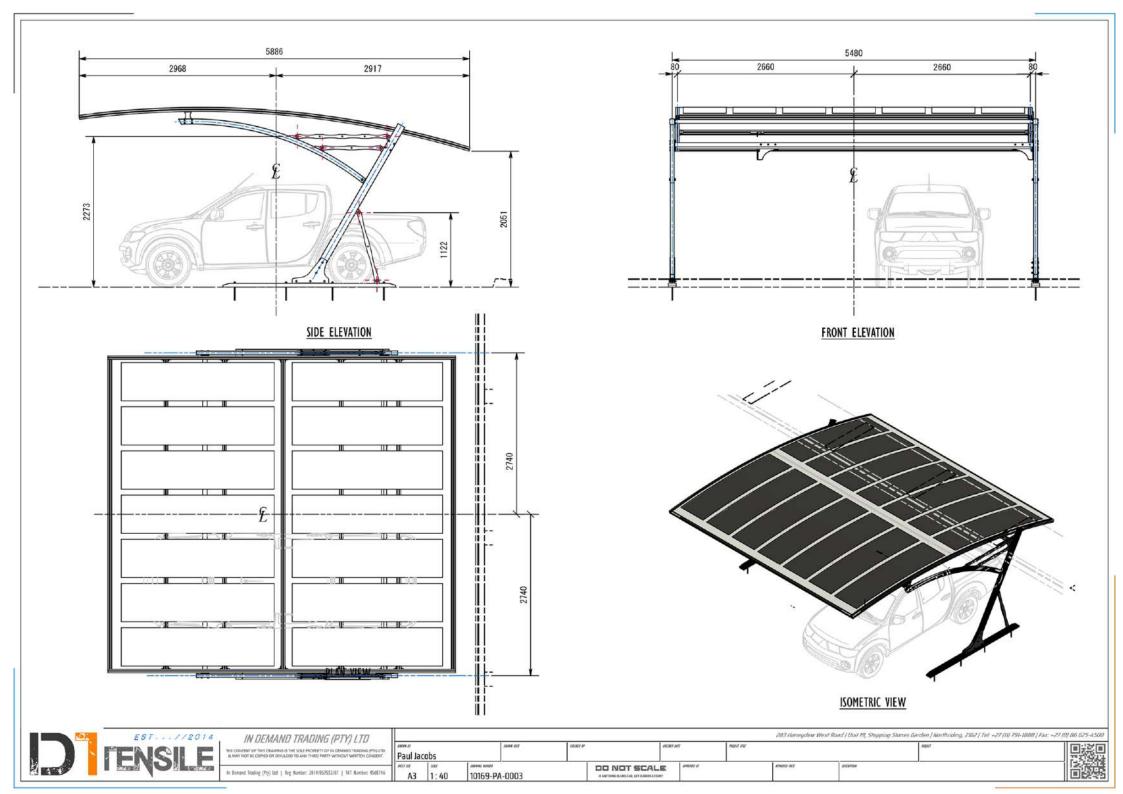
Tensile Sail





Charging Stations



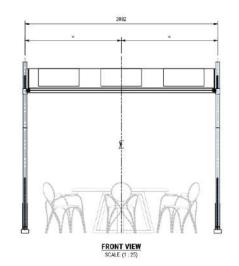


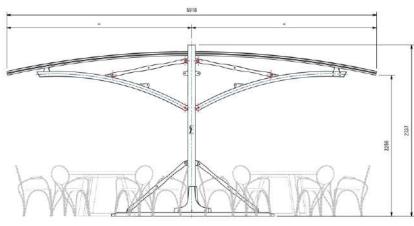
BARREL ARCH



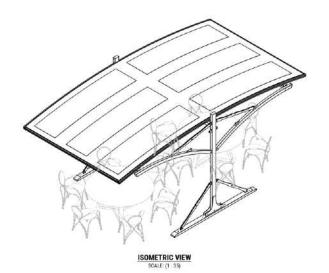


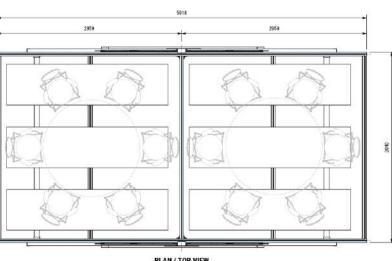
RESTAURANT





SCALE: (1 . 25)









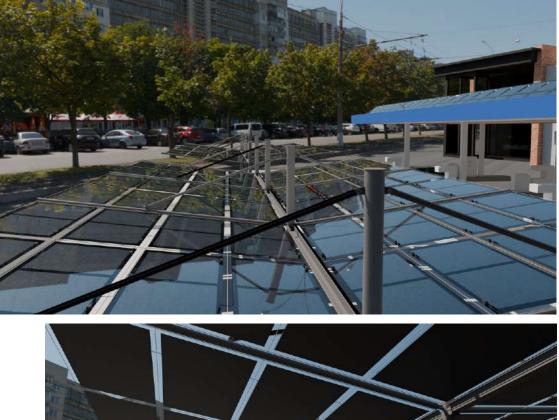
MARQUEES





FORECOURTS

SOLARIS Architectural Solar









CARAVANS & CAMPERS









padel court enclosures with solar





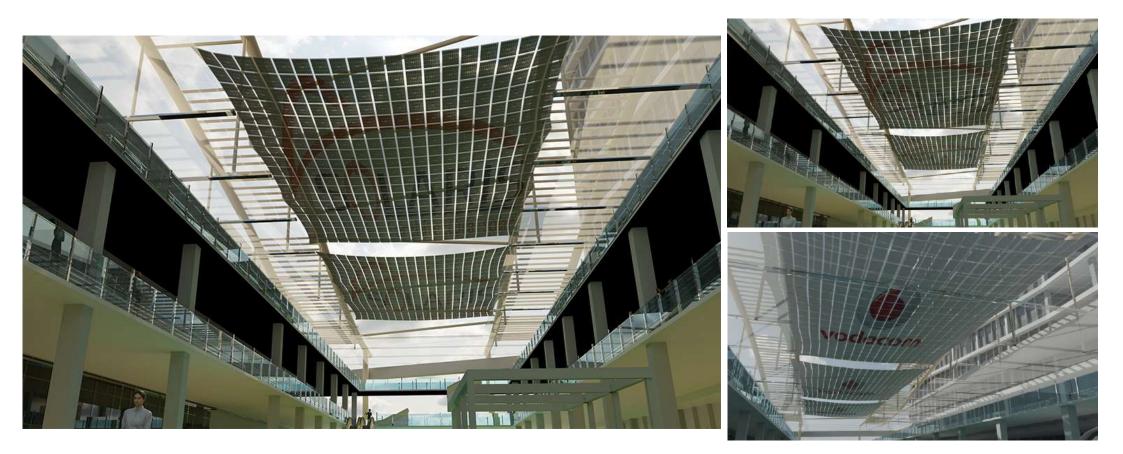
Flexible Solar Panels Dimensions: 2 250 x 1 130 x 1.8mm Rated Power (Watt): 470 Warranty: 10 years Life Expectancy: 25 years



THE FUTURE IS HERE

idtcustomawnings.com/solaris

BRANDING



idtcustomawnings.com/solaris sales@indemandtrading.co.za +27 (0)82 446 0212