

Frame extension elements for wooden and wood-metal windows
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, 15–87 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 40 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for wooden lifting sliding doors For thicknesses below 40 mm, see infill for wooden windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 40 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	15	25	29	33	39	43	45	49	55	59	69	79	87
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.332	0.965	0.869	0.791	0.696	0.645	0.622	0.581	0.528	0.498	0.436	0.388	0.356
Airborne sound insulation	38 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	25.1	25.3	25.4	25.4	25.5	25.6	25.7	25.7	25.8	25.9	26.1	26.3	26.5

Cover panel and surface	Chipboard P5, E1, untreated, 16 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 17–75 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thicknesses from 54 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16
Thickness thermal insulation	mm	17	21	27	31	33	37	43	47	57	67	75
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.119	0.992	0.848	0.773	0.740	0.683	0.611	0.571	0.491	0.431	0.392
Airborne sound insulation	40 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)											
Weight	kg/m ²	33.2	33.3	33.4	33.5	33.5	33.6	33.7	33.8	34.0	34.2	34.3

SOUND INSULATION 2 UNTREATED

Cover panel and surface	Chipboard P5, E1, untreated, 10 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 10–82 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 40 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for wooden lifting sliding doors For thicknesses below 40 mm, see infill for wooden windows
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Element thicknesses from 40 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	10	20	24	28	34	38	40	44	50	54	64	74	82
Thickness sound insulation	mm	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5
U-value	W/m²K	1.618	1.107	0.982	0.883	0.767	0.705	0.678	0.629	0.568	0.533	0.463	0.409	0.374
Airborne sound insulation	40 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	35.0	35.2	35.3	35.3	35.4	35.5	35.6	35.6	35.8	35.8	36.0	36.2	36.4

Cover panel and surface	Chipboard P5, E1, untreated, 16 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 12–70 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thickness	mm	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16
Thickness thermal insulation	mm	12	16	22	26	28	32	38	42	52	62	70
Thickness sound insulation	mm	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5
U-value	W/m²K	1.314	1.143	0.955	0.861	0.821	0.751	0.665	0.618	0.525	0.457	0.414
Airborne sound insulation	43 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)											
Weight	kg/m ²	43.1	43.2	43.3	43.4	43.4	43.5	43.6	43.7	43.9	44.1	44.2

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, 15–87 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	15	25	29	33	39	43	45	49	55	59	69	79	87
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.332	0.965	0.869	0.791	0.696	0.645	0.622	0.581	0.528	0.498	0.436	0.388	0.356
Airborne sound insulation	38 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	25.1	25.3	25.4	25.4	25.5	25.6	25.7	25.7	25.8	25.9	26.1	26.3	26.5

Cover panel and surface	Chipboard P5, E1, with white primer foil, 16 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 17–75 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
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Element thickness	mm	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16
Thickness thermal insulation	mm	17	21	27	31	33	37	43	47	57	67	75
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.119	0.992	0.848	0.773	0.740	0.683	0.611	0.571	0.491	0.431	0.392
Airborne sound insulation	40 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)											
Weight	kg/m ²	33.2	33.3	33.4	33.5	33.5	33.6	33.7	33.8	34.0	34.2	34.3

Cover panel and surface	Medium-density fibreboard (MDF) P3, E1, with white primer foil, 10 mm
Thermal insulation	Glass wool, 20 kg/m³, 15–87 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	15	25	29	33	39	43	45	49	55	59	69	79	87
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.236	0.914	0.827	0.756	0.669	0.622	0.600	0.562	0.513	0.484	0.425	0.379	0.349
Airborne sound insulation	38 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	25.7	25.9	26.0	26.0	26.1	26.2	26.3	26.3	26.4	26.5	26.7	26.9	27.1

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, 10–82 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	10	20	24	28	34	38	40	44	50	54	64	74	82
Thickness sound insulation	mm	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5
U-value	W/m²K	1.618	1.107	0.982	0.883	0.767	0.705	0.678	0.629	0.568	0.533	0.463	0.409	0.374
Airborne sound insulation	40 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	35.0	35.2	35.3	35.3	35.4	35.5	35.6	35.6	35.8	35.8	36.0	36.2	36.4

Cover panel and surface	Chipboard P5, E1, with white primer foil, 16 mm (PEFC-certified)
Thermal insulation	Glass wool, 20 kg/m³, 12–70 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thicknesses from 54 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16
Thickness thermal insulation	mm	12	16	22	26	28	32	38	42	52	62	70
Thickness sound insulation	mm	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5
U-value	W/m²K	1.314	1.143	0.955	0.861	0.821	0.751	0.665	0.618	0.525	0.457	0.414
Airborne sound insulation	43 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)											
Weight	kg/m ²	43.1	43.2	43.3	43.4	43.4	43.5	43.6	43.7	43.9	44.1	44.2

Cover panel and surface	Medium-density fibreboard (MDF) P3, E1, with white primer foil, 10 mm
Thermal insulation	Glass wool, 20 kg/m³, 10–82 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thicknesses from 40 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.														
Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Thickness thermal insulation	mm	10	20	24	28	34	38	40	44	50	54	64	74	82
Thickness sound insulation	mm	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5	2 × 5
U-value	W/m²K	1.479	1.041	0.929	0.840	0.735	0.678	0.652	0.607	0.550	0.517	0.451	0.399	0.366
Airborne sound insulation	40 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	35.6	35.8	35.9	35.9	36.0	36.1	36.2	36.2	36.4	36.4	36.6	36.8	37.0

SOUND INSULATION 1 VENEERED

Cover panel and surface	Chipboard P5, E1, 10 mm, with real wood veneer, 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, 13–85 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 40 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for wooden lifting sliding doors For thicknesses below 40 mm, see infill for wooden windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 40 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1	1	1
Thickness thermal insulation	mm	13	23	27	31	37	41	43	47	53	57	67	77	85
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.414	1.007	0.903	0.818	0.718	0.664	0.639	0.596	0.541	0.509	0.444	0.394	0.362
Airborne sound insulation	38 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	26.4	26.6	26.7	26.7	26.8	26.9	26.9	27.0	27.1	27.2	27.4	27.6	27.7

Cover panel and surface	Chipboard P5, E1, 16 mm, with real wood veneer, 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, 11–73 mm
Sound insulation	1 piece of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
Thicknesses	Thicknesses from 50 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for wooden lifting sliding doors For thicknesses below 50 mm, see infill for wooden windows
Formats	All formats from 500 × 95 mm to 3588 × 1294 mm can be produced

Element thicknesses from 50 mm to 112 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16	16
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1	1
Thickness thermal insulation	mm	11	15	19	25	29	31	35	41	45	55	65	73
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.359	1.175	1.036	0.880	0.799	0.765	0.703	0.628	0.585	0.502	0.439	0.399
Airborne sound insulation	40 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)												
Weight	kg/m ²	34.4	34.5	34.6	34.7	34.8	34.8	34.9	35.0	35.1	35.2	35.4	35.6

SOUND INSULATION 2 VENEERED

Cover panel and surface	Chipboard P5, E1, 10 mm, with real wood veneer, 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, 8–80 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (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 like cut-outs, round and segment arches or surface finishing like ventilation slots or surface grooves are also possible
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Element thickness	mm	40	50	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	10	10	10	10	10	10	10	10	10	10	10	10	10
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1	1	1
Thickness thermal insulation	mm	8	18	22	26	32	36	38	42	48	52	62	72	80
Thickness sound insulation	mm	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5
U-value	W/m²K	1.739	1.163	1.026	0.918	0.794	0.727	0.698	0.647	0.582	0.546	0.472	0.416	0.380
Airborne sound insulation	40 dB , element thickness: 54 mm; test surface: 2.3 m ² (download test reports)													
Weight	kg/m ²	36.3	36.5	36.5	36.6	36.7	36.8	36.8	36.9	37.0	37.1	37.3	37.5	37.6

Cover panel and surface	Chipboard P5, E1, 16 mm, with real wood veneer, 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, 10–68 mm
Sound insulation	2 pieces of heavy bitumen foil, 5 mm
Bonding	Water-resistant D3 (EN 204-D3)
Edge band	Spruce, circumferential (PEFC-certified) Other types of wood available; special edge bands can be inset according to your requirements
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Element thickness	mm	54	58	64	68	70	74	80	84	94	104	112
Thickness cover panel	mm	16	16	16	16	16	16	16	16	16	16	16
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1
Thickness thermal insulation	mm	10	14	20	24	26	30	36	40	50	60	68
Thickness sound insulation	mm	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5	2×5
U-value	W/m²K	1.393	1.202	0.997	0.894	0.851	0.776	0.684	0.635	0.537	0.466	0.421
Airborne sound insulation	43 dB , element thickness: 64 mm; test surface: 1.9 m ² (download test reports)											
Weight	kg/m ²	44.4	44.5	44.6	44.7	44.7	44.8	44.9	45.0	45.2	45.3	45.5