

## ACOUSTIC INSULATING GLASS

# Guardian LamiGlass® Acoustic

### Safety and acoustic performance.

Today's urban environment can generate noise levels which can have a negative impact on our daily lives. When building or renovating a building, it is therefore important to select the right materials in order to better control such environmental noise.

Thanks to the use of an advanced, special interlayer, Guardian LamiGlass Acoustic offers improved sound reduction performance. Its applications range from residential housing to public buildings such as airports, hospitals, hotels or educational facilities requiring a higher level of acoustic comfort.

Guardian LamiGlass Acoustic delivers a **Sound Reduction factor (Rw) of up to 54 decibels (dB) in triple glazing and 52 dB in double glazing**, creating a perceivable difference to the listener when one considers that a Rw of just 10 dB constitutes a decrease of 50% in the noise registered by the human ear, whilst a Rw of 40 dB equates to a drop of 94.25%.

In addition to its acoustic performance, Guardian LamiGlass Acoustic also provides all the other, welcome features of standard laminated glass:

- **Safety:** protection of people from injury caused by broken glass or from falling through the glass (safety class up to 1(B)1)
- **Security:** higher resistance than a monolithic glass of comparable thickness to prevent unwanted entry
- **Blocks above 96% of UV rays:** reduced fade of furniture and fittings
- **Wide possibilities in terms of appearance, light transmission, solar control and thermal insulation levels** when combined with Guardian ClimaGuard® and SunGuard® glass product ranges



Type of glazing	Glazing composition	Gas filling	Rw (C, Ctr) values	Safety level	
			dB	Ball drop EN 356	Pendulum impact EN 12 600
triple	6-14-44.1-14-6	Argon	37 (-2;-5)	P1A	1(B)1
triple	4-16-4-16-44.2	Argon	42 (-2;-7)	P2A	1(B)1
triple	44.1-14-4-14-6	Argon	43 (-1;-7)	P1A	1(B)1
triple	6-18-4-18-44.1	Argon	44 (-1;-5)	P1A	1(B)1
triple	44.2-14-4-14-8	Argon	44 (-2;-6)	P2A	1(B)1
triple	44.1-12-6-12-8	Argon	44 (-2;-7)	P1A	1(B)1
triple	55.2-16-6-16-8	Argon	46 (-2;-6)	P2A	1(B)1
triple	44.1-12-6-12-10	Argon	46 (-2;-7)	P1A	1(B)1
triple	44.1-12-6-12-10	Krypton	47 (-2;-7)	P1A	1(B)1
triple	66.2-16-6-16-12	Argon	48 (0;-3)	P2A	1(B)1
triple	66.2-16-6-16-10	Argon	48 (-2;-5)	P2A	1(B)1
triple	10-16-6-16-55.2	Argon	49 (-1;-4)	P2A	1(B)1
triple	44.1-14-4-14-55.1	Argon	51 (-2;-7)	NA	1(B)1
triple	44.2-14-6-14-66.2	Argon	52 (-3;-7)	P2A	1(B)1
triple	88.2-16-6-16-55.2	Argon	53 (-2;-6)	P1A	1(B)1
triple	66.2-12-6-12-88.2	Argon	54 (-1;-5)	P2A	1(B)1
double	86.2-24-46.2	Argon	51	NA	NA
double	86.2-24-66.2	Argon	52	NA	1(B)1
double	55.1-12-6	Air	40 (-1;-5)	NA	1(B)1
double	44.2-16-8	Argon	42 (-1;-5)	P2A	1(B)1
double	55.2 -16-6	Argon	42 (-2;-6)	P2A	1(B)1
double	44.1-16-6	Argon	42 (-2;-6)	P1A	1(B)1
double	44.2-16-6	Argon	42 (-2;-6)	P2A	1(B)1
double	55.2-16-6	Argon	42 (-2;-6)	P2A	1(B)1
double	55.2 -16-8	Argon	43 (-1;-5)	P2A	1(B)1
double	55.2-16-6	Argon	43 (-1;-5)	P2A	1(B)1
double	55.2-18-8	Argon	43 (-2;-6)	P2A	1(B)1
double	66.2-16-8	Argon	43 (-2;-5)	P2A	1(B)1
double	44.1-20-6	Argon	43 (-2;-7)	P1A	1(B)1
double	44.1-14-6	Krypton	43 (-3;-8)	P1A	1(B)1
double	55.2-16-10	Argon	44 (-1;-4)	P2A	1(B)1
double	44.1-16-10	Argon	44 (-2;-6)	P1A	1(B)1
double	44.1-20-8	Argon	44 (-3;-7)	P1A	1(B)1
double	1212.4-16-12	Argon	45 (-1;-4)	NA	NA
double	44.1-18-10	Argon	45 (-2;-6)	P1A	1(B)1
double	66.2-20-10	Argon	46 (-2;-6)	P2A	1(B)1
double	55.1-16-44.1	Argon	46 (-2;-7)	P1A	1(B)1
double	66.2-20-55.2	Argon	49 (-2;-6)	P2A	1(B)1
double	66.2-16-44.2	Argon	49 (-2;-7)	P2A	1(B)1
double	88.2-16-66.2	Argon	51 (-1;-4)	P2A	1(B)1
double	88.4-20-55.2	Argon	51 (-2;-6)	P2A	1(B)1
double	66.4-20-44.4	Argon	51 (-2;-6)	P4A	1(B)1
double	88.2-24-46.2	Argon	52 (-2;-6)	NA	1(B)1
monolithic	33.1	-	36 (-1;-3)	P1A	1(B)1
monolithic	44.1	-	38 (-1;-4)	P1A	1(B)1
monolithic	44.2	-	38 (-1;-4)	P2A	1(B)1
monolithic	44.4	-	38 (-1;-4)	P4A	1(B)1
monolithic	55.1	-	39 (-1;-3)	NA	1(B)1
monolithic	55.2	-	39 (-1;-3)	P2A	1(B)1
monolithic	66.1	-	39 (-1;-3)	NA	1(B)1
monolithic	66.2	-	39 (-1;-3)	P2A	1(B)1
monolithic	88.2	-	41 (-1;-3)	NA	1(B)1
monolithic	1010.2	-	43 (-1;-3)	NA	NA

All Acoustic LamiGlass listed here above are composed of an SR Acoustic PVB interlayer  
Rw values according to EN ISO 140-3 and 717

The performance values shown are nominal and subject to variations due to manufacturing tolerances.

The products in this publication are sold subject to Guardian's standard terms and conditions of sale and any applicable written warranties. It is the responsibility of the purchaser to confirm that the products are suitable for their intended application in compliance with the applicable laws and regulations. Please contact your local Guardian representative to obtain any applicable handling and fabrication guides and for the most current product information.