

Properties

Burglary protection

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Sky-Frame offers the following options to increase the burglary protection:

Electronic measures

Three security-related information items can be electronically retrieved and transferred to a burglar alarm with the Sky-Frame alarm sensors, which are invisibly integrated in the frame:

- Position monitoring (slider open/closed)
- Deadbolt monitoring (lock open/locked)
- Glass breakage sensor (alarm loop)

Mechanical measures

Even the standard model of Sky-Frame offers excellent burglary protection - including the system-based bonding of the GRP profiles with insulating glass and multipoint locking.

In order to further increase the burglary protection, Sky-Frame uses special laminated glass, reinforced frame profiles and additional fittings for the multi-point locking integrated in the slim profile.

It is operated by the same shapely handles, into which an additional locking cylinder is installed.

The ift-Rosenheim certifies Sky-Frame 2 as having an approved burglary protection up to 4m with these additional components:

Resistance class WK2 (RC2) (EN 356 and EN V 1627-1630)

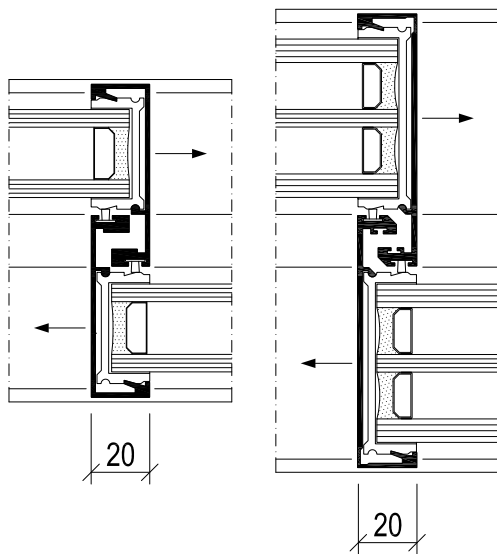
All fittings and components used to increase the burglary protection adjust to the filigree design without affecting the aesthetics.



System introduction

Sky-Frame 2 / Sky-Frame 3

System comparison



Sky-Frame 2
Glass 30 mm

Sky-Frame 3
Glass 54 mm

Sky-Frame is available in two product lines since early 2010 consisting of the successful product Sky-Frame 2 and the newly developed system Sky-Frame 3.

Sky-Frame 2 with double insulating glass (2-IG) already provides very good insulation values.

Sky-Frame 3 is characterized by an equally filigree design such as Sky-Frame 2. An even better thermal insulation is achieved by using triple-glazed panes of insulating glass (3-IG) with a U_g value up to $0.5 \text{ W/m}^2\text{K}$.

Sky-Frame 3 sliding windows can therefore also be used in the passive house area and were certified as MINERGIE® module windows.

The new sliding window generation Sky Frame 3 is sustainable, in that it already covers future requirements of climatic and environmental protection today while maintaining the architectural effect.

Properties	Sky Frame 2		Sky Frame 3	
	(SIA 331)	(EN 10077)	(SIA 331)	(EN 10077)
U_w calculation (WxH 4.6x3m) according to				
Thermal transmittance (Glass $U_g=1.1$) $U_w =$	1.26 $\text{W/m}^2\text{K}$	1.38 $\text{W/m}^2\text{K}$	-	-
Thermal transmittance (Glass $U_g=1.0$) $U_w =$	1.17 $\text{W/m}^2\text{K}$	1.28 $\text{W/m}^2\text{K}$	-	-
Thermal transmittance (Glass $U_g=0.7$) $U_w =$	-	-	0.91 $\text{W/m}^2\text{K}$	1.0 $\text{W/m}^2\text{K}$
Thermal transmittance (Glass $U_g=0.5$) $U_w =$	-	-	0.71 $\text{W/m}^2\text{K}$	0.83 $\text{W/m}^2\text{K}$
Sliding panels (max. WxH)	2.3 x 4 m (up to 8m^2)		2.3 x 4 m (up to 8m^2)	
Fixed panels (max. WxH)	3.2 x 4 m / 4 x 3.2 m		3.2 x 4 m / 4 x 3.2 m	
Insulating glass	30 mm (2-IG)		54 mm (3-IG)	
Daylight / glass ratio	98%		98%	
Water tightness, class (EN12208)	9A		9A	
Air permeability, class (EN12207)	4		4	
Resistance to wind load (EN12210)	C3		B3	
Anti-fall protection, category (TRAV/TRLV)	A		A	
Increased burglary protection, class	WK2		Test in preparation	
MINERGIE® module	-		certified	