

**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>	<b>Plywood panel AW100, untreated, 12 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 76–196 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 100 to 220 mm can be produced</b> For thicknesses below 100 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 100 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</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>
Thermal insulation thickness	mm	76	86	96	106	116	126	136
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,396</b>	<b>0,356</b>	<b>0,323</b>	<b>0,296</b>	<b>0,273</b>	<b>0,253</b>	<b>0,236</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>	13,3	13,4	13,6	13,8	13,9	14,1	14,3

<b>Element thickness</b>	<b>mm</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>
Thermal insulation thickness	mm	146	156	166	176	186	196
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,221</b>	<b>0,208</b>	<b>0,196</b>	<b>0,186</b>	<b>0,176</b>	<b>0,168</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>	14,4	14,6	14,8	14,9	15,1	15,3

## SOUND INSULATION 2 UNTREATED

<b>Cover panel and surface</b>	<b>Plywood panel AW100, untreated, 12 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 71–191 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 100 to 220 mm can be produced</b> For thicknesses below 100 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 100 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</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>
Thermal insulation thickness	mm	71	81	91	101	111	121	131
Sound insulation thickness	mm	5	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,418</b>	<b>0,373</b>	<b>0,337</b>	<b>0,308</b>	<b>0,283</b>	<b>0,262</b>	<b>0,243</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>	23,2	23,4	23,5	23,7	23,9	24,0	24,2

<b>Element thickness</b>	<b>mm</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>
Thermal insulation thickness	mm	141	151	161	171	181	191
Sound insulation thickness	mm	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,228</b>	<b>0,214</b>	<b>0,201</b>	<b>0,190</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>	24,3	24,5	24,7	24,8	25,0	25,2

## SOUND INSULATION 1 PRIMER FOIL

<b>Cover panel and surface</b>	<b>Plywood panel AW100 with white primer foil, 8 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 84–204 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 100 to 220 mm can be produced</b> For thicknesses below 100 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 100 to 220 mm can be produced. For further U-value calculations, please contact our consultants.								
<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
Thermal insulation thickness	mm	84	94	104	114	124	134	144
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,373</b>	<b>0,337</b>	<b>0,308</b>	<b>0,283</b>	<b>0,262</b>	<b>0,243</b>	<b>0,228</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>	12,9	13,1	13,3	13,4	13,5	13,8	13,9

<b>Element thickness</b>	<b>mm</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>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
Thermal insulation thickness	mm	154	164	174	184	194	204
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,214</b>	<b>0,201</b>	<b>0,190</b>	<b>0,181</b>	<b>0,172</b>	<b>0,164</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>	14,1	14,3	14,4	14,6	14,8	14,9

## SOUND INSULATION 2 PRIMER FOIL

<b>Cover panel and surface</b>	<b>Plywood panel AW100 with white primer foil, 8 mm</b>
<b>Thermal insulation</b>	<b>Glass wool, 20 kg/m<sup>3</sup>, 79–199 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 100 to 220 mm can be produced</b> For thicknesses below 100 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 100 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>
<b>Cover panel thickness</b>	<b>mm</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
Thermal insulation thickness	mm	79	89	99	109	119	129	139
Sound insulation thickness	mm	5	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,393</b>	<b>0,353</b>	<b>0,321</b>	<b>0,294</b>	<b>0,271</b>	<b>0,252</b>	<b>0,235</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>	22,8	23,0	23,2	23,3	23,5	23,7	23,8

<b>Element thickness</b>	<b>mm</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>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
Thermal insulation thickness	mm	149	159	169	179	189	199
Sound insulation thickness	mm	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,220</b>	<b>0,207</b>	<b>0,195</b>	<b>0,185</b>	<b>0,176</b>	<b>0,167</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>	24,0	24,2	24,3	24,5	24,7	24,8

## 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>, 74–194 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 100 to 220 mm can be produced</b> For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
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Element thicknesses from 100 to 220 mm can be produced. For further U-value calculations, please contact our consultants.

<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</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>
Veneer thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	<b>mm</b>	74	84	94	104	114	124	134
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,402</b>	<b>0,361</b>	<b>0,327</b>	<b>0,299</b>	<b>0,275</b>	<b>0,255</b>	<b>0,238</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>	14,1	14,3	14,5	14,7	14,8	15,0	15,1

<b>Element thickness</b>	<b>mm</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>
Veneer thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	<b>mm</b>	144	154	164	174	184	194
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,223</b>	<b>0,210</b>	<b>0,198</b>	<b>0,187</b>	<b>0,178</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>	15,3	15,5	15,6	15,8	16,0	16,1

## 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>, 69–189 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
<b>Thicknesses</b>	<b>Thicknesses from 100 to 220 mm can be produced</b> For thicknesses below 100 mm, see frame extension elements for wooden and wood-metal windows
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<b>Element thickness</b>	<b>mm</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</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>
Veneer thickness	mm	1	1	1	1	1	1	1
Thermal insulation thickness	<b>mm</b>	69	79	89	99	109	119	129
Sound insulation thickness	<b>mm</b>	5	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</b>	<b>0,425</b>	<b>0,379</b>	<b>0,342</b>	<b>0,311</b>	<b>0,286</b>	<b>0,264</b>	<b>0,246</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>	24,1	24,2	24,4	24,6	24,7	24,9	25,1

<b>Element thickness</b>	<b>mm</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>
Veneer thickness	mm	1	1	1	1	1	1
Thermal insulation thickness	<b>mm</b>	139	149	159	169	179	189
Sound insulation thickness	<b>mm</b>	5	5	5	5	5	5
<b>U-value</b>	<b>W/m<sup>2</sup>K</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>46 dB, element thickness: 165 mm; test surface: 1.9 m<sup>2</sup> (download test reports)</b>						
Weight	kg/m <sup>2</sup>	25,2	25,4	25,5	25,7	25,9	26,0