

TERMO 85 PA

PROZORI I VRATA

WINDOWS AND DOORS



FEAL
PERFECTION IN ALUMINIUM



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TERMO 85 PA PROZORI I VRATA

TERMO **85 PA** je sistem aluminijskih profila s prekinutim termičkim mostom, razvijen za prozore, balkonska i ulazna vrata visoko izoliranih objekata.

Ovaj sistem ispunjava najstrože kriterije energetske učinkovitosti, uključujući standarde pasivne kuće ($U_w \leq 0.80 \text{ W/m}^2\text{K}$), što ga čini idealnim rješenjem za moderne građevinske projekte s naglaskom na održivost i uštedu energije.

Sistem TERMO **85 PA** postiže iznimnu toplinsku izolaciju zahvaljujući naprednim poliamidnim trakama nove generacije od 54 mm, termoizolacijskoj ispuni po opsegu stakla i dodatnim izolacijskim elementima unutar profila. S koeficijentom prolaza topline kroz okvir $U_f = 0.75 \text{ W/m}^2\text{K}$, u kombinaciji s troslojnim staklom ($U_g = 0.70 \text{ W/m}^2\text{K}$) i odgovarajućim distancerom, sistem dostiže ukupni $U_w = 0.78 \text{ W/m}^2\text{K}$ (dimenzija prema EN 10077-2: 1230×1480 mm).

Sistem TERMO **85 PA** namijenjen je za izradu energetski visoko učinkovitih prozora, balkonskih i ulaznih vrata s otvaranjem prema unutra. Podržava različite tipove otvaranja, uključujući otklopno, zaokretno i otklopno-zaokretno, a zahvaljujući kompatibilnosti s fasadnim sistemima, idealan je za široku primjenu u modernoj arhitekturi.

TERMO 85 PA WINDOWS AND DOORS

TERMO **85 PA** is an aluminum profile system with a thermal break, developed for windows, balcony doors, and entrance doors of highly insulated buildings. This system meets the strictest energy efficiency criteria, including passive house standards ($U_w \leq 0.80 \text{ W/m}^2\text{K}$), making it an ideal solution for modern construction projects with a focus on sustainability and energy savings.

The TERMO **85 PA** system achieves exceptional thermal insulation thanks to advanced new-generation 54 mm polyamide strips, thermal insulation infill around the glass perimeter, and additional insulating elements within the profiles. With a frame thermal transmittance coefficient of $U_f = 0.75 \text{ W/m}^2\text{K}$, combined with triple glazing ($U_g = 0.70 \text{ W/m}^2\text{K}$) and an appropriate spacer, the system achieves an overall $U_w = 0.78 \text{ W/m}^2\text{K}$ (dimensions according to EN 10077-2: 1230 × 1480 mm).

The TERMO **85 PA** system is intended for the manufacture of highly energy-efficient windows, balcony doors, and entrance doors with inward opening. It supports various opening types, including tilt, turn, and tilt-and-turn, and thanks to its compatibility with façade systems, it is ideal for wide application in modern architecture.

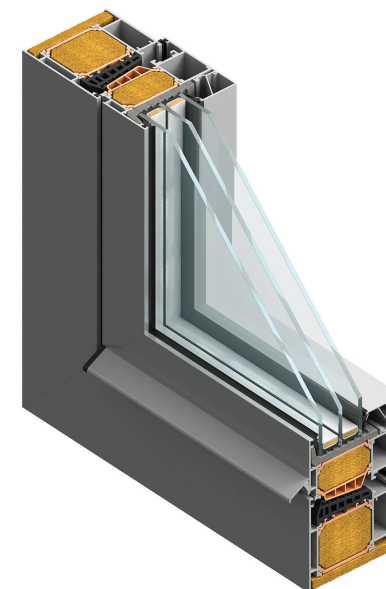
TERMO 85 PA

ZNAČAJKE SISTEMA:

Sistem TERMO **85 PA** je namijenjen za izradu prozora, balkonskih i ulaznih vrata visoko izoliranih objekata, koji ispunjava i najstrože kriterije u pogledu energetske učinkovitosti, odnosno zadovoljava standarde pasivne kuće $U_w \leq 0.80 \text{ W/m}^2\text{K}$. S koeficijentom prolaza topline kroz okvir $U_f = 0.75 \text{ W/m}^2\text{K}$, u kombinaciji s troslojnim staklom $U_g = 0.70 \text{ W/m}^2\text{K}$ i odgovarajućim distancerom stakla ukupan koeficijent prolaza topline kroz prozor (dimenzija pr. EN 10077-2 1230x1480 mm) iznosi $U_w = 0.78 \text{ W/m}^2\text{K}$, što sam sistem svrstava u proizvode koji su kompatibilni za ugradnju u pasivne kuće, a kao rezultat svega je potvrda od Passive Houses Institute (PHI) - Darmstadt Germany.

Kako bi se dobili ovakvi rezultati, odnosno radi poboljšanja toplinskih karakteristika, kod ovog sistema osim konstrukcije samih profila koristili su se i najsuvremeniji materijali, s vrlo niskim koeficijentom toplinske provodljivosti λ (W/mK).

- poliamidne trake nove generacije
- termoizolacijska ispuna po opsegu stakla
- termoizolacijska ispuna u komorama profila
- koekstrudirane brtve



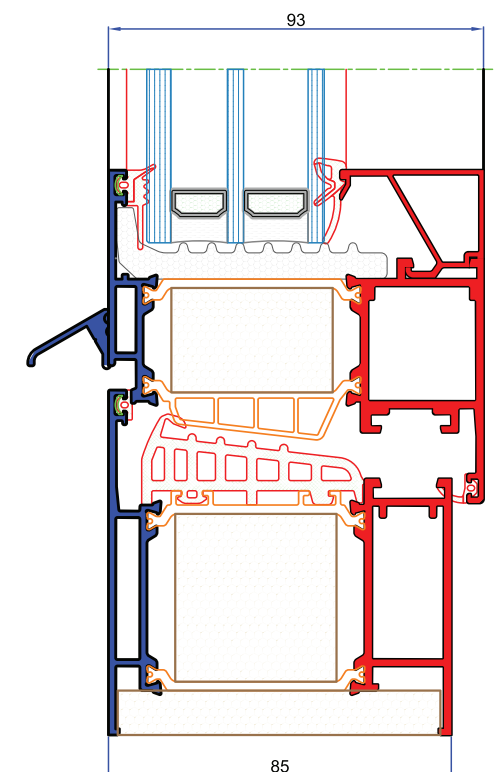
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SYSTEM FEATURES:

System TERMO **85 PA** is used for production of window, balcony and entrance door for buildings with high energy savings demands, it meets the strictest energy efficiency criteria, which means it meets standard for passive house of $U_w \leq 0.80 \text{ W/m}^2\text{K}$. The heat transfer coefficient through frame $U_f = 0.75 \text{ W/m}^2\text{K}$, in combination with three pane glass $U_g = 0.70 \text{ W/m}^2\text{K}$ and the appropriate spacer glass total heat transfer coefficient through window (dimensions from EN 10077-2 1230x1480 mm) is $U_w = 0.78 \text{ W/m}^2\text{K}$, this classifies the system in products which are compatible for installation in passive house, and the result of all this is the confirmation by Passive Houses Institute (PHI) - Darmstadt Germany.

To achieve this results of improvement thermal characteristics, this system uses, along with special profile shape the latest materials, with a low thermal conductivity coefficient λ (W/mK).

- polyamide strips of a new generation
- thermal insulation around the glass
- thermal insulation in chambers of profile
- coextruded gaskets



TEHNIČKE KARAKTERISTIKE SISTEMA:

TECHNICAL CHARACTERISTICS:

Dubina okvira / Frame depth
Dubina krila / Sash depth
Dubina ispune / Infill depth
Poliamidne trake / Polyamide strips
Zrakopropusnost / Air permeability
Vodonepropusnost / Watertightness
Otpornost na opterećenje vjetrom / Resistance to wind load
Zaštita od buke / Sound insulation
Proračun U_w koeficijenta / U_w coefficient calculation

85 mm
93 mm
Do / up to 46 mm
54 mm
EN 12207 (class 4)
EN 12208 (class E1350)
EN 12210 (class C5/B5)
EN ISO 717-1 (Rw do 41 dB)
DIN EN ISO 10077-1
($U_w=0.78 \text{ W/m}^2\text{K}$ za $U_g=0.7 \text{ W/m}^2\text{K}$ i $U_f=0.75 \text{ W/m}^2\text{K}$)