

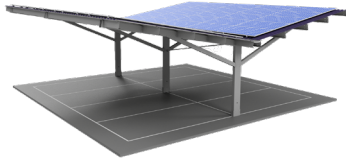
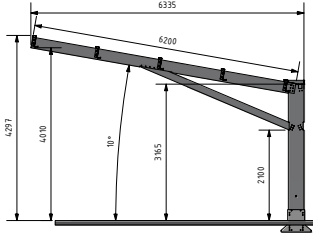
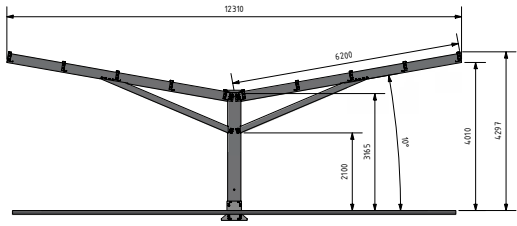
Datasheet **ValkTop**

The concept

A modular carport system supplied with the mounting system for trapezoidal roofs. For multi-purpose use of parking lots.

Technical specifications

- Suitable for standard panel sizes on a 10° roof pitch.
- Built up using 7 standard components for efficient installation.
- Integrated system adjustability of 80 mm per two parking bays.
- Corrosion-resistant components made of XCarb® sustainable steel for minimal carbon footprint.
- Applicable to all standard foundation methods.

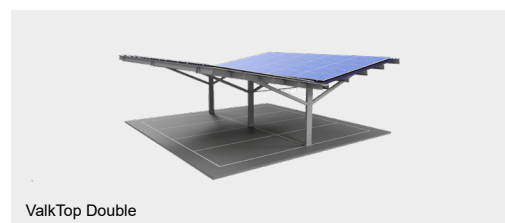
ValkTop Single		ValkTop Double	
			
			
Min. clearance	2.1 meter	Min. clearance	2.1 meter
Max. clearance	4.0 meter	Max. clearance	4.0 meter
Roof length	6.0 meter	Roof length	6.0 meter
Parking space width	2.5 meter	Parking space width	2.5 meter
Total weight (P = 4)	2082.99 kg	Total weight (P = 8)	3487.60 kg

Design criteria

- Consequence class: CC1
- Wind loadings: 29.5 m/s (The Netherlands)
- Snow loadings: 0.7 kN/m² (The Netherlands)
- Material: Magnelis® steel

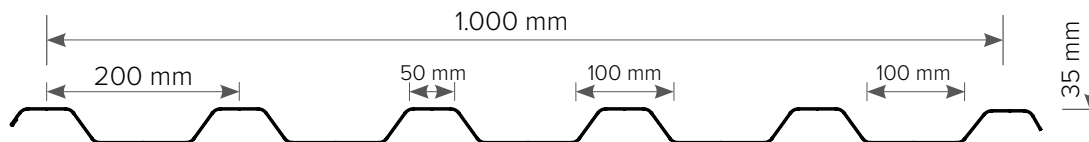
System characteristics

- Quick and easy installation of system due to standard dimensions and components.
- Supplied with steel trapezoidal roof panels, mounting system for solar panels, gutters for rainwater drainage and aesthetic frame.
- 5 rows of panels in landscape orientation per roof deck (at a panel width of panel width of 1134 mm).
- Equipped with 0.55 mm thick steel trapezoidal roof panels.



Datasheet **ValkTop**

Technical data for steel roof panels



Foundations

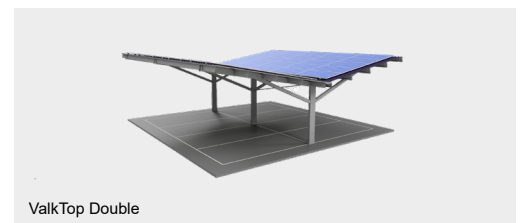
- Full reports for reactional forces can be provided on request.
- Soil investigations are a requirement to determine the soil composition and structure.
- Final foundation design is the responsibility of the client and geotechnical specialist.

Refer to the data below for an estimate of the reactional forces for foundation works:

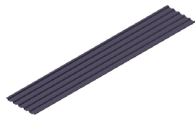
		Reactional forces			
		Max. pressure (kN)	Max. pull (kN)	Max. hor. (kN)	Max. moment (kN)
Windspeed 29,5, country	Double	76.82	58.35	12.51	162.79
Windspeed 29,5, country	Single	39.23	29.11	12.64	139.76
Windspeed 27, country	Double	76.71	44.23	10.61	133.87
Windspeed 27, country	Single	39.23	21.86	10.49	111.53
Windspeed 24,5, country	Double	76.71	44.23	10.61	108.45
Windspeed 24,5, country	Single	39.23	15.07	8.55	111.53

Article information

Article number	791000	790000
Description	ValkTop – Foundation base plate	ValkTop – Column L=3410 mm
Image		
Weight [Kg]	19.436	153.222
Article number	790010	790020
Description	ValkTop – Brace L=3910 mm	ValkTop – Rafter L=6200 mm
Image		
Weight [Kg]	52.321	112.420



Datasheet **ValkTop**

Article number	790030	790031
Description	ValkTop – Saddle Z-purlin	ValkTop – Z-purlin L=4855 mm
Image		
Weight [Kg]	4.665	49.841
Article number	790032	790050
Description	ValkTop – Z-purlin L=955 mm	ValkTop – Trapezoidal roof sheet L=6000 mm
Image		
Weight [Kg]	10.210	34.200

Calculations

Projects for the ValkTop carport system are calculated with the help of our project team according to the applicable standards and Eurocodes. For more information, please contact Van der Valk Solar Systems.