

Sound Transmission Loss (TL) Measurements, Butacite® PVB Interlayer

Glass type	Glass Construction	Thickness	FREQUENCY (HERTZ)																	STC	
			100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000		5000
Monolithic	1/4" Glass RAL-TL 63-66	0.230" (5.84 mm)	--	24	26	27	27	28	29	30	31	32	34	34	32	26	26	30	36	--	30
Monolithic IG Unit	1/4"-1/2" Air-1/4" RAL-TL 71-166	1.0" (25 mm)	35	25	25	22	20	24	27	27	30	32	33	35	34	29	31	33	36	39	31
Single 2-ply Laminated	1/8" 0.015 1/8" RAL-TL 89-364	0.262" (6.65 mm)	31	28	28	27	28	28	30	31	34	35	36	36	34	32	34	39	42	45	34
	1/8" 0.030 1/8" RAL-TL 89-363	0.276" (7.01 mm)	31	28	27	27	28	28	30	31	34	35	36	36	35	34	34	38	42	45	34
	1/8" 0.045 1/8" RAL-TL 89-362	0.293" (7.44 mm)	31	29	27	28	28	28	30	31	33	35	35	36	35	34	35	38	42	45	34
	1/8" 0.060 1/8" RAL-TL 89-365	0.307" (7.80 mm)	32	29	27	28	28	29	30	32	34	35	36	37	36	35	35	38	42	45	35
	1/4" 0.060 1/8" RAL-TL 89-366	0.409" (10.39 mm)	32	29	29	31	31	31	32	34	35	36	36	35	35	37	41	44	47	50	36
	1/4" 0.015 1/4" RAL-TL 89-367	0.462" (11.73 mm)	34	31	30	32	32	33	34	35	34	35	35	35	38	42	45	48	50	53	37
	1/4" 0.030 1/4" RAL-TL 89-371	0.478" (12.14 mm)	34	31	30	32	32	33	34	34	34	36	35	35	38	41	45	48	50	53	37
	1/4" 0.045 1/4" RAL-TL 89-372	0.491" (12.47 mm)	35	32	31	32	32	33	34	35	35	36	36	36	38	42	45	47	50	53	38
	1/4" 0.060 1/4" RAL-TL 89-373	0.507" (12.88 mm)	35	32	31	32	32	33	34	35	35	36	36	36	38	41	45	47	50	53	38
Single 3-ply Laminated	1/8" 0.030 5/32" 0.030 1/8" RAL-TL 89-374	0.424" (11.02 mm)	32	30	28	30	30	31	32	33	35	35	35	34	34	37	41	44	47	50	36
Single Laminated IG/Unit (Sealed)	1/8" 0.030 1/8"-1/2" Air-1/4" RAL-TL 89-369	1.0" (25 mm) nominal	33	22	28	25	26	30	34	34	38	42	43	46	46	41	43	49	52	56	39
	1/8" 0.030 1/8"-1/2" Argon-1/4" RAL-TL 89-368	1.0" (25 mm) nominal	33	25	28	25	25	29	32	34	39	43	45	46	45	42	44	48	52	57	39

Specimens tested by Riverbank Acoustical Laboratories according to ASTM E90-87 and ASTM E413-87 or prior versions