

Product Passport

Facade system in accordance to EN 13830



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Product Passport number **P50L/P60L/P50S 070126**

Systems **P50L**
P60L
P50S

Product line Facade systems

Materials Aluminium: EN-AW 6063 T5
Thermal breaks: PVC/PA
Gaskets: EPDM

Surface treatment Anodizing
Powder coating

Glass thickness 20..62 ⁽¹⁾

Frame depth 10..257 mm ⁽¹⁾

Frame width 50 or 60 mm

⁽¹⁾ Varies by requirements

Test reports:

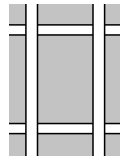
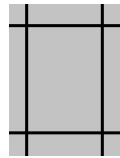
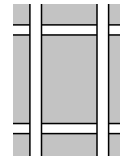
RTE3686-05
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RTE3965/04
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TEV-15/09-02en
EUF129-22005593T1-EN
EUF129-22000466-T1-EN
TRT/22470/2016
TRT/2463/2016
SeAMK 3.2.2021
SeAMK 29.1.2021
EUF129-25003901-T1-EN

17-000124-PR02
17-000124-PR03
17-000124-PR05

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Summary of systems features:

EN 13830:2003	EN 13830:2015	Name:	P50L / P50LE	P50S	P60L	
		Description:	 Facade system (frame width 50 mm)	 Structural glazing facade system	 Facade system (frame width 60 mm)	
4.1	4.6	Resistance to wind load (EN 13116) (declared value according to project)	$\leq 2 \text{ kN/m}^2$	$\leq 2 \text{ kN/m}^2$	npd	
4.2	4.5	Dead load	declared value according to project	declared value according to project	declared value according to project	
4.3	4.8	Resistance against impact (EN 14019)	I5 / E5	I5 / E5	npd	
4.4	4.15	Air permeability (EN 12152)	AE1200	EA1200	npd	
4.5	4.4	Watertightness (EN 12154)	RE1200	RE1200	npd	
4.6	4.12	Airborne sound insulation (declared value according to project)	R_w 42dB	R_w+C 40dB	R_w+C_{tr} 37dB	npd
4.7	4.14	Thermal transmittance (EN ISO 12631) (U_{cw})	declared value according to project	declared value according to project	declared value according to project	
4.8	4.2	Fire resistance ⁽¹⁾ (E / EI)	o↔i EI30 / EI60	npd	npd	
4.9	4.1	Reaction to fire	npd	npd	npd	
4.10	4.3	Fire propagation	npd	npd	npd	
4.11	4.18	Durability	npd	npd	npd	
4.12	4.16	Water vapour permeability	npd	npd	npd	
4.15	4.11	Thermal shock resistance	npd	npd	npd	
4.17	4.9	Resistance to horizontal loads	declared value according to project	declared value according to project	declared value according to project	

		Burglar resistance ⁽²⁾ (EN 1627)	RC2, RC3		
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NOTE! Values in the table apply for tested elements (see test reports).
Values according to project are declared separately.

⁽¹⁾ Fire resistant curtain wall P50L EI30/ EI60

⁽²⁾ Burglar resistance curtain wall P50L RC2/ RC3

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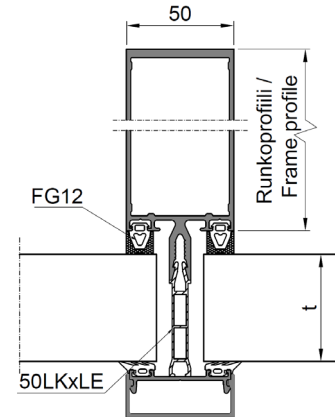
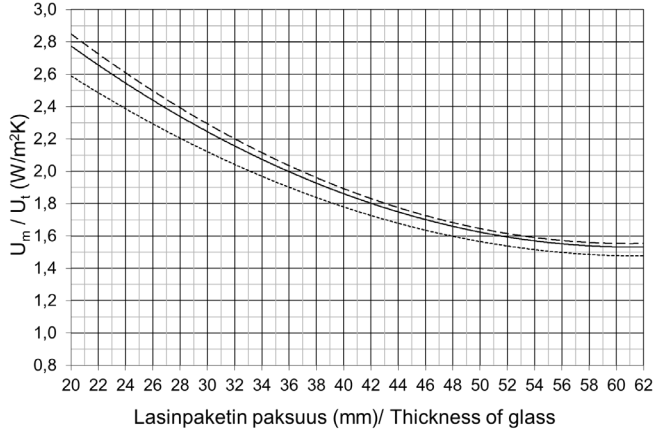
Facade system in accordance to EN 13830

P50L U_m, U_f - values for facade systems

Thermal transmittance of the frame U_f, U_m are calculated according to standard SFS-EN ISO 10077-2 and EN ISO 12631. The effect of the glazing screws is taken into account

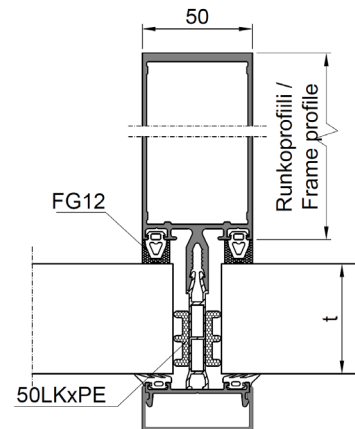
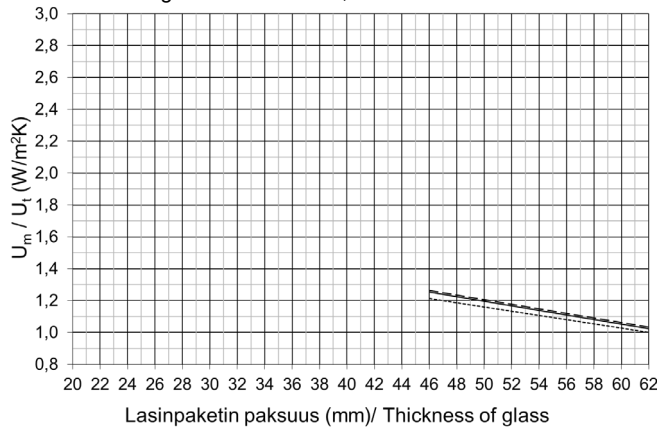
P50L facade system U_m -/ U_f -values

Frame gasket FG5 / FG12, thermal break 50LKxLE



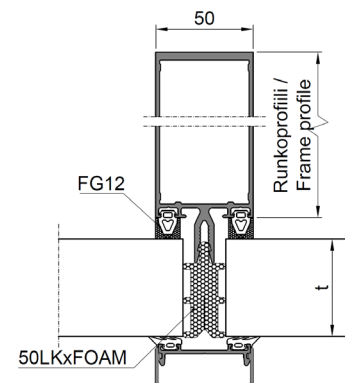
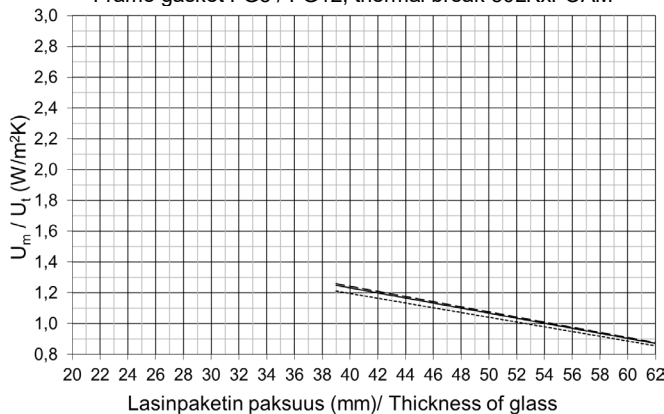
P50LP facade system U_m -/ U_f -values

Frame gasket FG5 / FG12, thermal break 50LKxPE



P50PE facade system U_m -/ U_f -values

Frame gasket FG5 / FG12, thermal break 50LKxFOAM



Runkoprofiili / Frame profile

- — — 5021245 (200mm)/ 5021450 (207mm)
- — — 5021066 (120mm)/ 5021625 (127mm)
- - - - - 5021394 (40mm)/ 5021621 (47mm)

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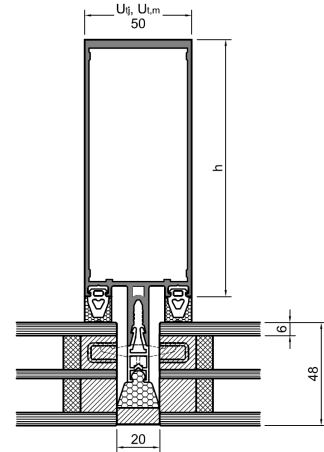
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P50S U_m, U_f values for facade systems

Thermal transmittance of the frame U_t, U_m are calculated according to standard SFS-EN ISO 10077-2 and EN ISO 12631. The effect of the glazing fixing is taken into account

Glass thickness 48mm:

Välilista IGU Spacer	$\psi_{t,m}$	h=120		h=200	
		$U_{T,J}$: W/m ² K	$U_{t,m}$ (W/m ² K)	$U_{T,J}$: W/m ² K	$U_{t,m}$ (W/m ² K)
Swiss Spacer Ultimate	0,064	4,6	2,1	4,7	2,2
Chromatech Ultra F	0,079	5,1	1,9	5,2	2,0
Chromatech	0,11	6,3	1,9	6,4	2,0



Glass thickness 60mm:

Välilista IGU Spacer	$\psi_{t,m}$	h=120		h=200	
		$U_{T,J}$: W/m ² K	$U_{t,m}$ (W/m ² K)	$U_{T,J}$: W/m ² K	$U_{t,m}$ (W/m ² K)
Swiss Spacer Ultimate	0,064	4,4	1,9	4,5	1,9
Chromatech Ultra F	0,079	4,9	1,8	5,0	1,8
Chromatech	0,11	6,1	1,7	6,2	1,8

