

**2.1 | Fixed skylights with straight base – type C/E**

**2.1.1 | Technical description of standard**

- » classification in accordance with EN 1873+A1 (ref. to units with translucent glazing),
- » C type (square) and type E (rectangular) fixed skylights for flat and pitched roofs covered with roofing paper or PVC membrane,
- » **dimensional range of fixed skylights:**
  - C type fixed skylights (squared): 800 x 800 mm ÷ 1980 x 1980 mm,
  - E type fixed skylights (rectangular): 800 x 900 mm ÷ 1980 x 3000 mm,
- » straight base of height 300 mm or 500 mm made of galvanized steel sheet of 1.25 mm thickness,
- » bottom part of the base has a circumferential flange of width 100 mm\*, through which the base is fitted to the roof structure,
- » upper part of base has shape enabling water runoff,
- » **base standard:** thermal insulation of base made of thickness 30 mm thick PIR insulation board or mineral wool of thickness 20 mm,
- » circumferential strip in the upper part of base, made of galvanized steel sheet, used for fixing roof work,
- » **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<sub>ROOF</sub>(t1) classification (see details in section 4 – page 63).

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

**2.1.2 | Fixed skylight design**



**Fig. 16** mcr PROLIGHT E fixed skylight design

**2.1.3 | Non-standard options**

- » skylight elements painted to any RAL color,
- » custom base height 160 mm ÷ 750 mm,
- » non-standard dimensions of the skylight base opening,
- » custom width of circumferential flange of base,
- » base made of aluminium sheet,
- » installation of additional protective elements in the form of anti-burglar grid or safety net 1200 J,
- » available in configuration with soft body impact resistance up to 1200 J (SB1200),
- » for roofs with roof membrane, optional PVC coated sheet strip for easier installation.

2.1.4 | Technical drawings

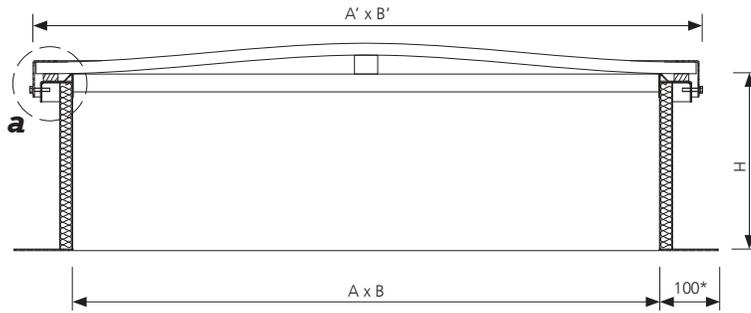
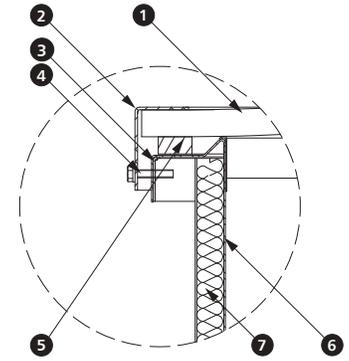


Fig. 17 Section B-B of mcr PROLIGHT C or E fixed skylight, dimensions in mm



Detail a

<p>(*) Possibility of making other flange widths - contact Mercor Light&amp;Vent sp. z o.o. sales department.</p>	<p>1. leaf glazing 2. pressing frame 3. supporting frame</p>	<p>4. spacer 5. gasket 6. skylight base</p>	<p>7. base thermal isolation</p>
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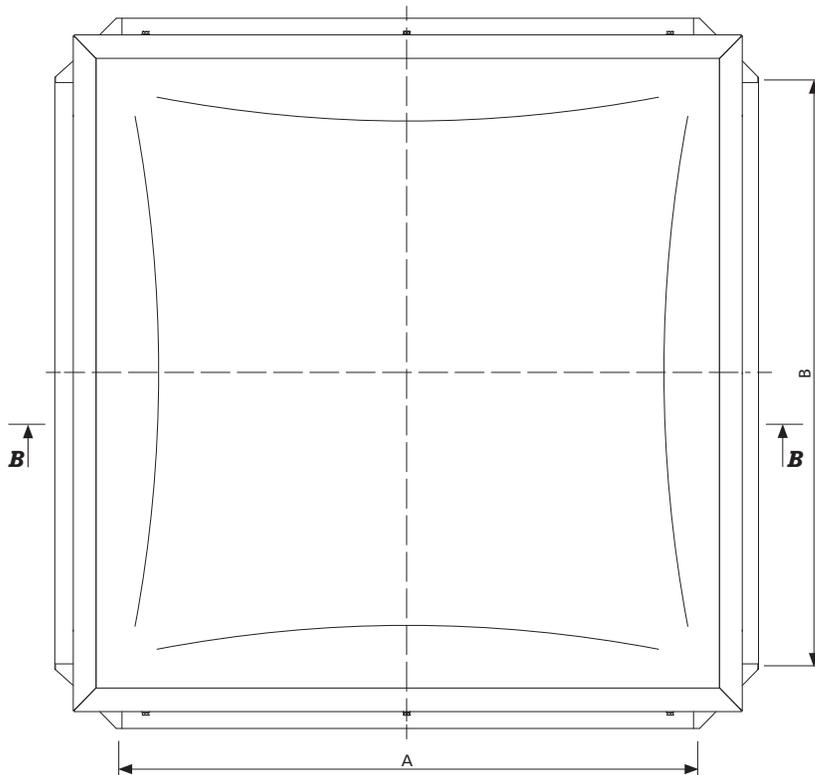


Fig. 18 Top view of mcr PROLIGHT C or E fixed skylight, dimensions in mm

A, B – nominal dimensions [mm] of fixed skylight  
 A', B' – total dimensions of fixed skylight leaf  $A'=A+135$  mm,  $B'=B+135$  mm  
 H – fixed skylight base height [mm]

## 2.1.5 | Technical details

SKYLIGHT TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
C 80	800 x 800	49
C 90	900 x 900	55
C 100	1000 x 1000	61
C 110	1100 x 1100	67
C 115	1150 x 1150	70
C 120	1200 x 1200	73
C 125	1250 x 1250	76
C 130	1300 x 1300	79
C 135	1350 x 1350	82
C 140	1400 x 1400	85
C 150	1500 x 1500	97
C 155	1550 x 1550	100
C 160	1600 x 1600	104
C 170	1700 x 1700	110
C 180	1800 x 1800	117
C 190	1900 x 1900	124
C 195	1950 x 1950	127
C 200	2000 x 2000	131
E 100/120	1000 x 1200	67
E 100/130	1000 x 1300	70
E 100/140	1000 x 1400	73
E 100/150	1000 x 1500	80
E 100/160	1000 x 1600	83
E 100/180	1000 x 1800	89
E 100/190	1000 x 1900	92
E 100/200	1000 x 2000	95
E 100/210	1000 x 2100	98
E 100/220	1000 x 2200	101
E 100/230	1000 x 2300	104
E 100/240	1000 x 2400	107
E 100/250	1000 x 2500	110
E 110/200	1100 x 2000	99
E 115/200	1150 x 2000	101
E 120/140	1200 x 1400	79
E 120/150	1200 x 1500	87
E 120/170	1200 x 1700	93
E 140/150	1400 x 1500	94
E 140/180	1400 x 1800	103
E 140/200	1400 x 2000	141
E 140/250	1400 x 2500	125
E 150/160	1500 x 1600	100
E 150/180	1500 x 1800	106
E 150/200	1500 x 2000	113
E 150/210	1500 x 2100	116
E 150/240	1500 x 2400	126
E 150/250	1500 x 2500	129

(\*) Intermediate fixed skylight dimensions between the values specified in the table are possible.

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

### 2.1.5 | Technical details

SKYLIGHT TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
E 160/180	1600 x 1800	110
E 160/190	1600 x 1900	113
E 160/200	1600 x 2000	117
E 160/220	1600 x 2200	123
E 160/230	1600 x 2300	126
E 160/240	1600 x 2400	129
E 180/200	1800 x 2000	124
E 180/220	1800 x 2200	130
E 180/240	1800 x 2400	137
E 180/250	1800 x 2500	140
E 190/200	1900 x 2000	128
E 195/300	1950 x 3000	148

(\*) Intermediate fixed skylight dimensions between the values specified in the table are possible.

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

**2.2 | Fixed skylights with skew base – type NG-A**

**2.2.1 | Technical description of standard**

- » classification in accordance with EN 1873+1 (ref. to units with translucent glazing),
- » NG-A type fixed skylights (square and rectangular) smoke vents for flat and pitched roofs covered with roofing paper or PVC membrane,
- » **dimensional range of fixed skylights:** 1000 x 1000 mm ÷ 2000 x 3000 mm,
- » skew base of height 300 mm or 500 mm made of galvanized steel sheet of 1.25 mm thickness,
- » bottom part of the base has a circumferential flange of width 100 mm\*, through which the base is fitted to the roof structure,
- » upper part of base has shape enabling water runoff,
- » **base standard:** thermal insulation of base made of thickness 30 mm thick PIR insulation board or mineral wool of thickness 20 mm,
- » circumferential strip in the upper part of base, made of galvanized steel sheet, used for fixing roof work,
- » **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<sub>ROOF(t1)</sub> classification (see details in section 4 – page 63).

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

**2.2.2 | Fixed skylight design**



**Fig. 19** mcr PROLIGHT NG-A fixed skylight design

**2.2.3 | Non-standard options**

- » skylight elements painted to any RAL color,
- » custom base height 300 mm ÷ 750 mm,
- » on-standard dimensions of the skylight base opening,
- » custom width of circumferential flange of base,
- » base made of aluminium sheet,
- » installation of additional protective elements in the form of anti-burglar grid or safety net 1200 J,
- » available in configuration with soft body impact resistance up to 1200 J (SB1200),
- » circumferential strip for fixing roof flashings made of PVC coated metal sheet.

2.2.4 | Technical drawings

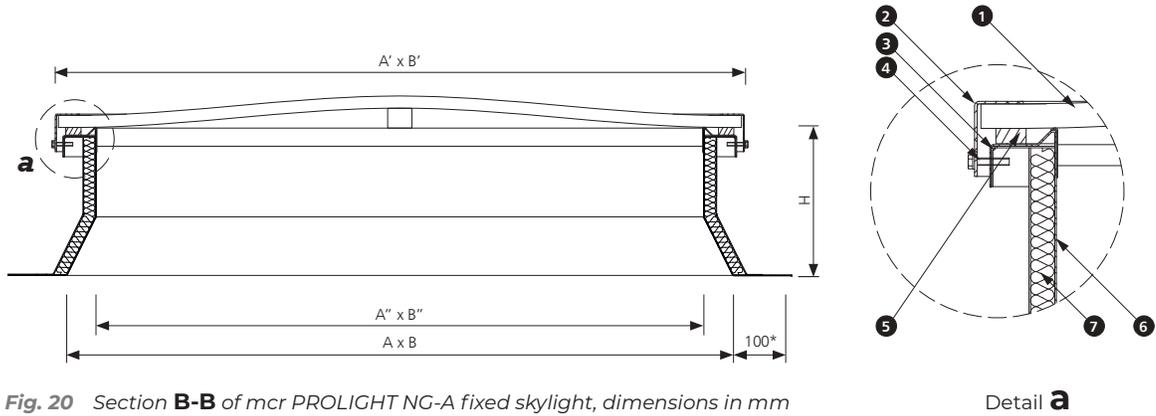


Fig. 20 Section B-B of mcr PROLIGHT NG-A fixed skylight, dimensions in mm

<p>(*) Possibility of making other flange widths - contact Mercor Light&amp;Vent sp. z o.o. sales department.</p>	<p>1. leaf glazing 2. pressing frame 3. supporting frame</p>	<p>4. spacer 5. gasket 6. skylight base</p>	<p>7. base thermal isolation</p>
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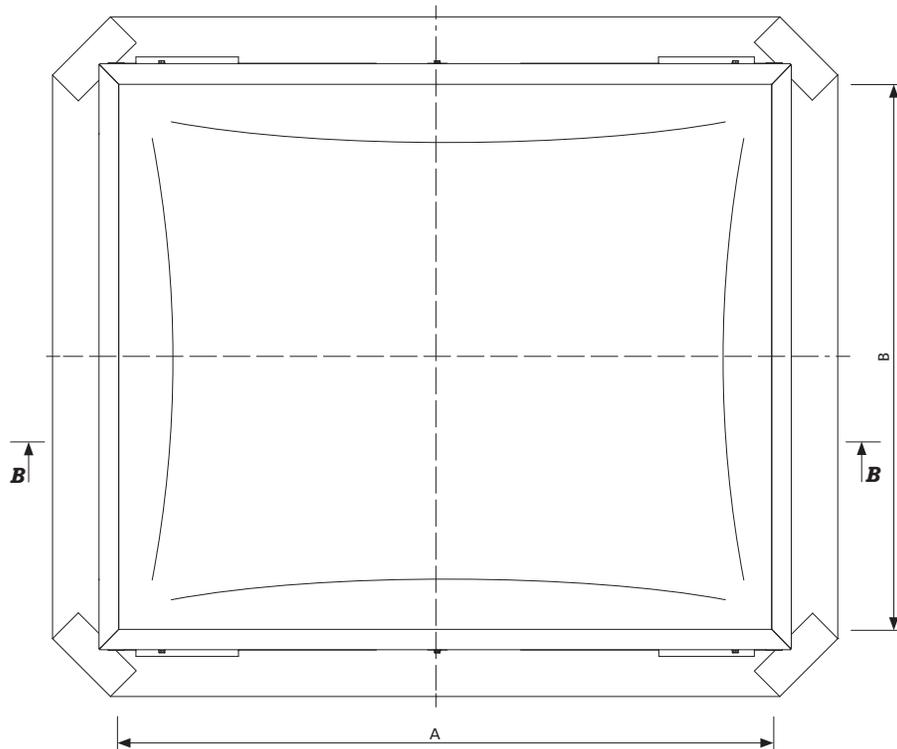


Fig. 21 Top view of mcr PROLIGHT NG-A fixed skylight, dimensions in mm

A, B – nominal dimensions [mm] of fixed skylight  
 A', B' – total dimensions of fixed skylight leaf  $A' = A + 35$  mm,  $B' = B + 135$  mm  
 A'', B'' – clear dimensions of fixed skylight upper opening [mm],  $A'' = A - 100$  mm,  $B'' = B - 100$  mm  
 H – fixed skylight base height [mm]

## 2.2.5 | Technical details

SKYLIGHT TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
NG-A 100/100	1000 x 1000	63
NG-A 100/110	1000 x 1100	66
NG-A 100/120	1000 x 1200	69
NG-A 100/130	1000 x 1300	72
NG-A 100/140	1000 x 1400	75
NG-A 100/150	1000 x 1500	81
NG-A 100/160	1000 x 1600	85
NG-A 100/170	1000 x 1700	88
NG-A 100/180	1000 x 1800	91
NG-A 100/190	1000 x 1900	95
NG-A 100/200	1000 x 2000	98
NG-A 100/210	1000 x 2100	101
NG-A 100/220	1000 x 2200	104
NG-A 100/230	1000 x 2300	107
NG-A 100/240	1000 x 2400	110
NG-A 100/250	1000 x 2500	114
NG-A 120/120	1200 x 1200	76
NG-A 120/130	1200 x 1300	79
NG-A 120/140	1200 x 1400	82
NG-A 120/150	1200 x 1500	89
NG-A 120/170	1200 x 1700	95
NG-A 120/180	1200 x 1800	99
NG-A 120/190	1200 x 1900	102
NG-A 120/200	1200 x 2000	105
NG-A 120/210	1200 x 2100	109
NG-A 120/220	1200 x 2200	112
NG-A 120/230	1200 x 2300	115
NG-A 120/240	1200 x 2400	118
NG-A 120/250	1200 x 2500	122
NG-A 125/125	1250 x 1250	79
NG-A 130/130	1300 x 1300	82
NG-A 130/140	1300 x 1400	85
NG-A 130/150	1300 x 1500	93
NG-A 130/160	1300 x 1600	96
NG-A 130/170	1300 x 1700	99
NG-A 130/180	1300 x 1800	103
NG-A 130/190	1300 x 1900	106
NG-A 130/200	1300 x 2000	109
NG-A 130/210	1300 x 2100	113
NG-A 130/220	1300 x 2200	116
NG-A 130/230	1300 x 2300	119
NG-A 130/240	1300 x 2400	123
NG-A 130/250	1300 x 2500	126
NG-A 140/140	1400 x 1400	89
NG-A 140/150	1400 x 1500	96
NG-A 140/160	1400 x 1600	100
NG-A 140/170	1400 x 1700	103
NG-A 140/180	1400 x 1800	107
NG-A 140/190	1400 x 1900	110
NG-A 140/200	1400 x 2000	113

(\*) Intermediate fixed skylight dimensions between the values specified in the table are possible.

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

### 2.2.5 | Technical details

SKYLIGHT TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
NG-A 140/210	1400 x 2100	117
NG-A 140/220	1400 x 2200	120
NG-A 140/230	1400 x 2300	123
NG-A 140/240	1400 x 2400	127
NG-A 140/250	1400 x 2500	130
NG-A 150/150	1500 x 1500	100
NG-A 150/160	1500 x 1600	104
NG-A 150/170	1500 x 1700	107
NG-A 150/180	1500 x 1800	110
NG-A 150/190	1500 x 1900	114
NG-A 150/200	1500 x 2000	117
NG-A 150/210	1500 x 2100	121
NG-A 150/220	1500 x 2200	124
NG-A 150/230	1500 x 2300	128
NG-A 150/240	1500 x 2400	131
NG-A 150/250	1500 x 2500	134
NG-A 160/160	1600 x 1600	108
NG-A 160/170	1600 x 1700	111
NG-A 160/180	1600 x 1800	114
NG-A 160/190	1600 x 1900	118
NG-A 160/200	1600 x 2000	121
NG-A 160/210	1600 x 2100	125
NG-A 160/220	1600 x 2200	128
NG-A 160/230	1600 x 2300	131
NG-A 160/240	1600 x 2400	134
NG-A 160/250	1600 x 2500	138
NG-A 170/170	1700 x 1700	115
NG-A 170/180	1700 x 1800	118
NG-A 170/190	1700 x 1900	122
NG-A 170/200	1700 x 2000	125
NG-A 170/210	1700 x 2100	129
NG-A 170/220	1700 x 2200	132
NG-A 170/230	1700 x 2300	135
NG-A 170/240	1700 x 2400	139
NG-A 170/250	1700 x 2500	142
NG-A 180/180	1800 x 1800	122
NG-A 180/190	1800 x 1900	126
NG-A 180/200	1800 x 2000	129
NG-A 180/210	1800 x 2100	133
NG-A 180/220	1800 x 2200	136
NG-A 180/230	1800 x 2300	140
NG-A 180/240	1800 x 2400	143
NG-A 180/250	1800 x 2500	146
NG-A 180/260	1800 x 2600	150
NG-A 180/270	1800 x 2700	153
NG-A 180/280	1800 x 2800	156
NG-A 180/290	1800 x 2900	159
NG-A 180/300	1800 x 3000	163
NG-A 190/190	1900 x 1900	130
NG-A 190/200	1900 x 2000	133

(\*) Intermediate fixed skylight dimensions between the values specified in the table are possible.

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

**2.2.5 | Technical details**

SKYLIGHT TYPE	NOMINAL DIMENSIONS (*)	ESTIMATED MASS (**)
	A x B [mm]	[kg]
NG-A 190/210	1900 x 2100	137
NG-A 190/220	1900 x 2200	140
NG-A 190/230	1900 x 2300	144
NG-A 190/240	1900 x 2400	147
NG-A 190/250	1900 x 2500	150
NG-A 190/260	1900 x 2600	154
NG-A 190/270	1900 x 2700	157
NG-A 190/280	1900 x 2800	161
NG-A 190/290	1900 x 2900	164
NG-A 190/300	1900 x 3000	167
NG-A 200/200	2000 x 2000	137
NG-A 200/210	2000 x 2100	141
NG-A 200/220	2000 x 2200	144
NG-A 200/230	2000 x 2300	148
NG-A 200/240	2000 x 2400	151
NG-A 200/250	2000 x 2500	155
NG-A 200/260	2000 x 2600	158
NG-A 200/270	2000 x 2700	161
NG-A 200/280	2000 x 2800	165
NG-A 200/290	2000 x 2900	168
NG-A 200/300	2000 x 3000	172
NG-A 210/210	2100 x 2100	145

(\*) Intermediate fixed skylight dimensions between the values specified in the table are possible.

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