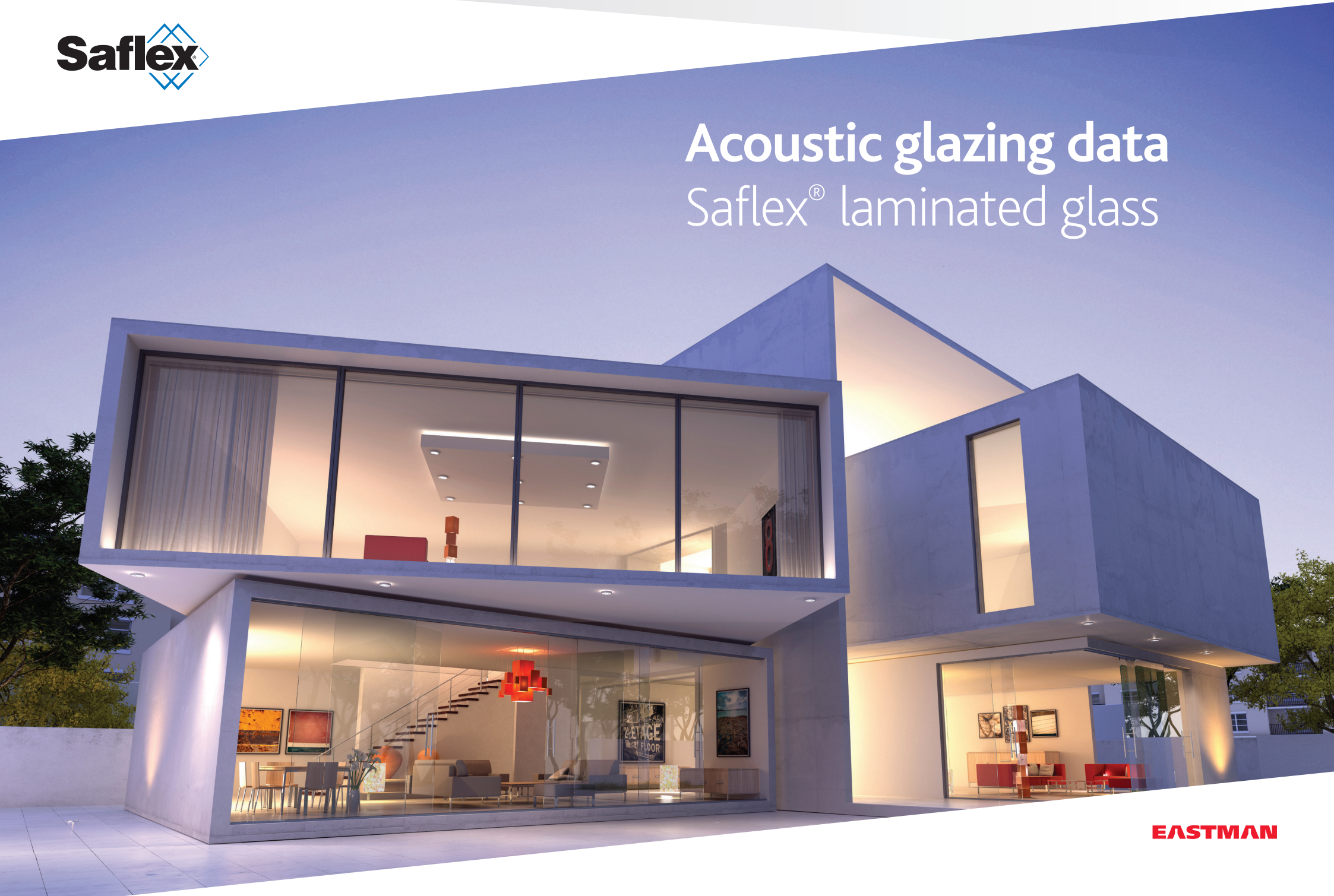
Saflex®

Acoustic glazing data

Saflex® laminated glass



EASTMAN

Acoustic glazing

Business, recreational, and residential environments create complex demands for architectural design and structural performance. Modern design trends emphasize a liberal use of glazing, while building owners demand the highest level of comfort and service for tenants and users. Protecting tenants and users from the increasing noise levels of our environment is a critical factor in the specification of glazing materials for new or renovated structures. Laminated glass manufactured with architectural glazing interlayers from Eastman have proven to be a viable solution to the dual problem of retaining architectural integrity while simultaneously providing the most practical, most effective form of sound control available in glazing systems.

The presented data is intended only as a guide for glazing use and planning tools. The sound transmission loss and single number ratings are derived from samples tested at independent laboratories. Measurements have been completed on glass specimens without framing and may not be indicative of performance in situ. Specimens have been tested in accordance with international standards such as ASTM International (ASTM)[i] E90 *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements* and/or International Organization for Standardization (ISO)[ii] 10140 *Acoustics—Laboratory measurement of sound insulation of building elements*. Calculations for single number acoustic ratings have been carried out in accordance with ASTM E 413 *Classification for Rating Sound Insulation* (STC), ASTM E 1332 *Standard Classification for Rating Outdoor-Indoor Sound Attenuation (OITC)*, ISO 717 *Acoustics—Rating of sound insulation in buildings and of building elements—Part 1: Airborne sound insulation* (Rw, C, Ctr) and Eastman protocol for calculating decibel reduction (DR_b). The test number has been generalized as an Eastman (EMN) tracking number. Supply of an Eastman-formatted detailed report is available for any of the configurations listed.

The sound transmission loss of a material is dependent on its mass, damping, and stiffness. Increasing glass thickness, which increases the mass, will increase sound isolation performance. Creating an air space between two lites of glass can also increase sound transmission loss (TL), but only for air space thickness greater than 12 mm (0.5 in.).

The remaining mechanism to enhance sound transmission loss is glass damping. Glass has very low inherent damping. Using Saflex® polyvinyl butyral (PVB) interlayers in laminated glass configurations will increase glass damping and increase TL. These increases can only be otherwise obtained through significant increases in glass thickness. When laminated glass is used in air-spaced or insulating glass configurations, the benefits of damping are even greater. The selected data presented in this brochure can be reviewed to illustrate how these mechanisms work in conjunction with one another. Based on the presented data, a configuration can be selected that may lead to the optimum selection of acoustic glazing for your interior glass requirements or a full external façade.

The assistance of a qualified acoustical consultant can be helpful in making final fenestration or glazing selections. Names of acoustical consultants in your area can be obtained through the National Council of Acoustical Consultants[iii].

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Saflex PVB interlayer descriptions

Saflex® Acoustic (Q series) interlayer for architectural glazing applications is an engineered polyvinyl butyral (PVB) interlayer for laminated glass constructions that is designed to reduce perceived transmitted noise. Saflex Acoustic is available in three thicknesses, 0.64 mm (0.025 in.), 0.76 mm (0.030 in.), and 1.52 mm (0.060 in.), to accommodate various application needs from simple noise abatement to safety and security glazing design, including UV radiation transmittance reduction and glass-shard retention post-breakage.

In the data tables of this brochure, Saflex Acoustic is listed as Saflex Q. Saflex® Clear (R series) PVB interlayer is the conventional PVB interlayer for architectural laminated glass. In the data tables of this brochure, this interlayer is listed as Saflex R. For decades, conventional PVB interlayers have been known to contribute to sound transmittance loss through damping. Although not as effective in the high frequency range as Saflex Acoustic, Saflex Clear series does add acoustic performance to glazing versus monolithic glass and delivers the other attributes typically associated with high quality laminated glass.

The glazing configurations are designated in this document per the following example:

Glazing configuration : **6 [12 AS] 8 | 0.76 Saflex® Q | 8**
6 mm glass (outboard)
12 mm air space – air space is between " [ ] " and marked as " AS "
8 mm glass
0.76 mm Saflex Acoustic (Q) – interlayer of a laminate is between « | | » with interlayer type designated
8 mm glass (Inboard)

Register at www.saflex.com for access to Saflex SoundPro, the acoustic glazing software program that allows users to find the best glazing configuration to meet the acoustic needs of residential, commercial and industrial applications.

Eastman has specially engineered interlayers for structural, solar, color, and windborne debris applications that do not appear in this brochure. Consult your Eastman representative regarding acoustic performance of these products.

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Glazing data—acoustic performance

Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Non-Laminate Glazing	EMN: TR16-101	3	3.0	25	30	-1	-3	29	30	4
	EMN: TR16-102	4	4.0	27	30	-1	-2	30	31	38
	EMN: TR16-103	5	5.0	28	31	-2	-2	30	24	54
	EMN: TR16-104	6	6.0	28	31	-1	-1	31	24	74
	EMN: TR16-105	8	8.0	30	34	-1	-2	34	29	124
	EMN: TR16-106	10	10.0	32	35	-1	-2	35	30	153
	EMN: TR16-107	12	12.0	33	37	-1	-3	37	30	194
	EMN: TR16-108	19	19.0	34	39	0	-3	39	25	217
	EMN: TR16-109	3 [6 AS] 3	12.0	26	30	-1	-3	30	27	92
	EMN: TR16-110	3 [12 AS] 3	18.0	24	30	-1	-4	30	32	76
	EMN: TR16-111	4 [12 AS] 4	20.0	26	32	-1	-4	32	26	105
	EMN: TR16-112	5 [12 AS] 5	22.0	28	33	-1	-4	33	27	114
	EMN: TR16-113	6 [12 AS] 6	24.0	29	34	-1	-3	34	28	122
	EMN: TR16-114	6 [16 AS] 6	28.0	29	34	-1	-3	34	26	130
	EMN: TR16-115	6 [18 AS] 6	30.0	28	34	-1	-3	34	24	139
	EMN: TR16-116	5 [25 AS] 5	35.0	28	35	-2	-5	35	32	161
	EMN: TR16-117	6 [25 AS] 6	37.0	29	35	-1	-3	35	23	145
	EMN: TR16-118	3 [51 AS] 5	59.0	27	38	-2	-7	38	28	217
	EMN: TR16-119	3 [51 AS] 6	60.0	29	39	-2	-7	39	31	248
	EMN: TR16-120	6 [12 AS] 6 [12 AS] 6	42.0	32	40	-2	-5	40	28	219
	EMN: TR16-121	6 [25 AS] 6 [12 AS] 6	42.0	37	46	-2	-6	46	27	359

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		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Non-Laminate Glazing	EMN: TR16-101	16	24	18	21	20	21	23	23	25	27	28	30	31	33	34	34	33	25	26
	EMN: TR16-102	20	29	22	22	22	22	25	25	27	29	31	32	33	34	35	32	25	28	33
	EMN: TR16-103	18	28	26	24	23	24	25	26	28	30	32	33	34	35	33	27	27	32	37
	EMN: TR16-104	18	28	25	28	24	25	27	27	29	31	33	34	35	33	29	28	32	36	40
	EMN: TR16-105	16	30	28	29	29	28	30	31	33	34	35	34	32	31	32	36	39	41	44
	EMN: TR16-106	24	29	27	29	30	31	32	32	33	35	34	33	32	32	36	39	42	44	47
	EMN: TR16-107	21	30	29	31	31	33	34	34	34	35	34	33	34	38	42	44	46	48	51
	EMN: TR16-108	19	26	31	30	32	34	35	33	35	36	36	38	40	43	45	46	48	49	49
	EMN: TR16-109	23	26	21	23	23	26	21	19	24	27	30	33	36	40	44	46	39	34	45
	EMN: TR16-110	19	30	23	24	19	16	19	22	25	29	32	35	38	41	43	44	37	31	37
	EMN: TR16-111	23	30	25	24	19	17	24	27	28	33	35	37	39	40	41	37	33	37	44
	EMN: TR16-112	21	31	25	27	19	20	25	28	30	34	35	37	39	40	37	33	35	41	45
	EMN: TR16-113	20	31	23	27	24	22	27	29	30	34	36	38	39	37	33	33	38	43	46
	EMN: TR16-114	20	30	20	29	22	22	27	29	31	35	36	38	40	38	34	33	40	45	49
	EMN: TR16-115	19	29	19	30	22	22	27	30	31	35	37	39	40	38	34	34	43	46	52
	EMN: TR16-116	26	29	22	26	18	25	25	31	32	34	36	39	40	39	35	36	46	52	58
	EMN: TR16-117	19	26	20	32	24	24	29	30	33	36	37	39	40	38	34	35	44	46	47
	EMN: TR16-118	23	26	14	22	25	29	30	33	34	39	47	47	50	49	49	46	48	47	47
	EMN: TR16-119	26	29	16	21	26	30	30	35	35	38	41	44	49	50	49	51	58	54	54
	EMN: TR16-120	20	28	25	27	24	27	32	35	37	39	41	44	46	45	42	44	50	51	50
	EMN: TR16-121	25	28	34	33	28	31	37	42	45	48	51	53	54	54	48	51	60	62	63

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Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Laminate with Saflex Acoustic (QS) PVB Interlayer	EMN: TR16-122	3 | 0.76 Saflex Q | 3	6.76	32	36	-1	-3	36	30	144
	EMN: TR16-123	3 | 1.52 Saflex Q | 3	7.52	32	37	-1	-3	36	23	155
	EMN: TR16-268	4 | 0.64 Saflex Q | 4	8.64	31	37	-1	-4	37	29	159
	EMN: TR16-269	4 | 0.76 Saflex Q | 4	8.76	33	37	-1	-2	37	29	167
	EMN: TR16-125	4 | 1.52 Saflex Q | 4	9.52	33	37	0	-2	37	22	178
	EMN: TR18-021	3 | 0.64 Saflex Q| 6	9.64	33	37	-1	-2	37	30	173
	EMN: TR16-126	3 | 0.76 Saflex Q | 6	9.76	33	37	0	-2	37	26	173
	EMN: TR18-011	4 | 0.64 Saflex Q| 6	10.64	34	37	0	-2	37	24	187
	EMN: TR16-128	5 | 0.76 Saflex Q | 5	10.76	34	38	-1	-3	38	32	184
	EMN: TR18-016	3 | 0.64 Saflex Q| 8	11.64	35	38	-1	-2	38	30	205
	EMN: TR16-129	5 | 2.29 Saflex Q | 5	12.29	34	38	0	-2	38	23	185
	EMN: TR18-012	4 | 0.64 Saflex Q| 8	12.64	35	38	0	-2	38	24	216
	EMN: TR16-131	6 | 0.76 Saflex Q |6	12.76	35	39	0	-2	39	26	219
	EMN: TR16-132	6 | 1.52 Saflex Q | 6	13.52	35	39	-1	-2	39	28	215
	EMN: TR16-133	5 | 0.76 Saflex Q | 8	13.76	35	39	0	-2	39	24	218
	EMN: TR18-019	6 | 0.64 Saflex Q| 8	14.64	36	39	0	-2	39	26	235
	EMN: TR18-020	3 | 0.64 Saflex Q| 12	15.64	35	39	0	-2	39	26	243
	EMN: TR16-134	3 | 0.76 Saflex Q | 12	15.76	34	40	-1	-3	40	31	221
	EMN: TR18-013	4 | 0.64 Saflex Q| 12	16.64	36	40	-1	-3	40	29	250
	EMN: TR16-135	8 | 0.76 Saflex Q |8	16.76	36	41	0	-2	41	27	264
	EMN: TR16-136	8 | 1.52 Saflex Q | 8	17.52	37	41	0	-2	41	26	270
	EMN: TR18-014	6 | 0.64 Saflex Q| 12	18.64	36	41	-1	-3	41	32	263
	EMN: TR16-137	6 | 0.76 Saflex Q | 12	18.76	36	41	-1	-3	41	29	245
	EMN: TR16-138	10 | 0.76 Saflex Q |10	20.76	37	42	-1	-3	42	32	273
	EMN: TR16-140	12 | 0.76 Saflex Q |12	24.76	38	44	-1	-3	44	26	323

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		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Laminate with Saflex® Acoustic (QS) PVB Interlayer	EMN: TR16-122	20	31	27	28	27	28	30	30	31	34	35	36	37	39	39	40	38	39	43
	EMN: TR16-123	22	30	28	29	28	29	30	30	32	34	36	37	39	40	41	41	39	37	41
	EMN: TR16-268	25	20	28	28	27	27	30	31	33	35	37	39	39	41	40	39	39	43	48
	EMN: TR16-269	20	30	28	29	29	30	31	31	33	35	36	37	39	40	39	39	39	43	47
	EMN: TR16-125	22	30	29	29	30	30	31	32	34	36	37	38	40	40	40	39	39	43	47
	EMN: TR18-021	21	29	30	30	30	30	31	31	33	35	37	38	39	39	37	37	41	45	48
	EMN: TR16-126	21	28	28	30	29	30	31	32	33	35	37	38	39	39	38	39	42	45	47
	EMN: TR18-011	23	31	29	29	31	31	32	32	34	36	37	38	39	39	38	38	42	46	50
	EMN: TR16-128	21	32	29	30	30	30	32	32	34	36	37	38	39	40	39	39	42	46	46
	EMN: TR18-016	25	32	29	30	31	33	33	33	35	36	37	38	38	37	38	42	46	48	52
	EMN: TR16-129	21	30	28	29	29	31	33	33	34	37	38	40	41	42	41	38	39	43	46
	EMN: TR18-012	26	32	29	31	32	33	34	34	35	37	38	39	38	38	38	43	46	49	52
	EMN: TR16-131	23	31	29	31	32	32	34	34	35	38	39	39	40	40	40	42	46	50	52
	EMN: TR16-132	23	32	30	32	32	32	34	34	35	38	39	40	40	40	39	40	45	48	50
	EMN: TR16-133	22	31	30	30	31	33	34	35	36	38	39	40	40	39	39	44	47	49	49
	EMN: TR18-019	26	33	30	32	33	34	35	34	36	37	39	39	39	39	40	44	48	51	54
	EMN: TR18-020	22	30	30	32	33	35	35	35	36	36	36	37	38	42	45	48	51	54	56
	EMN: TR16-134	21	30	29	30	30	33	35	35	36	37	38	38	38	41	44	47	47	50	50
	EMN: TR18-013	23	31	30	32	33	35	35	36	36	37	37	38	39	42	45	48	51	54	56
	EMN: TR16-135	23	33	31	33	33	35	36	36	37	39	40	40	41	41	45	48	51	54	56
	EMN: TR16-136	26	35	33	33	34	34	36	37	38	40	40	40	40	41	44	48	51	53	55
	EMN: TR18-014	23	31	31	33	34	35	36	36	37	37	38	38	40	43	46	49	52	55	57
	EMN: TR16-137	22	30	31	30	32	35	36	36	37	38	39	40	40	42	46	48	50	51	50
	EMN: TR16-138	24	33	31	34	34	36	37	37	38	40	40	40	41	43	47	50	43	55	58
	EMN: TR16-140	23	32	32	36	36	37	39	39	40	41	41	42	45	48	51	54	56	59	60

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Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Laminated Insulating with Saflex® Acoustic (QS) PVB interlayer	EMN: TR16-181	3 [12 AS] 3 | 1.52 Saflex Q | 3	23	30	38	-2	-5	38	31	210
	EMN: TR16-182	3 [12 AS] 4 | 0.76 Saflex Q | 4	24	31	38	-1	-5	38	26	200
	EMN: TR18-025	6 [12 AS] 3 | 0.64 Saflex Q | 3	25	32	39	-2	-5	39	29	238
	EMN: TR18-028	6 [8 AS] 5 | 0.64 Saflex Q | 5	25	33	39	-1	-4	39	27	246
	EMN: TR16-183	6 [12 AS] 3 | 0.76 Saflex Q | 3	25	33	41	-2	-5	41	32	239
	EMN: TR16-185	6 [12 AS] 4 | 0.76 Saflex Q | 4	27	34	41	-1	-5	41	25	249
	EMN: TR18-004	6 [12 AS] 3 | 0.64 Saflex Q | 6	28	33	41	-2	-5	41	29	258
	EMN: TR18-006	6 [12 AS] 4 | 0.64 Saflex Q | 6	29	34	41	-1	-5	41	26	259
	EMN: TR18-026	6 [16 AS] 3 | 0.64 Saflex Q | 3	29	33	41	-2	-6	41	30	254
	EMN: TR16-189	4 [16 AS] 4 | 0.76 Saflex Q | 4	29	30	41	-3	-7	41	30	246
	EMN: TR18-027	6 [16 AS] 4 | 0.64 Saflex Q | 4	31	33	41	-1	-5	41	24	264
	EMN: TR16-194	6 [18 AS] 3 | 0.76 Saflex Q | 3	32	32	41	-2	-6	41	25	243
	EMN: TR16-198	6 [20 AS] 4 | 0.64 Saflex Q | 4	35	29	41	-3	-8	41	26	270
	EMN: TR16-272	6 [12 AS] 8 | 0.76 Saflex Q | 8	35	33	41	-2	-5	41	28	235
	EMN: TR16-199	6 [20 AS] 4 | 0.76 Saflex Q | 4	35	29	41	-3	-8	41	28	256
	EMN: TR16-190	6 [12 AS] 5 | 0.76 Saflex Q | 5	29	35	42	-2	-5	42	32	266
	EMN: TR18-007	6 [12 AS] 4 | 0.64 Saflex Q | 8	31	34	42	-1	-5	42	29	278
	EMN: TR16-192	6 [12 AS] 6 | 0.76 Saflex Q | 6	31	34	43	-2	-6	43	26	281
	EMN: TR18-005	6 [12 AS] 3 | 0.64 Saflex Q | 12	34	36	43	-1	-5	43	31	310
	EMN: TR18-009	6 [12 AS] 4 | 0.64 Saflex Q |12	35	36	43	-1	-4	43	28	311
	EMN: TR18-008	6 [12 AS] 6 | 0.64 Saflex Q | 10	35	35	43	-1	-5	43	26	310
	EMN: TR16-191	10 [12 AS] 4 | 0.51 Saflex Q | 4	31	37	44	-1	-4	44	24	315
	EMN: TR16-193	6 [12 AS] 6 |1.52 Saflex Q | 6	32	34	44	-3	-7	44	31	283
	EMN: TR18-003	6 [12 AS] 6| 0.64 Saflex Q | 12	37	36	44	-2	-5	44	31	313
	EMN: TR16-203	6 [18 AS] 6 | 0.76 Saflex Q | 6	37	36	44	-2	-5	44	31	301
	EMN: TR18-001	8 [16 AS] 5 | 0.64 Saflex Q | 5	35	36	45	-1	-4	45	23	331
	EMN: TR16-202	10 [16 AS] 5 | 0.64 Saflex Q | 5	37	35	45	-3	-7	45	30	320
	EMN: TR16-209	6 [18 AS] 8 | 0.76 Saflex Q | 8	41	35	45	-2	-6	45	29	300
	EMN: TR18-002	10 [12 AS] 5 | 0.64 Saflex Q | 5	33	36	46	-2	-5	46	32	338
	EMN: TR16-207	10 [20 AS] 5 | 0.64 Saflex Q | 5	41	37	46	-2	-6	46	29	333
	EMN: TR16-208	10 [20 AS] 5 | 0.76 Saflex Q | 5	41	37	46	-2	-6	46	29	332
	EMN: TR16-211	10 [20 AS] 6 | 0.76 Saflex Q | 6	43	38	46	-2	-5	46	26	341

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Type	Test ID	One-Third Octave Band Frequencies (dB)																		
		80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Laminated Insulating with Saflex® Acoustic (QS) PVB interlayer	EMN: TR16-181	20	29	27	24	21	25	29	31	34	37	40	44	47	47	49	49	47	47	51
	EMN: TR16-182	20	29	25	27	22	25	29	33	35	37	40	43	45	44	45	44	46	49	50
	EMN: TR18-025	23	31	26	28	22	26	30	34	35	38	40	43	45	45	45	46	52	56	61
	EMN: TR18-028	25	32	28	31	27	26	30	34	34	37	39	42	44	44	43	44	53	59	62
	EMN: TR16-183	21	32	27	32	26	26	32	35	37	40	42	44	46	45	44	44	48	51	55
	EMN: TR16-185	22	31	25	33	27	27	33	37	38	41	43	45	46	45	44	43	48	53	56
	EMN: TR18-004	22	31	25	30	25	29	32	36	37	40	42	44	45	45	44	44	53	59	63
	EMN: TR18-006	22	32	25	30	26	30	33	37	38	40	41	44	45	45	43	44	52	58	62
	EMN: TR18-026	22	31	24	28	25	28	32	37	37	40	41	43	45	45	46	47	53	57	61
	EMN: TR16-189	19	22	20	22	26	31	34	36	38	42	45	48	49	49	46	45	49	54	59
	EMN: TR18-027	23	31	22	30	26	29	32	38	38	41	43	44	46	46	45	46	52	58	62
	EMN: TR16-194	19	26	25	27	25	28	33	37	38	41	43	46	48	47	44	45	54	54	51
	EMN: TR16-198	18	21	18	21	26	32	34	37	42	45	48	50	51	51	46	47	50	57	64
	EMN: TR16-272	22	29	26	29	27	28	32	35	37	39	42	44	46	45	47	47	48	50	50
	EMN: TR16-199	17	20	17	22	26	33	34	37	39	42	45	49	50	50	47	46	50	57	64
	EMN: TR16-190	34	32	25	34	28	28	34	37	38	41	43	45	47	46	44	43	48	52	55
	EMN: TR18-007	23	32	24	31	28	32	34	39	39	41	42	44	44	44	44	49	55	59	62
	EMN: TR16-192	21	30	28	28	26	30	36	39	40	42	45	48	49	49	48	50	54	54	52
	EMN: TR18-005	24	32	26	32	29	33	35	40	39	41	41	42	45	50	52	54	58	61	64
	EMN: TR18-009	24	33	26	32	30	34	36	39	40	41	41	42	45	49	51	54	57	61	64
	EMN: TR18-008	26	33	25	32	28	34	35	40	40	42	43	44	45	47	50	53	58	60	63
	EMN: TR16-191	24	31	28	32	31	33	39	41	41	43	44	44	45	47	52	55	57	58	58
	EMN: TR16-193	20	30	28	29	26	30	35	40	41	43	45	48	50	49	48	50	51	54	54
	EMN: TR18-003	23	33	25	32	30	35	36	41	40	41	43	44	46	49	50	51	57	61	64
	EMN: TR16-203	24	31	26	33	30	32	34	40	40	43	44	46	48	48	46	49	55	59	61
	EMN: TR18-001	22	29	26	33	37	35	39	41	43	45	46	47	47	46	47	53	58	61	64
	EMN: TR16-202	25	28	26	25	30	37	38	43	45	46	46	46	46	47	48	50	56	61	64

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One-Third Octave Band Frequencies (dB)																			
Test ID	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
EMN: TR16-209	22	29	27	33	28	33	35	41	42	44	46	48	49	49	49	50	54	55	54
EMN: TR18-002	21	31	25	32	37	37	39	41	43	45	46	46	46	47	52	55	58	61	64
EMN: TR16-207	26	29	28	29	32	38	40	44	45	47	47	46	46	47	48	50	55	60	64
EMN: TR16-208	25	28	27	29	31	37	40	43	45	47	47	46	47	48	49	50	55	61	65
EMN: TR16-211	27	30	30	30	33	39	41	45	46	48	47	45	45	46	47	50	56	61	65

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Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Double Laminated Insulating with Saflex® Acoustic (QS) PVB interlayer	EMN: TR18-023	3 | 0.64 Saflex Q | 3 [12 AS] 3 | 0.64 Saflex Q | 3	25	34	42	-2	-6	42	30	292
	EMN: TR16-233	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex Q | 3	26	34	43	-2	-6	43	30	290
	EMN: TR18-024	4 | 0.64 Saflex Q | 4 [12 AS] 4 | 0.64 Saflex Q | 4	29	35	43	-1	-5	43	26	309
	EMN: TR16-236	3 | 0.76 Saflex Q | 3 [18 AS] 3 | 0.76 Saflex Q | 3	35	34	44	-2	-6	44	32	283
	EMN: TR18-022	5 | 0.64 Saflex Q | 5 [12 AS] 5 | 0.64 Saflex Q | 5	33	38	46	-1	-5	46	27	347
	EMN: TR16-237	3 | 0.76 Saflex Q | 3 [12 AS] 8 | 0.76 Saflex Q | 8	36	38	47	-2	-5	47	28	338
	EMN: TR16-240	6 | 0.76 Saflex Q | 6 [20 AS] 4 | 0.76 Saflex Q | 4	42	36	49	-3	-8	50	30	406

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		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Double Laminated Insulating with Saflex Acoustic (QS) PVB interlayer	EMN: TR18-023	25	32	27	27	25	29	34	37	38	41	43	46	48	50	52	54	53	55	64
	EMN: TR16-233	23	31	28	27	26	30	34	38	39	43	45	48	50	51	52	53	53	53	54
	EMN: TR18-024	25	32	27	30	28	30	35	38	39	42	44	46	48	50	52	52	53	61	65
	EMN: TR16-236	20	27	27	28	29	30	35	39	40	43	45	48	49	49	50	52	52	54	54
	EMN: TR18-022	25	33	28	33	33	35	39	41	42	44	46	48	49	51	51	52	58	62	65
	EMN: TR16-237	23	33	31	35	34	35	37	43	42	45	47	49	51	51	53	54	55	54	54
	EMN: TR16-240	22	25	26	30	35	39	43	46	48	51	53	55	56	56	56	57	59	66	70

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Type	Test Report number	Configuration (mm)	Unit thickness (mm)	R_w	C	CTR	STC	Deficiency limit	OITC	DR_b
Double-laminated insulating glass with Saflex® R series PVB interlayer	EMN: TR16-248	3 | 0.76 Saflex | 3 [6 AS] 3 | 0.76 Saflex R | 3	20	36	–1	–4	36	28	30	179
	EMN: TR16-249	3 | 1.52 Saflex R | 3 [6 AS] 3 | 1.52 Saflex R | 3	21	37	–1	–4	37	27	30	195
	EMN: TR16-250	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	26	40	–1	–5	40	27	33	226
	EMN: TR16-251	3 | 1.52 Saflex R | 3 [12 AS] 3 | 1.52 Saflex R | 3	27	41	–2	–5	41	32	34	245
	EMN: TR16-252	6 | 2.29 Saflex R | 6 [6 AS] 6 | 2.29 Saflex R | 6	35	41	–1	–3	41	25	36	264
	EMN: TR16-253	3 | 0.76 Saflex R | 3 [12 AS] 5 | 0.76 Saflex R | 12	37	43	–1	–4	43	24	35	276
	EMN: TR16-254	3 | 0.76 Saflex R | 3 [25 AS] 3 | 0.76 Saflex R | 3	39	42	–1	–5	42	24	33	247
	EMN: TR16-255	6 | 1.52 Saflex R | 6 [12 AS] 6 | 1.52 Saflex R | 6	39	42	–1	–4	42	28	36	279
	EMN: TR16-256	6 | 0.76 Saflex R | 6 [25 AS] 3 | 1.52 Saflex R | 3	45	46	–2	–7	46	24	34	337
	EMN: TR16-257	3 | 0.76 Saflex R | 3 [53 AS] 3 | 0.76 Saflex R | 3	67	44	–1	–5	44	26	29	263
	EMN: TR16-258	6 | 1.52 Saflex R | 6 [102 AS] 3 | 0.76 Saflex R | 3	122	53	–1	–5	53	26	45	465
	EMN: TR16-259	3 | 0.76 Saflex R | 3 [114 AS] 3 | 0.76 Saflex R | 3	128	44	–1	–4	44	22	36	290
	EMN: TR16-260	6 | 0.76 Saflex R | 6 [102] 6 | 1.52 Saflex R |12	134	50	–1	–5	50	24	42	423

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		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Double Laminated Insulating with Saflex Clear (R series) PVB interlayer	EMN: TR16-248	20	24	26	23	27	23	24	28	31	34	38	41	43	43	41	42	48	52	56
	EMN: TR16-249	20	23	26	24	29	24	25	30	32	35	39	41	44	44	43	44	49	53	57
	EMN: TR16-250	22	32	26	27	27	26	33	34	36	38	41	44	45	44	43	46	51	51	48
	EMN: TR16-251	23	30	27	23	33	28	34	36	37	40	42	43	43	43	43	46	52	54	56
	EMN: TR16-252	24	28	31	29	32	31	33	36	39	40	42	42	41	42	45	48	52	56	61
	EMN: TR16-254	18	25	25	30	30	30	34	37	39	40	43	46	47	46	45	47	51	52	50
	EMN: TR16-255	26	32	25	32	32	33	38	38	39	40	40	40	41	44	49	52	55	55	56
	EMN: TR16-253	22	28	28	30	31	33	36	38	38	40	42	46	49	48	49	51	52	52	51
	EMN: TR16-257	10	25	27	32	32	34	37	38	40	41	44	47	48	47	47	49	51	52	50
	EMN: TR16-259	20	30	34	30	32	36	37	38	39	41	45	47	49	48	48	50	51	52	51
	EMN: TR16-256	18	21	28	33	37	38	42	43	45	44	44	44	45	49	53	57	59	62	63
	EMN: TR16-260	28	31	42	33	40	42	43	46	50	50	50	49	50	52	55	60	62	64	64
	EMN: TR16-258	31	34	42	40	41	42	45	48	50	52	54	54	54	56	58	60	63	64	65

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Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Triple Insulating with Laminates	EMN: TR16-263	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 6	43	33	41	-2	-6	41	24	237
	EMN: TR16-264	6 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	43	33	41	-1	-5	41	27	238
	EMN: TR16-265	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	44	34	42	-1	-5	42	25	251
	EMN: TR16-266	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	44	33	42	-2	-6	42	28	250
	EMN: TR16-261	3 | 1.52 Saflex Q | 3 [12 AS] 3 [12 AS] 3 | 0.76 Saflex Q | 3	41	35	44	-1	-5	44	26	293
	EMN: TR16-262	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex Q | 3	44	34	44	-2	-6	44	29	300
Laminate Multi-ply	EMN: TR16-175	3 | 0.76 Saflex R | 3 | 0.76 Saflex R | 3	11	32	35	0	-2	35	26	156
	EMN: TR16-176	3 | 1.52 Saflex R | 3 | 1.52 Saflex R | 3	12	32	36	-1	-2	36	31	157
	EMN: TR16-177	6 | 0.38 Saflex R | 6 | 0.38 Saflex R | 6	19	33	38	0	-3	38	26	200
	EMN: TR16-174	3 | 0.76 Saflex Q | 3 | 0.76 Saflex Q | 3	11	33	39	-1	-3	39	27	192
	EMN: TR16-178	6 | 0.76 Saflex R | 6 | 0.76 Saflex R | 6	20	34	39	0	-3	39	25	224
	EMN: TR16-179	8 | 0.38 Saflex R | 8 | 0.38 Saflex R | 8	25	35	41	-1	-4	41	30	238
	EMN: TR16-180	8 | 0.76 Saflex R | 8 | 0.76 Saflex R | 8	26	35	41	-1	-4	41	31	237

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		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Triple Insulating with Laminates	EMN: TR16-263	23	21	28	28	29	26	33	36	38	40	43	45	46	45	44	46	51	52	51
	EMN: TR16-264	20	27	26	31	28	28	33	35	37	39	42	45	46	45	44	47	51	52	50
	EMN: TR16-265	20	25	26	31	29	29	34	36	39	40	43	46	46	46	46	49	52	52	50
	EMN: TR16-266	20	24	25	31	29	27	34	37	38	40	43	46	47	46	47	50	52	51	51
	EMN: TR16-261	20	27	28	29	31	33	35	38	40	43	45	48	50	50	52	53	51	54	54
	EMN: TR16-262	20	28	27	28	29	31	36	39	41	43	45	48	50	51	53	55	56	55	53
Laminate Multi-ply	EMN: TR16-175	22	31	29	27	29	30	31	31	32	33	35	35	34	34	37	40	43	45	46
	EMN: TR16-176	20	28	29	28	29	30	32	31	32	34	35	35	35	35	37	40	43	45	47
	EMN: TR16-177	19	26	30	29	31	32	33	32	34	35	35	36	40	42	44	46	47	49	48
	EMN: TR16-174	20	30	28	29	29	31	33	33	34	36	38	40	41	42	43	44	42	42	45
	EMN: TR16-178	21	28	31	29	31	35	34	34	35	36	37	37	40	43	45	47	49	50	50
	EMN: TR16-179	21	29	31	30	32	34	36	34	36	36	37	40	44	44	46	47	49	50	50
	EMN: TR16-180	21	28	32	30	32	34	36	34	36	36	37	40	43	44	46	47	49	50	50

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Type	Test ID	Configuration (mm)	Unit Thickness (mm)	OITC	Rw	C	C_{TR}	STC	Deficiency Limit	Decibel Reduction (DR_b)
Saflex® Storm Specialty Glazings	EMN: TR18-032	6 [12 AS] 6 | 1.95 Saflex VSO2 | 6	14	33	36	-1	-2	36	28	181
	EMN: TR18-018	6 | 2.54 Saflex HP(DM)| 6	15	33	37	-1	-3	37	32	187
	EMN: TR18-030	6 [12 AS] 6 | 1.95 Saflex VSO2 | 6	32	34	40	-1	-4	40	27	255
	EMN: TR18-029	6 [12 AS] 6 | 2.54 Saflex HP(DM) | 6	33	35	41	-1	-4	41	25	280

		One-Third Octave Band Frequencies (dB)																		
Type	**Test ID**	**80**	**100**	**125**	**160**	**200**	**250**	**315**	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**	**5000**
Saflex® Storm Specialty Glazings	EMN: TR18-032	20	29	28	31	30	32	33	33	33	34	33	34	34	36	40	43	46	49	51
	EMN: TR18-018	19	28	28	31	31	33	33	33	33	34	34	35	35	37	40	44	46	49	52
	EMN: TR18-030	24	32	25	30	28	32	33	36	35	37	38	40	42	45	46	48	53	57	62
	EMN: TR18-029	24	33	25	31	28	33	34	37	37	38	40	42	43	46	49	51	55	59	63

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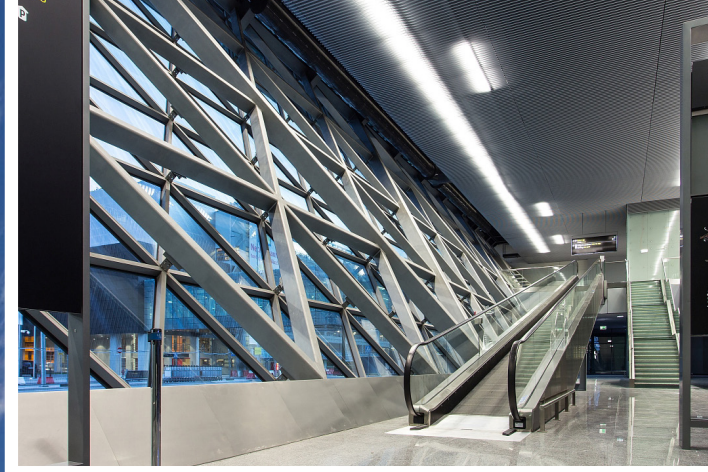
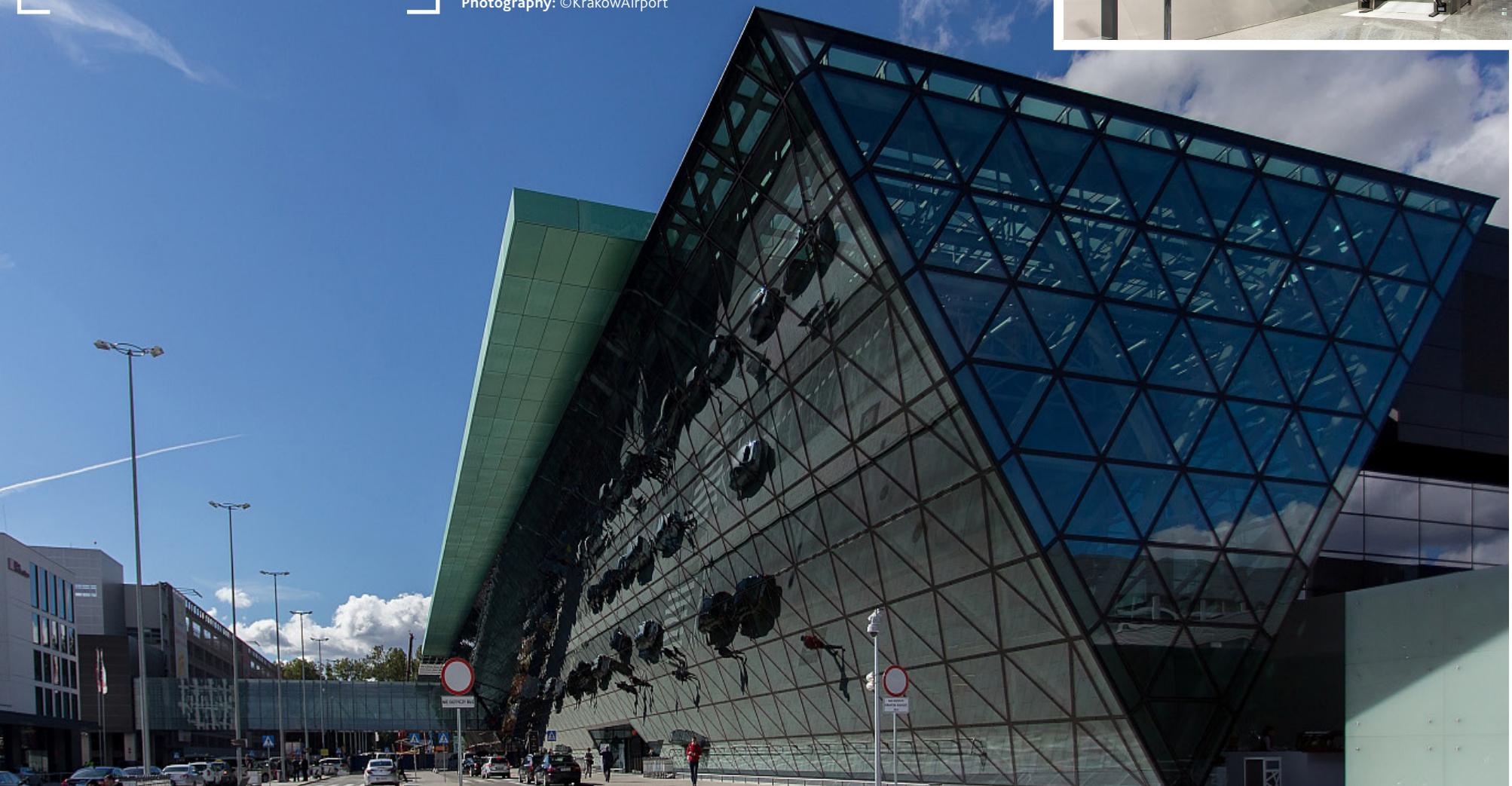
Saflex® acoustic interlayers serve to create a quiet and peaceful atmosphere despite the surrounding busy transport system, which includes planes and trains.

New Terminal in John Paul II International Airport

Featured product: Saflex® Q acoustic PVB interlayer (QS41)
Location: Krakow, Poland
Client: Międzynarodowy Port Lotniczy im. Jana Pawła II Sp. z o.o.
Architect: APA (Czech Dulinski Wrobel)
General contractor: ASTALDI-Polska S.A.
Glass laminator: Press Glass SA, Poland
Façade contractor: ALSAL Sp. z o.o. Sp.Komandytowa
Architectural framing system: Aluprof
Volume: 6,000 m²
Completion date: March 2016
Photography: ©KrakowAirport





The following tables contain the same acoustic data presented previously in this brochure. However, this data is sorted to allow users to quickly select a glazing configuration based on overall thickness. Consult the acoustic glazing data table at the beginning of this guide for C, Ctr, one-third octave band frequency data, and deficiency limits.

Acoustic glazing data sorted by overall glazing thickness

Test ID	Configuration (mm)	Glazing Type	Unit Thickness (mm)	OITC	Rw	STC	Decibel Reduction (DRb)
EMN: TR16-101	3	Monolithic	3	25	30	29	4
EMN: TR16-102	4	Monolithic	4	27	30	30	38
EMN: TR16-103	5	Monolithic	5	28	31	30	54
EMN: TR16-104	6	Monolithic	6	28	31	31	74
EMN: TR16-141	3 | 0.38 Saflex R | 3	Laminate	6	30	32	32	97
EMN: TR16-142	3 | 0.76 Saflex R | 3	Laminate	7	30	33	33	101
EMN: TR16-122	3 | 0.76 Saflex Q | 3	Acoustic Laminate	7	32	36	36	144
EMN: TR16-143	3 | 1.52 Saflex R | 3	Laminate	8	30	34	34	116
EMN: TR16-123	3 | 1.52 Saflex Q | 3	Acoustic Laminate	8	32	37	36	155
EMN: TR16-105	8	Monolithic	8	30	34	34	124
EMN: TR16-144	3 | 2.29 Saflex R | 3	Laminate	8	32	35	35	142
EMN: TR18-010	4 | 0.38 Saflex R | 4	Laminate	8	30	34	34	131
EMN: TR16-268	4 | 0.64 Saflex Q | 4	Acoustic Laminate	9	31	37	37	159

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DRb)**
EMN: TR16-146	3 | 0.76 Saflex R | 5	Laminate	9	31	34	34	129
EMN: TR16-147	4 | 0.76 Saflex R | 4	Laminate	9	32	35	35	148
EMN: TR16-269	4 | 0.76 Saflex Q | 4	Acoustic Laminate	9	33	37	37	167
EMN: TR16-148	4 | 1.52 Saflex R | 4	Laminate	10	32	35	35	153
EMN: TR16-125	4 | 1.52 Saflex Q | 4	Acoustic Laminate	10	33	37	37	178
EMN: TR18-021	3 | 0.64 Saflex Q| 6	Acoustic Laminate	10	33	37	37	173
EMN: TR16-149	3 | 0.76 Saflex R | 6	Laminate	10	32	35	35	146
EMN: TR16-126	3 | 0.76 Saflex Q | 6	Acoustic Laminate	10	33	37	37	173
EMN: TR16-106	10	Monolithic	10	32	35	35	153
EMN: TR16-150	3 | 1.52 Saflex R | 6	Laminate	11	32	35	35	152
EMN: TR16-175	3 | 0.76 Saflex R | 3 | 0.76 Saflex R | 3	Laminate Multi-ply	11	32	35	35	156
EMN: TR16-174	3 | 0.76 Saflex Q | 3 | 0.76 Saflex Q | 3	Acoustic Laminate Multi-ply	11	33	39	39	192
EMN: TR18-011	4 | 0.64 Saflex Q| 6	Acoustic Laminate	11	34	37	37	187
EMN: TR16-151	5 | 0.76 Saflex R | 5	Laminate	11	33	36	36	170

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-128	5 | 0.76 Saflex Q | 5	Acoustic Laminate	11	34	38	38	184
EMN: TR16-152	5 | 1.52 Saflex R | 5	Laminate	12	33	36	36	173
EMN: TR18-016	3 | 0.64 Saflex Q| 8	Acoustic Laminate	12	35	38	38	205
EMN: TR16-153	3 | 0.76 Saflex R | 8	Laminate	12	33	36	36	167
EMN: TR16-154	5 | 0.76 Saflex R | 6	Laminate	12	33	37	37	180
EMN: TR16-109	3 [6 AS] 3	Insulating Glass (IG)	12	26	30	30	92
EMN: TR16-107	12	Monolithic	12	33	37	37	194
EMN: TR16-176	3 | 1.52 Saflex R | 3 | 1.52 Saflex R | 3	Laminate Multi-ply	12	32	36	36	157
EMN: TR16-129	5 | 2.29 Saflex Q | 5	Acoustic Laminate	12	34	38	38	185
EMN: TR16-155	6 | 0.38 Saflex R | 6	Laminate	12	33	36	36	186
EMN: TR18-012	4 | 0.64 Saflex Q| 8	Acoustic Laminate	13	35	38	38	216
EMN: TR16-156	6 | 0.76 Saflex R | 6	Laminate	13	33	37	37	188
EMN: TR16-131	6 | 0.76 Saflex Q |6	Acoustic Laminate	13	35	39	39	219
EMN: TR16-157	3 | 2.29 Saflex R | 8	Laminate	13	33	36	36	172
EMN: TR16-158	6 | 1.52 Saflex R | 6	Laminate	14	34	37	37	193
EMN: TR16-132	6 | 1.52 Saflex Q | 6	Acoustic Laminate	14	35	39	39	215
EMN: TR16-159	5 | 0.76 Saflex R | 8	Laminate	14	33	37	37	181
EMN: TR16-133	5 | 0.76 Saflex Q | 8	Acoustic Laminate	14	35	39	39	218
EMN: TR18-032	6 | 1.95 Saflex VSO2 | 6	Laminate - Storm	14	33	36	36	181
EMN: TR18-015	6 | 2.29 Saflex R | 6	Laminate	14	33	37	37	190
EMN: TR16-160	5 | 1.52 Saflex R | 8	Laminate	15	33	37	37	183
EMN: TR18-018	6 | 2.54 Saflex HP(DM)| 6	Laminate - Storm	15	33	37	37	187
EMN: TR18-019	6 | 0.64 Saflex Q| 8	Acoustic Laminate	15	36	39	39	235
EMN: TR16-161	6 | 0.76 Saflex R | 8	Laminate	15	33	37	37	190
EMN: TR16-162	6 | 1.52 Saflex R | 8	Laminate	16	33	38	38	189
EMN: TR18-020	3 | 0.64 Saflex Q| 12	Acoustic Laminate	16	35	39	39	243
EMN: TR16-212	3 [6 AS] 3 | 0.76 Saflex R | 3	Laminate IG	16	29	34	34	170
EMN: TR16-163	3 | 0.76 Saflex R | 12	Laminate	16	32	38	38	182

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-134	3 | 0.76 Saflex Q | 12	Acoustic Laminate	16	34	40	40	221
EMN: TR16-164	3 | 1.52 Saflex R | 12	Laminate	17	33	38	38	201
EMN: TR18-013	4 | 0.64 Saflex Q| 12	Acoustic Laminate	17	36	40	40	250
EMN: TR16-165	8 | 0.76 Saflex R | 8	Laminate	17	34	39	39	233
EMN: TR16-135	8 | 0.76 Saflex Q |8	Acoustic Laminate	17	36	41	41	264
EMN: TR16-166	3 | 2.29 Saflex R | 12	Laminate	17	33	39	39	200
EMN: TR16-167	8 | 1.52 Saflex R | 8	Laminate	18	34	39	39	226
EMN: TR16-136	8 | 1.52 Saflex Q | 8	Acoustic Laminate	18	37	41	41	270
EMN: TR16-168	5 | 0.76 Saflex R | 12	Laminate	18	33	39	39	209
EMN: TR16-110	3 [12 AS] 3	Insulating Glass (IG)	18	24	30	30	76
EMN: TR18-014	6 | 0.64 Saflex Q| 12	Acoustic Laminate	19	36	41	41	263
EMN: TR16-177	6 | 0.38 Saflex R | 6 | 0.38 Saflex R | 6	Laminate Multi-ply	19	33	38	38	200
EMN: TR16-137	6 | 0.76 Saflex Q | 12	Acoustic Laminate	19	36	41	41	245
EMN: TR16-108	19	Monolithic	19	34	39	39	217
EMN: TR16-248	3 | 0.76 Saflex R | 3 [6 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	20	30	36	36	179
EMN: TR16-178	6 | 0.76 Saflex R | 6 | 0.76 Saflex R | 6	Laminate Multi-ply	20	34	39	39	224
EMN: TR16-111	4 [12 AS] 4	Insulating Glass (IG)	20	26	32	32	105
EMN: TR16-169	10 | 0.76 Saflex R |10	Laminate	21	35	40	40	259
EMN: TR16-170	8 | 0.76 Saflex R | 12	Laminate	21	35	41	41	239
EMN: TR16-138	10 | 0.76 Saflex Q |10	Acoustic Laminate	21	37	42	42	273
EMN: TR16-249	3 | 1.52 Saflex R | 3 [6 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	21	30	37	37	195
EMN: TR16-171	8 | 1.52 Saflex R | 12	Laminate	22	35	41	41	235
EMN: TR16-213	3 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	22	30	36	36	173
EMN: TR16-112	5 [12 AS] 5	Insulating Glass (IG)	22	28	33	33	114
EMN: TR16-214	3 [12 AS] 3 | 1.52 Saflex R | 3	Laminate IG	23	31	37	37	206
EMN: TR16-181	3 [12 AS] 3 | 1.52 Saflex Q | 3	Acoustic Laminate IGU	23	30	38	38	210
EMN: TR16-182	3 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	24	31	38	38	200
EMN: TR16-215	5 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	24	32	39	39	209

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-113	6 [12 AS] 6	Insulating Glass (IG)	24	29	34	34	122
EMN: TR18-025	6 [12 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	25	32	39	39	238
EMN: TR18-028	6 [8 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	25	33	39	39	246
EMN: TR16-172	12 | 0.76 Saflex R | 12	Laminate	25	36	42	42	265
EMN: TR16-140	12 | 0.76 Saflex Q |12	Acoustic Laminate	25	38	44	44	323
EMN: TR16-216	6 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	25	32	39	39	208
EMN: TR16-183	6 [12 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	25	33	41	41	239
EMN: TR16-179	8 | 0.38 Saflex R | 8 | 0.38 Saflex R | 8	Laminate Multi-ply	25	35	41	41	238
EMN: TR18-023	3 | 0.64 Saflex Q | 3 [12 AS] 3 | 0.64 Saflex Q | 3	Double Lam Acoustic IG	25	34	42	42	292
EMN: TR16-250	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	26	33	40	40	226
EMN: TR16-180	8 | 0.76 Saflex R | 8 | 0.76 Saflex R | 8	Laminate Multi-ply	26	35	41	41	237
EMN: TR16-173	12 |1.52 Saflex R | 12	Laminate	26	37	42	42	299
EMN: TR16-233	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	26	34	43	43	290
EMN: TR16-217	6 [12 AS] 4 | 0.38 Saflex R | 4	Laminate IG	26	33	40	40	219
EMN: TR16-185	6 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	27	34	41	41	249
EMN: TR16-251	3 | 1.52 Saflex R | 3 [12 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	27	34	41	41	245
EMN: TR18-004	6 [12 AS] 3 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	28	33	41	41	258
EMN: TR16-114	6 [16 AS] 6	Insulating Glass (IG)	28	29	34	34	130
EMN: TR18-006	6 [12 AS] 4 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	29	34	41	41	259
EMN: TR18-026	6 [16 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	29	33	41	41	254
EMN: TR16-219	6 [12 AS] 5 | 0.76 Saflex R | 5	Laminate IG	29	34	40	40	225
EMN: TR16-189	4 [16 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	29	30	41	41	246
EMN: TR16-190	6 [12 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	29	35	42	42	266
EMN: TR16-218	10 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	29	34	42	42	252
EMN: TR18-024	4 | 0.64 Saflex Q | 4 [12 AS] 4 | 0.64 Saflex Q | 4	Double Lam Acoustic IG	29	35	43	43	309
EMN: TR16-115	6 [18 AS] 6	Insulating Glass (IG)	30	28	34	34	139

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-191	10 [12 AS] 4 | 0.51 Saflex Q | 4	Acoustic Laminate IGU	31	37	44	44	315
EMN: TR18-027	6 [16 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	31	33	41	41	264
EMN: TR18-007	6 [12 AS] 4 | 0.64 Saflex Q | 8	Acoustic Laminate IGU	31	34	42	42	278
EMN: TR16-220	6 [12 AS] 6 | 0.76 Saflex R | 6	Laminate IG	31	35	41	41	245
EMN: TR16-192	6 [12 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	31	34	43	43	281
EMN: TR16-193	6 [12 AS] 6 |1.52 Saflex Q | 6	Acoustic Laminate IGU	32	34	44	44	283
EMN: TR16-221	6 [18 AS] 3 | 0.76 Saflex R | 3	Laminate IG	32	32	40	40	227
EMN: TR16-194	6 [18 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	32	32	41	41	243
EMN: TR18-030	6 [12 AS] 6 | 1.95 Saflex VSO2 | 6	Laminate IG - Storm	32	34	40	40	255
EMN: TR18-031	6 [12 AS] 6 | 2.29 Saflex | 6	Laminate IG	32	35	41	41	266
EMN: TR18-002	10 [12 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	33	36	46	46	338
EMN: TR18-029	6 [12 AS] 6 | 2.54 Saflex HP(DM) | 6	Laminate IG - Storm	33	35	41	41	280
EMN: TR18-022	5 | 0.64 Saflex Q | 5 [12 AS] 5 | 0.64 Saflex Q | 5	Double Lam Acoustic IG	33	38	46	46	347
EMN: TR18-005	6 [12 AS] 3 | 0.64 Saflex Q | 12	Acoustic Laminate IGU	34	36	43	43	310
EMN: TR16-236	3 | 0.76 Saflex Q | 3 [18 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	35	34	44	44	283
EMN: TR16-252	6 | 2.29 Saflex R | 6 [6 AS] 6 | 2.29 Saflex R | 6	Double Lam IG	35	36	41	41	264
EMN: TR16-198	6 [20 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	270
EMN: TR18-009	6 [12 AS] 4 | 0.64 Saflex Q |12	Acoustic Laminate IGU	35	36	43	43	311
EMN: TR18-008	6 [12 AS] 6 | 0.64 Saflex Q | 10	Acoustic Laminate IGU	35	35	43	43	310
EMN: TR18-001	8 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	35	36	45	45	331
EMN: TR16-272	6 [12 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	35	33	41	41	235
EMN: TR16-199	6 [20 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	256
EMN: TR16-116	5 [25 AS] 5	Insulating Glass (IG)	35	28	35	35	161
EMN: TR16-237	3 | 0.76 Saflex Q | 3 [12 AS] 8 | 0.76 Saflex Q | 8	Double Lam Acoustic IG	36	38	47	47	338
EMN: TR16-222	3 [25 AS] 3 | 1.52 Saflex R | 3	Laminate IG	36	33	40	40	241
EMN: TR16-253	3 | 0.76 Saflex R | 3 [12 AS] 5 | 0.76 Saflex R | 12	Double Lam IG	37	35	43	43	276

730 Worcester Street | Springfield, MA 01151 |glazing@eastman.com

Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR18-003	6 [12 AS] 6| 0.64 Saflex Q | 12	Acoustic Laminate IGU	37	36	44	44	313
EMN: TR16-202	10 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	37	35	45	45	320
EMN: TR16-223	5 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	37	33	42	42	262
EMN: TR16-203	6 [18 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	37	36	44	44	301
EMN: TR16-117	6 [25 AS] 6	Insulating Glass (IG)	37	29	35	35	145
EMN: TR16-224	6 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	38	33	42	42	235
EMN: TR16-254	3 | 0.76 Saflex R | 3 [25 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	39	33	42	42	247
EMN: TR16-255	6 | 1.52 Saflex R | 6 [12 AS] 6 | 1.52 Saflex R | 6	Double Lam IG	39	36	42	42	279
EMN: TR16-207	10 [20 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	333
EMN: TR16-209	6 [18 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	41	35	45	45	300
EMN: TR16-208	10 [20 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	332
EMN: TR16-261	3 | 1.52 Saflex Q | 3 [12 AS] 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	41	35	44	44	293
EMN: TR16-240	6 | 0.76 Saflex Q | 6 [20 AS] 4 | 0.76 Saflex Q | 4	Double Lam Acoustic IG	42	36	49	50	406
EMN: TR16-120	6 [12 AS] 6 [12 AS] 6	Triple IG	42	32	40	40	219
EMN: TR16-121	6 [25 AS] 6 [12 AS] 6	Triple IG	42	37	46	46	359
EMN: TR16-263	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 6	Triple IG with Laminate	43	33	41	41	237
EMN: TR16-264	6 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	43	33	41	41	238
EMN: TR16-211	10 [20 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	43	38	46	46	341
EMN: TR16-225	5 [25 AS] 6 | 0.76 Saflex R | 6	Laminate IG	43	36	47	47	363
EMN: TR16-265	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	34	42	42	251
EMN: TR16-266	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	33	42	42	250
EMN: TR16-262	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	44	34	44	44	300

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Acoustic glazing data sorted by overall glazing thickness *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-256	6 | 0.76 Saflex R | 6 [25 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	45	34	46	46	337
EMN: TR16-118	3 [51 AS] 5	Insulating Glass (IG)	59	27	38	38	217
EMN: TR16-119	3 [51 AS] 6	Insulating Glass (IG)	60	29	39	39	248
EMN: TR16-226	5 [51 AS] 3 | 0.76 Saflex R | 3	Laminate IG	63	35	45	45	295
EMN: TR16-257	3 | 0.76 Saflex R | 3 [53 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	67	29	44	44	263
EMN: TR16-227	5 [51 AS] 6 | 0.76 Saflex R | 6	Laminate IG	69	42	47	47	373
EMN: TR16-228	5 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	114	38	48	48	358
EMN: TR16-229	6 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	115	36	45	45	287
EMN: TR16-230	5 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	120	41	49	49	387
EMN: TR16-258	6 | 1.52 Saflex R | 6 [102 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	122	45	53	53	465
EMN: TR16-231	10 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	125	43	50	50	417
EMN: TR16-259	3 | 0.76 Saflex R | 3 [114 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	128	36	44	44	290
EMN: TR16-260	6 | 0.76 Saflex R | 6 [102] 6 | 1.52 Saflex R |12	Double Lam IG	134	42	50	50	423

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The following tables contain the same acoustic data presented previously in this brochure. However, this data is sorted to allow users to quickly select a glazing configuration based on weighted sound reduction (Rw) or sound transmission class (STC). Consult the acoustic glazing data table at the beginning of this guide for C, Ctr, one-third octave band frequency data, and deficiency limits.

Acoustic glazing data sorted by single unit rating (Rw or STC)							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-101	3	Monolithic	3	25	30	29	4
EMN: TR16-102	4	Monolithic	4	27	30	30	38
EMN: TR16-109	3 [6 AS] 3	Insulating Glass (IG)	12	26	30	30	92
EMN: TR16-110	3 [12 AS] 3	Insulating Glass (IG)	18	24	30	30	76
EMN: TR16-103	5	Monolithic	5	28	31	30	54
EMN: TR16-104	6	Monolithic	6	28	31	31	74
EMN: TR16-141	3 | 0.38 Saflex R | 3	Laminate	6	30	32	32	97
EMN: TR16-111	4 [12 AS] 4	Insulating Glass (IG)	20	26	32	32	105
EMN: TR16-142	3 | 0.76 Saflex R | 3	Laminate	7	30	33	33	101
EMN: TR16-112	5 [12 AS] 5	Insulating Glass (IG)	22	28	33	33	114
EMN: TR16-143	3 | 1.52 Saflex R | 3	Laminate	8	30	34	34	116
EMN: TR16-105	8	Monolithic	8	30	34	34	124
EMN: TR18-010	4 | 0.38 Saflex R | 4	Laminate	8	30	34	34	131
EMN: TR16-146	3 | 0.76 Saflex R | 5	Laminate	9	31	34	34	129
EMN: TR16-212	3 [6 AS] 3 | 0.76 Saflex R | 3	Laminate IG	16	29	34	34	170
EMN: TR16-113	6 [12 AS] 6	Insulating Glass (IG)	24	29	34	34	122
EMN: TR16-114	6 [16 AS] 6	Insulating Glass (IG)	28	29	34	34	130
EMN: TR16-115	6 [18 AS] 6	Insulating Glass (IG)	30	28	34	34	139
EMN: TR16-144	3 | 2.29 Saflex R | 3	Laminate	8	32	35	35	142
EMN: TR16-147	4 | 0.76 Saflex R | 4	Laminate	9	32	35	35	148
EMN: TR16-148	4 | 1.52 Saflex R | 4	Laminate	10	32	35	35	153
EMN: TR16-149	3 | 0.76 Saflex R | 6	Laminate	10	32	35	35	146
EMN: TR16-106	10	Monolithic	10	32	35	35	153
EMN: TR16-150	3 | 1.52 Saflex R | 6	Laminate	11	32	35	35	152
EMN: TR16-175	3 | 0.76 Saflex R | 3 | 0.76 Saflex R | 3	Laminate Multi-ply	11	32	35	35	156
EMN: TR16-116	5 [25 AS] 5	Insulating Glass (IG)	35	28	35	35	161

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Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-117	6 [25 AS] 6	Insulating Glass (IG)	37	29	35	35	145
EMN: TR16-122	3 | 0.76 Saflex Q | 3	Acoustic Laminate	7	32	36	36	144
EMN: TR16-151	5 | 0.76 Saflex R | 5	Laminate	11	33	36	36	170
EMN: TR16-152	5 | 1.52 Saflex R | 5	Laminate	12	33	36	36	173
EMN: TR16-153	3 | 0.76 Saflex R | 8	Laminate	12	33	36	36	167
EMN: TR16-176	3 | 1.52 Saflex R | 3 | 1.52 Saflex R | 3	Laminate Multi-ply	12	32	36	36	157
EMN: TR16-155	6 | 0.38 Saflex R | 6	Laminate	12	33	36	36	186
EMN: TR16-157	3 | 2.29 Saflex R | 8	Laminate	13	33	36	36	172
EMN: TR18-032	6 | 1.95 Saflex VSO2 | 6	Laminate - Storm	14	33	36	36	181
EMN: TR16-248	3 | 0.76 Saflex R | 3 [6 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	20	30	36	36	179
EMN: TR16-213	3 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	22	30	36	36	173
EMN: TR16-123	3 | 1.52 Saflex Q | 3	Acoustic Laminate	8	32	37	36	155
EMN: TR16-268	4 | 0.64 Saflex Q | 4	Acoustic Laminate	9	31	37	37	159
EMN: TR16-269	4 | 0.76 Saflex Q | 4	Acoustic Laminate	9	33	37	37	167
EMN: TR16-125	4 | 1.52 Saflex Q | 4	Acoustic Laminate	10	33	37	37	178
EMN: TR18-021	3 | 0.64 Saflex Q| 6	Acoustic Laminate	10	33	37	37	173
EMN: TR16-126	3 | 0.76 Saflex Q | 6	Acoustic Laminate	10	33	37	37	173
EMN: TR18-011	4 | 0.64 Saflex Q| 6	Acoustic Laminate	11	34	37	37	187
EMN: TR16-154	5 | 0.76 Saflex R | 6	Laminate	12	33	37	37	180
EMN: TR16-107	12	Monolithic	12	33	37	37	194
EMN: TR16-156	6 | 0.76 Saflex R | 6	Laminate	13	33	37	37	188
EMN: TR16-158	6 | 1.52 Saflex R | 6	Laminate	14	34	37	37	193
EMN: TR16-159	5 | 0.76 Saflex R | 8	Laminate	14	33	37	37	181
EMN: TR18-015	6 | 2.29 Saflex R | 6	Laminate	14	33	37	37	190
EMN: TR16-160	5 | 1.52 Saflex R | 8	Laminate	15	33	37	37	183
EMN: TR18-018	6 | 2.54 Saflex HP(DM)| 6	Laminate - Storm	15	33	37	37	187
EMN: TR16-161	6 | 0.76 Saflex R | 8	Laminate	15	33	37	37	190
EMN: TR16-249	3 | 1.52 Saflex R | 3 [6 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	21	30	37	37	195

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Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-214	3 [12 AS] 3 | 1.52 Saflex R | 3	Laminate IG	23	31	37	37	206
EMN: TR16-128	5 | 0.76 Saflex Q | 5	Acoustic Laminate	11	34	38	38	184
EMN: TR18-016	3 | 0.64 Saflex Q| 8	Acoustic Laminate	12	35	38	38	205
EMN: TR16-129	5 | 2.29 Saflex Q | 5	Acoustic Laminate	12	34	38	38	185
EMN: TR18-012	4 | 0.64 Saflex Q| 8	Acoustic Laminate	13	35	38	38	216
EMN: TR16-162	6 | 1.52 Saflex R | 8	Laminate	16	33	38	38	189
EMN: TR16-163	3 | 0.76 Saflex R | 12	Laminate	16	32	38	38	182
EMN: TR16-164	3 | 1.52 Saflex R | 12	Laminate	17	33	38	38	201
EMN: TR16-177	6 | 0.38 Saflex R | 6 | 0.38 Saflex R | 6	Laminate Multi-ply	19	33	38	38	200
EMN: TR16-181	3 [12 AS] 3 | 1.52 Saflex Q | 3	Acoustic Laminate IGU	23	30	38	38	210
EMN: TR16-182	3 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	24	31	38	38	200
EMN: TR16-118	3 [51 AS] 5	Insulating Glass (IG)	59	27	38	38	217
EMN: TR16-174	3 | 0.76 Saflex Q | 3 | 0.76 Saflex Q | 3	Acoustic Laminate Multi-ply	11	33	39	39	192
EMN: TR16-131	6 | 0.76 Saflex Q |6	Acoustic Laminate	13	35	39	39	219
EMN: TR16-132	6 | 1.52 Saflex Q | 6	Acoustic Laminate	14	35	39	39	215
EMN: TR16-133	5 | 0.76 Saflex Q | 8	Acoustic Laminate	14	35	39	39	218
EMN: TR18-019	6 | 0.64 Saflex Q| 8	Acoustic Laminate	15	36	39	39	235
EMN: TR18-020	3 | 0.64 Saflex Q| 12	Acoustic Laminate	16	35	39	39	243
EMN: TR16-165	8 | 0.76 Saflex R | 8	Laminate	17	34	39	39	233
EMN: TR16-166	3 | 2.29 Saflex R | 12	Laminate	17	33	39	39	200
EMN: TR16-167	8 | 1.52 Saflex R | 8	Laminate	18	34	39	39	226
EMN: TR16-168	5 | 0.76 Saflex R | 12	Laminate	18	33	39	39	209
EMN: TR16-108	19	Monolithic	19	34	39	39	217
EMN: TR16-178	6 | 0.76 Saflex R | 6 | 0.76 Saflex R | 6	Laminate Multi-ply	20	34	39	39	224
EMN: TR16-215	5 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	24	32	39	39	209
EMN: TR18-025	6 [12 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	25	32	39	39	238
EMN: TR18-028	6 [8 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	25	33	39	39	246
EMN: TR16-216	6 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	25	32	39	39	208
EMN: TR16-119	3 [51 AS] 6	Insulating Glass (IG)	60	29	39	39	248
EMN: TR16-134	3 | 0.76 Saflex Q | 12	Acoustic Laminate	16	34	40	40	221

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Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR18-013	4 | 0.64 Saflex Q| 12	Acoustic Laminate	17	36	40	40	250
EMN: TR16-169	10 | 0.76 Saflex R |10	Laminate	21	35	40	40	259
EMN: TR16-250	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	26	33	40	40	226
EMN: TR16-217	6 [12 AS] 4 | 0.38 Saflex R | 4	Laminate IG	26	33	40	40	219
EMN: TR16-219	6 [12 AS] 5 | 0.76 Saflex R | 5	Laminate IG	29	34	40	40	225
EMN: TR16-221	6 [18 AS] 3 | 0.76 Saflex R | 3	Laminate IG	32	32	40	40	227
EMN: TR18-030	6 [12 AS] 6 | 1.95 Saflex VSO2 | 6	Laminate IG - Storm	32	34	40	40	255
EMN: TR16-222	3 [25 AS] 3 | 1.52 Saflex R | 3	Laminate IG	36	33	40	40	241
EMN: TR16-120	6 [12 AS] 6 [12 AS] 6	Triple IG	42	32	40	40	219
EMN: TR16-135	8 | 0.76 Saflex Q |8	Acoustic Laminate	17	36	41	41	264
EMN: TR16-136	8 | 1.52 Saflex Q | 8	Acoustic Laminate	18	37	41	41	270
EMN: TR18-014	6 | 0.64 Saflex Q| 12	Acoustic Laminate	19	36	41	41	263
EMN: TR16-137	6 | 0.76 Saflex Q | 12	Acoustic Laminate	19	36	41	41	245
EMN: TR16-170	8 | 0.76 Saflex R | 12	Laminate	21	35	41	41	239
EMN: TR16-171	8 | 1.52 Saflex R | 12	Laminate	22	35	41	41	235
EMN: TR16-183	6 [12 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	25	33	41	41	239
EMN: TR16-179	8 | 0.38 Saflex R | 8 | 0.38 Saflex R | 8	Laminate Multi-ply	25	35	41	41	238
EMN: TR16-180	8 | 0.76 Saflex R | 8 | 0.76 Saflex R | 8	Laminate Multi-ply	26	35	41	41	237
EMN: TR16-185	6 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	27	34	41	41	249
EMN: TR16-251	3 | 1.52 Saflex R | 3 [12 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	27	34	41	41	245
EMN: TR18-004	6 [12 AS] 3 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	28	33	41	41	258
EMN: TR18-006	6 [12 AS] 4 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	29	34	41	41	259
EMN: TR18-026	6 [16 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	29	33	41	41	254
EMN: TR16-189	4 [16 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	29	30	41	41	246
EMN: TR18-027	6 [16 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	31	33	41	41	264
EMN: TR16-220	6 [12 AS] 6 | 0.76 Saflex R | 6	Laminate IG	31	35	41	41	245
EMN: TR16-194	6 [18 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	32	32	41	41	243
EMN: TR18-031	6 [12 AS] 6 | 2.29 Saflex | 6	Laminate IG	32	35	41	41	266

730 Worcester Street | Springfield, MA 01151 |glazing@eastman.com

Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR18-029	6 [12 AS] 6 | 2.54 Saflex HP(DM) | 6	Laminate IG - Storm	33	35	41	41	280
EMN: TR16-252	6 | 2.29 Saflex R | 6 [6 AS] 6 | 2.29 Saflex R | 6	Double Lam IG	35	36	41	41	264
EMN: TR16-198	6 [20 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	270
EMN: TR16-272	6 [12 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	35	33	41	41	235
EMN: TR16-199	6 [20 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	256
EMN: TR16-263	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 6	Triple IG with Laminate	43	33	41	41	237
EMN: TR16-264	6 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	43	33	41	41	238
EMN: TR16-138	10 | 0.76 Saflex Q |10	Acoustic Laminate	21	37	42	42	273
EMN: TR16-172	12 | 0.76 Saflex R | 12	Laminate	25	36	42	42	265
EMN: TR18-023	3 | 0.64 Saflex Q | 3 [12 AS] 3 | 0.64 Saflex Q | 3	Double Lam Acoustic IG	25	34	42	42	292
EMN: TR16-173	12 |1.52 Saflex R | 12	Laminate	26	37	42	42	299
EMN: TR16-190	6 [12 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	29	35	42	42	266
EMN: TR16-218	10 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	29	34	42	42	252
EMN: TR18-007	6 [12 AS] 4 | 0.64 Saflex Q | 8	Acoustic Laminate IGU	31	34	42	42	278
EMN: TR16-223	5 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	37	33	42	42	262
EMN: TR16-224	6 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	38	33	42	42	235
EMN: TR16-254	3 | 0.76 Saflex R | 3 [25 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	39	33	42	42	247
EMN: TR16-255	6 | 1.52 Saflex R | 6 [12 AS] 6 | 1.52 Saflex R | 6	Double Lam IG	39	36	42	42	279
EMN: TR16-265	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	34	42	42	251
EMN: TR16-266	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	33	42	42	250
EMN: TR16-233	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	26	34	43	43	290

730 Worcester Street | Springfield, MA 01151 |glazing@eastman.com

Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR18-024	4 | 0.64 Saflex Q | 4 [12 AS] 4 | 0.64 Saflex Q | 4	Double Lam Acoustic IG	29	35	43	43	309
EMN: TR16-192	6 [12 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	31	34	43	43	281
EMN: TR18-005	6 [12 AS] 3 | 0.64 Saflex Q | 12	Acoustic Laminate IGU	34	36	43	43	310
EMN: TR18-009	6 [12 AS] 4 | 0.64 Saflex Q |12	Acoustic Laminate IGU	35	36	43	43	311
EMN: TR18-008	6 [12 AS] 6 | 0.64 Saflex Q | 10	Acoustic Laminate IGU	35	35	43	43	310
EMN: TR16-253	3 | 0.76 Saflex R | 3 [12 AS] 5 | 0.76 Saflex R | 12	Double Lam IG	37	35	43	43	276
EMN: TR16-140	12 | 0.76 Saflex Q |12	Acoustic Laminate	25	38	44	44	323
EMN: TR16-191	10 [12 AS] 4 | 0.51 Saflex Q | 4	Acoustic Laminate IGU	31	37	44	44	315
EMN: TR16-193	6 [12 AS] 6 |1.52 Saflex Q | 6	Acoustic Laminate IGU	32	34	44	44	283
EMN: TR16-236	3 | 0.76 Saflex Q | 3 [18 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	35	34	44	44	283
EMN: TR18-003	6 [12 AS] 6| 0.64 Saflex Q | 12	Acoustic Laminate IGU	37	36	44	44	313
EMN: TR16-203	6 [18 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	37	36	44	44	301
EMN: TR16-261	3 | 1.52 Saflex Q | 3 [12 AS] 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	41	35	44	44	293
EMN: TR16-262	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	44	34	44	44	300
EMN: TR16-257	3 | 0.76 Saflex R | 3 [53 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	67	29	44	44	263
EMN: TR16-259	3 | 0.76 Saflex R | 3 [114 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	128	36	44	44	290
EMN: TR18-001	8 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	35	36	45	45	331
EMN: TR16-202	10 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	37	35	45	45	320
EMN: TR16-209	6 [18 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	41	35	45	45	300
EMN: TR16-226	5 [51 AS] 3 | 0.76 Saflex R | 3	Laminate IG	63	35	45	45	295
EMN: TR16-229	6 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	115	36	45	45	287
EMN: TR18-002	10 [12 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	33	36	46	46	338

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Acoustic glazing data sorted by single unit rating (Rw or STC) *(continued)*							
Test ID	**Configuration (mm)**	**Glazing Type**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR18-022	5 | 0.64 Saflex Q | 5 [12 AS] 5 | 0.64 Saflex Q | 5	Double Lam Acoustic IG	33	38	46	46	347
EMN: TR16-207	10 [20 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	333
EMN: TR16-208	10 [20 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	332
EMN: TR16-121	6 [25 AS] 6 [12 AS] 6	Triple IG	42	37	46	46	359
EMN: TR16-211	10 [20 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	43	38	46	46	341
EMN: TR16-256	6 | 0.76 Saflex R | 6 [25 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	45	34	46	46	337
EMN: TR16-237	3 | 0.76 Saflex Q | 3 [12 AS] 8 | 0.76 Saflex Q | 8	Double Lam Acoustic IG	36	38	47	47	338
EMN: TR16-225	5 [25 AS] 6 | 0.76 Saflex R | 6	Laminate IG	43	36	47	47	363
EMN: TR16-227	5 [51 AS] 6 | 0.76 Saflex R | 6	Laminate IG	69	42	47	47	373
EMN: TR16-228	5 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	114	38	48	48	358
EMN: TR16-240	6 | 0.76 Saflex Q | 6 [20 AS] 4 | 0.76 Saflex Q | 4	Double Lam Acoustic IG	42	36	49	50	406
EMN: TR16-230	5 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	120	41	49	49	387
EMN: TR16-231	10 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	125	43	50	50	417
EMN: TR16-260	6 | 0.76 Saflex R | 6 [102] 6 | 1.52 Saflex R |12	Double Lam IG	134	42	50	50	423
EMN: TR16-258	6 | 1.52 Saflex R | 6 [102 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	122	45	53	53	465

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The following tables contain the same acoustic data presented previously in this brochure. However, this data is sorted to allow users to quickly select a glazing configuration based on overall thickness. Consult the acoustic glazing data table at the beginning of this guide for C, Ctr, one-third octave band frequency data, and deficiency limits.

Acoustic glazing data sorted by overall unit thickness							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-101	3	Monolithic	3	25	30	29	4
EMN: TR16-102	4	Monolithic	4	27	30	30	38
EMN: TR16-103	5	Monolithic	5	28	31	30	54
EMN: TR16-104	6	Monolithic	6	28	31	31	74
EMN: TR16-141	3 | 0.38 Saflex R | 3	Laminate	6	30	32	32	97
EMN: TR16-142	3 | 0.76 Saflex R | 3	Laminate	7	30	33	33	101
EMN: TR16-122	3 | 0.76 Saflex Q | 3	Acoustic Laminate	7	32	36	36	144
EMN: TR16-143	3 | 1.52 Saflex R | 3	Laminate	8	30	34	34	116
EMN: TR16-123	3 | 1.52 Saflex Q | 3	Acoustic Laminate	8	32	37	36	155
EMN: TR16-105	8	Monolithic	8	30	34	34	124
EMN: TR16-144	3 | 2.29 Saflex R | 3	Laminate	8	32	35	35	142
EMN: TR18-010	4 | 0.38 Saflex R | 4	Laminate	8	30	34	34	131
EMN: TR16-268	4 | 0.64 Saflex Q | 4	Acoustic Laminate	9	31	37	37	159
EMN: TR16-146	3 | 0.76 Saflex R | 5	Laminate	9	31	34	34	129
EMN: TR16-147	4 | 0.76 Saflex R | 4	Laminate	9	32	35	35	148
EMN: TR16-269	4 | 0.76 Saflex Q | 4	Acoustic Laminate	9	33	37	37	167
EMN: TR16-148	4 | 1.52 Saflex R | 4	Laminate	10	32	35	35	153
EMN: TR16-125	4 | 1.52 Saflex Q | 4	Acoustic Laminate	10	33	37	37	178
EMN: TR18-021	3 | 0.64 Saflex Q| 6	Acoustic Laminate	10	33	37	37	173
EMN: TR16-149	3 | 0.76 Saflex R | 6	Laminate	10	32	35	35	146
EMN: TR16-126	3 | 0.76 Saflex Q | 6	Acoustic Laminate	10	33	37	37	173
EMN: TR16-106	10	Monolithic	10	32	35	35	153
EMN: TR16-150	3 | 1.52 Saflex R | 6	Laminate	11	32	35	35	152
EMN: TR16-175	3 | 0.76 Saflex R | 3 | 0.76 Saflex R | 3	Laminate Multi-ply	11	32	35	35	156
EMN: TR16-174	3 | 0.76 Saflex Q | 3 | 0.76 Saflex Q | 3	Acoustic Laminate Multi-ply	11	33	39	39	192
EMN: TR18-011	4 | 0.64 Saflex Q| 6	Acoustic Laminate	11	34	37	37	187
EMN: TR16-151	5 | 0.76 Saflex R | 5	Laminate	11	33	36	36	170

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Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-128	5 | 0.76 Saflex Q | 5	Acoustic Laminate	11	34	38	38	184
EMN: TR16-152	5 | 1.52 Saflex R | 5	Laminate	12	33	36	36	173
EMN: TR18-016	3 | 0.64 Saflex Q| 8	Acoustic Laminate	12	35	38	38	205
EMN: TR16-153	3 | 0.76 Saflex R | 8	Laminate	12	33	36	36	167
EMN: TR16-154	5 | 0.76 Saflex R | 6	Laminate	12	33	37	37	180
EMN: TR16-109	3 [6 AS] 3	Insulating Glass (IG)	12	26	30	30	92
EMN: TR16-107	12	Monolithic	12	33	37	37	194
EMN: TR16-176	3 | 1.52 Saflex R | 3 | 1.52 Saflex R | 3	Laminate Multi-ply	12	32	36	36	157
EMN: TR16-129	5 | 2.29 Saflex Q | 5	Acoustic Laminate	12	34	38	38	185
EMN: TR16-155	6 | 0.38 Saflex R | 6	Laminate	12	33	36	36	186
EMN: TR18-012	4 | 0.64 Saflex Q| 8	Acoustic Laminate	13	35	38	38	216
EMN: TR16-156	6 | 0.76 Saflex R | 6	Laminate	13	33	37	37	188
EMN: TR16-131	6 | 0.76 Saflex Q |6	Acoustic Laminate	13	35	39	39	219
EMN: TR16-157	3 | 2.29 Saflex R | 8	Laminate	13	33	36	36	172
EMN: TR16-158	6 | 1.52 Saflex R | 6	Laminate	14	34	37	37	193
EMN: TR16-132	6 | 1.52 Saflex Q | 6	Acoustic Laminate	14	35	39	39	215
EMN: TR16-159	5 | 0.76 Saflex R | 8	Laminate	14	33	37	37	181
EMN: TR16-133	5 | 0.76 Saflex Q | 8	Acoustic Laminate	14	35	39	39	218
EMN: TR18-032	6 | 1.95 Saflex VSO2 | 6	Laminate - Storm	14	33	36	36	181
EMN: TR18-015	6 | 2.29 Saflex R | 6	Laminate	14	33	37	37	190
EMN: TR16-160	5 | 1.52 Saflex R | 8	Laminate	15	33	37	37	183
EMN: TR18-018	6 | 2.54 Saflex HP(DM)| 6	Laminate - Storm	15	33	37	37	187
EMN: TR18-019	6 | 0.64 Saflex Q| 8	Acoustic Laminate	15	36	39	39	235
EMN: TR16-161	6 | 0.76 Saflex R | 8	Laminate	15	33	37	37	190
EMN: TR16-162	6 | 1.52 Saflex R | 8	Laminate	16	33	38	38	189
EMN: TR18-020	3 | 0.64 Saflex Q| 12	Acoustic Laminate	16	35	39	39	243
EMN: TR16-212	3 [6 AS] 3 | 0.76 Saflex R | 3	Laminate IG	16	29	34	34	170
EMN: TR16-163	3 | 0.76 Saflex R | 12	Laminate	16	32	38	38	182
EMN: TR16-134	3 | 0.76 Saflex Q | 12	Acoustic Laminate	16	34	40	40	221
EMN: TR16-164	3 | 1.52 Saflex R | 12	Laminate	17	33	38	38	201
EMN: TR18-013	4 | 0.64 Saflex Q| 12	Acoustic Laminate	17	36	40	40	250

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Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-165	8 | 0.76 Saflex R | 8	Laminate	17	34	39	39	233
EMN: TR16-135	8 | 0.76 Saflex Q |8	Acoustic Laminate	17	36	41	41	264
EMN: TR16-166	3 | 2.29 Saflex R | 12	Laminate	17	33	39	39	200
EMN: TR16-167	8 | 1.52 Saflex R | 8	Laminate	18	34	39	39	226
EMN: TR16-136	8 | 1.52 Saflex Q | 8	Acoustic Laminate	18	37	41	41	270
EMN: TR16-168	5 | 0.76 Saflex R | 12	Laminate	18	33	39	39	209
EMN: TR16-110	3 [12 AS] 3	Insulating Glass (IG)	18	24	30	30	76
EMN: TR18-014	6 | 0.64 Saflex Q| 12	Acoustic Laminate	19	36	41	41	263
EMN: TR16-177	6 | 0.38 Saflex R | 6 | 0.38 Saflex R | 6	Laminate Multi-ply	19	33	38	38	200
EMN: TR16-137	6 | 0.76 Saflex Q | 12	Acoustic Laminate	19	36	41	41	245
EMN: TR16-108	19	Monolithic	19	34	39	39	217
EMN: TR16-248	3 | 0.76 Saflex R | 3 [6 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	20	30	36	36	179
EMN: TR16-178	6 | 0.76 Saflex R | 6 | 0.76 Saflex R | 6	Laminate Multi-ply	20	34	39	39	224
EMN: TR16-111	4 [12 AS] 4	Insulating Glass (IG)	20	26	32	32	105
EMN: TR16-169	10 | 0.76 Saflex R |10	Laminate	21	35	40	40	259
EMN: TR16-170	8 | 0.76 Saflex R | 12	Laminate	21	35	41	41	239
EMN: TR16-138	10 | 0.76 Saflex Q |10	Acoustic Laminate	21	37	42	42	273
EMN: TR16-249	3 | 1.52 Saflex R | 3 [6 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	21	30	37	37	195
EMN: TR16-171	8 | 1.52 Saflex R | 12	Laminate	22	35	41	41	235
EMN: TR16-213	3 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	22	30	36	36	173
EMN: TR16-112	5 [12 AS] 5	Insulating Glass (IG)	22	28	33	33	114
EMN: TR16-214	3 [12 AS] 3 | 1.52 Saflex R | 3	Laminate IG	23	31	37	37	206
EMN: TR16-181	3 [12 AS] 3 | 1.52 Saflex Q | 3	Acoustic Laminate IGU	23	30	38	38	210
EMN: TR16-182	3 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	24	31	38	38	200
EMN: TR16-215	5 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	24	32	39	39	209
EMN: TR16-113	6 [12 AS] 6	Insulating Glass (IG)	24	29	34	34	122
EMN: TR18-025	6 [12 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	25	32	39	39	238
EMN: TR18-028	6 [8 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	25	33	39	39	246
EMN: TR16-172	12 | 0.76 Saflex R | 12	Laminate	25	36	42	42	265
EMN: TR16-140	12 | 0.76 Saflex Q |12	Acoustic Laminate	25	38	44	44	323

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Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-216	6 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	25	32	39	39	208
EMN: TR16-179	8 | 0.38 Saflex R | 8 | 0.38 Saflex R | 8	Laminate Multi-ply	25	35	41	41	238
EMN: TR16-183	6 [12 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	25	33	41	41	239
EMN: TR18-023	3 | 0.64 Saflex Q | 3 [12 AS] 3 | 0.64 Saflex Q | 3	Double Lam Acoustic IG	25	34	42	42	292
EMN: TR16-250	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	26	33	40	40	226
EMN: TR16-180	8 | 0.76 Saflex R | 8 | 0.76 Saflex R | 8	Laminate Multi-ply	26	35	41	41	237
EMN: TR16-173	12 |1.52 Saflex R | 12	Laminate	26	37	42	42	299
EMN: TR16-233	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	26	34	43	43	290
EMN: TR16-217	6 [12 AS] 4 | 0.38 Saflex R | 4	Laminate IG	26	33	40	40	219
EMN: TR16-185	6 [12 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	27	34	41	41	249
EMN: TR16-251	3 | 1.52 Saflex R | 3 [12 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	27	34	41	41	245
EMN: TR18-004	6 [12 AS] 3 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	28	33	41	41	258
EMN: TR16-114	6 [16 AS] 6	Insulating Glass (IG)	28	29	34	34	130
EMN: TR18-026	6 [16 AS] 3 | 0.64 Saflex Q | 3	Acoustic Laminate IGU	29	33	41	41	254
EMN: TR18-006	6 [12 AS] 4 | 0.64 Saflex Q | 6	Acoustic Laminate IGU	29	34	41	41	259
EMN: TR16-219	6 [12 AS] 5 | 0.76 Saflex R | 5	Laminate IG	29	34	40	40	225
EMN: TR16-189	4 [16 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	29	30	41	41	246
EMN: TR16-218	10 [12 AS] 3 | 0.76 Saflex R | 3	Laminate IG	29	34	42	42	252
EMN: TR16-190	6 [12 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	29	35	42	42	266
EMN: TR18-024	4 | 0.64 Saflex Q | 4 [12 AS] 4 | 0.64 Saflex Q | 4	Double Lam Acoustic IG	29	35	43	43	309
EMN: TR16-115	6 [18 AS] 6	Insulating Glass (IG)	30	28	34	34	139
EMN: TR16-191	10 [12 AS] 4 | 0.51 Saflex Q | 4	Acoustic Laminate IGU	31	37	44	44	315
EMN: TR18-027	6 [16 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	31	33	41	41	264
EMN: TR18-007	6 [12 AS] 4 | 0.64 Saflex Q | 8	Acoustic Laminate IGU	31	34	42	42	278
EMN: TR16-220	6 [12 AS] 6 | 0.76 Saflex R | 6	Laminate IG	31	35	41	41	245
EMN: TR16-192	6 [12 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	31	34	43	43	281
EMN: TR16-193	6 [12 AS] 6 |1.52 Saflex Q | 6	Acoustic Laminate IGU	32	34	44	44	283

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Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-221	6 [18 AS] 3 | 0.76 Saflex R | 3	Laminate IG	32	32	40	40	227
EMN: TR16-194	6 [18 AS] 3 | 0.76 Saflex Q | 3	Acoustic Laminate IGU	32	32	41	41	243
EMN: TR18-030	6 [12 AS] 6 | 1.95 Saflex VSO2 | 6	Laminate IG - Storm	32	34	40	40	255
EMN: TR18-031	6 [12 AS] 6 | 2.29 Saflex | 6	Laminate IG	32	35	41	41	266
EMN: TR18-002	10 [12 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	33	36	46	46	338
EMN: TR18-029	6 [12 AS] 6 | 2.54 Saflex HP(DM) | 6	Laminate IG - Storm	33	35	41	41	280
EMN: TR18-022	5 | 0.64 Saflex Q | 5 [12 AS] 5 | 0.64 Saflex Q | 5	Double Lam Acoustic IG	33	38	46	46	347
EMN: TR18-005	6 [12 AS] 3 | 0.64 Saflex Q | 12	Acoustic Laminate IGU	34	36	43	43	310
EMN: TR16-236	3 | 0.76 Saflex Q | 3 [18 AS] 3 | 0.76 Saflex Q | 3	Double Lam Acoustic IG	35	34	44	44	283
EMN: TR16-252	6 | 2.29 Saflex R | 6 [6 AS] 6 | 2.29 Saflex R | 6	Double Lam IG	35	36	41	41	264
EMN: TR16-198	6 [20 AS] 4 | 0.64 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	270
EMN: TR18-008	6 [12 AS] 6 | 0.64 Saflex Q | 10	Acoustic Laminate IGU	35	35	43	43	310
EMN: TR18-009	6 [12 AS] 4 | 0.64 Saflex Q |12	Acoustic Laminate IGU	35	36	43	43	311
EMN: TR18-001	8 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	35	36	45	45	331
EMN: TR16-272	6 [12 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	35	33	41	41	235
EMN: TR16-199	6 [20 AS] 4 | 0.76 Saflex Q | 4	Acoustic Laminate IGU	35	29	41	41	256
EMN: TR16-116	5 [25 AS] 5	Insulating Glass (IG)	35	28	35	35	161
EMN: TR16-237	3 | 0.76 Saflex Q | 3 [12 AS] 8 | 0.76 Saflex Q | 8	Double Lam Acoustic IG	36	38	47	47	338
EMN: TR16-222	3 [25 AS] 3 | 1.52 Saflex R | 3	Laminate IG	36	33	40	40	241
EMN: TR16-253	3 | 0.76 Saflex R | 3 [12 AS] 5 | 0.76 Saflex R | 12	Double Lam IG	37	35	43	43	276
EMN: TR18-003	6 [12 AS] 6| 0.64 Saflex Q | 12	Acoustic Laminate IGU	37	36	44	44	313
EMN: TR16-202	10 [16 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	37	35	45	45	320
EMN: TR16-223	5 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	37	33	42	42	262
EMN: TR16-203	6 [18 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	37	36	44	44	301
EMN: TR16-117	6 [25 AS] 6	Insulating Glass (IG)	37	29	35	35	145
EMN: TR16-224	6 [25 AS] 3 | 0.76 Saflex R | 3	Laminate IG	38	33	42	42	235

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Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-254	3 | 0.76 Saflex R | 3 [25 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	39	33	42	42	247
EMN: TR16-255	6 | 1.52 Saflex R | 6 [12 AS] 6 | 1.52 Saflex R | 6	Double Lam IG	39	36	42	42	279
EMN: TR16-207	10 [20 AS] 5 | 0.64 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	333
EMN: TR16-209	6 [18 AS] 8 | 0.76 Saflex Q | 8	Acoustic Laminate IGU	41	35	45	45	300
EMN: TR16-208	10 [20 AS] 5 | 0.76 Saflex Q | 5	Acoustic Laminate IGU	41	37	46	46	332
EMN: TR16-261	3 | 1.52 Saflex Q | 3 [12 AS] 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	41	35	44	44	293
EMN: TR16-240	6 | 0.76 Saflex Q | 6 [20 AS] 4 | 0.76 Saflex Q | 4	Double Lam Acoustic IG	42	36	49	50	406
EMN: TR16-120	6 [12 AS] 6 [12 AS] 6	Triple IG	42	32	40	40	219
EMN: TR16-121	6 [25 AS] 6 [12 AS] 6	Triple IG	42	37	46	46	359
EMN: TR16-263	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 6	Triple IG with Laminate	43	33	41	41	237
EMN: TR16-264	6 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	43	33	41	41	238
EMN: TR16-211	10 [20 AS] 6 | 0.76 Saflex Q | 6	Acoustic Laminate IGU	43	38	46	46	341
EMN: TR16-225	5 [25 AS] 6 | 0.76 Saflex R | 6	Laminate IG	43	36	47	47	363
EMN: TR16-265	3 | 0.76 Saflex R | 3 [12 AS] 6 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	34	42	42	251
EMN: TR16-266	3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex R | 3	Triple IG with Laminate	44	33	42	42	250
EMN: TR16-262	3 | 0.76 Saflex Q | 3 [12 AS] 3 | 0.76 Saflex R | 3 [12 AS] 3 | 0.76 Saflex Q | 3	Triple IG with Acoustic Laminate	44	34	44	44	300
EMN: TR16-256	6 | 0.76 Saflex R | 6 [25 AS] 3 | 1.52 Saflex R | 3	Double Lam IG	45	34	46	46	337
EMN: TR16-118	3 [51 AS] 5	Insulating Glass (IG)	59	27	38	38	217
EMN: TR16-119	3 [51 AS] 6	Insulating Glass (IG)	60	29	39	39	248
EMN: TR16-226	5 [51 AS] 3 | 0.76 Saflex R | 3	Laminate IG	63	35	45	45	295

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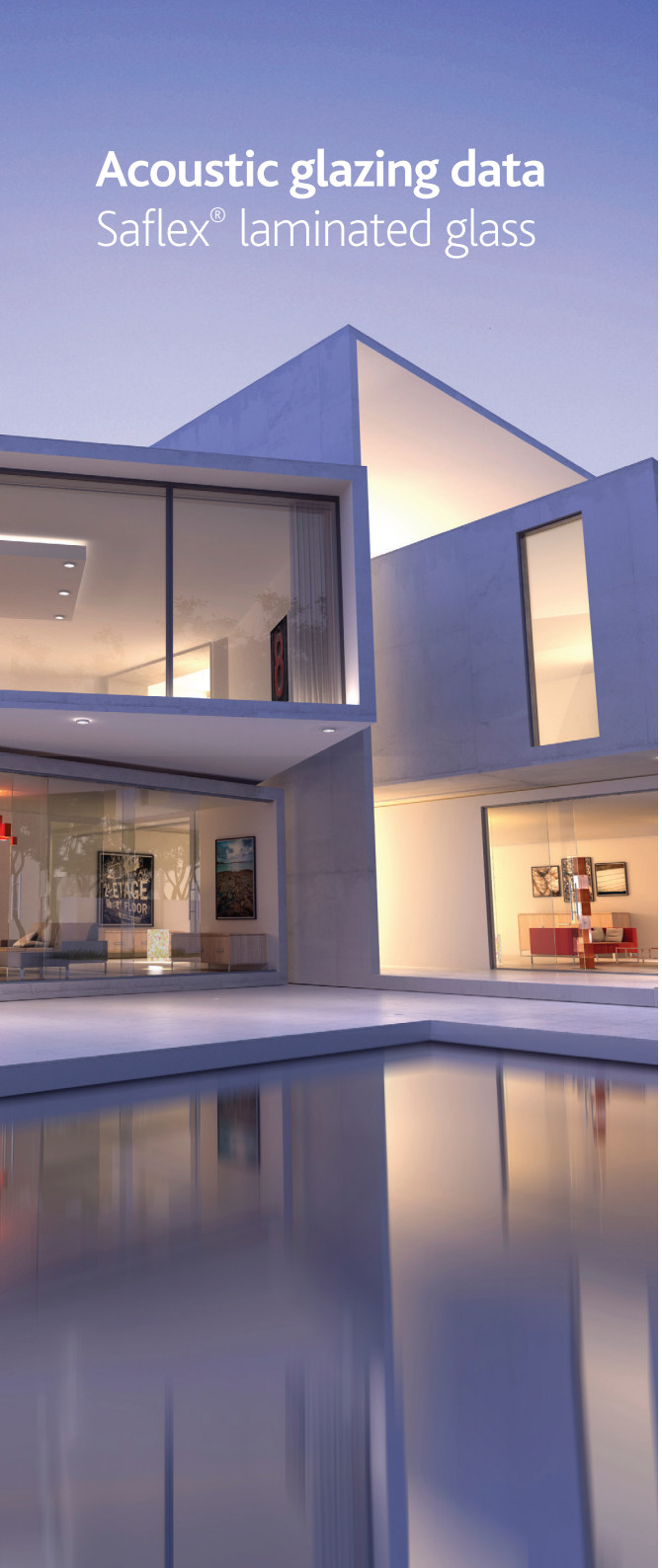
Acoustic glazing data sorted by overall unit thickness *(continued)*							
Test ID	**Configuration (mm)**	**Configuration Summary - Abbreviated (Metric)**	**Unit Thickness (mm)**	**OITC**	**Rw**	**STC**	**Decibel Reduction (DR_b)**
EMN: TR16-257	3 | 0.76 Saflex R | 3 [53 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	67	29	44	44	263
EMN: TR16-227	5 [51 AS] 6 | 0.76 Saflex R | 6	Laminate IG	69	42	47	47	373
EMN: TR16-228	5 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	114	38	48	48	358
EMN: TR16-229	6 [102 AS] 3 | 0.76 Saflex R | 3	Laminate IG	115	36	45	45	287
EMN: TR16-230	5 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	120	41	49	49	387
EMN: TR16-258	6 | 1.52 Saflex R | 6 [102 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	122	45	53	53	465
EMN: TR16-231	10 [102 AS] 6 | 0.76 Saflex R | 6	Laminate IG	125	43	50	50	417
EMN: TR16-259	3 | 0.76 Saflex R | 3 [114 AS] 3 | 0.76 Saflex R | 3	Double Lam IG	128	36	44	44	290
EMN: TR16-260	6 | 0.76 Saflex R | 6 [102] 6 | 1.52 Saflex R |12	Double Lam IG	134	42	50	50	423

[i] ASTM International (ASTM), 100 Bar Harbor Road, West Conshohocken, PA; www.astm.org

[ii] International Organization for Standardization (ISO), Chemin de Blandonnet 8 CP 401 1214 Vernier, Geneva, Switzerland; www.iso.org

[iii] National Council of Acoustical Consultants, 9100 Purdue Road, Suite 200, Indianapolis, IN 46268, (317) 328 0642; www.ncac.com.

Acoustic glazing data
Saflex® laminated glass



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AI-ARCH-7807 09/18