

RW101

TREMDOME

KEY BENEFITS SUMMARY

- Strong wave shaped dome construction
- Non-fragile
- Airtight construction
- Thermally broken frames and integral kerbs
- Excellent light transmission
- Part L compliant
- Design options for glazing, ventilation, and smoke control

PRODUCT INFORMATION

Description

RW101 TremDome is a triple skinned polycarbonate domed rooflight that has an integral thermally broken GRP kerb construction.

Usage / Purpose

The RW101 TremDome rooflights are specifically designed to be used in conjunction with Tremco flat roofing systems to enhance natural light and ventilation within buildings.

Packaging

Subject to project specification

Availability

Direct from Tremco CPG UK Limited (see bottom of leaflet for address and telephone details).

Application

- Structural roof openings should be accurately measured to ensure the correct rooflight size is ordered. Alternately, Tremco CPG UK can attend site to undertake a full rooflight survey and ascertain complex project requirements.
 - RW101 TremDome rooflights are to be mechanically secured to the proposed substrate using appropriate fasteners at approx. 150mm centres. The specified fixings should be positioned through the horizontal leg of the rooflight kerb and achieve the necessary embedment/penetration into the underlying substrate.
 - To a suitably primed and clean substrate, apply the full waterproofing system to all rooflight kerbs. Detail membranes should be secured in place with a retention bar and rivets included with each unit.
- Please Note**
- All upstand and skirting details should terminate a minimum of 150 mm above the finished roof level to comply with BS 6229:2018 and our warranty requirements.

- Any detail failing to achieve 150 mm above the finished roof level must be discussed with Tremco Technical Services prior to installation.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

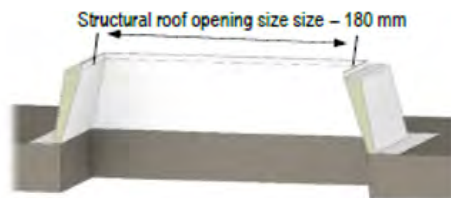
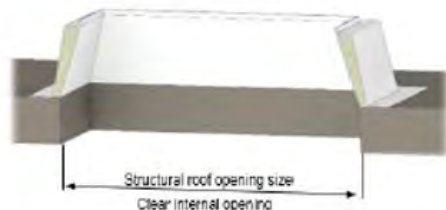
Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

TremDome F100W

Design information - dimensions



| Structural roof opening size (mm) | Hinge side | Lighting area (m²) |
|-----------------------------------|------------|--------------------|
| 500 x 1000 | | 0.26 |
| 500 x 1500 | | 0.42 |
| 600 x 600 | | 0.18 |
| 600 x 900 | | 0.30 |
| 600 x 1200 | | 0.43 |
| 700 x 1350 | | 0.61 |
| 800 x 800 | | 0.38 |
| 800 x 1500 | | 0.82 |
| 900 x 900 | | 0.52 |
| 900 x 1200 | | 0.73 |
| 900 x 1450 | | 1.08 |
| 1000 x 1000 | | 0.67 |
| 1000 x 1500 | | 1.08 |
| 1000 x 2000 | | 1.49 |
| 1000 x 2400 | | 1.82 |
| 1000 x 2500 | | 1.90 |
| 1000 x 3000 | | 2.31 |
| 1200 x 1200 | | 1.04 |
| 1200 x 1500 | | 1.35 |
| 1200 x 1800 | | 1.65 |
| 1200 x 2400 | | 2.26 |
| 1200 x 2500 | | 2.37 |
| 1200 x 2700 | | 2.57 |
| 1200 x 3000 | | 2.88 |
| 1250 x 1250 | | 1.15 |

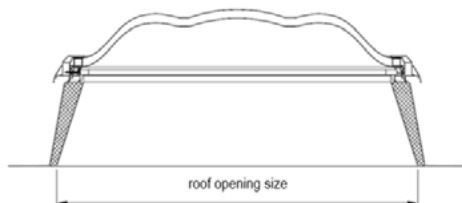
| Structural roof opening size (mm) | Hinge side | Lighting area (m²) |
|-----------------------------------|------------|--------------------|
| 1250 x 2500 | | 2.48 |
| 1350 x 2300 | | 2.48 |
| 1400 x 1400 | | 1.49 |
| 1500 x 1500 | | 1.74 |
| 1500 x 1800 | | 2.14 |
| 1500 x 2000 | | 2.40 |
| 1500 x 2100 | | 2.53 |
| 1500 x 2400 | | 2.93 |
| 1500 x 2500 | | 3.06 |
| 1500 x 2700 | | 3.33 |
| 1500 x 3000 | | 3.72 |
| 1800 x 1800 | | 2.62 |
| 1800 x 2100 | | 3.11 |
| 1800 x 2400 | | 3.60 |
| 1800 x 2500 | | 3.75 |
| 1800 x 2700 | | 4.08 |
| 1800 x 3000 | | 4.57 |
| 1800 x 3200 | | 4.89 |
| 2000 x 2000 | | 3.31 |
| 2000 x 2500 | | 4.22 |
| 2000 x 3500 | | 6.04 |

| Type | Glazing outside | Glazing centre | Glazing inside | Light transmission | Total energy transmittance | Sound insulation value $R_{w,p}$ | Heat transmission U_t (W/m²K) |
|------------------------|-----------------|----------------|----------------|--------------------|----------------------------|----------------------------------|---------------------------------|
| Triple glazed standard | opal | clear | clear | 58% | 0.58 | - | 1.9 |
| | clear | clear | clear | 68% | 0.68 | - | 1.9 |

TremDome F100W

Design information - dimensions (continued)

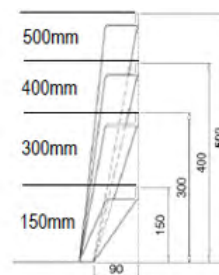
| Roof opening size longer side* (mm) | Number of waves |
|-------------------------------------|-----------------|
| 600 | 2 |
| 800 | 2 |
| 900 | 2 |
| 1000 | 3 |
| 1200 | 3 |
| 1250 | 3 |
| 1350 | 4 |
| 1400 | 4 |
| 1450 | 4 |
| 1500 | 4 |
| 1800 | 5 |
| 2000 | 5 |
| 2100 | 6 |
| 2300 | 6 |
| 2400 | 7 |
| 2500 | 7 |
| 2700 | 8 |
| 3000 | 8 |



*the 2nd structural roof opening size (longer side) listed on the previous page is decisive for the number of waves

TremDome F100W

Design Information - upstand



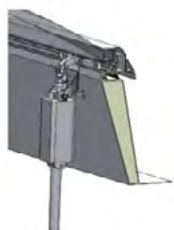
Upstand is delivered pre-assembled to the upper part for quick and easy site installation.
Standard upstand in a choice of heights: 150mm/300mm/400mm/500mm

TremDome F100W

Design information - ventilation details



Manual opener



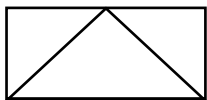
Spindle opener 24v/230v



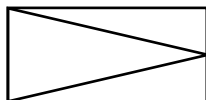
Chain drive 24v/230v

TremDome F100W

Design information - hinge side



Hinged on the short side



Hinged on the long side

TremDome Smokelife F100W (AOV)

Design information

The TremDome Smokelift F100W combines all the advantages of the TremDome F100W with the safety features of an EN 12101-2 certified electrical smoke and heat exhaust ventilator. It is suitable for flat roof residential and administrative or school building projects and achieves high levels of wind and rain resistance, excellent air tightness and thermal insulation values. In addition, the F100W AOV offers snow load certification (SL) from 500 – 2400 dependent on glazing and with multi stage ventilation fitted as standard, it provides safety in the event of a fire, and comfort for everyday use.

Ventilation function

A SHEV control system is required to operate the ventilation function. If this option is required, please request this prior to ordering and contact Tremco for operation details. The ventilation function has 2 opening positions; stage 1 (opening angle approx. 15°) and stage 2: (opening angle approx. 30°) Monitoring by wind and rain detectors is possible.

Opening angles: SHEVS: 165° +/-5°

Opening angles: Ventilation: 15° and 30°

Opening time SHEVS: < 60 seconds

Operating temperature: -15°C - 75°C

Operating voltage: 24v / 7.5A or 48v / 3A

Colour (Motor): As standard supplied mill-finish galvanised: powder coating to a standard RAL colour upon request

Reliability: RE 1,000 SHEV cycles /

10,000 natural ventilation cycles



1. Glazing: polycarbonate shell structured domed glazing
2. Steep upstand: Thermally insulated GRP with seamless silk-white interior finish (RAL 9016)
3. EN 12101-2 certified SHEV actuator
4. Actuator upper traverse
5. Frame: thermally broken white PVC (RAL 9016)

TremDome Smokelife F100W (AOV)

Design information - dimensions

| Available structural roof opening sizes (mm) | Fitting | Afa value (m ²) | Number of waves (steep upstand) |
|--|---------|-----------------------------|---------------------------------|
| 1000 x 1000 | solo | 0.71 | 3 |
| 1000 x 1500 | solo | 1.08 | 4 |
| 1000 x 2000 | solo | 1.44 | 6 |
| 1000 x 2400 | solo | 1.73 | 7 |
| 1000 x 2500 | solo | 1.80 | 7 |
| 1000 x 3000 | tandem | 2.07 | 9 |
| 1200 x 1200 | solo | 1.02 | 3 |
| 1200 x 1500 | solo | 1.30 | 4 |
| 1200 x 1800 | solo | 1.56 | 5 |
| 1200 x 2400 | solo | 2.10 | 7 |
| 1200 x 2500 | solo | 2.19 | 7 |
| 1200 x 2700 | tandem | 2.27 | 8 |
| 1200 x 3000 | tandem | 2.56 | 9 |
| 1250 x 1250 | solo | 1.11 | 3 |
| 1250 x 2500 | solo | 2.28 | 7 |
| 1400 x 1400 | solo | 1.41 | 4 |
| 1500 x 1500 | solo | 1.62 | 4 |
| 1500 x 1800 | solo | 1.97 | 5 |
| 1500 x 2000 | solo | 2.19 | 5 |
| 1500 x 2100 | solo | 2.30 | 6 |
| 1500 x 2400 | solo | 2.63 | 7 |
| 1500 x 2500 | solo | 2.74 | 7 |
| 1500 x 2700 | tandem | 2.88 | 8 |
| 1500 x 3000 | tandem | 3.20 | 9 |
| 1800 x 1800 | solo | 2.37 | 5 |
| 1800 x 2100 | solo | 2.76 | 6 |
| 1800 x 2400 | solo | 3.15 | 7 |
| 1800 x 2500 | solo | 3.33 | 7 |
| 1800 x 2700 | tandem | 3.50 | 8 |
| 1800 x 3000 | tandem | 3.89 | 9 |
| 2000 x 2000 | solo | 2.92 | 6 |



Solo motor



Tandem motor

TECHNICAL DATA

| PROPERTY | RESULT |
|---|--|
| Heat transition Ut (W/m ² K) | 1.9 |
| Life cycle assessment (LCA) | EN 15804 |
| Airtightness | Class 4 to EN 12207 |
| Watertightness | Class 4 to EN 12208 |
| Wind load | Class C4 to EN 12210 |
| Fragility | ACR[M] Class B Non-fragile |
| Storage | Store units in original packaging and do not stack. Keep protected from sunlight, rainfall/snow and heat until installation. |
| Shelf life | N/A |