



which use a low-emission foil and thus improve the insulation value by reflecting and retaining heat.



Uf = 1.9 W/m2K "



Uf = 1.5 W/m²K ⁽¹⁾



Uf = 1.2 W/m2K "



AIR-WIND-WATER TIGHTNESS

MasterLine 8 allows for a water tightness of 900Pa, reduced air loss at 600Pa air pressure, and excellent sealing properties. These ultimate performances are achieved by the overall concept and the increased overlap of the central gasket, offering a guaranteed performance.

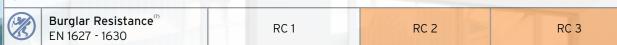
HIGH STABILITY

Next to these performances, MasterLine 8 is perfectly suited to create large vents, using narrow yet strong profiles. As a result, the window system allows for plenty of daylight, thereby meeting the needs of architects.

ENERGY Thermal Insulation[®] Uf-value down to 1.0 W/m²K depending on EN ISO 10077-2 the frame/vent combination and the glass thickness. **COMFORT**

Acoustic performance⁽²⁾ Rw(C;Ctr) = 45 (-1;-4) dB, 50(-1;-2), depending on glazing and opening type EN ISO 140-3; EN ISO 717-1 Air tightness, 4+ 2 (300 Pa) max. test pressure (3) (150 Pa) (600 Pa) (600 Pa) (600 Pa) EN 1026; EN 12207 Water tightness⁽⁵⁾ 7A E1200 1A 2A ЗА 4A 5A 6A 88 9A EN 1027; EN 12208 Wind load resistance, Exxx max. test pressure (2000 Pa) (400 Pa) (800 Pa) (1200 Pa) EN 12211; EN 12210 (PL) Wind load resistance **A** (≤ 1/150) to frame deflection⁶ (≤1/200) EN 12211; EN 12210

SAFETY



This table shows possible classes and values of performances. The values indicated in orange are the ones relevant to this system.

- The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame
- The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame
- The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
- Non official class, Reduced Air Permeability @ 600Pa, with reduced loss of 1.2 m³/(hm²) or 0.3 m³/(hm²)
- The water tightness test involves applying a uniform water spray at increasing air pressure until water penetrates the window.

 The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force.
- There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance
- The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools

Optimal flow of fresh air is possible through the use of the unique solution for ventilation vents. These vents are limited in width to offer a breath of fresh air while ensuring full safety. The solution delivers both excellent water tightness and high insulation (Uf-Uw value of 1,1 W/m²K). Simple millings and adjustable end pieces ensure easy production and installation.

The ventilation vents can be used with visible or invisible hinges.





TECHNICAL CHARACTERISTICS		FUNCTIONAL	RENAISSANCE	DECO	HIDDEN VENT
Min. visible width inward opening window	Frame	53 mm		80 mm	
	Vent	37 mm		-	
Min. visible width outward opening window	Frame	21 mm			n.a.
	Vent	113 mm			n.a.
Min. visible width inward opening window-door	Frame	60 mm			n.a.
	Vent	67 mm			n.a.
Min. visible width outward opening window-door	Frame	21 mm			n.a.
	Vent	113 mm			n.a.
Min. visible width T-profile		80 mm			107 mm
Overall system depth window	Frame	77 mm	87 mm	87 mm	77 mm
	Vent	87 mm			80 mm
Rebate height		27 mm			
Glass thickness	Frame	up to 62 mm			
	Vent	up to 72 mm	up to 62 mm	up to 62 mm	up to 57 mm
Glazing method		dry glazing with EPDM or neutral silicones			
Thermal break		omega-shaped glass fibre reinforced polyamide strips. HI+ version: glass fibre reinforced noryl strips. 40 or 37.8 mm depending on profile.			







TOGETHER FOR BETTER