

Frame extension elements for wooden and wood-metal lifting sliding doors
Sound insulation

SOUND INSULATION 1 UNTREATED

Cover panel and surface	Chipboard P5, E1, untreated, 10 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 80–200 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	80	90	100	110	120	130	140
U-value	W/m²K	0,395	0,347	0,315	0,289	0,267	0,248	0,232
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	16,1	16,3	16,5	16,6	16,8	17,0	17,1

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	150	160	170	180	190	200
U-value	W/m²K	0,217	0,205	0,193	0,183	0,174	0,166
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	17,3	17,5	17,6	17,8	18,0	18,1

SOUND INSULATION 1 UNTREATED

Cover panel and surface	Biofaser Hydropan BF-STX hardboard, untreated, 8 mm (certified FSC, PEFC, CE)
Thermal insulation	Glass wool, 20 kg/m³, 84–204 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential or on the longitudinal edges (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specification Special CNC processing such as cut-outs, round and segment arches, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover panel thickness	mm	8	8	8	8	8	8	8
Thermal insulation thickness	mm	84	94	104	114	124	134	144
U-value	W/m²K	0,373	0,337	0,307	0,282	0,261	0,243	0,227
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	15,8	16,0	16,1	16,3	16,5	16,6	16,8

Element thickness	mm	170	180	190	200	210	220
Cover panel thickness	mm	8	8	8	8	8	8
Thermal insulation thickness	mm	154	164	174	184	194	204
U-value	W/m²K	0,213	0,201	0,190	0,180	0,172	0,164
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	17,0	17,1	17,3	17,5	17,6	17,8

SOUND INSULATION 2 UNTREATED

Cover panel and surface	Chipboard P5, E1, untreated, 10 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 75–195 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	75	85	95	105	115	125	135
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,406	0,363	0,329	0,301	0,277	0,257	0,239
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	26,1	26,2	26,4	26,6	26,7	26,9	27,0

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	145	155	165	175	185	195
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,224	0,210	0,199	0,188	0,178	0,170
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	27,2	27,4	27,5	27,7	27,9	28,0

SOUND INSULATION 2 UNTREATED

Cover panel and surface	Biofaser Hydropan BF-STX hardboard, untreated, 8 mm (certified FSC, PEFC, CE)
Thermal insulation	Glass wool, 20 kg/m³, 79–199 mm Other types of thermal insulation such as expanded rigid polystyrene foam with graphite additive (EPS lambda), glass wool, cork, etc., are also available
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential or on the longitudinal edges (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing such as cut-outs, round and segment arches, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover panel thickness	mm	8	8	8	8	8	8	8
Thermal insulation thickness	mm	79	89	99	109	119	129	139
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,392	0,352	0,320	0,293	0,271	0,251	0,234
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	25,7	25,9	26,1	26,2	26,4	26,6	26,7

Element thickness	mm	170	180	190	200	210	220
Cover panel thickness	mm	8	8	8	8	8	8
Thermal insulation thickness	mm	149	159	169	179	189	199
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,220	0,207	0,195	0,185	0,176	0,167
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	26,9	27,0	27,2	27,4	27,5	27,7

SOUND INSULATION 1 PRIMER FOIL

Cover panel and surface	Chipboard P5, E1, with white primer foil, 10 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 80–200 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	80	90	100	110	120	130	140
U-value	W/m²K	0,395	0,347	0,315	0,289	0,267	0,248	0,232
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	16,1	16,3	16,5	16,6	16,8	17,0	17,1

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	150	160	170	180	190	200
U-value	W/m²K	0,217	0,205	0,193	0,183	0,174	0,166
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	17,3	17,5	17,6	17,8	18,0	18,1

SOUND INSULATION 1 PRIMER FOIL

Cover panel and surface	Medium-density fibreboard (MDF) P3, E1, with white primer foil, 10 mm
Thermal insulation	Glass wool, 20 kg/m³, 80–200 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	80	90	100	110	120	130	140
U-value	W/m²K	0,377	0,340	0,310	0,285	0,263	0,245	0,229
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	16,7	16,9	17,1	17,2	17,4	17,6	17,7

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	150	160	170	180	190	200
U-value	W/m²K	0,215	0,202	0,191	0,181	0,172	0,164
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	17,9	18,1	18,2	18,4	18,6	18,7

SOUND INSULATION 2 PRIMER FOIL

Cover panel and surface	Chipboard P5, E1, with white primer foil, 10 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 85–195 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	85	90	95	105	115	125	135
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,406	0,363	0,329	0,301	0,277	0,257	0,239
Airborne sound insulation	46 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)							
Weight	kg/m ²	26,1	26,2	26,4	26,6	26,7	26,9	27,0

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	145	155	165	175	185	195
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,224	0,210	0,199	0,188	0,178	0,170
Airborne sound insulation	46 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)						
Weight	kg/m ²	27,2	27,4	27,5	27,7	27,9	28,0

SOUND INSULATION 2 PRIMER FOIL

Cover panel and surface	Medium-density fibreboard (MDF) P3, E1, with white primer foil, 10 mm
Thermal insulation	Glass wool, 20 kg/m³, 75–195 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Thermal insulation thickness	mm	75	85	95	105	115	125	135
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,396	0,356	0,323	0,296	0,273	0,253	0,236
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	26,7	26,8	27,0	27,2	27,3	27,5	27,6

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Thermal insulation thickness	mm	145	155	165	175	185	195
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,221	0,208	0,196	0,186	0,177	0,168
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	27,8	28,0	28,1	28,3	28,5	28,6

SOUND INSULATION 1 VENEERED

Cover panel and surface	Chipboard P5, E1, 10 mm, with real wood veneer (unsanded), 1 mm (PEFC-certified) All types of real wood veneers available: spruce, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
Thermal insulation	Glass wool, 20 kg/m³, 78–198 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Cover board thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	mm	78	88	98	108	118	128	138
U-value	W/m²K	0,391	0,351	0,320	0,293	0,270	0,251	0,234
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	17,0	17,2	17,3	17,5	17,7	17,8	18,0

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Cover board thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	mm	148	158	168	178	188	198
U-value	W/m²K	0,220	0,207	0,195	0,185	0,175	0,167
Airborne sound insulation	40 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	18,2	18,3	18,5	18,7	18,8	19,0

SOUND INSULATION 1 VENEERED

Cover panel and surface	Biofaser Hydropan BF-STX hardboard, 8 mm, untreated (unsanded), 1,4 mm (certified FSC, PEFC, CE) All types of real wood veneers available: spruce, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
Thermal insulation	Glass wool, 20 kg/m³, 82–202 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential or on the longitudinal edges (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing such as cut-outs, round and segment arches, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover panel thickness	mm	8	8	8	8	8	8	8
Cover panel thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	mm	82	92	102	112	122	132	142
U-value	W/m²K	0,378	0,341	0,311	0,286	0,264	0,245	0,229
Airborne sound insulation	40 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)							
Weight	kg/m ²	16,7	16,8	17,0	17,2	17,3	17,5	17,7

Element thickness	mm	170	180	190	200	210	220
Cover panel thickness	mm	8	8	8	8	8	8
Cover panel thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	mm	152	162	172	182	192	202
U-value	W/m²K	0,215	0,203	0,192	0,182	0,173	0,165
Airborne sound insulation	40 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)						
Weight	kg/m ²	17,8	18,0	18,1	18,3	18,5	18,7

SOUND INSULATION 2 VENEERED

Cover panel and surface	Chipboard P5, E1, 10 mm, with real wood veneer (unsanded), 1 mm (PEFC-certified) All types of real wood veneers available: spruce, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
Thermal insulation	Glass wool, 20 kg/m³, 73–193 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Plywood, circumferential Special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing like cut-outs, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100 mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover board thickness	mm	10	10	10	10	10	10	10
Veneer thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	mm	73	83	93	103	113	123	133
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,412	0,369	0,334	0,305	0,280	0,260	0,241
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)							
Weight	kg/m ²	26,9	27,1	27,3	27,4	27,6	27,8	27,9

Element thickness	mm	170	180	190	200	210	220
Cover board thickness	mm	10	10	10	10	10	10
Veneer thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	mm	143	153	163	173	183	193
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,226	0,212	0,200	0,189	0,180	0,171
Airborne sound insulation	46 dB , element thickness: 165 mm; test surface: 1.9 m ² (download test reports)						
Weight	kg/m ²	28,1	28,2	28,4	28,6	28,7	28,9

SOUND INSULATION 2 VENEERED

Cover panel and surface	Biofaser Hydropan BF-STX hardboard, 8 mm, untreated (unsanded), 1,4 mm (certified FSC, PEFC, CE) All types of real wood veneers available: spruce, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
Thermal insulation	Glass wool, 20 kg/m³, 77–197 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential or on the longitudinal edges (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
Edge milling	All possible CNC edge profile work is performed on all sides according to your profile specifications Special CNC processing such as cut-outs, round and segment arches, ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 100 mm to 220 mm can be produced For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 100mm to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	100	110	120	130	140	150	160
Cover panel thickness	mm	8	8	8	8	8	8	8
Veneer thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	mm	77	87	97	107	117	127	137
Sound insulation thickness	mm	5	5	5	5	5	5	5
U-value	W/m²K	0,398	0,357	0,324	0,297	0,274	0,254	0,237
Airborne sound insulation	46 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)							
Weight	kg/m ²	26,6	26,8	26,9	27,1	27,3	27,4	27,6

Element thickness	mm	170	180	190	200	210	220
Cover panel thickness	mm	8	8	8	8	8	8
Veneer thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	mm	147	157	167	177	187	197
Sound insulation thickness	mm	5	5	5	5	5	5
U-value	W/m²K	0,222	0,209	0,197	0,186	0,177	0,168
Airborne sound insulation	46 dB, element thickness: 165 mm; test surface: 1.9 m² (download test reports)						
Weight	kg/m ²	27,7	27,9	28,1	28,2	28,4	28,6