

TEHNOMARKET TMF 55

Sistem aluminijumskih profila
za proizvodnju kontinualnih, polustrukturalnih
i strukturalnih fasada sa prekidom termičkog mosta

*Aluminium profiles system
for continual, semi structural and structural
facades with thermal break*



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TEHNIČKI OPIS -SRPSKI

Sistem profila ALUMINIK TMF 55 čini grupa konstruktivnih profila projektovanih za izradu aluminijumskih ostakljenih fasada. Osnovni sistem sačinjen je od dva podsistema:

- ALUMINIK TMF C55, projektovan za izradu kontinualnih fasada i
- ALUMINIK TMF S55, namenjen izradi polustrukturnih fasada.

Primenjeni koncept omogućava dalji razvoj novih podsistema zasnovanih na istoj osnovi.

Profili iz sistema ALUMINIK TMF 55 se dobijaju postupkom EKSTRUZIJE u pogonima firme «TEHNOMARKET». Kao sirovina koriste se legure po standardu AA6063 i AA6060 (DIN standard AlMgSi0.5).

Oba podsistema imaju integrisan termički prekid. ALUMINIK TMF S55 ostvaruje termički prekid trakama od poliamida Pa 6.6, sa 25% staklenih vlakana.

Sastav i mehanička svojstva poliamidnih traka su atestirana. Sila smicanja spoljnog i unutrašnjeg aluminijumskog profila koje povezuje poliamidna traka kontroliše na digitalnom uređaju za ispitivanje. Ovakvom konstrukcijom obezbeđena su odlična TERMOizolaciona svojstva.

Fasade ALUMINIK TMF 55 imaju integrisane sisteme za ventiliranje i drenažu tako da je potpuno isključena mogućnost pregrevanja fasade u letnjim mesecima ili prodor atmosferske vode.

Zaptivanje između rama i krila obezbeđuju E.P.D.M. zaptivke otporne na starenje i uticaj ultraljubičastih zraka.

Površinska obrada profila može biti anodna oksidacija (eloksaža), debljine oksidnog sloja minimalno 15μ. Drugi postupak površinske obrade profila je elektrostatska pulverizacija (plastifikacija) debljine sloja do 70μ. Površinska obrada spoljnog i unutrašnjeg dela profila može biti u različitoj boji.

TECHNICAL DESCRIPTION -ENGLISH

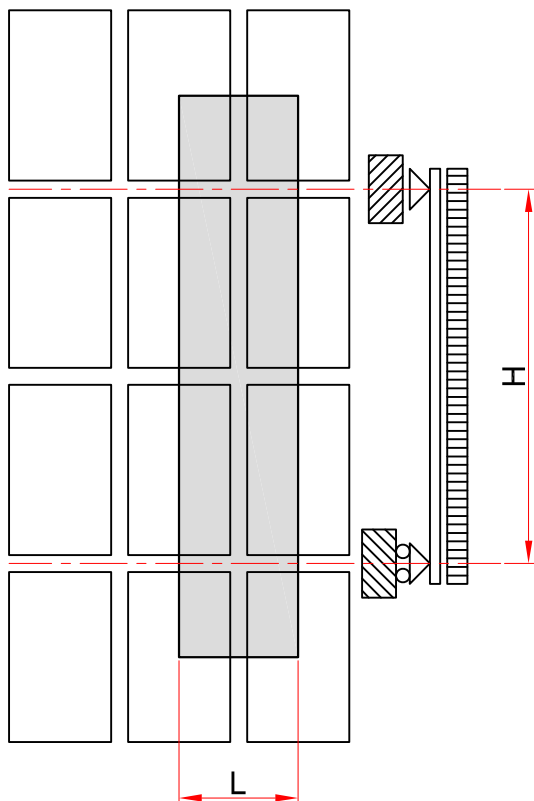
ALUMINIK TMF55 is full set of thermally insulated aluminium profiles and accessories for semistructural and continual hanged facades manufacturing.

Polyamide strips Pa 6.6 with minimum 25% of glass fibers perform thermal break. Extruded profiles are of AA6060 or AA6063 Primary Aluminium alloy with Tensile strength $\sigma=220$ N/mm² .Gaskets and sealants are UV resistant E.P.D.M.

If applied with Low Emisivity Glassing with $U_g=1.4$ W/m²K this system has a total $U= 2.1$ W/m²K.

This System is featured for manufacturing in small and medium workshops.

We can deliver the profiles cut-to-length which enables better optimization and cost effective production of the facades.

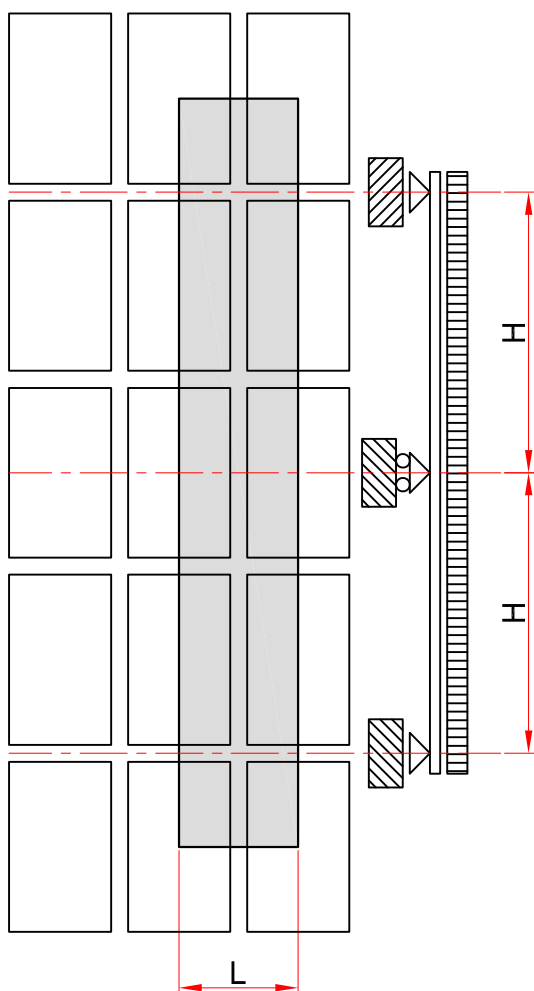


MONTAŽA SA OSLONCEM U DVE TAČKE
Two point support

$$f_{\max} = \frac{5}{384} \times \frac{qLH^4}{EI} \leq f_{\text{doz.}}$$

$$\sigma_{\max} = \frac{1}{8} \times \frac{qLH^2}{W} \leq \sigma_{\text{doz.}}$$

H	VERTIKALNI MEĐUOSOVINSKI RASPON Axial spacing - vertical	cm
L	HORIZONTALNI MEĐUOSOVINSKI RASPON Axial spacing - horizontal	cm
q	OPTEREĆENJE loading	N/cm ²
E	MODUL ELASTIČNOSTI ALUMINIJUMA Aluminium modulus of elasticity	7000000 N/cm ²
I	MOMENT INERCIJE Moment of inertia	cm ⁴
W	OTPORNI MOMENT Modulus of section	cm ³



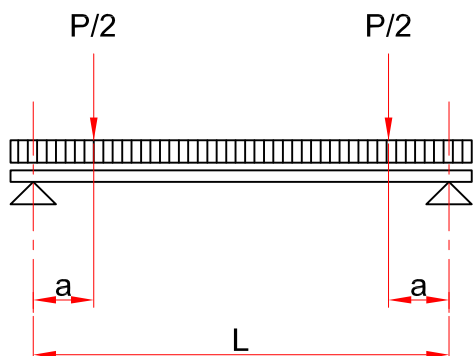
f max	MAKSIMALNI UGIB Max. deflection	cm
σ max	MAKSIMALAN NAPON Max. pressure	N/cm ²
f doz.	MAKSIMALNI DOZVOLJENI UGIB Max. allowed deflection	cm
σ doz.	MAKSIMALAN DOZVOLJENI NAPON Max. allowed pressure	N/cm ²

MONTAŽA SA OSLONCEM U TRI TAČKE
Three point support

$$f_{\max} = \frac{2}{369} \times \frac{qLH^4}{EJ} \leq f_{\text{doz.}}$$

$$s_{\max} = \frac{1}{8} \times \frac{qLH^2}{W} \leq \sigma_{\text{doz.}}$$

MONTAŽA SA OSLONCEM U DVE TAČKE
Two point support



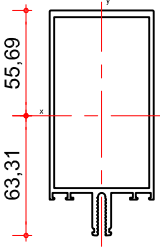
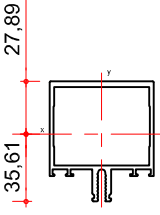
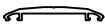
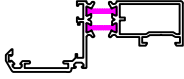
$$f_{\max} = \frac{Pa}{24EI} \times (3L^2 - 4a^2) \leq f_{\text{doz.}}$$

$$\sigma_{\max} = \frac{Pa}{W} \leq \sigma_{\text{doz.}}$$

a -usvojeno 150mm (pozicija PA pakne za oslonac stakla)

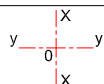
a - adopted 150mm (position of PA strip for panel)

a	DISTANCA POZICIJE PA PAKNE Posicion of PA strip	cm
L	RAZMAK OSLONACA Support distance	cm
P	MASA ISPUNE Panel mass	N
E	MODUL ELASTIČNOSTI ALUMINIJUMA Aluminium modulus of elasticity	7000000 N/cm ²
I	MOMENT INERCIJE Moment of inertia	cm ⁴
W	OTPORNI MOMENT Modulus of section	cm ³
f max	MAKSIMALNI UGIB Max. deflection	cm
σ max	MAKSIMALAN NAPON Max. pressure	N/cm ²
f doz.	MAKSIMALNI DOZVOLJENI UGIB Max. allowed deflection	cm
σ doz.	MAKSIMALAN DOZVOLJENI NAPON Max. allowed pressure	N/cm ²

OZNAKA Code	PROFIL Section	MASA Weight (Kg/m')	OPIS Description
			
TMF1	 $S=9,03 \text{ cm}^2$ $J_x=147,83 \text{ cm}^4$ $J_y=38,72 \text{ cm}^4$	2,482	Stub Column
TMF2	 $S=5,77 \text{ cm}^2$ $J_x=26,2 \text{ cm}^4$ $J_y=20,8 \text{ cm}^4$	1,588	Prečka Rail
TMF3		0,430	Podkapa Undercap
TMF4		0,264	Kapa Cap
TMF5		0,238	Kapa Cap
TMF6		1,298	Krilo Sash
TMF7		0,553	Prečka Rail
TMF8		0,651	Dodatni profil Additional profile

OZNAKA
Code

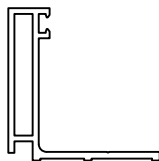
PROFIL
Section



MASA
Weight (Kg/m')

OPIS
Description

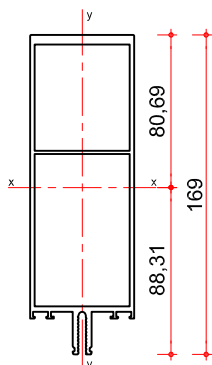
TMF9



0,580

Profil rama
Frame profil

TMF10

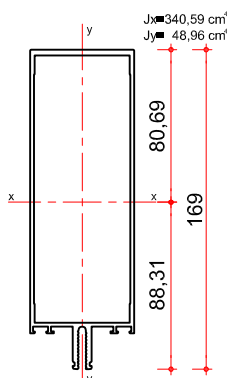


$S=13,24 \text{ cm}^2$
 $J_x=430,97 \text{ cm}^4$
 $J_y=58,75 \text{ cm}^4$

3,641

Stub
Column

TMF11

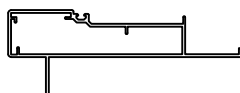


$S=10,10 \text{ cm}^2$
 $J_x=340,59 \text{ cm}^4$
 $J_y=48,96 \text{ cm}^4$

2,776

Stub
Column

TMF12



1,239

Završni profil
Ending profile

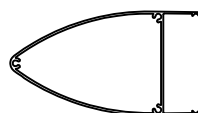
TMF13



0,291

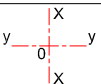
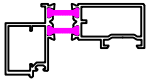
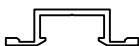
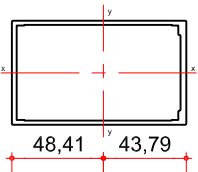
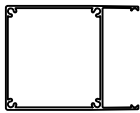
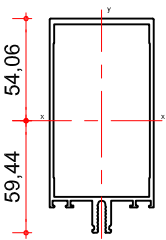
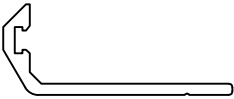
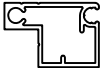
Dodatni profil
Additional profile

TMF15



0,931

Kapa
Cap

OZNAKA Code	PROFIL Section	MASA Weight (Kg/m')	OPIS Description
			
TMF16		1,233	Krilo Sash
TMF17		0,216	Kapa Cap
TMF18		0,215	Dodatni profil Additional profile
TMF19	 $S=7,01 \text{ cm}^2$ $Jx=35,15 \text{ cm}^4$ $Jy=87,04 \text{ cm}^4$	1,928	Dodatna prečka Additional rail
TMF20		0,848	Kapa Cap
TMF21	 $S=7,77 \text{ cm}^2$ $Jx=123,5 \text{ cm}^4$ $Jy=34,9 \text{ cm}^4$	2,138	Prečka Rail
TMF22		0,170	Dodatni profil Additional profile
TM44		0,278	Distancer Distance profile