

The **WAF** Solar Thermal Facade - For a bright future

Patent number: AT 509.724 D 20 2011 050 389.5 CH 703.314



Technical data

Dimensions

Overall dimensions	2000 * 1200 * 50 mm
Absorber area	2,4 m ²
Absorber thickness	0,8 mm
Absorber material	Aluminium
Heat transfer pipe	Aluminium
Weight	10 kg/m ²

Solar varnish coating

Degree of absorption	86% (anthracite grey)
Degree of emission	36% (anthracite grey)

Colours

Anthracite grey (RAL 7016)
 Chocolate brown (RAL 8017)
 Special colours on request

Insulation

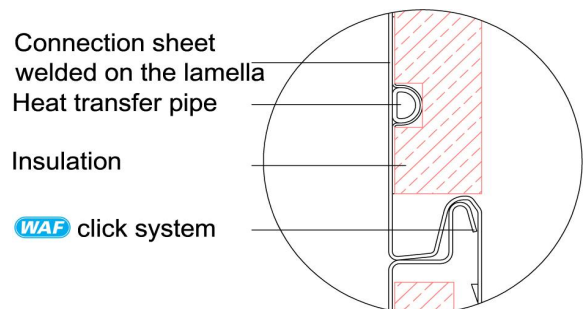
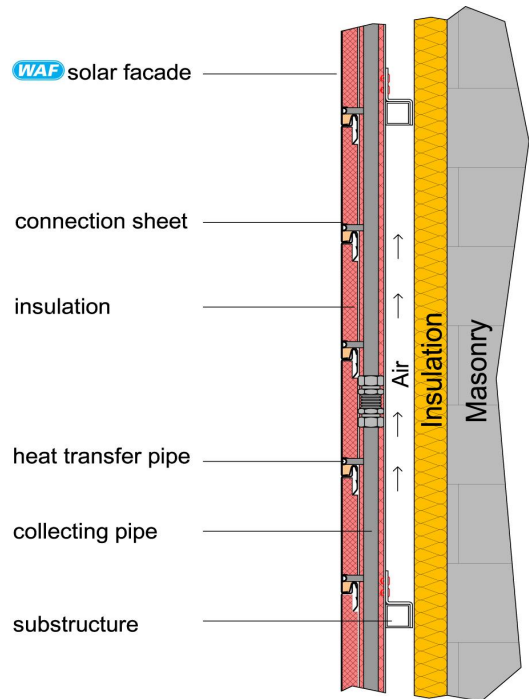
Insulation board	20 mm
Expanded plastic slab	30 mm

Piping

Piping type	Double harp
Heattransferpipe \varnothing	8 mm
Collecting pipe \varnothing	18 mm
Number of pipes	12 x 100mm
Heat transfer medium	Water - glycol
Connection absorber - pipe	WAF connection sheet

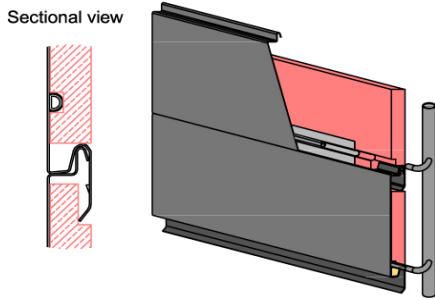
Mounting

Laying **WAF** Click system
 Substructure **WAF** System UK
 Combination with usual facade panels is possible

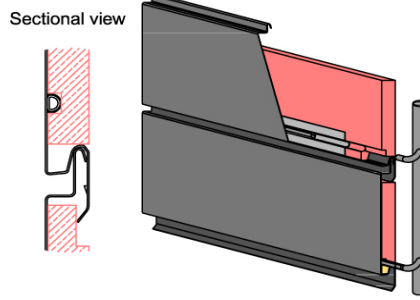


Designs

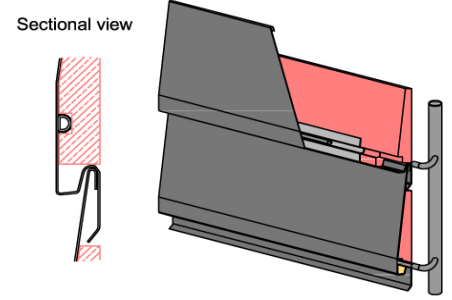
Flat panel



with shadow groove



Shiplap panel



Covering width

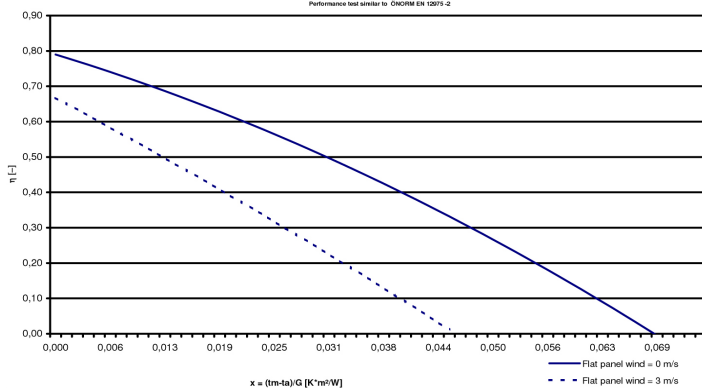
100mm, 200mm, 300mm (Special dimensions on request)

Performance data

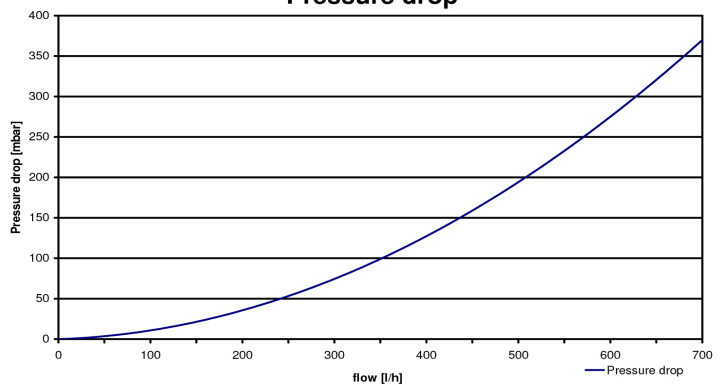
Collector test according to ÖNORM EN 12975 - 2 (Test made by ASIC - Austrian Solar Innovation Center Wels)

Tested collector area	2 m ²
Conversion factor $\eta_{0,0 \text{ m/s}}$	0,79
Conversion factor $\eta_{0,3 \text{ m/s}}$	0,67
Heat loss coefficient $a_{1,0 \text{ m/s}}$	7,558 W/m ² K
Heat loss coefficient $a_{2,0 \text{ m/s}}$	0,0728 W/m ² K ²
Heat loss coefficient $a_{1,3 \text{ m/s}}$	13,268 W/m ² K
Heat loss coefficient $a_{2,3 \text{ m/s}}$	0,0357 W/m ² K ²
Max. operating pressure	8 bar
Recommended flow	40 l/m ² h - high flow
Pressure drop / collector	1,3 liter

Degree of efficiency
G = 800 W/m²
Performance test carried by: ÖZGIBT EN 12975-2



Pressure drop



Fassadensysteme GmbH

Gewerbezone 3 · 6404 Polling in Tirol · Telefon: +43 (0) 5238-86362 · Fax: +43 (0) 5238-86365 · info@waf.at · www.waf-solarfassade.at