

2.3 | Roof hatches with straight – type C/E

2.3.1 | Technical description of standard

- » classification in accordance with EN 1873+A1 (ref. to units with translucent glazing),
- » C type roof hatches (square) and E type (rectangular) for flat and pitched roofs covered with roofing paper or PVC membrane,
- » **dimensional range for roof hatches:**
 - C type (square): 800 x 800 mm ÷ 1400 x 1400 mm,
 - E type (rectangular): 800 x 900 mm ÷ 1400 x 1500 mm,
- » straight base of height 300 mm or 500 mm made of galvanized steel sheet of 1.25 mm thickness,
- » bottom part of base has a circumferential flange of width 100 mm*, through which the base is fitted to the roof structure,
- » upper part of base profiled to allow water run-off,
- » **base standard:** thermal insulation of base made of thickness 30 mm thick PIR insulation board or mineral wool of thickness 20 mm,
- » galvanized steel sheet circumferential strip in upper part of base allows fixing of roof flashing,
- » **leaf glazing:** multi-chamber polycarbonate panel, acrylic dome, solid polycarbonate dome, multi-chamber polycarbonate panel and single or double-layer acrylic dome or solid polycarbonate dome, glazing of B_{ROOF}(t1) classification (see details in section 4 – page 63),
- » hatch equipped in two gas springs for easy opening to 90° open position,
- » internal handle with keylock.

(*) Possibility of making other flange widths – contact Mercor Light&Vent sp. z o.o. sales department.

2.3.2 | Roof hatch design

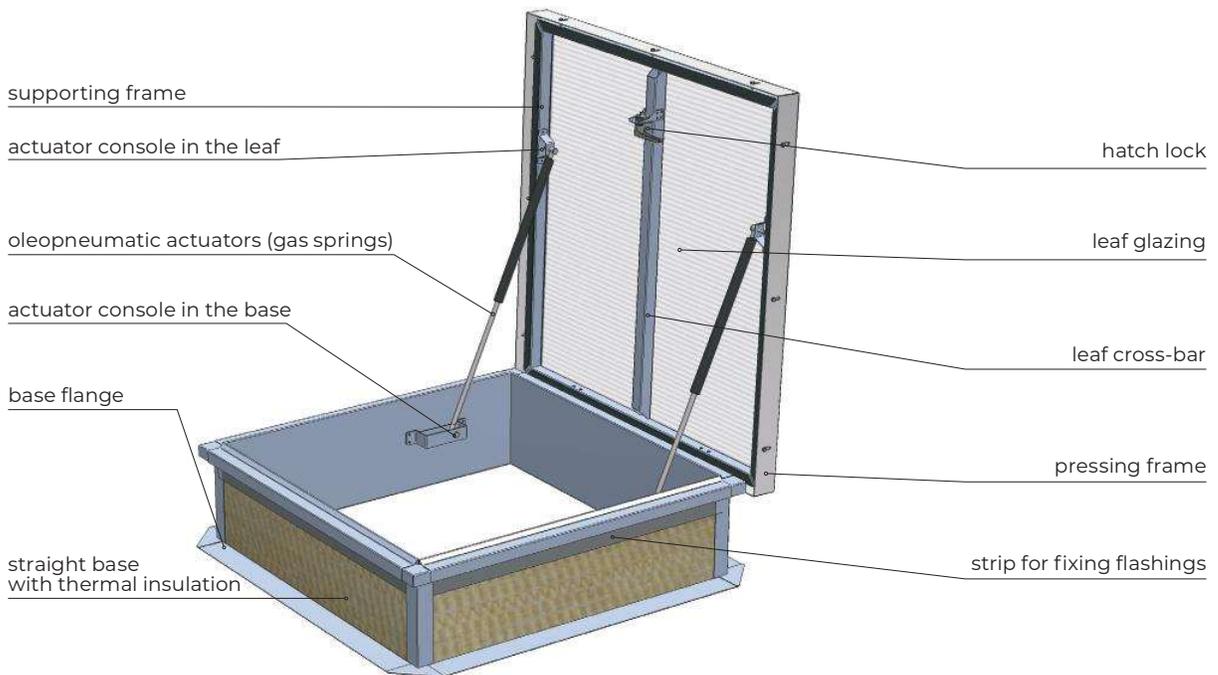


Fig. 22 mcr PROLIGHT C roof hatch design

2.3.3 | Non-standard options

- » hatch elements painted to any RAL color,
- » custom base height 250 mm ÷ 750 mm,
- » base made of aluminium sheet,
- » installation of additional protective element in the form of anti-burglar grid,
- » circumferential strip for fixing roof flashings made of PVC coated metal sheet.

2.3.4 | Technical drawings

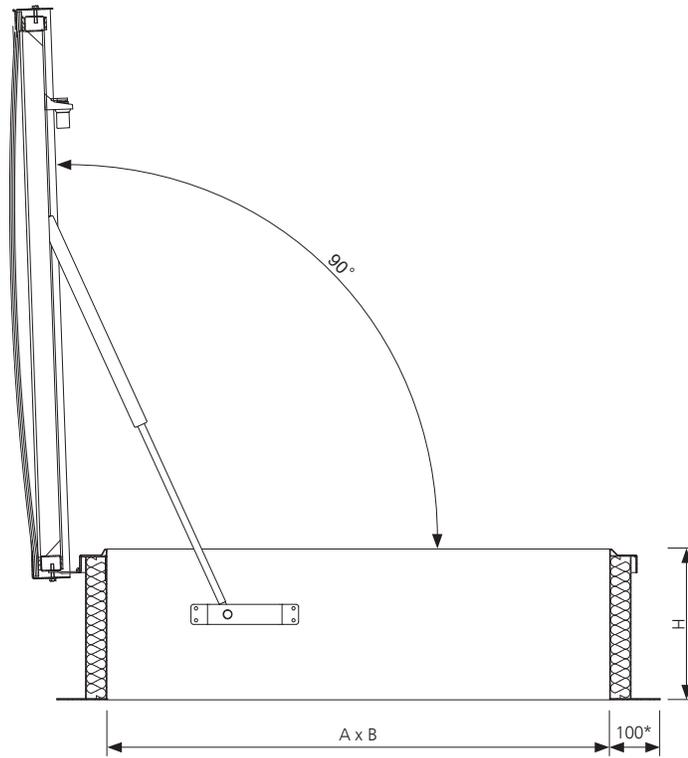


Fig. 23 Section **B-B** of mcr PROLIGHT C roof hatch in open position, dimensions in mm

(*) Possibility of making other flange widths – contact Mercor Light&Vent sp. z o.o. sales department.

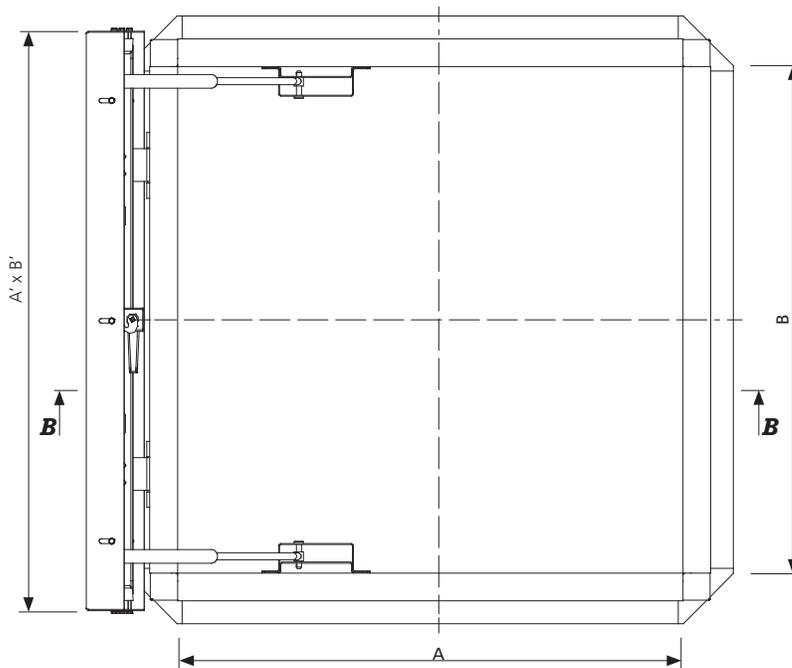


Fig. 24 Top view of mcr PROLIGHT C roof hatch in open position, dimensions in mm

A, B – nominal dimensions [mm], clear opening of roof hatch
 A', B' – total dimensions of roof hatch leaf [mm], A'=A+135 mm, B'=B+135 mm
 H – roof hatch base height [mm]

2.3.5 | Technical details

ROOF HATCHES TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
C 80	800 x 800	51
C 90	900 x 900	57
C 100	1000 x 1000	63
C 110	1100 x 1100	69
C 120	1200 x 1200	72
C 125	1250 x 1250	75
C 130	1300 x 1300	81
C 135	1350 x 1350	84
C 140	1400 x 1400	87
E 80/90	800 x 900	54
E 80/100	800 x 1000	57
E 80/110	800 x 1100	59
E 80/120	800 x 1200	62
E 80/130	800 x 1300	64
E 80/140	800 x 1400	66
E 80/150	800 x 1500	69
E 90/100	900 x 1000	60
E 90/110	900 x 1100	63
E 90/120	900 x 1200	65
E 90/130	900 x 1300	68
E 90/140	900 x 1400	71
E 90/150	900 x 1500	73
E 100/110	1000 x 1100	66
E 100/120	1000 x 1200	69
E 100/130	1000 x 1300	72
E 100/140	1000 x 1400	75
E 100/150	1000 x 1500	82
E 110/120	1100 x 1200	72
E 110/130	1100 x 1300	75
E 110/140	1100 x 1400	78
E 110/150	1100 x 1500	81
E 120/130	1200 x 1300	79
E 120/140	1200 x 1400	81
E 120/150	1200 x 1500	89
E 130/140	1300 x 1400	84
E 130/150	1300 x 1500	92
E 140/150	1400 x 1500	95

(*) Intermediate roof hatch dimensions between the values specified in the table are possible.

(**) Estimated weight specified for roof hatch of base height 500 mm, of standard configuration with multi-chamber polycarbonate panel glazing of 16 mm thickness.

2.4 | Roof hatches with skew base – type NG-A

2.4.1 | Technical description of standard

- » classification in accordance with EN 1873+A1 (ref. to units with translucent glazing),
- » NG-A type roof hatches (squared and rectangular) smoke vents for flat and pitched roofs covered with roofing paper or PVC membrane,
- » **dimensional range for roof hatches:** 900 x 900 mm do 1500 x 1500 mm,
- » skew base of height 300 mm or 500 mm made of galvanized steel sheet of 1.25 mm thickness,
- » bottom part of base has a circumferential flange of width 100 mm*, through which the base is fitted to the roof structure,
- » upper part of base profiled to allow water run-off,
- » **base standard:** thermal insulation of base made of thickness 30 mm thick PIR insulation board or mineral wool of thickness 20 mm,
- » galvanized steel sheet circumferential strip in upper part of base allows fixing of roof flashing,
- » **leaf glazing:** multi-chamber polycarbonate panel, acrylic dome, solid polycarbonate dome, sandwich panel, multi-chamber polycarbonate panel and single or double-layer acrylic dome or solid polycarbonate dome, multi-chamber polycarbonate panel with aluminium envelope cover and glazing of B_{ROOF}(t1) class (see details in section 4 – page 63),
- » hatch equipped in two gas springs for easy opening to 90° open position.

(* Possibility of making other flange widths – contact Mercor Light&Vent sp. z o.o. sales department.

2.4.2 | Roof hatch design

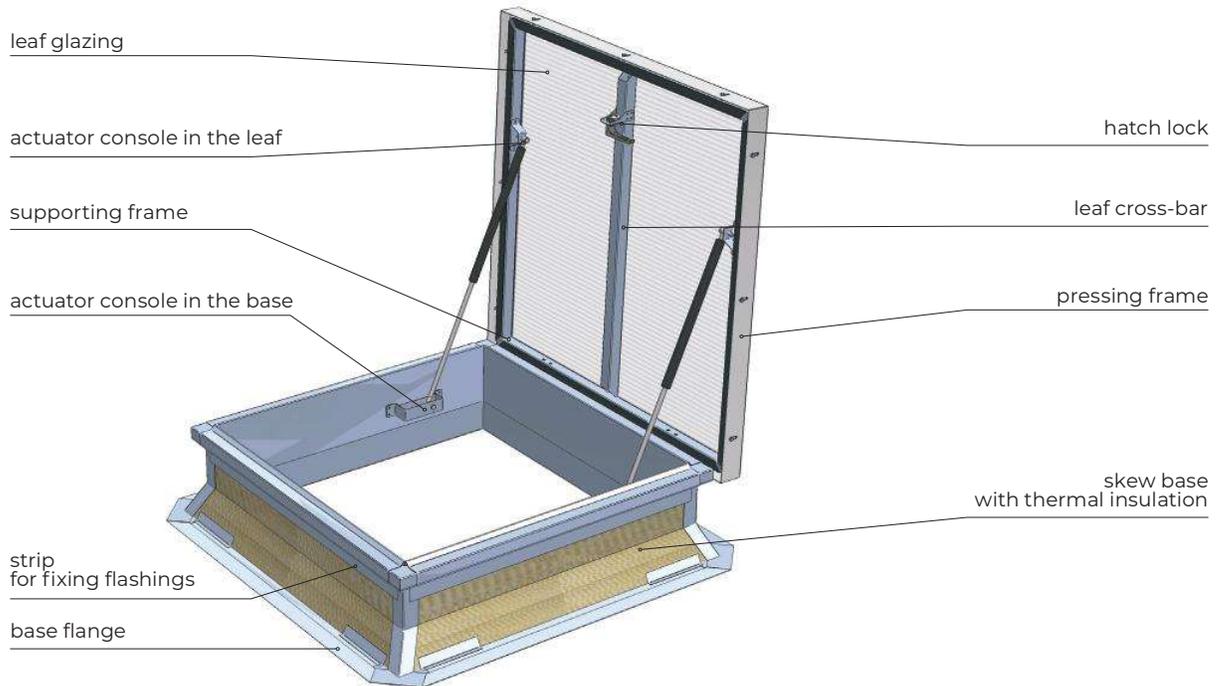


Fig. 25 mcr PROLIGHT NG-A roof hatch design

2.4.3 | Non-standard options

- » hatch elements painted to any RAL color,
- » custom base height 350 ÷ 750 mm,
- » base made of aluminium sheet,
- » installation of additional protective element in the form of anti-burglar grid,
- » circumferential strip for fixing roof flashings made of PVC coated metal sheet.

2.4.4 | Technical drawings

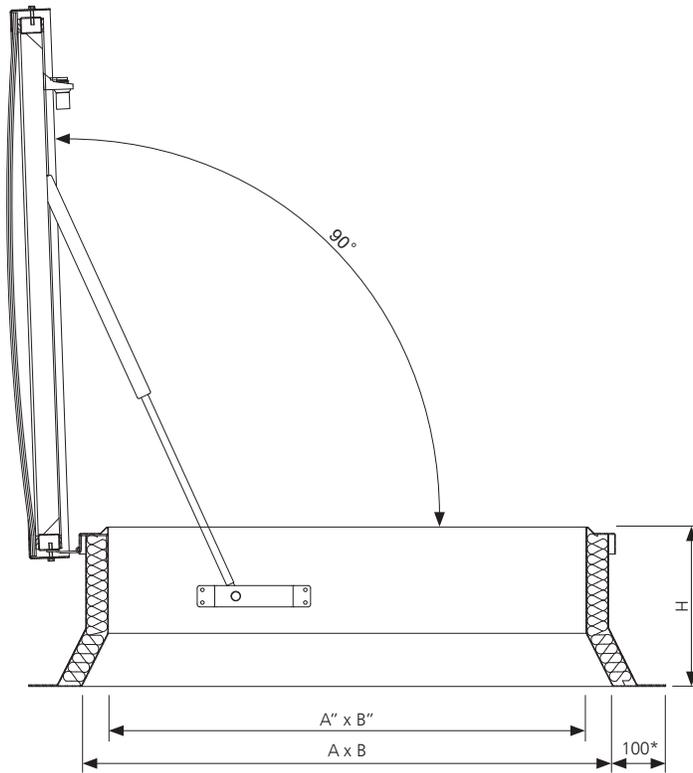


Fig. 26 Section **B-B** of mcr PROLIGHT NG-A roof hatch in open position, dimensions in mm

(*) Possibility of making other flange widths – contact Mercor Light&Vent sp. z o.o. sales department.

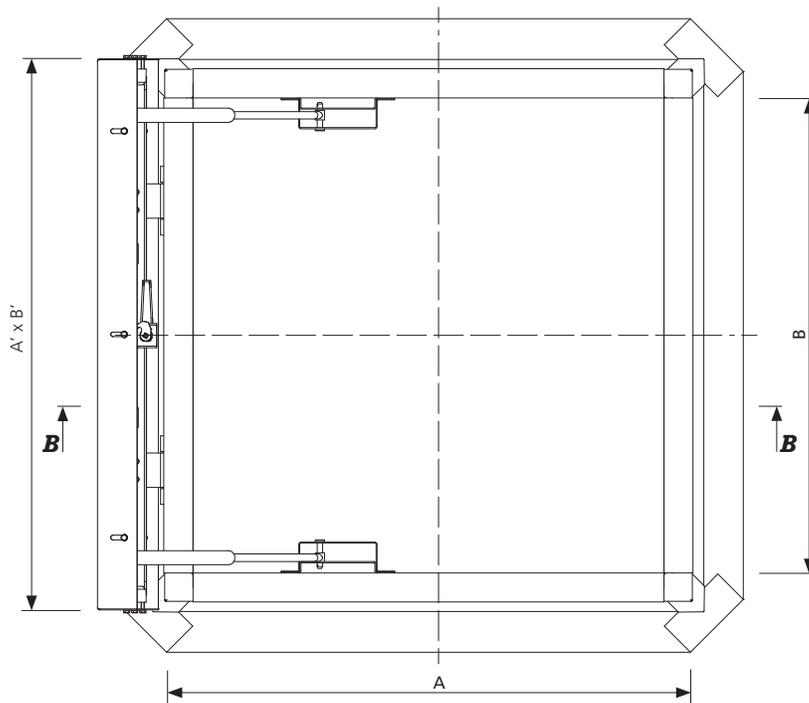


Fig. 27 Top view of mcr PROLIGHT NG-A roof hatch in open position, dimensions in mm

- A, B – nominal dimensions [mm], clear opening of roof hatch
- A', B' – total dimensions of roof hatch leaf [mm], A'=A+35 mm, B'=B+35 mm
- A'', B'' – clear dimensions of roof hatch upper opening [mm], A''=A-100 mm, B''=B-100 mm
- H – roof hatch base height [mm]

2.4.5 | Technical details

ROOF HATCHES TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
NG-A 90/90	900 x 900	51
NG-A 100/100	1000 x 1000	66
NG-A 100/110	1000 x 1100	69
NG-A 100/120	1000 x 1200	72
NG-A 100/130	1000 x 1300	75
NG-A 100/140	1000 x 1400	78
NG-A 100/150	1000 x 1500	84
NG-A 120/120	1200 x 1200	79
NG-A 120/130	1200 x 1300	82
NG-A 120/140	1200 x 1400	85
NG-A 120/150	1200 x 1500	92
NG-A 125/125	1250 x 1250	82
NG-A 130/130	1300 x 1300	85
NG-A 130/140	1300 x 1400	88
NG-A 130/150	1300 x 1500	96
NG-A 140/140	1400 x 1400	92
NG-A 140/150	1400 x 1500	99
NGA 150/150	1500 x 1500	108

(*) Intermediate roof hatch dimensions between the values specified in the table are possible.

(**) Estimated weight specified for roof hatch of base height 500 mm, of standard configuration with multi-chamber polycarbonate panel glazing of 16 mm thickness.