

ZEN Thermic

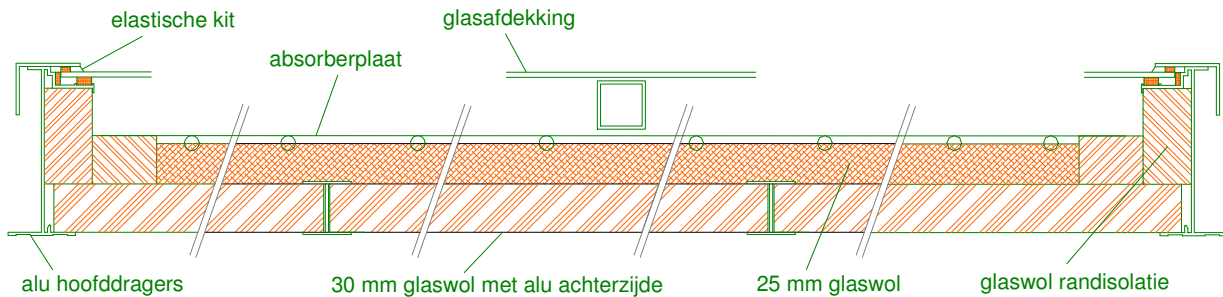
DATA Sheet: Solar collector

ZEN technology

- collector is developed and produced by ZEN Renewables ever since 1988.
- ZEN Thermic is developed to be used in combination with ZEN Drain Back system
- Suitable for any application: small to large domestic hot water systems, industrial process, swimming pool heating, large collective systems.
- Easy to install with ZEN flashing sets or flatroof systems
- Easy to transport.

Guaranties and certificates

- Tested by TNO- Netherlands, TÜV, ISFH, ITW-Germany, TIL Denmark
- Guarantee: 10 years

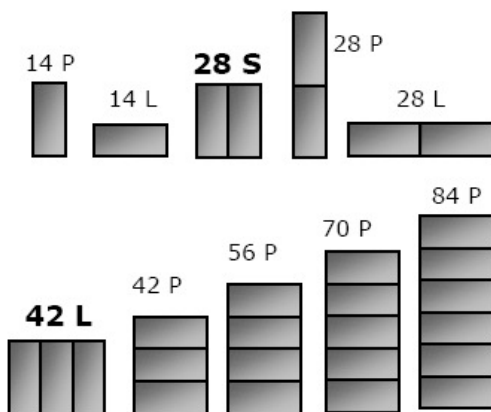


ZEN Thermic

DATA Sheet: Solar collector

- **ABSORBER PLATE:**
Copper sheet and tube bonded over the full length of the pipe in an automated process. Selectively coated surface layer: absorption coefficient = 0.96; emission coefficient = 0.08-0.12. Interchangeable by means of compression fittings, after removal of glass cover
- **GLASS COVER:**
Low iron, tempered, low reflection glass, 3.2mm. Removable with black aluminium frame cover. Light transmittance = 91%
- **COLLECTOR BOX:**
Heavy aluminium box section with black anodised aluminium glass cover frame. A temperature sensor pocket is located at the top back side of the collector
- **INSULATION:**
All insulation materials are 100% CFC-free
- **FLUID CONTENT:**
0.5 litre/m² of collector area
- **FLOW RATE:**
0.015 litres per second per m² of collector area

- **PRESSURE DROP:**
4 kPa at a flow rate of 0.04 litres per second (Thermic 28)
- **THERM. CAPACITY:**
1750 J/K per m² collector area
- **TEST PRESSURE:**
6 Bar
- **FIXING METHODS:**
(1) Roof integrated using flashing kit; (2) Roof mounted using brackets on top of the tiles; (3) Flat roof mounted with A-frames and ballast or roof fixings
- **EFFICIENCY:**
 $\eta = 0.7847 - 3.4746 T^* - 0.01572 G T^*2$
- **TESTED BY:**
TNO- The Netherlands, TÜV, ISFH, ITW - Germany, SPF-Switzerland, CSTB France, TIL- Denmark
- **LIFE EXPECTANCY:** min. 25 to 30 years
- **APPLICATIONS:** small to large domestic hot water systems, industrial process and swimming pool heating
- **GUARANTEE:**
5 years



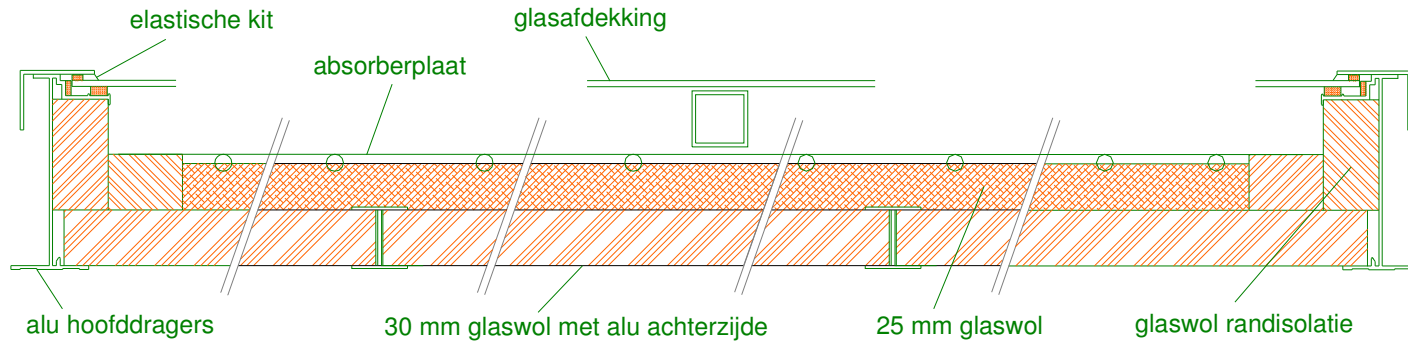
S = standaard type
P = portrait
L = landscape

Model	height	width	weight	aperture
Thermic	mm	mm	kg	area m ²
14 P	1776	910	31	1.38
14 L	910	1776	31	1.38
28 S	1776	1751	55	2.75
28 P	3491	910	60	2.76
28 L	910	3491	60	2.76
42 L	1776	2596	84	4.12
42 P	2596	1776	84	4.12
56 P	3433	1776	117	5.50
70 P	4276	1776	146	6.88
84 P	5119	1776	175	8.26
All collectors 105mm thick				

Elastic kit

absorber plate

glass cover



Aluminium frame

30 mm CFC free insulation with
Aluminium back cover

25 mm CFC free insulation

30 mm CFC free side insulation