

sapa:

buildingsystem

ARCHITECTURAL ALUMINIUM SOLUTIONS



NRGY 62

Innovative curtain walling

Sapa Building System



NRGY 62 is an innovative facade system that combines smart profile design with the demands of contemporary building design. It allows large glass sizes to maximize light penetration.

Innovative 62mm facade system

- › The NRGY 62 façade system allows large glass sizes to maximise light penetration.
- › 400 kg load can standard be accommodated due to the smart pin system.
- › The system encompasses a wide range of design curtain wall solutions and facilitates easy integration of various infills, concealed vents, photo-voltaics, ventilation etc.
- › The mullion and transoms design include a multi slot, which facilitates the use of sun shading or any hanging devices on the façade.

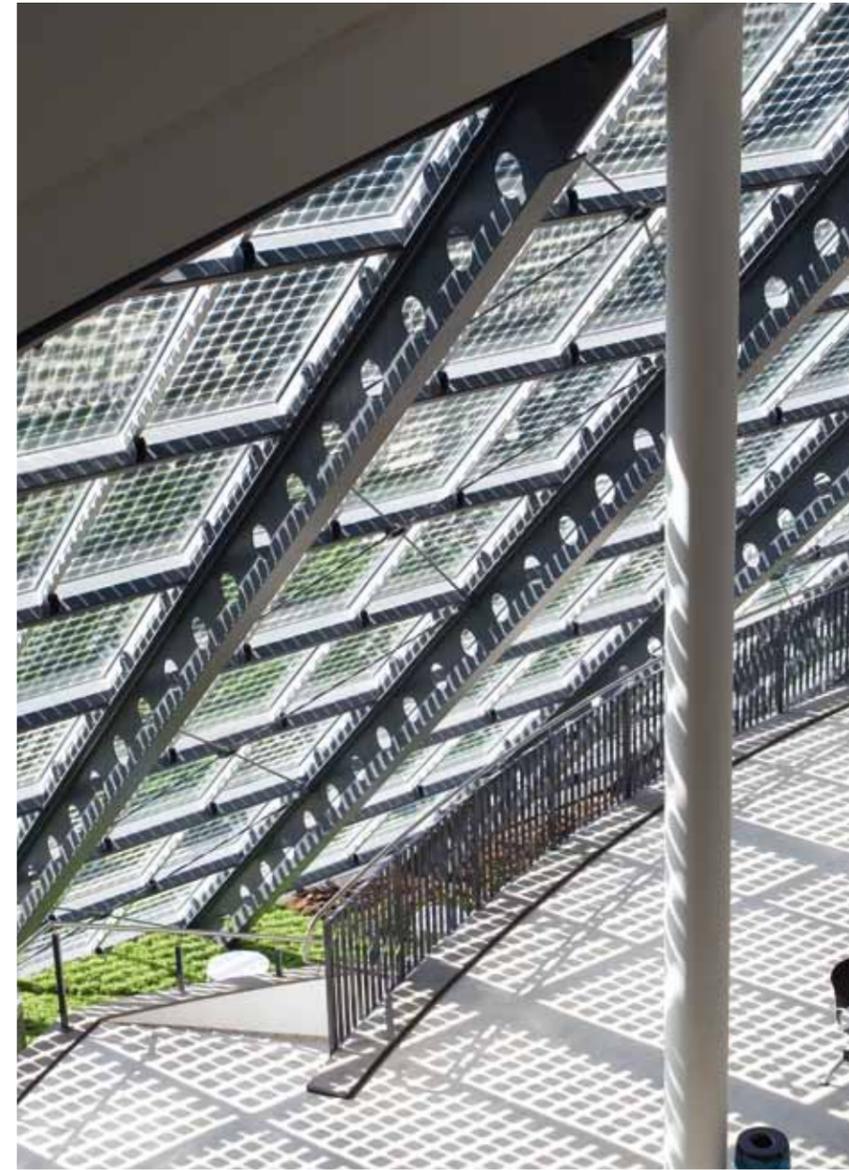


« Simplicity is the ultimate sophistication »

Da Vinci

Key features

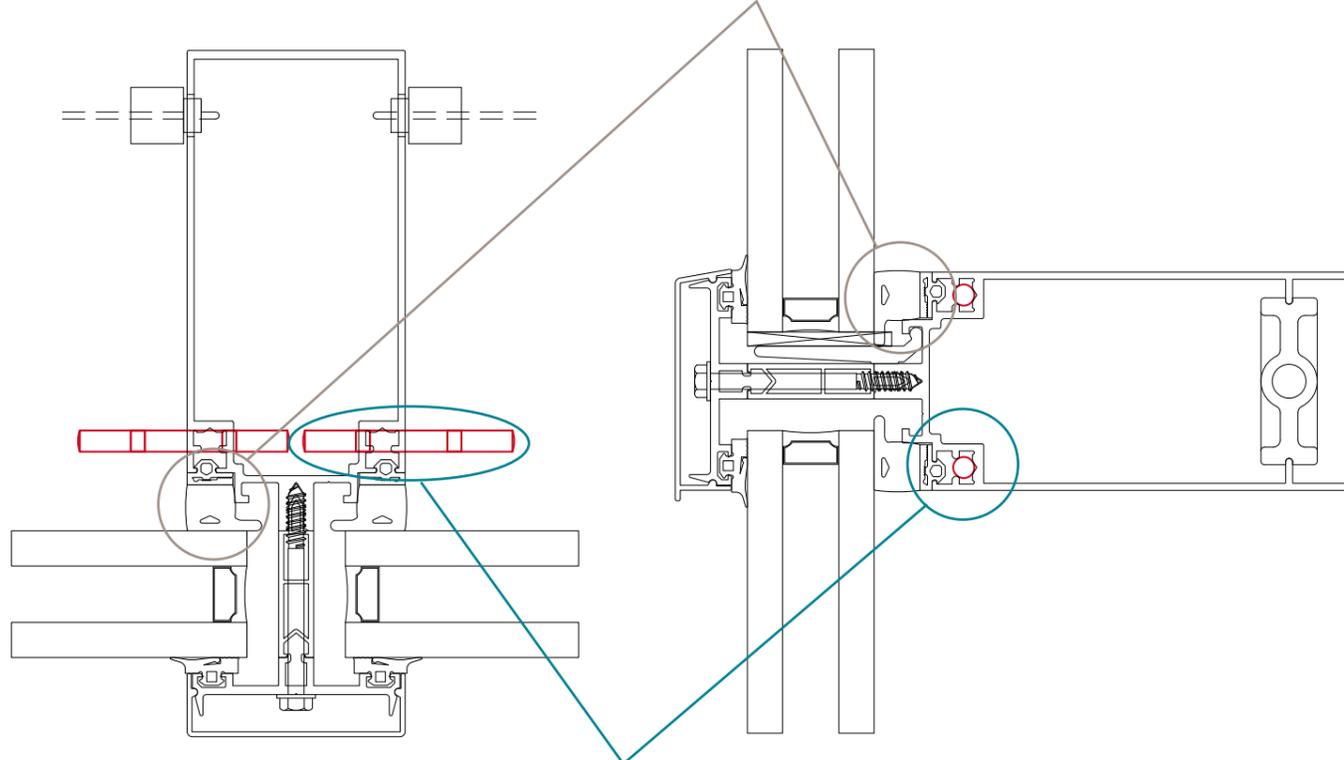
- » The NRGY 62 system is designed to accommodate large double or triple glazed units.
- » Optimized production due to smart profile design, same profiles can be used as mullions and transoms.
- » Increased glass coverage allows movements caused by life loads.
- » Unique smart pin system allows standard weights up to 400 kg. Weights up to 600 kg in combination with a T-connector.
- » Easy integration of solar shaders, brackets, cabling, BIPV, etc.
- » NRGY 62 SHI with SBS Foampower® technology is 'Passivhaus' certified by IFT Rosenheim.
- » Outstanding weather and seismic performances tested according EN and CWCT standards..
- » Fast onsite installation due to innovative 2-component gasket offering outstanding results with no need to seal the corner junctions.



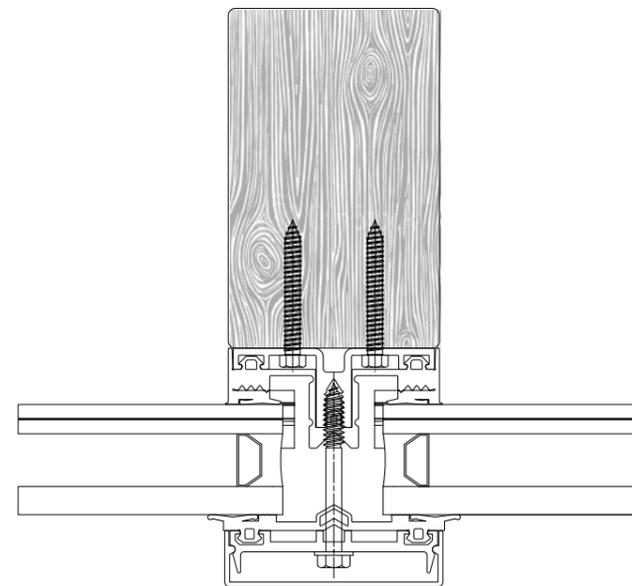
NRGY 62 Applied on wood or steel

- » Façade system designed for curtain walls and glass roofs.
- » NRGY 62 AP is to be applied on any steel or wood support profile with a width from 60mm.
- » Integrated drainage system by continuous gasket

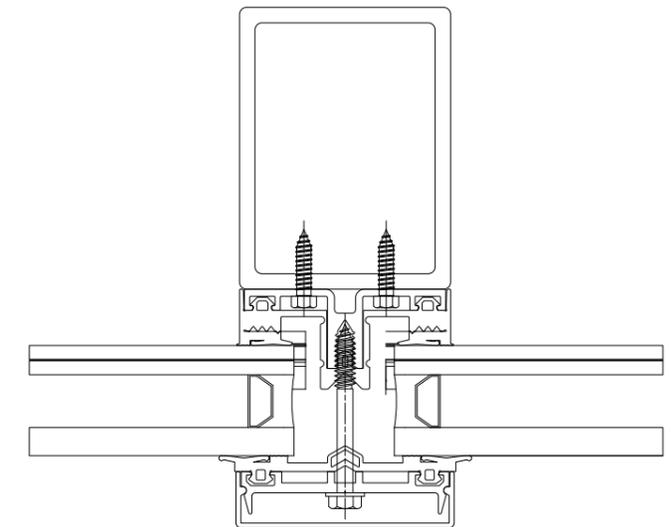
Innovative 2-component gaskets for outstanding performance, no need to seal the corners on site



Smart pins system for fast and easy installation, loads up to 400 kg



N62 on wood

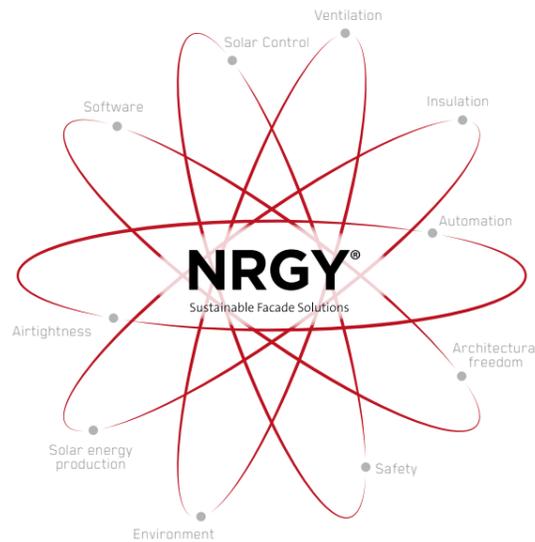


N62 on steel



Intelligent solutions for creative facades

- » In this age of global warming, we must act to preserve the future of our planet. Buildings are throughout their lifecycle largely contributing to emissions. Sapa Building System's aim is to be part of the solution. Our mission is to constantly challenge ourselves to develop and deliver better solutions for zero energy buildings (ZEB).
- » A high performance building skin is key to achieve zero energy buildings. High insulated and airtight façade systems contribute largely to preserve energy. By adding solar shading, controlling the opening parts and integrating decentralized ventilations, the use of energy is minimal.
- » On site renewable energy production by solar electricity generation via building integrated photo-voltaics.



Save



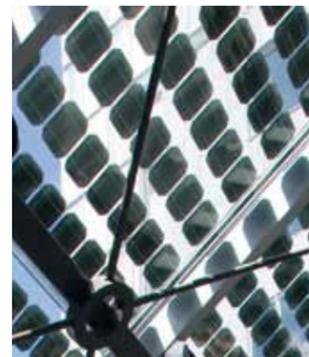
Sapa's innovative NRGY façade system has insulation capacities beyond passive house levels.

Control



NRGY Solar shades, automation and ventilation for a better inner climate.

Produce



Solar energy production by the use of photovoltaic's integrated in the façade.

Thermal Steps

NRGY 62 SHI, thermal performance according to "passive house" standards.

- » $U_m, U_t = 0,88 \text{ W/m}^2\text{K}$
- » Foam-Power®-insulator with a depth of 59 mm

$U_g =$	1,1	0,7	0,5
$U_{\text{curtain wall}} =$	-	0,80	0,61

NRGY 62 SI

- » $U_m, U_t = 0,97 - 0,98 \text{ W/m}^2\text{K}$
- » Foam-Power®-insulator with a depth of 52 mm

$U_g =$	1,1	0,7	0,5
$U_{\text{curtain wall}} =$	1,19	0,82	0,64

NRGY 62 I

- » $U_m, U_t = 2,0 - 2,2 \text{ W/m}^2\text{K}$

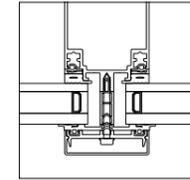
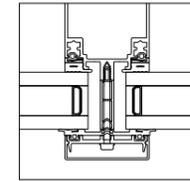
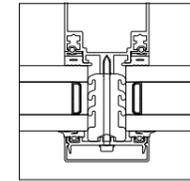
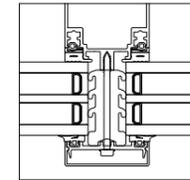
$U_g =$	1,1	0,7	0,5
$U_{\text{curtain wall}} =$	1,26	0,89	0,71

NRGY 62 BASIC

- » $U_m, U_t = 2,4 - 2,7 \text{ W/m}^2\text{K}$

$U_g =$	1,1	0,7	0,5
$U_{\text{curtain wall}} =$	1,29	0,93	0,74

$U_{\text{curtain wall}}$ values had been calculated for 4m² model with glass.



Dimensions

Sightline	62 mm
Mullion depth	41 - 246 mm
inertia (lxx: wind)	41,47 - 1924,44 cm ⁴
Transom depth	50 - 245 mm
inertia (lxx: wind)	31,87 - 1368,49 cm ⁴
inertia (lyy: glass)	32,50 - 123,61 cm ⁴

Glazing

Infill thickness	4 - 54 mm
Glazing method	dry glazed with EPDM gaskets

Performance

Thermal break	4 - 59 mm
Thermal insulation $U_{\text{CW}} < 1,2 \text{ W/m}^2\text{K}$ with glass $U_g = 1,1 \text{ W/m}^2\text{K}$	
Thermal insulation $U_{\text{CW}} < 0,66 \text{ W/m}^2\text{K}$ with glass $U_g = 0,7 \text{ W/m}^2\text{K}$ (IFT Rosenheim Passive house model)	
Tested according EN and CWCT standards	
Air permeability	AE 750 EN 12152
Water tightness	RE 1500 EN 12154
Wind resistance	3000 Pa EN 13116
Impact test	class 5 EN14019
Seismic	tested according AAMA 501.4

This information is only an indication. For more information, please consult your local Sapa Building System branch.

Sapa Building System, is one of the largest suppliers of aluminium building systems in Europe and is part of the Swedish group Sapa, the world's largest developer producer and distributor of extruded aluminium profile systems. Sapa Building System aims for well-developed systems and project solutions offering a tangible added value to fabricators, architects, investors and home-owners.

Windows and Doors

Sliding Systems

Curtain Walls

Conservatories

Balustrades, gates and others

BIPV

Your local Sapa Building System fabricator

Sapa Building System NV

Postal address **Industrielaan 17, BE-8810 Lichtervelde** Tel. **+32 51 72 96 66** Fax **+32 51 72 96 89**

Postal address **Industriezone Roosveld 11, BE-3400 Landen** Tel. **+32 11 69 03 11** Fax **+32 11 83 20 04**

E-mail **buildingsystem.be@sapagroup.com** Website **www.sapabuildingsystem.be**

sapa:

buildingsystem

ARCHITECTURAL ALUMINIUM SOLUTIONS