THERMOBEL TG — TRIPLE GLAZING

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 12 - 4 - 12 - 4	18.7	19.0	28.4	41.6	46.7	39.8	33 (-2;-6)	33	31	27	NPD	36	30
6 - 12 - 6 - 12 - 6	18.5	21.9	32.9	40.3	36.7	48.9	35 (-2;-6)	35	33	29	NPD	42	45
4 - 15 - 4 - 15 - 6	15.0	25.2	33.0	43.5	42.2	44.7	36 (-2;-7)	36	34	29	NPD	44	35
4 - 12 - 4 - 12 - 8	20.6	25.1	33.8	44.3	48.0	48.9	37 (-1;-6)	37	36	31	NPD	40	40
6 - 12 - 4 - 12 - 8	22.2	28.8	36.7	44.0	40.1	52.5	39 (-2;-5)	39	37	34	NPD	42	45

THERMOBEL TG STRATOBEL — TRIPLE GLAZING WITH LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 12 - 4 - 12 - 33.2	17.7	24.3	33.0	43.7	47.6	47	36 (-1;-6)	36	35	30	1B1 / P2A	39	36
6 - 16 - 4 - 16 - 44.2	18.9	28.8	38.2	45.1	41.6	54.2	39 (-2;-7)	39	37	32	1B1 / P2A	51	46
8 - 16 - 6 - 16 - 33.2	20.9	26.9	39.1	45.7	43.2	55.0	39 (-1;-6)	39	38	33	1B1 / P2A	53	51
44.2 - 12 - 6 - 12 - 44.2	19.6	31.3	39.0	44.9	43.6	56.8	41 (-2;-8)	41	39	33	1B1 / P2A	48	57
8 - 16 - 4 - 16 - 55.2	27.7	31.8	41.2	39.7	39.7	58.2	41 (-2;-4)	41	39	37	1B1 / P2A	55	56
8 - 16 - 6 - 16 - 55.2	23.9	31.1	41.0	49.1	50.5	60.9	43 (-2;-4)	43	41	39	1B1 / P2A	57	61
66.2 - 16 - 6 - 16 - 44.2	27.8	34.3	43.0	42.6	45.7	61.4	44 (-1;-5)	44	43	39	1B1 / P2A	60	67

THERMOBEL TG STRATOPHONE — TRIPLE GLAZING WITH ACOUSTIC LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 12 - 4 - 12 - 44.2st	21.2	25.7	35.4	46.4	49.5	49.5	39 (-2;-7)	39	37	32	1B1 / P2A	41	41
6 - 12 - 4 - 12 - 44.2 st	19.4	30.2	38.6	47.2	45.9	52.2	41 (-2;-8)	41	39	33	1B1 / P2A	43	46
8 - 12 - 4 - 12 - 44.2 st	21.5	30.7	39.4	48.1	48.8	56.8	42 (-2;-7)	42	40	35	1B1 / P2A	45	51
44.2 - 12 - 4 - 12 - 44.2 st	23.9	31.1	41.0	49.1	50.5	60.9	43 (-2;-7)	43	41	36	1B1 / P2A	46	52
10 - 12 - 4 - 12 - 44.2 st	24.8	32.4	42.6	46.1	49.8	57.7	44 (-2;-7)	44	42	37	1B1 / P2A	47	56
8 - 16 - 6 - 16 - 55.2 st	30.3	32.5	43.2	47.9	46.7	56.9	45 (-1;-5)	45	44	40	1B1 / P2A	57	61
10 - 16 - 6 - 16 - 55.2 st	30.7	33.2	45.3	46.1	48.0	58.9	46 (-2;-5)	46	44	41	1B1 / P2A	59	66
10 - 16 - 6 - 16 - 66.2 st	36.1	36.2	44.4	46.8	48.7	57.8	47 (-1;-4)	47	46	43	1B1 / P2A	61	71
44.2 st - 10 - 4 - 10 - 66.2st	27.4	35.9	44.1	53.0	55.2	63.2	47 (-1;-7)	47	46	40	1B1 / P2A	46	62
44.2 st - 12 - 6 - 12 - 66.2st	27.9	36.9	47.0	53.9	54.6	63.1	48 (-2;-7)	48	46	41	1B1 / P2A	52	67
88.2 st - 12 - 6 - 12 - 66.2 st	33.2	42.8	49.3	52.5	52.8	61.5	51 (-1;-5)	51	50	46	1B1 / P2A	60	87

GLASS PARTITION MADE OUT OF 2 SINGLE GLASS SHEETS (PLANIBEL AND/OR STRATOBEL-STRATOPHONE) [2]

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
6 / 60 mm air / 6	No estimation						39 (-3;-4)	39	36	35	NPD	72	30
6 / 60 mm air / 44.2							43 (-2;-4)	43	41	39	1B1 / P2A	74	36
6 / 60 mm air / 44.2 st							45 (-1;-3)	45	44	42	1B1 / P2A	74	36

NPD = No Performance Determined.

(1) These sound reduction values correspond to glazings of 1,23m by 1,48m according to EN ISO 717-1 & EN ISO 10140 which are tested in laboratory conditions. The accuracy of the given indexes is not better than +/- 1dB. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources, etc.

(2) The acoustic insulation of a partition is not only dependant of the glass, but also function of the size and the quality of the frame,the air tightness of the partition, the gap between the 2 glass sheets, the eventual ventilation in this gap and the separation between the 2 glass sheets (no sound transmission inside the structure), … Therefore, AGC provides only an ESTIMATION for this structure. To know the effective acoustic insulation of the partition, the frame produces has to perform a test.

9000625 EN - 06/15

Performances
Acoustic Glass
PLANIBEL, STRATOBEL,
STRATOPHONE, THERMOBEL

PLANIBEL — FLOAT GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
6 mm	19.5	23.4	29.5	35.5	27.6	31.6	31 (-2;-3)	31	29	28	NPD	6	15
8 mm	22.1	25.1	32.2	35.6	28.7	35.9	32 (-1;-2)	32	31	30	NPD	8	20

STRATOBEL — LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
44.2	25.8	26.4	32.6	36.8	33.8	38.2	35 (-1;-3)	35	34	32	1B1 / P2A	9	21
66.2	25.3	28.2	34.4	33.2	38.3	47.4	36 (-1;-3)	36	35	33	1B1 / P2A	13	31

STRATOPHONE — ACOUSTIC LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
33.2 st	25.5	28.4	32.0	37.1	39.2	41.1	36 (0;-3)	36	36	33	1B1 / P2A	7	16
44.2 st	26.6	29.9	34.1	38.1	39.2	42.0	37 (0;-2)	37	37	35	1B1 / P2A	9	21
55.2 st	29.3	31.5	35.0	39.6	40.3	47.4	39 (-1;-3)	39	38	36	1B1 / P2A	11	26
66.2 st	29.1	32.7	37.7	40.3	40.2	47.9	40 (-1;-3)	40	39	37	1B1 / P2A	13	31
88.2 st	33.2	35.3	37.4	39.1	44.5	53.8	41 (-1;-2)	41	40	39	1B1 / P2A	17	41

THERMOBEL — DOUBLE GLAZING

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 16 - 4	20.5	16.8	25.7	36.4	41.4	36.5	30 (-1;-4)	30	29	26	NPD	24	20
6 - 15 - 6	21.5	21.4	31.0	38.7	30.8	39.2	32 (-1;-3)	32	31	29	NPD	27	30
6 - 15 - 4	22.0	23.5	31.8	43.1	41.9	43.4	36 (-1;-5)	36	35	31	NPD	25	25
8 - 16 - 4	23.2	24.6	31.9	41.1	43.6	44.1	37 (-2;-5)	37	35	32	NPD	28	30
10 - 15 - 6	22.0	28.7	36.4	40.7	39.1	49.6	38 (-1;-4)	38	37	34	NPD	31	40

THERMOBEL STRATOBEL — DOUBLE GLAZING WITH LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 16 - 44.2	22.0	23.2	33.6	43.3	48.6	50.6	37 (-2;-6)	37	35	31	1B1 / P2A	29	31
44.2 - 16 - 33.2	23.7	26.4	37.7	43.3	41.9	53.7	39 (-1;-5)	39	38	34	1B1 / P2A	32	37
6 - 15 - 55.2	23.5	28.6	36.5	43.2	39.6	47.4	39 (-1;-4)	39	38	35	1B1 / P2A	32	41
8 - 15 - 55.2	26.1	32.3	39.5	41.0	40.2	53.6	41 (-2;-4)	41	39	37	1B1 / P2A	34	46
66.2 - 16 - 55.2	29.2	34.0	42.4	39.3	45.1	60.6	42 (-1;-4)	42	41	38	1B1 / P2A	40	57
88.2 - 15 - 66.2	28.3	39.0	43.5	43.5	51.0	61.9	46 (-1;-5)	46	45	41	1B1 / P2A	45	72

THERMOBEL STRATOPHONE — DOUBLE GLAZING WITH ACOUSTIC LAMINATED GLASS

	Transmission loss function of sound frequencies [1]						Acoustics Indexes [1]				Norms	Total Thickness	Weight
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Rw (C;Ctr)	Rw	Rw+C	Rw+Ctr	Impact / Break-in		
	dB						dB				EN 12600 / EN 356	mm	kg/m²
4 - 15 - 44.2 st	25.0	26.0	33.4	44.1	46.0	49.1	39 (-2;-5)	39	37	34	1B1 / P2A	28	31
6 - 16 - 44.2 st	23.2	28.6	38.7	48.7	48.2	53.4	41 (-2;-6)	41	39	35	1B1 / P2A	31	36
8 - 16 - 44.2 st	24.5	29.9	39.6	47.4	48.4	55.4	42 (-2;-6)	42	40	36	1B1 / P2A	33	41
6 - 15 - 66.2 st	27.2	30.7	39.3	44.7	44.8	54.6	42 (-1;-5)	42	41	37	1B1 / P2A	34	46
8 - 15 - 66.2 st	28.2	33.3	40.9	42.8	43.8	56.2	43 (-2;-5)	43	41	38	1B1 / P2A	36	51
10 - 16 - 44.2 st	26.2	33.2	42.7	46.7	50.9	57.9	45 (-2;-6)	45	43	39	1B1 / P2A	35	46
10 - 16 - 55.2 st	28.8	34.1	45.8	46.2	49.3	61.1	46 (-2;-6)	46	44	40	1B1 / P2A	37	51
10 - 16 - 66.2 st	31.0	33.7	46.2	45.7	48.6	62.2	46 (-2;-5)	46	44	41	1B1 / P2A	39	56
66.2 st - 16 - 44.2 st	27.6	38.0	45.8	54.1	56.0	63.1	49 (-3;-8)	49	46	41	1B1 / P2A	38	52
88.2 st - 15 - 44.2 st	30.5	40.0	45.4	52.5	55.2	63.8	50 (-2;-7)	50	48	43	1B1 / P2A	41	62
66.2 st - 16 - 66.2 st	30.4	39.3	46.7	53.9	54.0	65.1	50 (-2;-7)	50	48	43	1B1 / P2A	42	62
88.2 st - 16 - 66.2 st	35.9	43.6	47.8	51.6	55.1	68.5	52 (-1;-5)	52	51	47	1B1 / P2A	46	72

NPD = No Performance Determined.

(1) These sound reduction values correspond to glazings of 1,23m by 1,48m according to EN ISO 717-1 & EN ISO 10140 which are tested in laboratory conditions. The accuracy of the given indexes is not better than +/- 1dB. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources, etc.