

# Product Passport

Facade system in accordance to EN 13830



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Product Passport number	<b>P50L/P60L/P50S 290524</b>
Systems	<b>P50L</b> <b>P60L</b> <b>P50S</b>
Product line	Facade systems
Materials	Aluminium: EN-AW 6063 T5 Thermal breaks: PVC Gaskets: EPDM
Surface treatment	Anodizing Powder coating
Glass	thickness 20..62 <sup>(1)</sup>
Frame depth	10..257 mm <sup>(1)</sup>
Frame width	50 or 60 mm

<sup>(1)</sup> Varies by requirements

## Test reports:

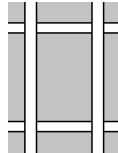
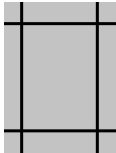
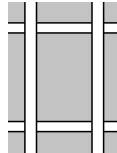
RTE3686-05  
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RTE3965/04  
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TEV-15/09-01en  
TEV-15/09-02en  
EUF129-22005593T1-EN  
EUF129-22000466-T1-EN  
TRT/22470/2016  
TRT/2463/2016  
SeAMK 3.2.2021  
SeAMK 29.1.2021

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	<b>Resistance to wind load (EN 13116)</b> (declared value according to project)	≤ 2 kN/m <sup>2</sup>	≤ 2 kN/m <sup>2</sup>	npd	
4.2	4.5	<b>Dead load</b>	declared value according to project	declared value according to project	declared value according to project	
4.3	4.8	<b>Resistance against impact (EN 14019)</b>	I5 / E5	I5 / E5	npd	
4.4	4.15	<b>Air permeability (EN 12152)</b>	AE1050	EA1200	npd	
4.5	4.4	<b>Watertightness (EN 12154)</b>	RE1050	RE1200	npd	
4.6	4.12	<b>Airborne sound insulation</b> (declared value according to project)	R <sub>w</sub> 42dB	R <sub>w</sub> +C 40dB	R <sub>w</sub> +C <sub>tr</sub> 37dB	npd
4.7	4.14	<b>Thermal transmittance (EN ISO 12631) (U<sub>cw</sub>)</b>	declared value according to project	declared value according to project	declared value according to project	
4.8	4.2	<b>Fire resistance <sup>(1)</sup> (E / EI)</b>	o↔i EI30 / EI60	npd	npd	
4.9	4.1	<b>Reaction to fire</b>	npd	npd	npd	
4.10	4.3	<b>Fire propagation</b>	npd	npd	npd	
4.11	4.18	<b>Durability</b>	npd	npd	npd	
4.12	4.16	<b>Water vapour permeability</b>	npd	npd	npd	
4.15	4.11	<b>Thermal shock resistance</b>	npd	npd	npd	
4.17	4.9	<b>Resistance to horizontal loads</b>	declared value according to project	declared value according to project	declared value according to project	

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

<sup>(1)</sup> Fire resistant curtain wall P50L EI30/ EI60

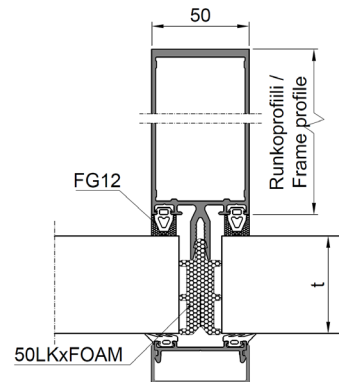
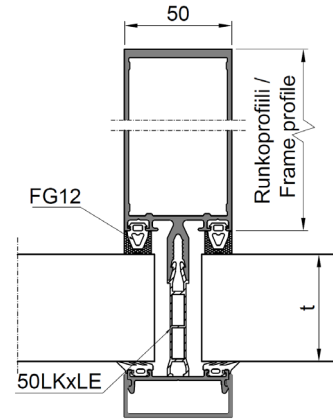
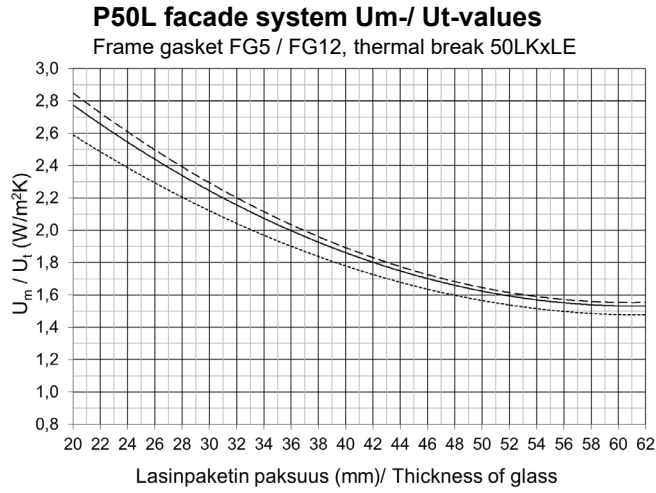
<sup>(2)</sup> Burglar resistance curtain wall P50L RC2/ RC3

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



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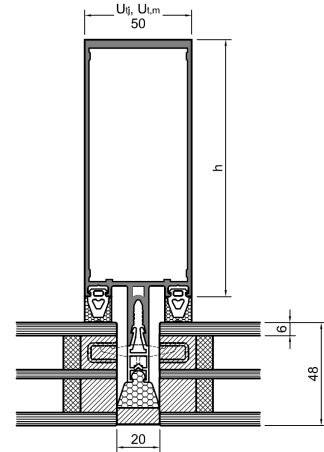
## Facade system in accordance to EN 13830

### 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 <sup>2</sup> K	$U_{t,m}$ (W/m <sup>2</sup> K)	$U_{T,j}$ : W/m <sup>2</sup> K	$U_{t,m}$ (W/m <sup>2</sup> 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 <sup>2</sup> K	$U_{t,m}$ (W/m <sup>2</sup> K)	$U_{T,j}$ : W/m <sup>2</sup> K	$U_{t,m}$ (W/m <sup>2</sup> 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

