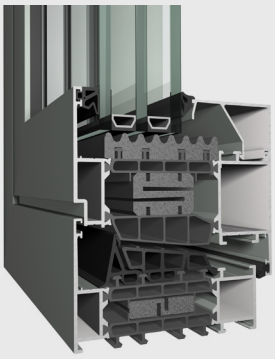
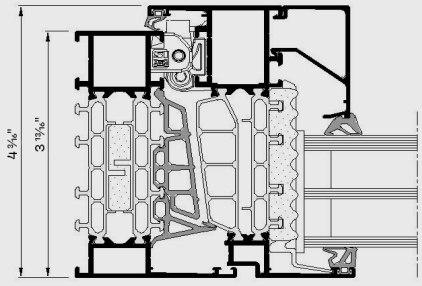
Architect: Crahay Architecture
Photo: Laurent Brandajs

MASTERLINE 10

No compromise

Reynaers Aluminium





Masterline 10 systems are designed for low energy and passive buildings without compromising on design freedom, daylight access, or safety. It is designed for the building trends of today and tomorrow: low energy building, safe homes, maximum daylight access, and superb performance in the most extreme weather conditions. Masterline 10 doors are available in 2 different compositions, as terrace doors or as flush doors. Masterline 10 windows are available with Passive House certificate.

cool, temperate climate

CERTIFIED COMPONENT
Passive House Institute

THE SYSTEM FOR LOW ENERGY BUILDS

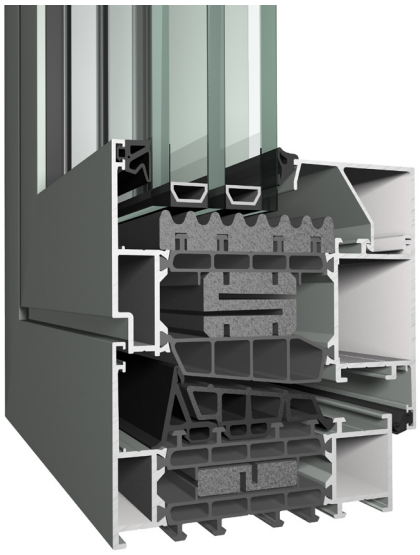
Don't settle for the compromise: with MasterLine 10 you can have it all. This new systems unites the best of all worlds: unlimited design freedom combined with ultimate comfort and optimal insulation performance.

PRODUCT OFFERINGS

The product offering of MasterLine 10 windows and doors is truly unique in its applicability: inward opening windows, inward or outward opening balcony doors, a full range of transoms and frames, connection profiles with Sliding and Curtain Wall system and design freedom.

The windows are offered with a Passive House certificate!

The combination of all these features makes MasterLine 10 the ideal solution for residential as well as commercial projects.



Functional

Terrace Door

ENERGY EFFICIENCY MADE TO MEASURE

MasterLine features different insulation levels: offering solutions for high insulated, low energy, and even passive houses. These different levels of insulation are achieved by the integration of new and clever materials. For the High Insulation+ variant, innovative insulation bars are incorporated, which use a low emission foil and thus improve the insulation value by reflecting and retaining heat.

... EVEN CERTIFIED FOR PASSIVE HOUSES

MasterLine 10 windows are certified by the reputable Passive House Institute. The newly achieved certificates add further credibility to Reynaers' sound reputation as a developer of sustainable aluminum systems for energy-efficient building. These achievements should not be seen in insulation but rather as a continuation along the route towards increasingly sustainable aluminum solutions for the American building industry.

cool, temperate climate

CERTIFIED COMPONENT

Passive House Institute

TECHNICAL CHARACTERISTICS			
		FUNCTIONAL	TERRACE DOOR
Min. visible width inward opening window or door	Frame	2 3/8"	2 3/8"
	Vent	1 7/16"	2 5/8"
Min. visible width outward opening window or door	Frame	-	13/16"
	Vent		4 7/16"
Min. visible width T-profile		3 7/16"	3 7/16"
Overall system depth window	Frame	3 13/16"	3 13/16"
	Vent	4 3/16"	
Rebate height		1 1/16"	
Glass thickness	Frame	up to 3 7/16"	3 13/16"
	Vent	up to 3 7/16"	up to 3 7/16"
Glazing method		dry glazing with EPDM or neutral silicones	
Thermal break		2 3/8" glass fibre reinforced noryl strips	

PERFORMANCE SPECIFICATIONS (1)				FIXED	OPERABLE	DOOR
	ENERGY					
	Thermal Insulation (2) (Btu/hr·ft²·°F) per NFRC 102			Triple	Triple	Triple
		Fixed	Uw	0.14		
			SHGC	0.19		
		Open in	Uw		0.16	0.16
			SHGC		0.15	0.19
		Open out	Uw		0.20	0.17
			SHGC		0.10	0.10
	COMFORT					
	Acoustic performance(3) ASTM E90-09/1332		STC	46	46	-
			OITC	40	40	-
	Air tightness, max. test pressure(4) (cfm/ft²)			0.01	0.01	-
	Water tightness(5) (psf)			15	15	-
	AAMA Rating AAMA/WDMA/CSA 101/I.S.2/A440, NAFS			AW PG100	AW PG100	-

This table shows classes and values of performances, which can be achieved for specific configurations and opening types.

(1) All results based on gateway sizes; vary depending on glass/profile combinations | Above Uw & SHGC values do not necessarily work in combination.
(2) Uw is the measure of heat transfer through the fenestration product with glass. The lower the Uw, the better the thermal insulation of the element.
(3) The sound reduction index measures the capacity of the sound reduction performance of the frame and glass.
(4) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
(5) Water tightness testing applies a specified air pressure differential while simultaneously spraying water on to the ext. face of the assembly at the rate of 5 gal/hr/ft².
(*) *Above test results are based on testing carried out on Masterline 8 and cover by 'Waiver of Retest' from FGIA.*

REYNAERS CANADA
www.reynaers.ca • info.canada@reynaers.com
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Reynaers Aluminium

FGIA

American Architectural Manufacturers Association

AIA Continuing Education Provider

NGA NATIONAL GLASS ASSOCIATION MEMBER

Efficient Windows Collaborative

NFRC National Fenestration Rating Council®

TOGETHER FOR BETTER