

## Scheuten sound reducing insulating glass

### ISOLIDE® PHON S

Insulating glass combined with 1 sheet of Multiphon S® laminated glass with special acoustic film (SAF)



October 2020

Product name	Glass Composition Outside - Cavity - Inside	Thickness approx. (mm)	Mass approx. (kg/m <sup>2</sup> )	R <sub>w</sub> (dB)	C (dB)	C <sub>tr</sub> (dB)	R <sub>w+</sub> C (dB)	R <sub>w+</sub> C <sub>tr</sub> (dB)	U <sub>g</sub> - value* W/m <sup>2</sup> K EN 673	Classification EN 356	Classification EN 12600
Isolide® Phon S 36/26	4 - 16 - 3(0.50 SAF)3	26	25	36	-1	-5	35	31	1,1	- / P1A	- / 2B2
Isolide® Phon S 38/28-B	4 - 16 - 4(0.50 SAF)4	28	30	38	-1	-5	37	33	1,1	- / P1A	- / 1B1
Isolide® Phon S 39/28	6 - 16 - 3(0.50 SAF)3	28	30	39	-1	-5	38	34	1,1	- / P1A	- / 2B2
Isolide® Phon S 41/30	8 - 16 - 3(0.50 SAF)3	30	35	41	-2	-6	39	35	1,1	- / P1A	- / 2B2
Isolide® Phon S 41/30-B	6 - 16 - 4(0.50 SAF)4	30	35	41	-2	-5	39	36	1,1	- / P1A	- / 1B1
Isolide® Phon S 41/32-B	6 - 16 - 5(0.50 SAF)5	32	40	41	-2	-7	39	34	1,1	- / P1A	- / 1B1
Isolide® Phon S 41/34	6 - 20 - 4(0.50 SAF)4	34	35	41	-3	-7	38	34	1,1	- / P1A	- / 1B1
Isolide® Phon S 42/28	10 - 10K - 4(0.50 SAF)4	28	45	42	-3	-7	39	35	1,0	- / P1A	- / 1B1
Isolide® Phon S 42/32	8 - 16 - 4(0.50 SAF)4	32	40	42	-2	-5	40	37	1,1	- / P1A	- / 1B1
Isolide® Phon S 42/36	6 - 20 - 4(0.50 SAF)6	36	40	42	-2	-6	40	36	1,1	- / P1A	- / 1B1
Isolide® Phon S 43/32	12 - 12 - 4(0.50 SAF)4	32	50	43	-1	-5	42	38	1,3	- / P1A	- / 1B1
Isolide® Phon S 43/34	8 - 16 - 5(0.50 SAF)5	34	45	43	-2	-6	41	37	1,1	- / P1A	- / 1B1
Isolide® Phon S 43/36-C	8 - 20 - 4(0.50 SAF)4	36	40	43	-2	-7	41	36	1,1	- / P1A	- / 1B1
Isolide® Phon S 43/36-B	8 - 16 - 6(0.50 SAF)6	36	50	43	-1	-5	42	38	1,1	- / P1A	- / 1B1
Isolide® Phon S 43/37	8 - 16 - 6(0.76 SAF)6	37	50	43	-1	-5	42	38	1,1	- / P2A	- / 1B1
Isolide® Phon S 43/38	6 - 24 - 4(0.50 SAF)4	38	35	43	-3	-8	40	35	1,2	- / P1A	- / 1B1
Isolide® Phon S 44/32	10 - 16 - 3(0.50 SAF)3	32	40	44	-2	-6	42	38	1,1	- / P1A	- / 2B2
Isolide® Phon S 44/34	10 - 16 - 4(0.50 SAF)4	34	45	44	-2	-6	42	38	1,1	- / P1A	- / 1B1
Isolide® Phon S 44/35	6 - 16 - 6(0.50 SAF)6	35	45	44	-2	-6	42	38	1,1	- / P1A	- / 1B1
Isolide® Phon S 44/38	10 - 16 - 6(0.50 SAF)6	38	55	44	-1	-4	43	40	1,1	- / P1A	- / 1B1
Isolide® Phon S 44/38-B	6 - 20 - 6(0.50 SAF)6	38	45	44	-1	-5	43	39	1,1	- / P1A	- / 1B1
Isolide® Phon S 44/40	6 - 24 - 5(0.50 SAF)5	40	40	44	-2	-6	42	38	1,2	- / P1A	- / 1B1
Isolide® Phon S 45/35	10 - 16 - 4(0.76 SAF)4	35	45	45	-2	-6	43	39	1,1	- / P2A	- / 1B1
Isolide® Phon S 45/36	10 - 16 - 5(0.50 SAF)5	36	50	45	-1	-5	44	40	1,1	- / P1A	- / 1B1
Isolide® Phon S 45/36-B	12 - 16 - 4(0.50 SAF)4	36	50	45	-1	-4	44	41	1,1	- / P1A	- / 1B1
Isolide® Phon S 46/40	10 - 20 - 5(0.50 SAF)5	40	50	46	-2	-5	44	41	1,1	- / P1A	- / 1B1
Isolide® Phon S 46/44	12 - 24 - 4(0.76 SAF)4	44	50	46	-1	-5	45	41	1,1	- / P2A	- / 1B1
Isolide® Phon S 47/46	10 - 24 - 6(0.76 SAF)6	46	55	47	-1	-4	46	43	1,1	- / P2A	- / 1B1

Insulating glass combined with 1 sheet of Multiphon S® laminated glass with special acoustic film (SAF) and 1 with standard pvb laminated

Product name	Glass Composition Outside - Cavity - Inside	Thickness approx. (mm)	Mass approx. (kg/m <sup>2</sup> )	R <sub>w</sub> (dB)	C (dB)	C <sub>tr</sub> (dB)	R <sub>w+</sub> C (dB)	R <sub>w+</sub> C <sub>tr</sub> (dB)	U <sub>g</sub> - value* W/m <sup>2</sup> K EN 673	Classification EN 356	Classification EN 12600
Isolide® Phon S 41/31	4(2)4 - 16 - 3(0.50 SAF)3	31	35	41	-2	-7	39	34	1,1	P2A / P1A	1B1 / 2B2
Isolide® Phon S 43/36	4(2)4 - 15 - 6(0.50 SAF)6	36	50	43	-2	-6	41	37	1,1	P2A / P1A	1B1 / 1B1
Isolide® Phon S 44/33	4(2)4 - 12 - 6(0.76 SAF)6	33	50	44	-2	-6	42	38	1,3	P2A / P2A	1B1 / 1B1
Isolide® Phon S 45/37	4(2)4 - 16 - 6(0.76 SAF)6	37	50	45	-2	-7	43	38	1,1	P2A / P2A	1B1 / 1B1
Isolide® Phon S 46/37	6(2)6 - 16 - 4(0.76 SAF)4	37	50	46	-1	-5	45	41	1,1	P2A / P2A	1B1 / 1B1

## Insulating glass, 2 sheets Multiphon® S laminated glass with special acoustic film (SAF)

Product name	Glass Composition Outside - Cavity - Inside	Thickness approx. (mm)	Mass approx. (kg/m <sup>2</sup> )	R <sub>w</sub> (dB)	C (dB)	C <sub>tr</sub> (dB)	R <sub>w+</sub> C (dB)	R <sub>w+</sub> C <sub>tr</sub> (dB)	U <sub>g</sub> - value* W/m <sup>2</sup> K EN 673	Classification EN 356	Classification EN 12600
Isolide® Phon S 40/29	3(0.50 SAF)3 - 16 - 3(0.50 SAF)3	29	30	40	-2	-6	38	34	1,1	P1A / P1A	2B2 / 2B2
Isolide® Phon S 42/31	3(0.50 SAF)3 - 16 - 4(0.50 SAF)4	31	35	42	-2	-6	40	36	1,1	P1A / P1A	2B2 / 1B1
Isolide® Phon S 45/30	4(0.76 SAF)4 - 9 - 6(0.76 SAF)6	30	50	45	-2	-6	43	39	1,5	P2A / P2A	1B1 / 1B1
Isolide® Phon S 46/39	4(0.50 SAF)4 - 20 - 5(0.50 SAF)5	39	45	46	-2	-7	44	39	1,1	P1A / P1A	1B1 / 1B1
Isolide® Phon S 47/33	4(0.50 SAF)4 - 12 - 6(0.50 SAF)6	33	50	47	-1	-6	46	41	1,3	P1A / P1A	1B1 / 1B1
Isolide® Phon S 47/37	4(0.50 SAF)4 - 16 - 6(0.50 SAF)6	37	50	47	-2	-6	45	41	1,1	P1A / P1A	1B1 / 1B1
Isolide® Phon S 47/38	4(0.50 SAF)4 - 15 - 6(0.76 SAF)8	38	55	47	-2	-7	45	40	1,1	P1A / P2A	1B1 / 1B1
Isolide® Phon S 49/41	4(0.76 SAF)4 - 20 - 6(0.76 SAF)6	41	50	49	-2	-7	47	42	1,1	P2A / P2A	1B1 / 1B1
Isolide® Phon S 49/44	6(0.76 SAF)6 - 15 - 8(0.76 SAF)8	44	70	49	-1	-5	48	44	1,1	P2A / P2A	1B1 / 1B1
Isolide® Phon S 49/47	6(0.76 SAF)6 - 20 - 6(0.76 SAF)8	47	65	49	-1	-4	48	45	1,1	P2A / P2A	1B1 / 1B1
Isolide® Phon S 51/45	6(0.50 SAF)6 - 20 - 6(0.50 SAF)6	45	60	51	-1	-4	50	47	1,1	P1A / P1A	1B1 / 1B1
Isolide® Phon S 52/52	4(0.76 SAF)6 - 24 - 6(0.76 SAF)10	52	65	52	-1	-5	51	47	1,2	P2A / P2A	1B1 / 1B1

## For comparison: Isolide® / values according to NEN-EN 12758

Product name	Glass Composition Outside - Cavity - Inside	Thickness approx. (mm)	Mass approx. (kg/m <sup>2</sup> )	R <sub>w</sub> (dB)	C (dB)	C <sub>tr</sub> (dB)	R <sub>w+</sub> C (dB)	R <sub>w+</sub> C <sub>tr</sub> (dB)	U <sub>g</sub> - value* W/m <sup>2</sup> K EN 673	Classification EN 356	Classification EN 12600
Isolide®	6 - 15 - 3(2)3	27	30	33	-2	-5	31	28	1,1	- / P1A	- / 1B1
Isolide®	6 - 15 - 5(2)5	31	40	37	-1	-5	36	32	1,1	- / P2A	- / 1B1

Spectrum corrections	Distinctive sound sources
<b>C</b> Spectrum 1 (high frequency) (A-weighted)	Daily activities (conversation, music, radio, TV)
	Children playing
	Train traffic (middle / high speed)
	Motorway traffic (> 80 km/h ≈ 50 mph)
	Jet plane (short distance)
	Factories (with mainly middle and high frequency noise emission)
<b>C<sub>tr</sub></b> Spectrum 2 (low frequency) (A-weighted)	Urban traffic noise
	Train traffic (low speed)
	Aircraft (propeller)
	Jet plane (large distance)
	Disco music
	Factories (with mainly low and middle frequency noise emission)

In accordance with NEN-EN-ISO 717-1

Laboratory tests in accordance with NEN-EN-ISO-140-3 / NEN-EN-ISO-10140-2

NPD = No Performance Determined

\*based on Argon gasfilling and a standard heat-reflecting coating (SSN1.1)

All acoustic glass compositions in the above table are available as heat insulation glazing or solar control glazing. Contact our sales department for further details.

Please refer to our website [www.scheuten.com](http://www.scheuten.com) for the most recent information



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