

Product Passport

Door system in accordance to EN 14 351-1 +A1



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System	LK78 doors LK78H doors
Product line	Thermally insulated inward and outward opening door and double leaf door
Materials	Aluminium: EN-AW 6063 T5 Thermal breaks: polyamide Gaskets: EPDM
Surface treatment	Anodizing Powder coating
Glass/ infill panel	thickness 18..61 mm
Frame depth	78 mm
Frame width	30..150 mm

Product standard (hEN):

EN 14 351-1:2006+A1:2010

Test reports:

VTT-S-01642-13
VTT-S-01643-13
VTT-S-04200-13
VTT-S-04201-13
VTT-S-04202-13
VTT-S-04203-13
VTT-S-04204-13
VTT-S-04205-13
VTT-S-04206-13
VTT-S-04207-13
VTT-S-04210-13
VTT-S-04211-13
VTT-S-05511-13
13-001564-PR02

Properties/ Class *)

Resistance to fire (E / EI) npd	Smoke leakage (S) npd	Self-closing (C) npd	Resistance to wind load C3	Watertightness 9A
Dangerous substances npd	Impact resistance npd	Load-bearing capacity of safety devices npd	Height **)	Ability to release npd
Acoustic performance R_w (C; C_{tr}) **) 41 (-1; -3) dB	Thermal transmittance (U_D) **) ≥ 0,91 W/m²K	Radiation properties (g_D / τ_V) **)	Air permeability 4	

*) Only tested/ calculated maximum values of the system for single leaf door

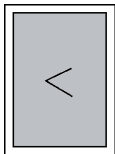
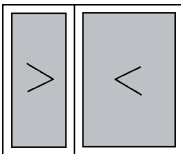
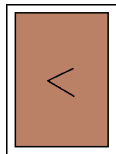
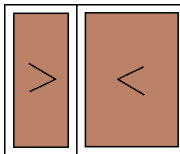
**) Declared value according to project

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ref.No. for hEN-standard	Name:	LK78 door	LK78 double leaf door	LK78H door	LK78H double leaf door								
	Description:	 Thermally insulated single leaf door	 Thermally insulated double leaf door	 Thermally insulated single leaf door	 Thermally insulated double leaf door								
-	Resistance to fire (E / EI)	npd	npd	npd	npd								
-	Smoke leakage (S)	npd	npd	npd	npd								
-	Self-closing (C)	npd	npd	npd	npd								
4.2	Resistance to wind load ¹⁾	C3 (1200 Pa, ≤1/300)	C3 (1200 Pa, ≤1/300)	C3 (1200 Pa, ≤1/300)	C3 (1200 Pa, ≤1/300)								
4.5	Watertightness ²⁾	8A (inward) 8A (outward)	5A (inward) 5A (outward)	9A (inward) 5A (outward)	7A (inward) 6A (outward)								
4.6	Dangerous substances	npd	npd	npd	npd								
4.7	Impact resistance	npd	npd	npd	npd								
4.8	Load-bearing capacity of safety devices ¹⁾	npd	npd	npd	npd								
4.9	Height ³⁾	3)	3)	3)	3)								
4.10	Ability to release	npd	npd	npd	npd								
4.11	Acoustic performance ^{2) 3)}	R_w 41dB	R_w+C 40dB	R_w+C_{tr} 38dB	R_w 41dB	R_w+C 40dB	R_w+C_{tr} 39dB	R_w 41dB	R_w+C 40dB	R_w+C_{tr} 38dB	R_w 41dB	R_w+C 40dB	R_w+C_{tr} 39dB
4.12	Thermal transmittance ³⁾ (U_D)	≥ 1,2 W/m ² K	≥ 1,2 W/m ² K	≥ 0,91 W/m ² K	≥ 0,92 W/m ² K								
4.13	Radiation properties ³⁾ (g_D / τ_V)	3)	3)	3)	3)								
4.14	Air permeability ²⁾	3 (inward) 4 (outward)	2 (inward) 4 (outward)	4 (inward) 4 (outward)	2 (inward) 3 (outward)								

NOTE! Values in the table apply for single leaf door 990x 2090 mm and double leaf door 1520x 2090 mm excl. thermal transmittance which is calculated for standard size door (1230x 2180 mm and 2000x 2180 mm)

¹⁾ Element size: single leaf door ≤ 2,1 m², double leaf door ≤ 3,2 m²

²⁾ Element size: single leaf door ≤ 3,1 m², double leaf door ≤ 4,8 m²

³⁾ Values according to project are declared separately

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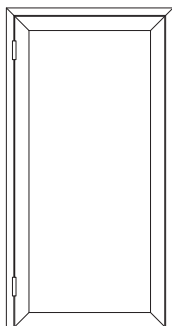
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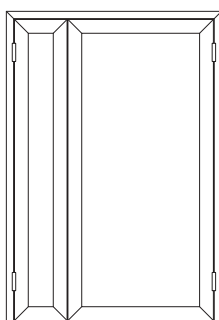
LK78 U_D -values for standard size door: (inward and outward opening doors)

The thermal transmittance of the frames (U_f) are defined according to standard SFS-EN ISO 10077-2:2012



Single leaf door (1230x 2180 mm) web www.purso.fi

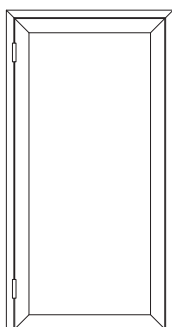
	Glass U_g -value (W/m ² K)					
	0,5	0,6	0,7	0,8	0,9	1,0
IGU spacer	Door U_D -arvo (W/m ² K)					
Aluminium t=0.3	1,3	1,4	1,5	1,5	1,6	1,7
Stainless Steel t=0.18	1,2	1,3	1,4	1,4	1,5	1,6
TPS	1,2	1,3	1,3	1,4	1,5	1,5



Double leaf door (2000x 2180 mm)

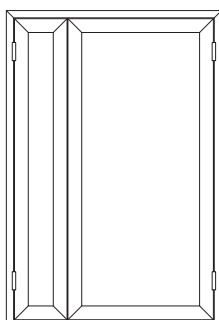
	Glass U_g -value (W/m ² K)					
	0,5	0,6	0,7	0,8	0,9	1,0
IGU spacer	Door U_D -arvo (W/m ² K)					
Aluminium t=0.3	1,4	1,4	1,5	1,6	1,6	1,7
Stainless Steel t=0.18	1,3	1,3	1,4	1,5	1,5	1,6
TPS	1,2	1,3	1,3	1,4	1,5	1,5

LK78H U_D -values for standard size door: (inward and outward opening doors)



Single leaf door (1230x 2180 mm)

	Glass U_g -value (W/m ² K)					
	0,5	0,6	0,7	0,8	0,9	1,0
IGU spacer	Door U_D -value (W/m ² K)					
Aluminium t=0.3	1,0	1,1	1,2	1,2	1,3	1,4
Stainless Steel t=0.18	0,96	1,0	1,1	1,2	1,2	1,3
TPS	0,91	0,98	1,0	1,1	1,2	1,2



Double leaf door (2000x 2180 mm)

	Glass U_g -value (W/m ² K)					
	0,5	0,6	0,7	0,8	0,9	1,0
IGU spacer	Door U_D -value (W/m ² K)					
Aluminium t=0.3	1,1	1,1	1,2	1,3	1,3	1,4
Stainless Steel t=0.18	0,98	1,0	1,1	1,2	1,2	1,3
TPS	0,92	0,99	1,1	1,1	1,2	1,3

Tabulated U_D -values can be used for single leaf door (1230x 2180 mm) when the door size $\leq 3,6 \text{ m}^2$.
 Tabulated U_D -values can be used for double leaf door (2000x 2180 mm) when the door size $> 3,6 \text{ m}^2$.
 Specific values according to project are declared separately.

IGU = Insulating Glass Unit

Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Aluminium (t=0.3 mm)	0,106 W/mK	according to SFS-EN ISO 10077-2:2012
Stainless Steel (t=0.18 mm)	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

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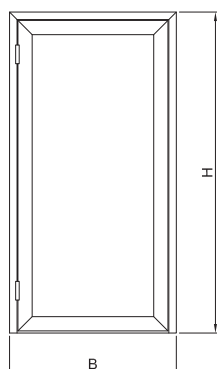
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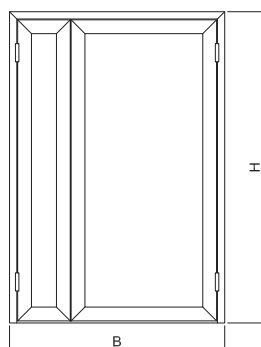
LK78 U_D -values for inward and outward opening doors:

The thermal transmittance of the frames (U_f) are defined according to standard SFS-EN ISO 10077-2:2012
 Threshold without stainless steel cover (780134/RST)



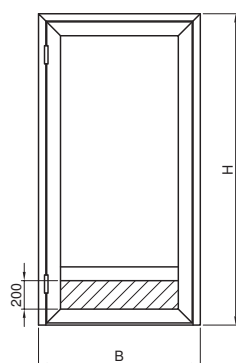
Single leaf door

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -arvo (W/m ² K)								
900	2200	1,4	1,4	1,5	1,4	1,5	1,5	1,5	1,6	1,6
1000	2200	1,3	1,4	1,4	1,4	1,4	1,5	1,5	1,5	1,6
1100	2200	1,2	1,3	1,4	1,3	1,4	1,4	1,4	1,5	1,5
1200	2200	1,2	1,3	1,3	1,3	1,3	1,4	1,3	1,4	1,5



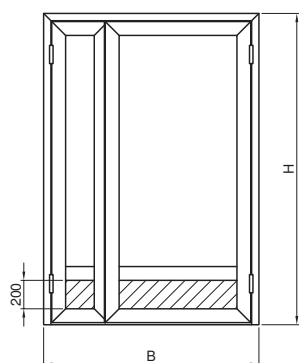
Double leaf door

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,4	1,5	1,5	1,5	1,5	1,6	1,6	1,7	1,7
1600	2200	1,3	1,4	1,5	1,4	1,5	1,5	1,5	1,6	1,6
1800	2200	1,3	1,3	1,4	1,3	1,4	1,5	1,4	1,5	1,6
2000	2200	1,2	1,3	1,3	1,3	1,3	1,4	1,4	1,4	1,5
2200	2200	1,2	1,2	1,3	1,2	1,3	1,4	1,3	1,4	1,5
2400	2200	1,1	1,2	1,3	1,2	1,3	1,3	1,3	1,3	1,4



Single leaf door with opaque panel (panel U-value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
900	2200	1,4	1,4	1,5	1,4	1,5	1,5	1,5	1,6	1,6
1000	2200	1,3	1,4	1,4	1,4	1,4	1,5	1,5	1,5	1,6
1100	2200	1,3	1,3	1,4	1,3	1,4	1,4	1,4	1,5	1,5
1200	2200	1,2	1,3	1,3	1,3	1,3	1,4	1,4	1,4	1,5



Double leaf door with opaque panel (panel U-value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,4	1,5	1,5	1,5	1,5	1,6	1,6	1,6	1,7
1600	2200	1,3	1,4	1,5	1,4	1,5	1,5	1,5	1,6	1,6
1800	2200	1,3	1,3	1,4	1,3	1,4	1,5	1,4	1,5	1,5
2000	2200	1,2	1,3	1,4	1,3	1,3	1,4	1,4	1,4	1,5
2200	2200	1,2	1,3	1,3	1,2	1,3	1,4	1,3	1,4	1,4
2400	2200	1,2	1,2	1,3	1,2	1,3	1,3	1,3	1,4	1,4

IGU = Insulating Glass Unit

Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Aluminium (t=0.3 mm)	0,106 W/mK	according to SFS-EN ISO 10077-2:2012
Stainless Steel (t=0.18 mm)	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

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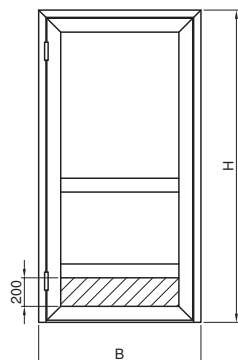
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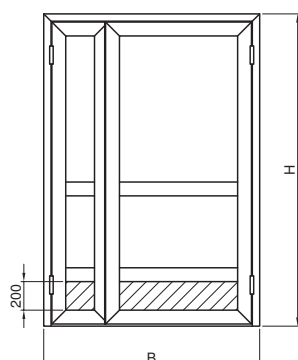
-values for inward and outward opening doors:

The thermal transmittance of the frames (U_f) are defined according to standard SFS-EN ISO 10077-2:2012
 Threshold without stainless steel cover (780134/RST)



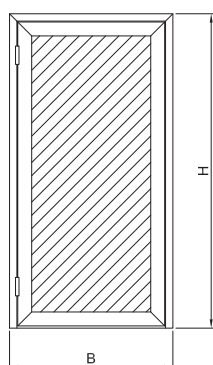
Single leaf door with transom and opaque panel (panel U-value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -arvo (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
900	2200	1,4	1,5	1,5	1,5	1,5	1,6	1,6	1,6	1,7
1000	2200	1,4	1,4	1,5	1,4	1,5	1,5	1,5	1,6	1,6
1100	2200	1,3	1,4	1,4	1,4	1,4	1,5	1,5	1,5	1,6
1200	2200	1,3	1,3	1,4	1,3	1,4	1,5	1,5	1,5	1,6



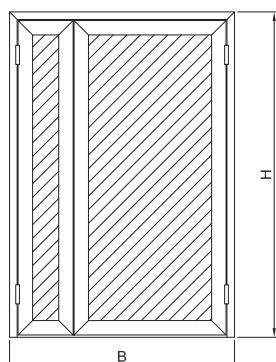
Double leaf door with transom and opaque panel (panel U-value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -arvo (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,5	1,5	1,6	1,5	1,6	1,6	1,7	1,7	1,8
1600	2200	1,4	1,5	1,5	1,5	1,5	1,6	1,6	1,6	1,7
1800	2200	1,3	1,4	1,4	1,4	1,5	1,5	1,5	1,6	1,6
2000	2200	1,3	1,4	1,4	1,4	1,4	1,5	1,5	1,5	1,6
2200	2200	1,3	1,3	1,4	1,3	1,4	1,4	1,4	1,5	1,5
2400	2200	1,2	1,3	1,3	1,3	1,3	1,4	1,4	1,5	1,5



Single leaf opaque panel door (panel U-value 0,5 W/m²K)

B (mm)	H (mm)	Door U_D -value (W/m ² K)
900	2200	1,3
1000	2200	1,2
1100	2200	1,2
1200	2200	1,1



Double leaf opaque panel door (panel U-value 0,5 W/m²K)

B (mm)	H (mm)	Door U_D -value (W/m ² K)
1400	2200	1,3
1600	2200	1,2
1800	2200	1,2
2000	2200	1,1
2200	2200	1,1
2400	2200	1,0

IGU = Insulating Glass Unit

Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Aluminium (t=0.3 mm)	0,106 W/mK	according to SFS-EN ISO 10077-2:2012
Stainless Steel (t=0.18 mm)	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

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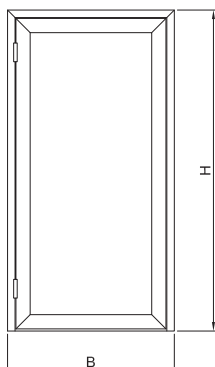
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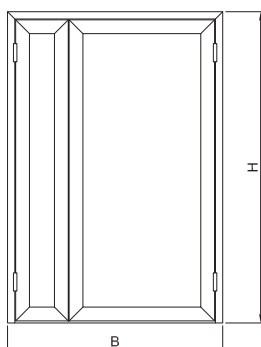
LK78H U_D -values for inward and outward opening doors:

The thermal transmittance of the frames (U_f) are defined according to standard SFS-EN ISO 10077-2:2012
 Threshold without stainless steel cover (780134/RST)



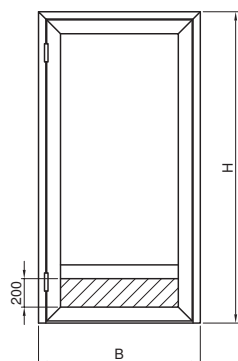
Single leaf door

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
900	2200	1,0	1,1	1,1	1,1	1,1	1,2	1,2	1,2	1,3
1000	2200	0,96	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2
1100	2200	0,94	1,0	1,1	0,99	1,1	1,1	1,1	1,1	1,2
1200	2200	0,91	0,98	1,0	0,96	1,0	1,1	1,0	1,1	1,2



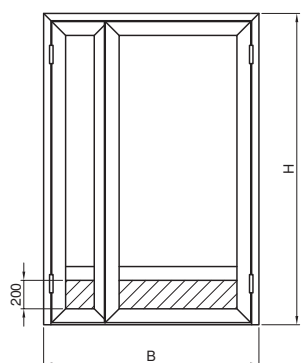
Double leaf door

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,0	1,1	1,1	1,1	1,2	1,2	1,2	1,3	1,3
1600	2200	0,98	1,0	1,1	1,0	1,1	1,2	1,2	1,2	1,3
1800	2200	0,95	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2
2000	2200	0,92	0,98	1,1	0,97	1,0	1,1	1,1	1,1	1,2
2200	2200	0,90	0,96	1,0	0,95	1,0	1,1	1,0	1,1	1,2
2400	2200	0,88	0,95	1,0	0,93	1,0	1,1	1,0	1,1	1,2



Single leaf door with opaque panel (panel U -value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
900	2200	1,0	1,1	1,1	1,1	1,1	1,2	1,2	1,2	1,3
1000	2200	0,97	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2
1100	2200	0,95	1,0	1,1	1,0	1,1	1,1	1,1	1,1	1,2
1200	2200	0,93	0,99	1,0	0,97	1,0	1,1	1,1	1,1	1,2



Double leaf door with opaque panel (panel U -value 0,5 W/m²K)

IGU spacer		TPS			Stainless steel 0,18			Aluminium 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,0	1,1	1,1	1,1	1,1	1,2	1,2	1,3	1,3
1600	2200	0,99	1,0	1,1	1,0	1,1	1,2	1,2	1,2	1,3
1800	2200	0,95	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2
2000	2200	0,93	0,99	1,0	0,98	1,0	1,1	1,1	1,1	1,2
2200	2200	0,91	0,97	1,0	0,96	1,0	1,1	1,0	1,1	1,2
2400	2200	0,89	0,95	1,0	0,94	1,0	1,1	1,0	1,1	1,1

IGU = Insulating Glass Unit

Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Aluminium (t=0.3 mm)	0,106 W/mK	according to SFS-EN ISO 10077-2:2012
Stainless Steel (t=0.18 mm)	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

Product Passport

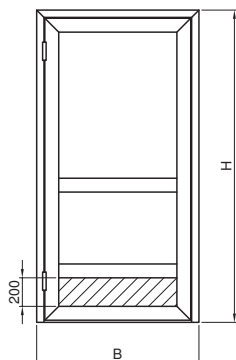
Door system in accordance to EN 14 351-1 +A1



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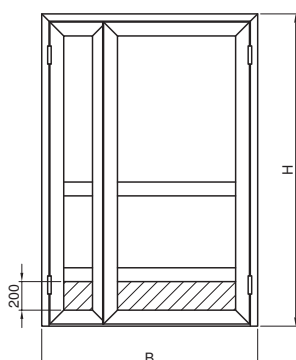
LK78H U_D -values for inward and outward opening doors:

The thermal transmittance of the frames (U_f) are defined according to standard SFS-EN ISO 10077-2:2012
 Threshold without stainless steel cover (780134/RST)



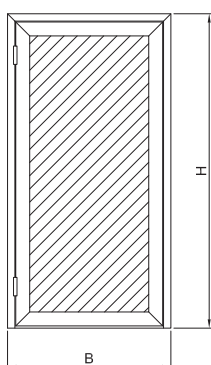
Single leaf door with transom and opaque panel (panel U -value 0,5 W/m²K)

IGU spacer		TPS			RST 0,18			Alumiini 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
900	2200	1,0	1,1	1,1	1,1	1,2	1,2	1,2	1,3	1,3
1000	2200	1,0	1,1	1,1	1,1	1,1	1,2	1,2	1,2	1,3
1100	2200	1,0	1,0	1,1	1,1	1,1	1,2	1,2	1,2	1,3
1200	2200	0,98	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,3



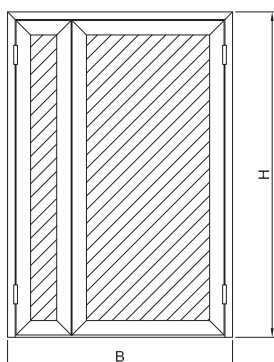
Double leaf door with transom and opaque panel (panel U -value 0,5 W/m²K)

IGU spacer		TPS			RST 0,18			Alumiini 0,3		
Glass U_g -value (W/m ² K)		0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B (mm)	H (mm)	Door U_D -value (W/m ² K)								
1400	2200	1,1	1,1	1,2	1,1	1,2	1,2	1,3	1,3	1,4
1600	2200	1,0	1,1	1,1	1,1	1,2	1,2	1,2	1,3	1,3
1800	2200	1,0	1,1	1,1	1,1	1,1	1,2	1,2	1,2	1,3
2000	2200	0,98	1,0	1,1	1,0	1,1	1,2	1,2	1,2	1,3
2200	2200	0,96	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2
2400	2200	0,94	1,0	1,1	1,0	1,1	1,1	1,1	1,2	1,2



Single leaf opaque panel door (panel U -value 0,5 W/m²K)

B (mm)	H (mm)	Door U_D -value (W/m ² K)
900	2200	0,89
1000	2200	0,87
1100	2200	0,84
1200	2200	0,83



Double leaf opaque panel door (panel U -value 0,5 W/m²K)

B (mm)	H (mm)	Door U_D -value (W/m ² K)
1400	2200	0,90
1600	2200	0,86
1800	2200	0,84
2000	2200	0,81
2200	2200	0,80
2400	2200	0,78

IGU = Insulating Glass Unit

Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Aluminium (t=0.3 mm)	0,106 W/mK	according to SFS-EN ISO 10077-2:2012
Stainless Steel (t=0.18 mm)	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

Product Passport

Door system in accordance to EN 14 351-1 +A1



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LK78 & LK78H Inward and outward opening doors
 acoustic performance:

Glazings:

- Glass-1:** 3k - 4 - 16 RST
- Glass-2:** 3k - 13.1Phone/6/9.1Phone - 12
- Glass-3:** 3k - 4 - 16 TPS
- Glass-4:** 3k - 8/4/6 - 15/12 RST

Opaque panels:

- Panel-1:** 1,5 mm aluminium sheet - 4 mm plywood - 50 mm PUR-board - 4 mm plywood
 - 1,5 mm aluminium sheet
- Panel-2:** 1,5 mm aluminium sheet - 9 mm fibre-cement sheet - 40 mm hard mineralwool
 - 4 mm fibre-cement sheet - 1,5 mm aluminium sheet

Number of door leaves	Door type	Tested glazing panel	R _w [dB]	R _w + C [dB]	R _w + C _{tr} [dB]
1	Fully glazed door	Glass-1	34	33	29
1	Fully glazed door	Glass-2	41	40	38
1	Glass door with transom	Glass-1	35	33	29
1	Glass door with transom	Glass-2	40	40	38
1	Glass door with transom	Glass-3	36	34	30
1	Glass door with transom	Glass-4	38	37	34
1	Panel door with transom	Panel-1	32	30	28
1	Panel door with transom	Panel-2	39	38	35
1	Glass door with panel	Glass-1 Panel-1	33	32	29
1	Glass door with panel	Glass-1 Panel-2	36	35	31
1	Glass door with panel	Glass-2 Panel-1	40	39	37
2	Fully glazed door	Glass-1	35	33	30
2	Fully glazed door	Glass-2	41	40	39
2	Glass door with transom	Glass-1	35	34	30
2	Glass door with transom	Glass-2	41	40	39
2	Panel door with transom	Panel-1	32	31	28
2	Panel door with transom	Panel-2	40	39	35
2	Glass door with panel	Glass-1 Panel-1	33	32	29
2	Glass door with panel	Glass-1 Panel-2	37	35	32
2	Glass door with panel	Glass-2 Panel-1	40	39	37

Tested door sizes and maximum total areas (A) of doors:

- Single leaf doors: **990x 2090 mm** **0 m² < A ≤ 3,1 m²**
- Double leaf doors: **1520x 2090 mm** **0 m² < A ≤ 4,8 m²**

- Terms: **R_w** Sound reduction index (the higher the R_w number, the better the sound insulation)
- R_w+C** Jet aircraft noise, sounds of fast trains, industrial noise (high and mid frequency)
- R_w+C_{tr}** City traffic noise, sounds of slow trains, industrial noise (low and mid frequency)