

HORIZON VENTED

FRE OPENABLE FLAT ROOF WINDOWS WITH FLAT GLASS TOP UNIT

| VARIANT | B600 + B200 |
|--|---------------------|
| PANE | |
| Construction | 4H-(32)-4-14,5-33.2 |
| 24 mm insulated glazing unit | ✓ |
| Low-E coating | ✓ |
| Gas | Argon |
| Toughened external glass | ✓ |
| U_g -horizontal (W/m ² K) | 1.30 |
| Total solar energy transmittance: g | 0.54 |
| Light transmittance: τ_v | 0.72 |
| WINDOW | |
| $U_{rc,ref300}$: (W/m ² K) | 0.87 |
| $A_{rc,ref300}$: (m ²) | 3.4 |
| Watertightness | Class 9A |
| Air permeability | Class 3 |
| Resistance to wind load | Class C3 |
| Sound reduction | 31 (-1,-2) dB |
| Reaction to fire | class B-s1, d0 |
| Impact resistance | class 3 |
| FINISH | |
| Interior: PVC (white) | RAL 9016 |
| Exterior: Grey aluminium | RAL 7043 |



MAX PROTECT



EASY CLEAN
PVC



SAFE GUARD

APPLICABLE

- In public or residential buildings
- In heated, inhabited rooms
- In roof pitch range of 5°-15°

FEATURES

- Electrically openable window for flat roofs
- Attractive, flat glass exterior design
- Maintenance free, easy-to-wipe internal PVC surfaces
- Easy-to-clean coating on external glass
- scratch-free, 4 mm toughened glass cover
- Laminated internal glass
- Low energy insulating glass unit (inside)
- Max. opening: 200 mm (142 mm ventilation area)
- Preinstalled rain sensor
- Hidden motor
- Wall switch controller
- Fixing screws and brackets are included
- Easy installation
- 10-year guarantee

MATERIALS AND FINISH

- Extruded, white PVC, RAL 9016
- Insulating inserts in the PVC curb
- Lacquered aluminium, RAL 7043 (Top unit)



TECHNICAL DATA

AVAILABLE SIZES AND DAYLIGHT AREA

| PRODUCT CODE | NOMINAL SIZE (ROOF OPENING) | | EXTERNAL FRAME MEASUREMENTS | | LINING MEASUREMENTS | | EFFECTIVE DAYLIGHT AREA | | |
|---------------|-----------------------------|--------|-----------------------------|--------|---------------------|--------|-------------------------|--------|----------------|
| | WIDTH | LENGTH | WIDTH | LENGTH | WIDTH | LENGTH | WIDTH | LENGTH | A |
| | cm | cm | cm | cm | cm | cm | cm | cm | m ² |
| FRE 0606 B600 | 60 | 60 | 78 | 78 | 55.9 | 55.9 | 43.5 | 43.5 | 0.19 |
| FRE 0808 B600 | 80 | 80 | 98 | 98 | 75.9 | 75.9 | 63.5 | 63.5 | 0.40 |
| FRE 0609 B600 | 60 | 90 | 78 | 108 | 55.9 | 85.9 | 43.5 | 73.5 | 0.32 |
| FRE 0909 B600 | 90 | 90 | 108 | 108 | 85.9 | 85.9 | 73.5 | 73.5 | 0.54 |
| FRE 0912 B600 | 90 | 120 | 108 | 138 | 85.9 | 115.9 | 73.5 | 103.5 | 0.76 |
| FRE 1010 B600 | 100 | 100 | 118 | 118 | 95.9 | 95.9 | 83.5 | 83.5 | 0.70 |
| FRE 1015 B600 | 100 | 150 | 118 | 168 | 95.9 | 145.9 | 83.5 | 133.5 | 1.11 |
| FRE 1212 B600 | 120 | 120 | 138 | 138 | 115.9 | 115.9 | 103.5 | 103.5 | 1.07 |

ACCESSORIES

FRC

Extra frame extension can be combined with FRC..F (frame extension with flange) when frame height exceeding 310 mm is required*
* One FRC..F can be combined with max three FRC extension curbs

FRC..F

Frame extension with flange - extends total frame height from 150 mm to 310 mm

FAF

Roofing material fixing kit ensures a safe joint between frame and roofing material



PANE 6+2

Base unit of flat roof windows + flat glass top unit

U_g -horizontal: 0,50 W/m²K

$U_{rc,ref300}$: 0,87 W/m²K

$A_{rc,ref300}$: 3,4 W/m²K

4H-[32]-4-14,5-33.2

3mm float glass, Two layers of tear resistant foil, 3mm float glass, 14 mm stainless steel spacer, cavity filled with Argon gas, Low-e heat reflecting coating, 4 mm float glass, 32 mm vented gap between base and top units of flat roof window, 4 mm toughened glass, Easy-to-clean coating

AVAILABLE SIZES [CM]



| Size code | 0606 | 0609 | 0808 | 0909 | 0912 | 1010 | 1015 | 1212 |
|-------------------|-------|-------|-------|-------|--------|---------|---------|---------|
| Roof opening (cm) | 60x60 | 60x90 | 80x80 | 90x90 | 90x120 | 100x100 | 100x150 | 120x120 |

PRICES [€]

| Flat roof window | | | | | | | | |
|------------------------------------|--------|--------|--------|----------|----------|----------|----------|----------|
| FRE B600 (Electrically openable) | 933.60 | 956.60 | 971.70 | 1,053.00 | 1,145.70 | 1,092.10 | 1,218.40 | 1,221.60 |
| Top unit | | | | | | | | |
| FGT B200 (Flat glass) | 380.10 | 410.20 | 427.30 | 490.40 | 557.50 | 535.90 | 681.50 | 637.00 |
| Installation accessories | | | | | | | | |
| FRC-F (Extension curb with flange) | 242.50 | 257.70 | 266.00 | 294.20 | 323.50 | 316.20 | 362.00 | 343.60 |
| FRC (Extension curb) | 259.40 | 268.50 | 280.70 | 313.30 | 343.80 | 323.50 | 364.40 | 351.90 |
| FAF (Roofing material fixing kit) | 53.10 | 58.00 | 59.80 | 67.30 | 73.90 | 72.50 | 82.30 | 82.00 |

