## **FRINORM**<sup>®</sup>

# Frame extension elements for plastic windows Sound insulation

#### SOUND INSULATION 1 WHITE

Cover panel and surface	Unplasti	Unplasticised PVC, colour available from Veka, Kömmerling, Finstral or Internorm, 4 mm												
Thermal insulation	Glass wo	Glass wool, 70 kg/m³, 32–104 mm												
Bonding	Water-res	Water-resistant D4 (EN 204-D4)												
Edge band	Plywood	Plywood IW67, circumferential												
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, ventilation slots or surface grooves are also possible												
Thicknesses	Thicknes For thickne For thickne	esses as	from 113	8 mm, se	e extensi	on eleme	ents for p		ng sliding	doors				
Formats	All forma	ats from	500 × 9	95 mm	to 3588	× 1294	mm ca	an be pi	roduced	ł				
Element thicknesses from 40	mm to 112	2 mm ca	an be pr	oduced	. For fur	ther U-v	alue cal	culation	is, pleas	e conta	ct our c	onsultar	nts.	
Element thickness	mm	40	50	54	58	60	68	70	76	80	86	90	100	112
Thickness cover panel	mm	4	4	4	4	4	4	4	4	4	4	4	4	4
Thickness thermal insulation	mm	32	42	46	50	52	60	62	68	72	78	82	92	104

Thickness cover panel	mm	4	4	4	4	4	4	4	4	4	4	4	4	4
Thickness thermal insulation	mm	32	42	46	50	52	60	62	68	72	78	82	92	104
U-value	W/m²K	0.902	0.721	0.668	0.622	0.601	0.530	0.515	0.474	0.450	0.419	0.400	0.360	0.322
Airborne sound insulation	<b>37 dB,</b> element thickness: 70 mm; test surface: 1.9 m <sup>2</sup> (download test reports)													
Weight	kg/m <sup>2</sup>	13.5	14.2	14.7	15.0	14.8	15.3	15.5	15.9	16.1	16.5	16.8	17.7	18.2

#### SOUND INSULATION 2 WHITE

Cover panel and surface	Unplasti	Unplasticised PVC, colour available from Veka, Kömmerling, Finstral or Internorm, 4 mm												
Thermal insulation	Glass wo	Glass wool, 70 kg/m³, 27–99 mm												
Sound insulation	1 piece o	of heavy	y bitum	en foil,	5 mm									
Bonding	Water-res	Vater-resistant D4 (EN 204-D4)												
Edge band	Plywood	Plywood IW67, circumferential												
Edge milling	•	Il possible CNC edge profile work is performed on all sides according to your profile specifications pecial CNC processing like cut-outs, round and segment arches, ventilation slots or surface grooves are also possible												
Thicknesses	For thickne	Thicknesses from 40 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for plastic lifting sliding doors For thicknesses below 40 mm, see infill for plastic windows												
Formats	All forma	ts from	500 × 9	95 mm 1	to 3588	× 1294	mm ca	an be pi	oduced	ł				
Element thicknesses from 40	) mm to 112	2 mm ca	an be pr	oduced	. For fur	ther U-\	alue ca	Iculatior	is, pleas	e conta	ict our c	onsultar	nts.	
Element thickness	mm	40	50	54	58	60	68	70	76	80	86	90	100	112
Thickness cover panel	mm	4	4	4	4	4	4	4	4	4	4	4	4	4
Thickness thermal insulation	mm	27	37	41	45	47	55	57	63	67	73	77	87	99
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.020	0.795	0.731	0.676	0.651	0.569	0.551	0.505	0.478	0.443	0.422	0.378	0.336
Airb. sound insulation	<b>44 dB,</b> el	ement t	nickness	s: 70 mr	m; test s	surface:	1.9 m <sup>2</sup>	(downlo	ad test	reports)				
Weight	kg/m <sup>2</sup>	23.2	24.0	24.1	24.4	24.7	25.0	25.2	25.6	25.8	26.1	26.4	27.1	27.9

### SOUND INSULATION 1 RENOLIT FOIL

Cover panel and surface	Unplasti	Unplasticised PVC with Renolit foil, 4 mm (all colours available)												
Thermal insulation	Glass wo	Glass wool, 70 kg/m³, 32–104 mm												
Bonding	Water-res	Water-resistant D4 (EN 204-D4)												
Edge band	Plywood	Plywood IW67, circumferential												
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, ventilation slots or surface grooves are also possible												
Thicknesses	For thickne	Thicknesses from 40 mm to 112 mm can be produced For thicknesses as from 113 mm, see extension elements for plastic lifting sliding doors For thicknesses below 40 mm, see infill for plastic windows												
Formats	All forma	ts from	500 × 9	95 mm †	to 2988	× 1294	mm ca	an be pr	oduced	k				
Element thicknesses from 40	mm to 112	2 mm ca	in be pro	oduced.	For furt	her U-v	alue cal	culation	s, pleas	e conta	ct our c	onsultar	nts.	
Element thickness	mm	40	50	54	58	60	68	70	76	80	86	90	100	112
Thickness cover panel	mm	4	4	4	4	4	4	4	4	4	4	4	4	4
Thickness thermal insulation	mm	32	42	46	50	52	60	62	68	72	78	82	92	104

U-value	W/m <sup>2</sup> K	0.902	0.721	0.668	0.622	0.601	0.530	0.515	0.474	0.450	0.419	0.400	0.360	0.322
Airborne sound insulation	<b>37 dB,</b> element thickness: 70 mm; test surface: 1.9 m <sup>2</sup> (download test reports)													
Weight	kg/m <sup>2</sup>	13.5	14.2	14.4	14.7	14.8	15.3	15.5	15.9	16.1	16.6	16.8	17.4	18.2

#### SOUND INSULATION 2 RENOLIT FOIL

Cover panel and surface	Unplasti	Unplasticised PVC with Renolit foil, 4 mm (all colours available)												
Thermal insulation	Glass wo	Glass wool, 70 kg/m³, 27–99 mm												
Sound insulation	1 piece o	1 piece of heavy bitumen foil, 5 mm												
Bonding	Water-res	Water-resistant D4 (EN 204-D4)												
Edge band	Plywood	Plywood IW67, circumferential												
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, ventilation slots or surface grooves are also possible													
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Element thickness	mm	40	50	54	58	60	68	70	76	80	86	90	100	112
Thickness cover panel	mm	4	4	4	4	4	4	4	4	4	4	4	4	4
Thickness thermal insulation	mm	27	37	41	45	47	55	57	63	65	73	77	87	99
Thickness sound insulation	mm	5	5	5	5	5	5	5	5	5	5	5	5	5
U-value	W/m²K	1.020	0.795	0.731	0.676	0.651	0.569	0.551	0.505	0.478	0.443	0.422	0.378	0.336

Airborne sound insulation	<b>44 dB,</b> el	ement th	nickness	s: 70 mr	n; test s	surface:	1.9 m <sup>2</sup>	(downlo	ad test i	reports)				
Weight	kg/m <sup>2</sup>	23.2	23.8	24.1	24.4	24.5	25.0	25.2	25.5	25.8	26.2	26.4	27.1	27.9