

## Frame extension elements for wooden and wood-metal lifting sliding doors Moisture-resistant and with sound insulation

### SOUND INSULATION 1 UNTREATED

<b>Cover panel and surface</b>	Plywood panel AW100, untreated, 12 mm
<b>Thermal insulation</b>	Glass wool, 20 kg/m <sup>3</sup> , 89–196 mm
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
<b>Thicknesses</b>	<b>Thicknesses from 113 to 220 mm can be produced</b> For thicknesses below 113 mm, see frame extension elements for wooden and wood-metal windows
<b>Formats</b>	<b>All formats from 500 × 95 mm to 3588 × 1294 mm can be produced</b>

Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	113	120	130	140	150	160	170	180	190	200	210	220
<b>Cover panel thickness</b>	mm	12	12	12	12	12	12	12	12	12	12	12	12
Thermal insulation thickness	mm	89	96	106	116	126	136	146	156	166	176	186	196
<b>U-value</b>	W/m <sup>2</sup> K	0.362	0.337	0.308	0.283	0.262	0.243	0.228	0.214	0.201	0.190	0.181	0.172
<b>Airborne sound insulation</b>	40 dB, element thickness: 165 mm; test surface: 1.9 m <sup>2</sup> (download test reports)												
Weight	kg/m <sup>2</sup>	23.7	23.8	24.0	24.2	24.4	24.6	24.8	25.0	25.2	25.4	25.6	25.8

### SOUND INSULATION 2 UNTREATED

<b>Cover panel and surface</b>	Plywood panel AW100, untreated, 12 mm
<b>Thermal insulation</b>	Glass wool, 20 kg/m <sup>3</sup> , 84–191 mm
<b>Sound insulation</b>	<b>1 piece of heavy bitumen foil, 5 mm</b>
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
<b>Thicknesses</b>	<b>Thicknesses from 113 to 220 mm can be produced</b> For thicknesses below 113 mm, see frame extension elements for wooden and wood-metal windows
<b>Formats</b>	<b>All formats from 500 × 95 mm to 3588 × 1294 mm can be produced</b>

Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

Element thickness	mm	113	120	130	140	150	160	170	180	190	200	210	220
<b>Cover panel thickness</b>	mm	12	12	12	12	12	12	12	12	12	12	12	12
Thermal insulation thickness	mm	89	91	101	111	121	131	141	151	161	171	181	191
Sound insulation thickness	mm	5	5	5	5	5	5	5	5	5	5	5	5
<b>U-value</b>	W/m <sup>2</sup> K	0.380	0.353	0.321	0.294	0.271	0.252	0.235	0.220	0.207	0.195	0.185	0.176
<b>Airborne sound insulation</b>	46 dB, element thickness: 165 mm; test surface: 1.9 m <sup>2</sup> (download test reports)												
Weight	kg/m <sup>2</sup>	33.6	33.7	33.9	34.1	34.3	34.5	34.7	34.9	35.1	35.3	35.5	35.7

## SOUND INSULATION 1 PRIMER FOIL

<b>Cover panel and surface</b>	<b>Plywood panel AW100 with white primer foil, 9 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 95–202 mm</b>
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
<b>Thicknesses</b>	<b>Thicknesses from 113 to 220 mm can be produced</b> For thicknesses below 113 mm, see frame extension elements for wooden and wood-metal windows
<b>Formats</b>	<b>All formats from 500 × 95 mm to 3588 × 1294 mm can be produced</b>

Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>113</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>	<b>200</b>	<b>210</b>	<b>220</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
Thermal insulation thickness	mm	95	102	112	122	132	142	152	162	172	182	192	202
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0.348</b>	<b>0.325</b>	<b>0.298</b>	<b>0.274</b>	<b>0.254</b>	<b>0.237</b>	<b>0.222</b>	<b>0.209</b>	<b>0.197</b>	<b>0.187</b>	<b>0.177</b>	<b>0.169</b>
<b>Airborne sound insulation</b>	<b>40 dB, element thickness: 165 mm; test surface: 1.9 m<sup>2</sup> (download test reports)</b>												
Weight	kg/m <sup>2</sup>	24.8	24.9	25.1	25.3	25.5	25.7	25.9	26.1	26.3	26.5	26.7	26.9

## SOUND INSULATION 2 PRIMER FOIL

<b>Cover panel and surface</b>	<b>Plywood panel AW100 with white primer foil, 9 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 90–197 mm</b>
<b>Sound insulation</b>	<b>1 piece of heavy bitumen foil, 5 mm</b>
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
<b>Thicknesses</b>	<b>Thicknesses from 113 to 220 mm can be produced</b> For thicknesses below 113 mm, see frame extension elements for wooden and wood-metal windows
<b>Formats</b>	<b>All formats from 500 × 95 mm to 3588 × 1294 mm can be produced</b>

Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>113</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>	<b>200</b>	<b>210</b>	<b>220</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
Thermal insulation thickness	mm	90	97	107	117	127	137	147	157	167	177	187	197
Sound insulation thickness	mm	5	5	5	5	5	5	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0.365</b>	<b>0.340</b>	<b>0.310</b>	<b>0.285</b>	<b>0.263</b>	<b>0.245</b>	<b>0.229</b>	<b>0.215</b>	<b>0.202</b>	<b>0.191</b>	<b>0.181</b>	<b>0.172</b>
<b>Airborne sound insulation</b>	<b>46 dB, element thickness: 165 mm; test surface: 1.9 m<sup>2</sup> (download test reports)</b>												
Weight	kg/m <sup>2</sup>	34.7	34.8	35.0	35.2	35.4	35.6	35.8	36.0	36.2	36.4	36.6	36.8

## SOUND INSULATION 1 VENEERED

<b>Cover panel and surface</b>	<b>Plywood panel AW100, 12 mm, with real wood veneer, 1 mm</b> All types of real wood veneers available: spruce pine, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 87–194 mm</b>
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
<b>Thicknesses</b>	<b>Thicknesses from 113 to 220 mm can be produced</b> For thicknesses below 113 mm, see frame extension elements for wooden and wood-metal windows
<b>Formats</b>	<b>All formats from 500 × 95 mm to 3588 × 1294 mm can be produced</b>

Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>113</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>	<b>200</b>	<b>210</b>	<b>220</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1	1
Thermal insulation thickness	mm	87	94	104	114	124	134	144	154	164	174	184	194
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0.376</b>	<b>0.342</b>	<b>0.312</b>	<b>0.286</b>	<b>0.265</b>	<b>0.246</b>	<b>0.230</b>	<b>0.216</b>	<b>0.203</b>	<b>0.192</b>	<b>0.182</b>	<b>0.173</b>
<b>Airborne sound insulation</b>	<b>40 dB</b> , element thickness: 165 mm; test surface: 1.9 m <sup>2</sup> (download test reports)												
Weight	kg/m <sup>2</sup>	24.6	24.7	24.9	25.1	25.3	25.5	25.7	25.9	26.1	26.3	26.5	26.7

## SOUND INSULATION 2 VENEERED

<b>Cover panel and surface</b>	<b>Plywood panel AW100, 12 mm, with real wood veneer, 1 mm</b> All types of real wood veneers available: spruce pine, pine, larch, fir, oak, etc. (FSC- or PEFC-certified) Veneer quality A/B (inside A/outside B) or A/A (inside A/outside A)
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 82–189 mm</b>
<b>Sound insulation</b>	<b>1 piece of heavy bitumen foil, 5 mm</b>
<b>Bonding</b>	Water-resistant D3 (EN 204-D3)
<b>Edge band</b>	<b>Plywood, circumferential</b> Special edge bands can be inset according to your requirements
<b>Edge milling</b>	<b>All possible CNC edge profile work is performed on all sides according to your profile specifications</b> Special CNC processing, such as cut-outs, ventilation slots or surface grooves, is also possible
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Element thicknesses from 113 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>113</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>	<b>200</b>	<b>210</b>	<b>220</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>
Veneer thickness	mm	1	1	1	1	1	1	1	1	1	1	1	1
Thermal insulation thickness	mm	87	94	104	114	124	134	144	154	164	174	184	194
Sound insulation thickness	mm	5	5	5	5	5	5	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0.386</b>	<b>0.359</b>	<b>0.325</b>	<b>0.298</b>	<b>0.274</b>	<b>0.254</b>	<b>0.237</b>	<b>0.222</b>	<b>0.209</b>	<b>0.197</b>	<b>0.187</b>	<b>0.177</b>
<b>Airborne sound insulation</b>	<b>46 dB</b> , element thickness: 165 mm; test surface: 1.9 m <sup>2</sup> (download test reports)												
Weight	kg/m <sup>2</sup>	34.5	34.6	34.8	35.0	35.2	35.4	35.6	35.8	36.0	36.2	36.4	36.6