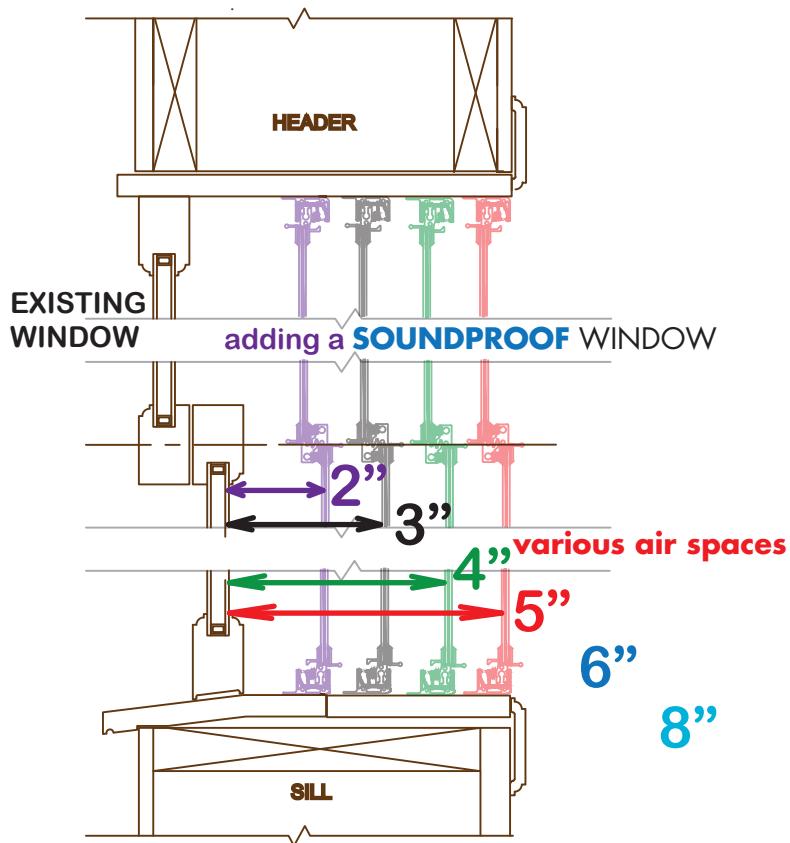




STC Test Results at various air spaces



A Soundproof Window tested behind these windows:

(Using our standard 1/4" laminated glass in our 1.2" deep frame)

- Vinyl Window dual pane 1/8" over 1/8" glass
- Vinyl Window dual pane 1/8" over 3/16" glass
- Vinyl Window dual pane 1/8" over 1/4" glass
- 1/8" single pane glass
- 1/4" single pane glass

A Soundproof Window tested behind:

(Using 5/8" laminated glass)

- Vinyl Window dual pane 1/8" over 1/8" glass
- 1/4" single pane glass
- 1/4" over 1/4" IGU (dual pane)



We have created this brochure for use in your various acoustic applications. If you have window configurations not shown here, please contact us - we likely have tested that configuration and will provide you with the additional information. We want to be your resource for glass products and steel swing doors. We also have a recording studio line of windows and doors achieving results starting at STC 60.

We want you to use us as a reference source. Please call us anytime to discuss these tests, your applications, or any topics we may be able to assist you with. We want a free exchange of information and a long term relationship with acoustical professionals, architects and recording studio professionals.

CAUTION about using these test results:

Over the years we have run hundreds of lab tests. We have modified our seals and frames substantially to improve our windows. We have improved our test results between 5 and 10 STC points as a result of these enhancements. Expect to get these improved results in the field, but do not expect to get these results by using other window brands that simply use the same types of glass we use in our windows.

The Soundproof Windows tested:

We used our standardized windows for all of the test. We did not alter our windows in any way to improve our results. The windows we tested are the same style, design and makeup you will get purchasing our windows today.

The "existing" or primary windows used in our tests:

The non-Soundproof Window units tested were standard, unmodified window or glass test units representing typical windows found in the field. We tested each of them by themselves so we have a valid, comparable reference point for testing the combinations utilizing our Soundproof Windows.

All tests were performed by Western Electro-Acoustic Laboratory (WEAL), a fully accredited NVLAP testing laboratory located in Santa Clarita, California.

Glossary:

1/4" lami glass	Industry standard laminated glass with .030 PVB interlayer. Total thickness .250".
5/8" lami glass	Laminated glass specially made for Soundproof Windows, Inc. using 3/8" and 1/4" glass sandwiched with .030" PVB interlayer. Total thickness .650".
AS	Air Space - measured glass to glass air gaps between two glass surfaces.
Dual Pane	A sealed glass configuration using two pieces of glass separated by a sealed air space. Also called double pane or IGU (Insulated Glass Unit).
Frames	Our "standard" window frame is 1.2" deep (front to back) and can accommodate sliding/operable windows using 1/4" laminated glass <u>or</u> a single removable or fixed 5/8" laminated glass.
HF	Heavy Frame - A window/door using our 2.75" deep frame with heavy duty rollers and capacity to use 1/4" or 5/8" laminated glass.
IGU	Insulated Glass Unit - see Dual Pane definition.
Milgard	The vinyl test window made by Milgard. It is a standard <i>Style Line Series</i> Milgard window with a 3/4" overall thickness IGU. We used three different windows with three different glass configurations. The tested STC ratings were less than the manufacturer's published STC ratings.
SPW	Refers to a window manufactured by Soundproof Windows, Inc.
SPW250	A SPW using 1/4" laminated glass
SPW650	A SPW using 5/8" laminated glass
STC Curve	We have inserted the STC curve in our graphs at various STC levels as a reference point for reading the graphs.
X	A one glass panel window - removable.

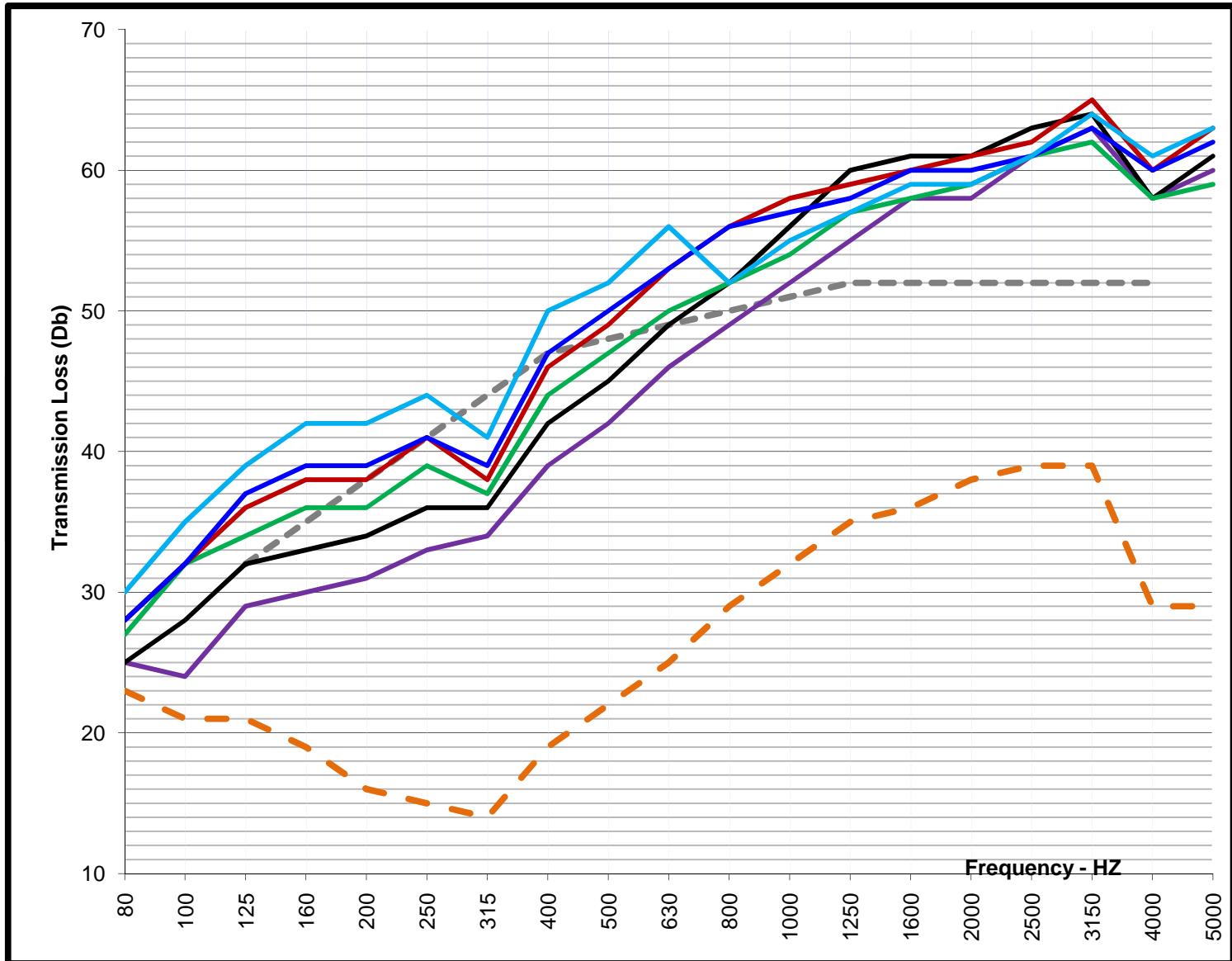
STC Lab Test Results

A Soundproof Window installed behind a:

Dual Pane 1/8" over 1/8"

Tested at various air spacing between the test window and a Soundproof Window

Results: **26** STC Test Window - STC Test Result Range: **45** to **53**



1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number	
STC CURVE	48		32	35	38	41	44	47	48	49	50	51	52	52	52	52	52	52	52	52			
Vinyl 1/8+1/8 dual	26	21	23	21	21	19	16	15	14	19	22	25	29	32	35	36	38	39	39	29	29	TL08-261	
Add SPW w/2" AS	45	36	25	24	29	30	31	33	34	39	42	46	49	52	55	58	58	61	63	58	60	TL08-300	
Add SPW w/3" AS	48	38	25	28	32	33	34	36	36	42	45	49	52	56	60	61	61	63	64	58	61	TL08-265	
Add SPW w/4" AS	49	41	27	32	34	36	36	39	37	44	47	50	52	54	57	58	59	61	62	62	58	59	TL08-301
Add SPW w/5" AS	50	42	28	32	36	38	38	41	38	46	49	53	56	58	59	60	61	62	65	60	63	TL08-266	
Add SPW w/6" AS	51	43	28	32	37	39	39	41	39	47	50	53	56	57	58	60	60	61	63	60	62	TL08-267	
Add SPW w/8" AS	53	45	30	35	39	42	42	44	41	50	52	56	52	55	57	59	59	61	64	61	63	TL08-268	

AS=Air Space SPW=Soundproof Window Test window is a Milgard Vinyl 3/4" IGU Style Line Series window

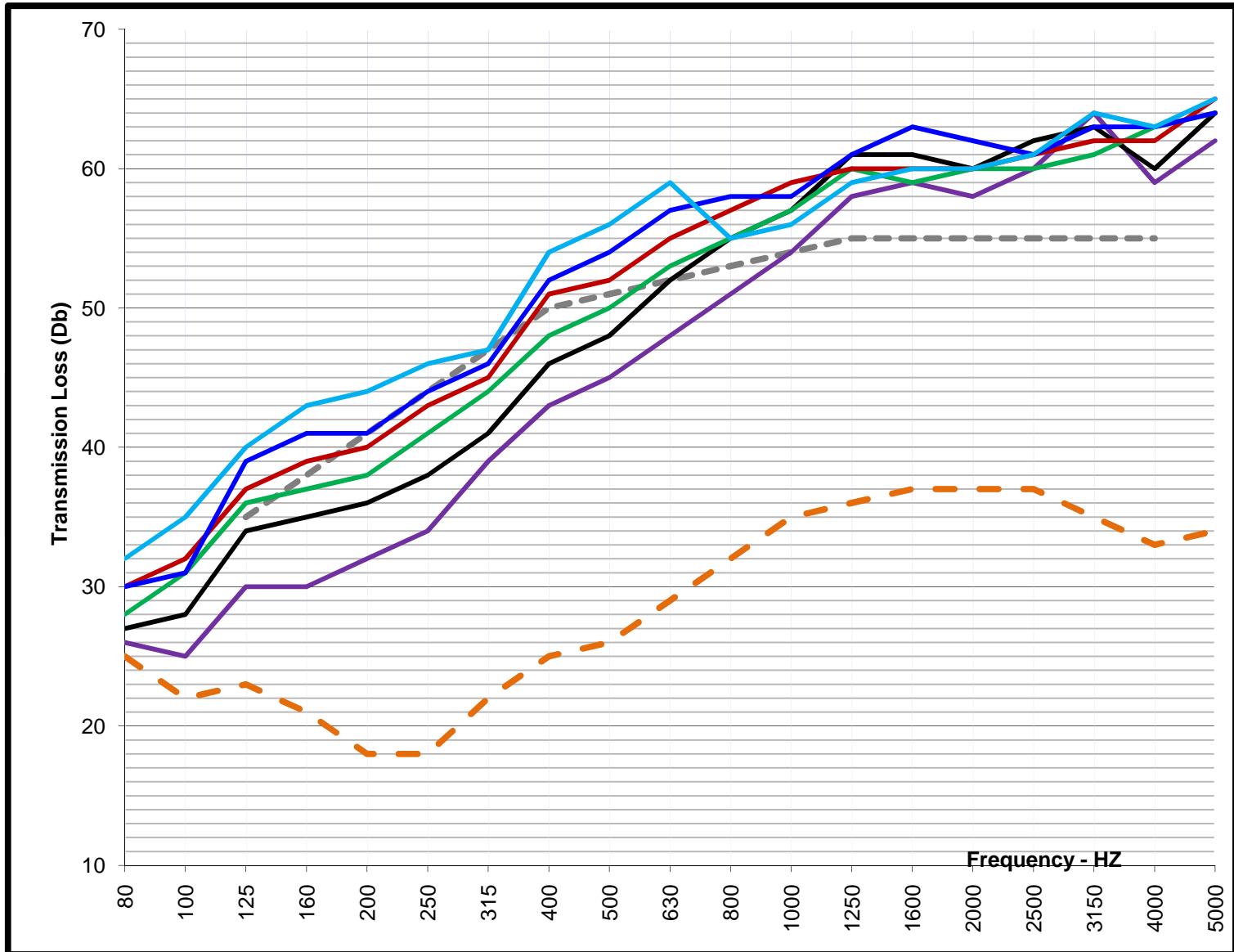
STC Lab Test Results

A Soundproof Window installed behind a:

Dual Pane 1/8" over 3/16"

Tested at various air spacing between the test window and a Soundproof Window

Results: **31** STC Test Window - STC Test Result Range: **47** to **57**



SOUNDPROOF WINDOWS® Inc.

1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
STC CURVE	48				32	35	38	41	44	47	51	49	50	51	52	52	52	52	52	52	52	
Vinyl 1/8+3/16" dual	31	26	25	22	23	21	18	18	22	25	26	29	32	35	36	37	37	37	35	33	34	TL08-269
Add SPW w/2" AS	47	37	26	25	30	30	32	34	39	43	45	48	51	54	58	59	58	60	64	59	62	TL08-270
Add SPW w/3" AS	51	40	27	28	34	35	36	38	41	46	48	52	55	57	61	61	60	62	63	60	64	TL08-272
Add SPW w/4" AS	53	42	28	31	36	37	38	41	44	48	50	53	55	57	60	59	60	60	61	63	64	TL08-271
Add SPW w/5" AS	55	44	30	32	37	39	40	43	45	51	52	55	57	59	60	60	60	61	62	62	65	TL08-273
Add SPW w/6" AS	56	44	30	31	39	41	41	44	46	52	54	57	58	58	61	63	62	61	63	63	64	TL08-274
Add SPW w/8" AS	57	46	32	35	40	43	44	46	47	54	56	59	55	56	59	60	60	61	64	63	65	TL08-275

AS=Air Space SPW=Soundproof Window Test window is a Milgard Vinyl 3/4" IGU Style Line Series window

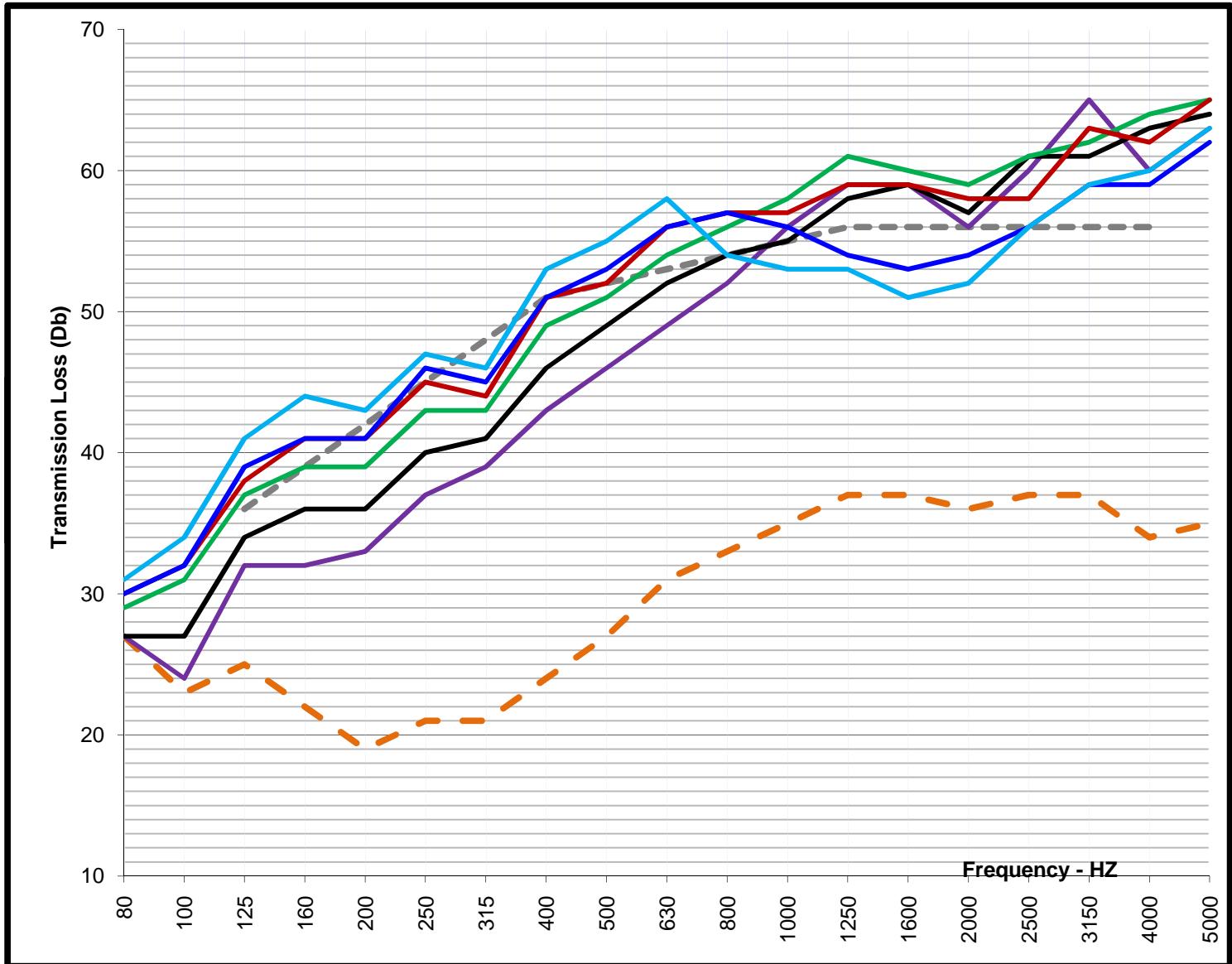
STC Lab Test Results

A Soundproof Window installed behind a:

Dual Pane 1/8" over 1/4"

Tested at various air spacing between the test window and a Soundproof Window

Results: **32** STC Test Window - STC Test Result Range: **49** to **55**



SOUNDPROOF WINDOWS[®], Inc.

1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
STC CURVE	52		36	39	42	45	48	51	52	53	54	55	56	56	56	56	56	56	56	56		
Vinyl 1/8+1/4 dual	32	26	27	23	25	22	19	21	21	24	27	31	33	35	37	37	36	37	37	34	35	TL08-254
Add SPW w/2" AS	49	38	27	24	32	32	33	37	39	43	46	49	52	56	59	59	56	60	65	60	63	TL08-260
Add SPW w/3" AS	52	40	27	27	34	36	36	40	41	46	49	52	54	55	58	59	57	61	61	63	64	TL08-253
Add SPW w/4" AS	54	43	29	31	37	39	39	43	43	49	51	54	56	58	61	60	59	61	62	64	65	TL08-259
Add SPW w/5" AS	55	44	30	32	38	41	41	45	44	51	52	56	57	57	59	59	58	58	63	62	65	TL08-255
Add SPW w/6" AS	54	44	30	32	39	41	41	46	45	51	53	56	57	56	54	53	54	56	59	59	62	TL08-256
Add SPW w/8" AS	54	46	31	34	41	44	43	47	46	53	55	58	54	53	53	51	52	56	59	60	63	TL08-257

AS=Air Space SPW=Soundproof Window Test window is a Milgard Vinyl 3/4" IGU Style Line Series window

STC Lab Test Results

A Soundproof Window installed behind:

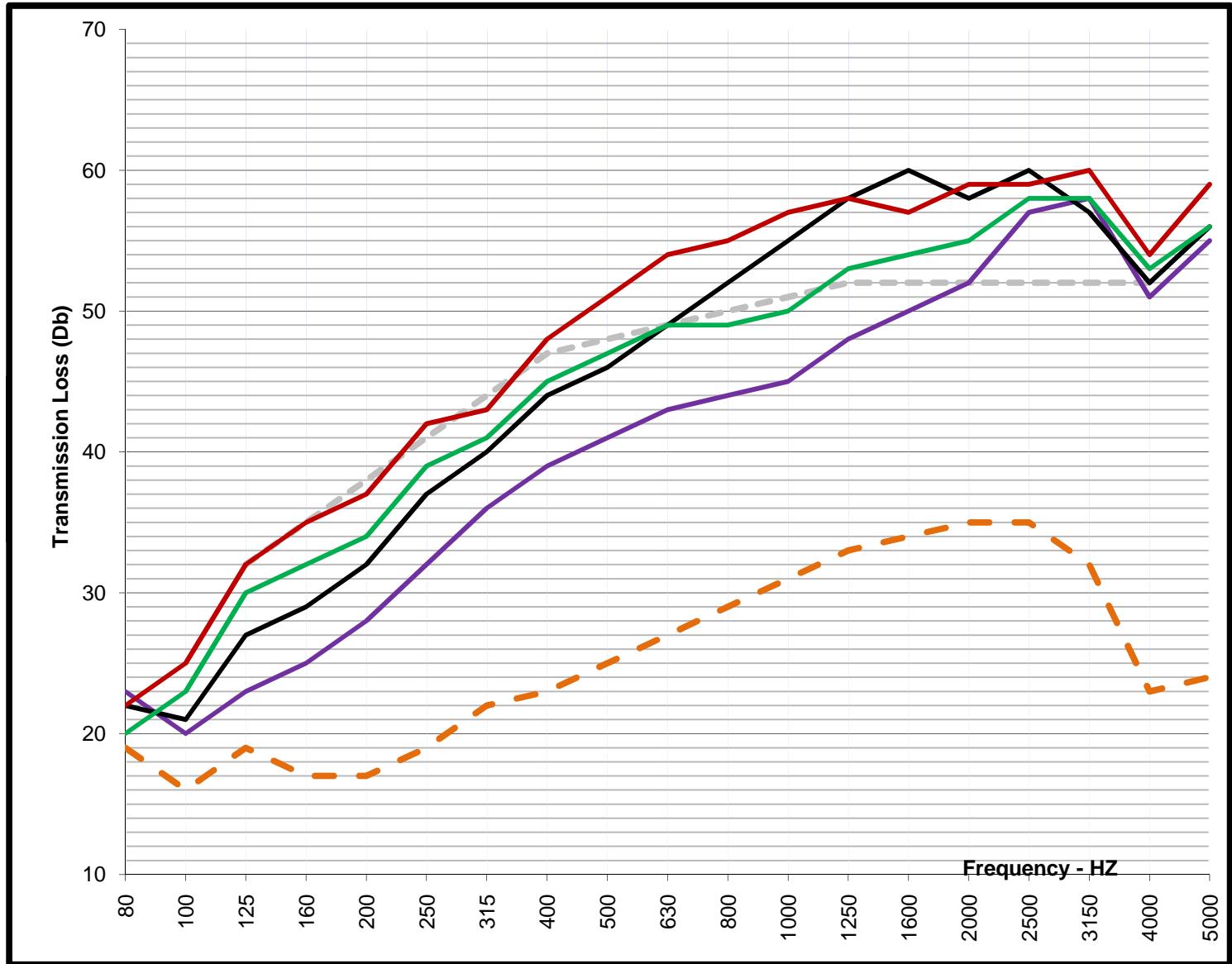
1/8" single pane glass

Tested at various air spacing between the test glass and a Soundproof Window

Results: **27**

STC Test Glass - STC Test Result Range:

43 to **52**



SOUNDPROOF WINDOWS® Inc.

1/3 Octave Band (Hz)

STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number		
STC CURVE		48		32	35	38	41	44	47	48	49	50	51	52	52	52	52	52	52				
Single 1/8" glass		27	24	19	16	19	17	17	19	22	23	25	27	29	31	33	34	35	35	32	24	TL08-287	
Add SPW w/2" AS		43	32	23	20	23	25	28	32	36	39	41	43	44	45	48	50	52	57	58	51	55	TL08-306
Add SPW w/3" AS		48	34	22	21	27	29	32	37	40	44	46	49	52	55	58	60	58	60	57	52	56	TL08-288
Add SPW w/4" AS		49	36	20	23	30	32	34	39	41	45	47	49	49	50	53	54	55	58	58	53	56	TL08-307
Add SPW w/5" AS		52	38	22	25	32	35	37	42	43	48	51	54	55	57	58	57	59	59	60	54	59	TL08-289

AS=Air Space SPW=Soundproof Window Test glass is a 1/8" sheet of plate glass (single pane)

STC Lab Test Results

A Soundproof Window installed behind:

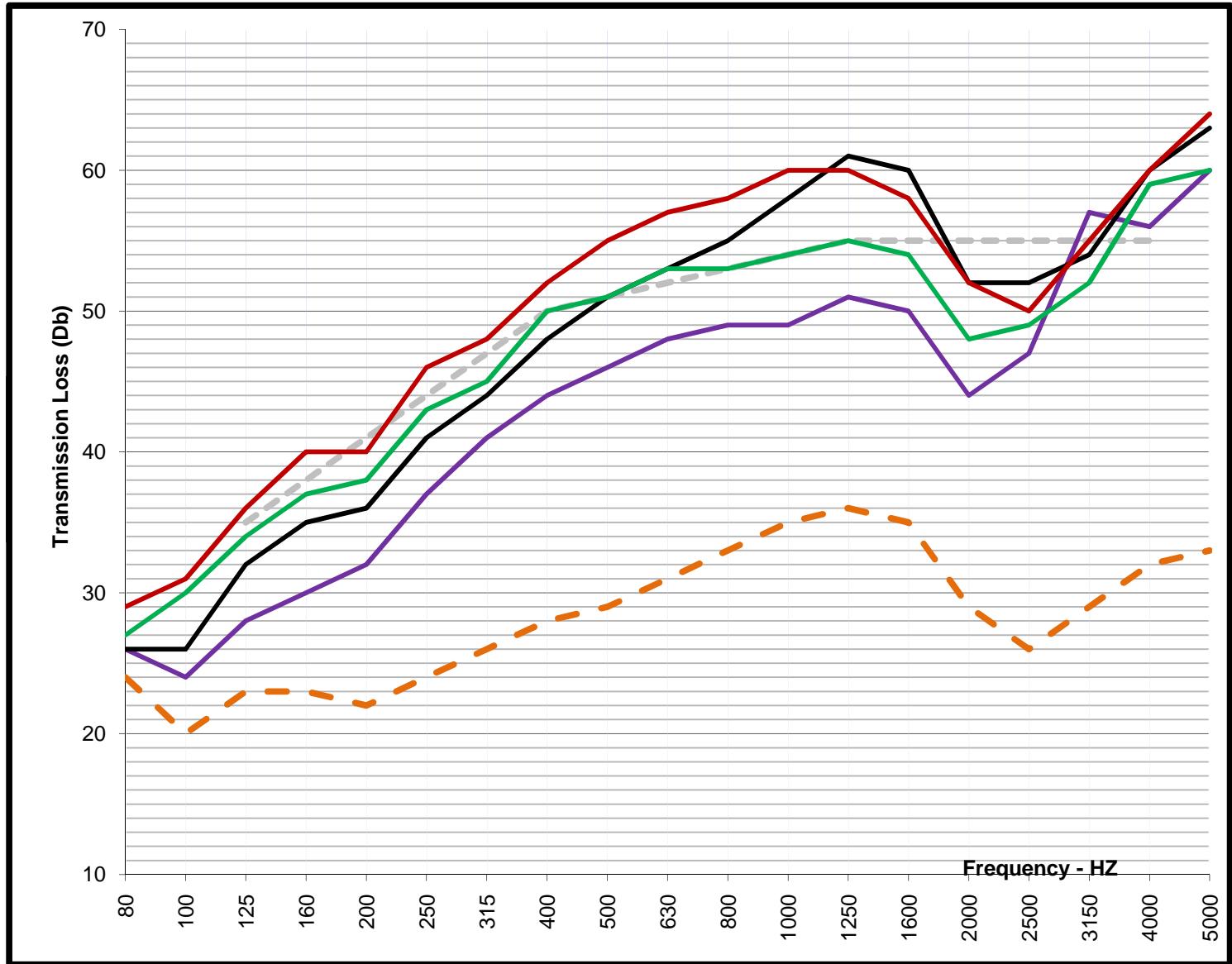
1/4" single pane glass

Tested at various air spacing between the test glass and a Soundproof Window

Results: **30**

STC Test Glass - STC Test Result Range:

46 to **54**



SOUNDPROOF WINDOWS® Inc.

1/3 Octave Band (Hz)

STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number	
STC CURVE		51		35	38	41	44	47	50	51	52	53	54	55	55	55	55	55	55	55		
Single 1/4" glass		30	27	24	20	23	23	22	24	26	28	29	31	33	35	36	35	29	26	29	32	33
Add SPW with 2" AS		46	36	26	24	28	30	32	37	41	44	46	48	49	49	51	50	44	47	57	56	60
Add SPW with 3" AS		51	39	26	26	32	35	36	41	44	48	51	53	55	58	61	60	52	52	54	60	63
Add SPW with 4" AS		51	41	27	30	34	37	38	43	45	50	51	53	53	54	55	54	48	49	52	59	60
Add SPW with 5" AS		54	43	29	31	36	40	40	46	48	52	55	57	58	60	60	58	52	50	55	60	64

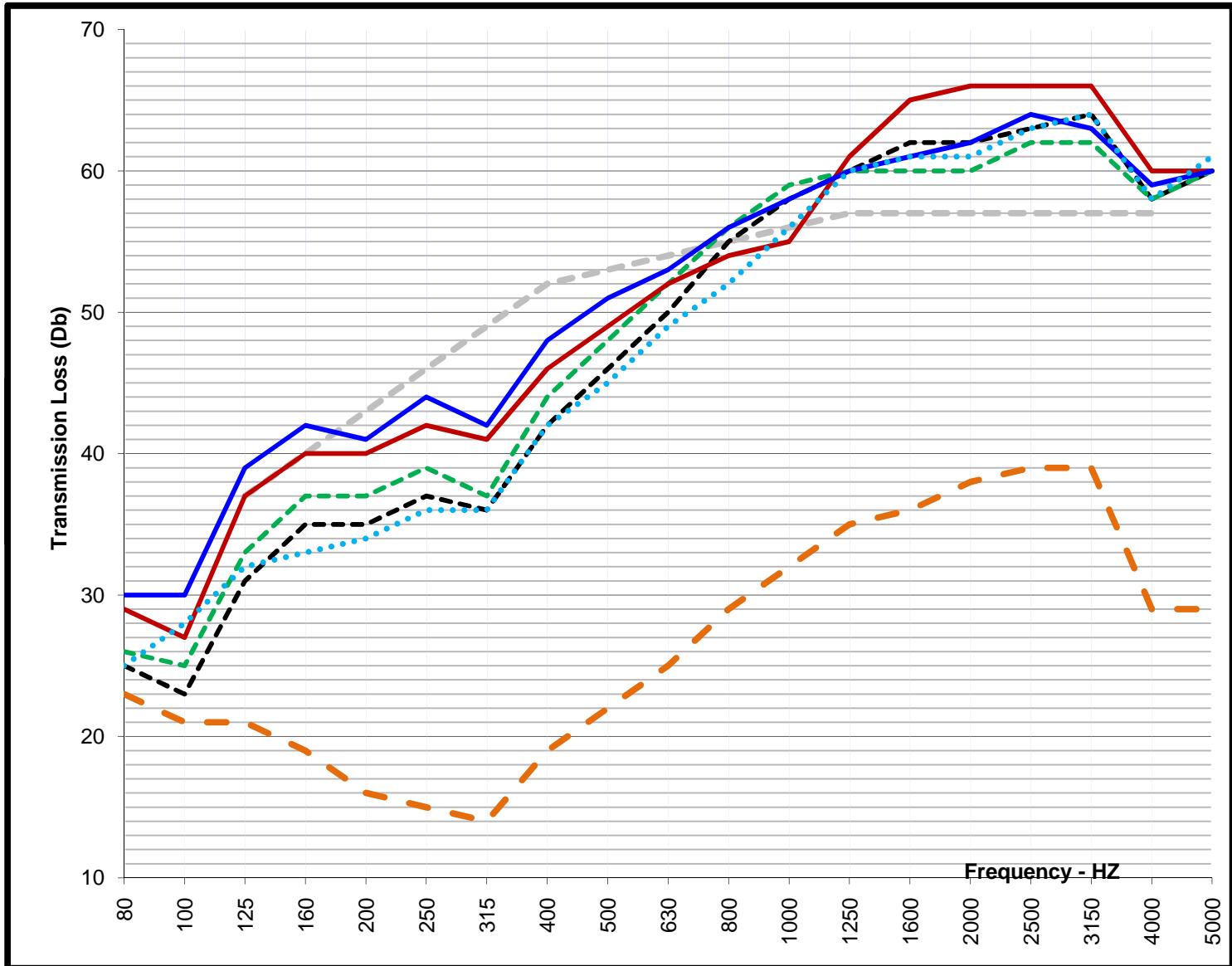
AS=Air Space SPW=Soundproof Window Test glass is a 1/4" sheet of plate glass (single pane)

STC Lab Test Results

Various SPW Frames & Glass Thicknesses installed behind a:
Dual Pane 1/8" over 1/8"

Tested at various air spacing between the test window and a Soundproof Window

Results: **26** STC Test Window - STC Test Result Range: **48** to **54**



SOUNDPROOF WINDOWS®, Inc.

1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number	
STC CURVE 1	53			37	40	43	46	49	52	53	54	55	56	57	57	57	57	57	57	57			
Vinyl 1/8+1/8 dual	26	21	23	21	21	19	16	15	14	19	22	25	29	32	35	36	38	39	39	29	29	TL08-261	
HF SPW250 w/3" AS	48	37	25	23	31	35	35	37	36	42	46	50	55	58	60	62	62	63	64	58	60	TL09-291	
HF SPW250 w/4" AS	49	39	26	25	33	37	37	39	37	44	48	52	56	59	60	60	60	62	62	62	58	60	TL09-292
HF SPW650 w/3" AS	53	41	29	27	37	40	40	42	41	46	49	52	54	55	61	65	66	66	66	60	60	TL09-290	
HF SPW650 w/4" AS	54	43	30	30	39	42	41	44	42	48	51	53	56	58	60	61	62	64	63	59	60	TL09-293	
Stnd SPW w/3" AS	48	38	25	28	32	33	34	36	36	42	45	49	52	56	60	61	61	63	64	58	61	TL08-265	

HF=Heavy Frame 2.75" deep. SPW250=1/4" lami SPW650=5/8" lami Stnd SPW=Standard 1.2" deep frame

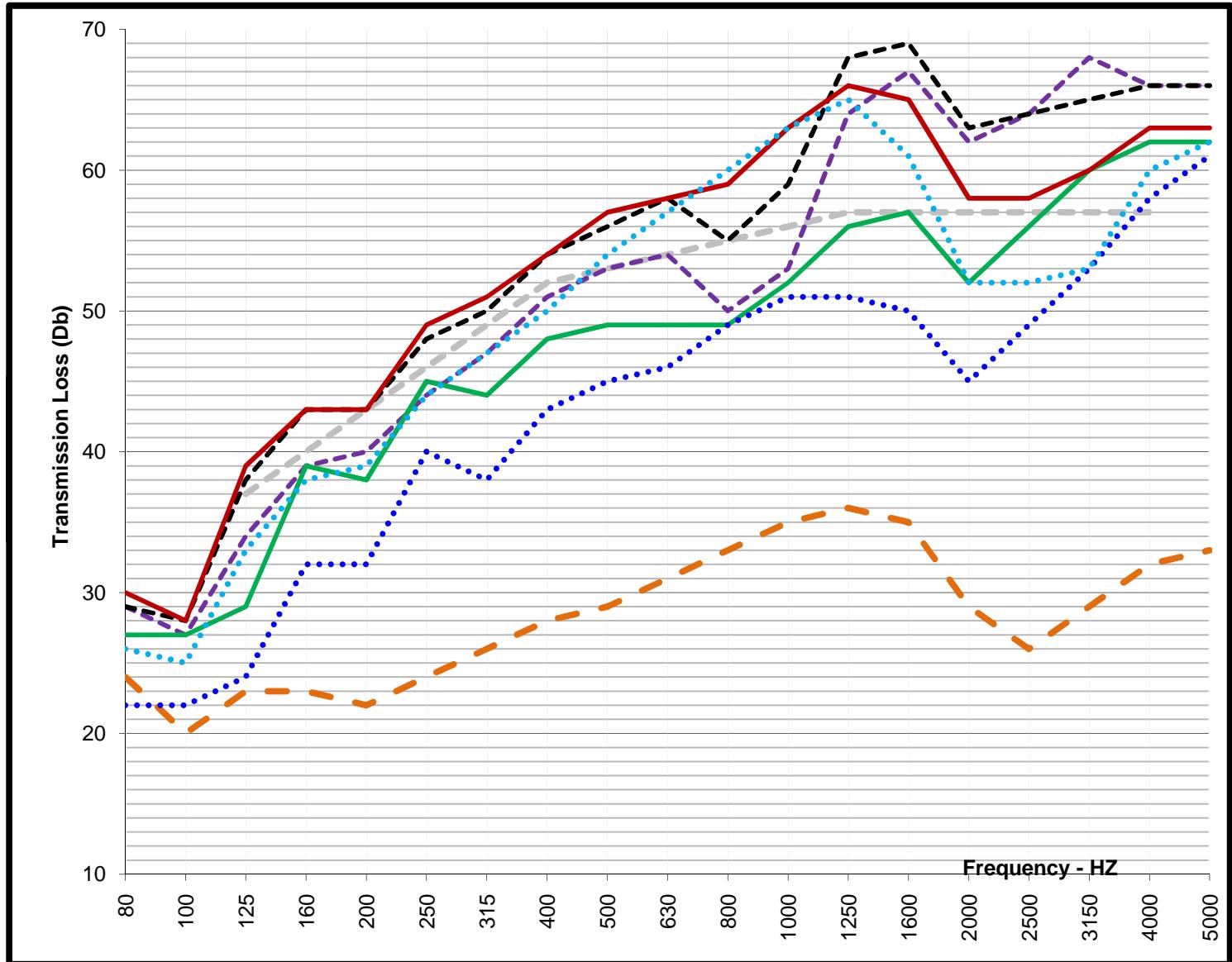
Test Window: Vinyl Milgard Style Line Series with 3/4" IGU using glass configuration shown above.

STC Lab Test Results

Various SPW Frames & Glass Thicknesses installed behind:
1/4" glass

Tested at various air spacing between the test glass and a Soundproof Window

Results: **30** STC Test Glass - STC Test Result Range: **46** to **58**



SOUNDPROOF WINDOWS®, Inc.

1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
STC CURVE 1	53		37	40	43	46	49	52	53	54	55	56	57	57	57	57	57	57	57	57	57	
1/4" plate glass	30	27	24	20	23	23	22	24	26	28	29	31	33	35	36	35	29	26	29	32	33	TL08-292
X SPW650 w/2" AS	54	41	29	27	34	39	40	44	47	51	53	54	50	53	64	67	62	64	68	66	66	TL09-276
X SPW650 w/3" AS	58	43	29	28	38	43	43	48	50	54	56	58	55	59	68	69	63	64	65	66	66	TL09-278
HF SPW650 w/2" AS	51	39	27	27	29	39	38	45	44	48	49	49	49	52	56	57	52	56	60	62	62	TL09-286
HF SPW650 w/3" AS	58	43	30	28	39	43	43	49	51	54	57	58	59	63	66	65	58	58	60	63	63	TL09-285
HF SPW250 w/2" AS	46	34	22	22	24	32	32	40	38	43	45	46	49	51	51	50	45	49	53	58	61	TL09-287
HF SPW250 w/3" AS	53	40	26	25	33	38	39	44	47	50	54	57	60	63	65	61	52	52	53	60	62	TL09-284

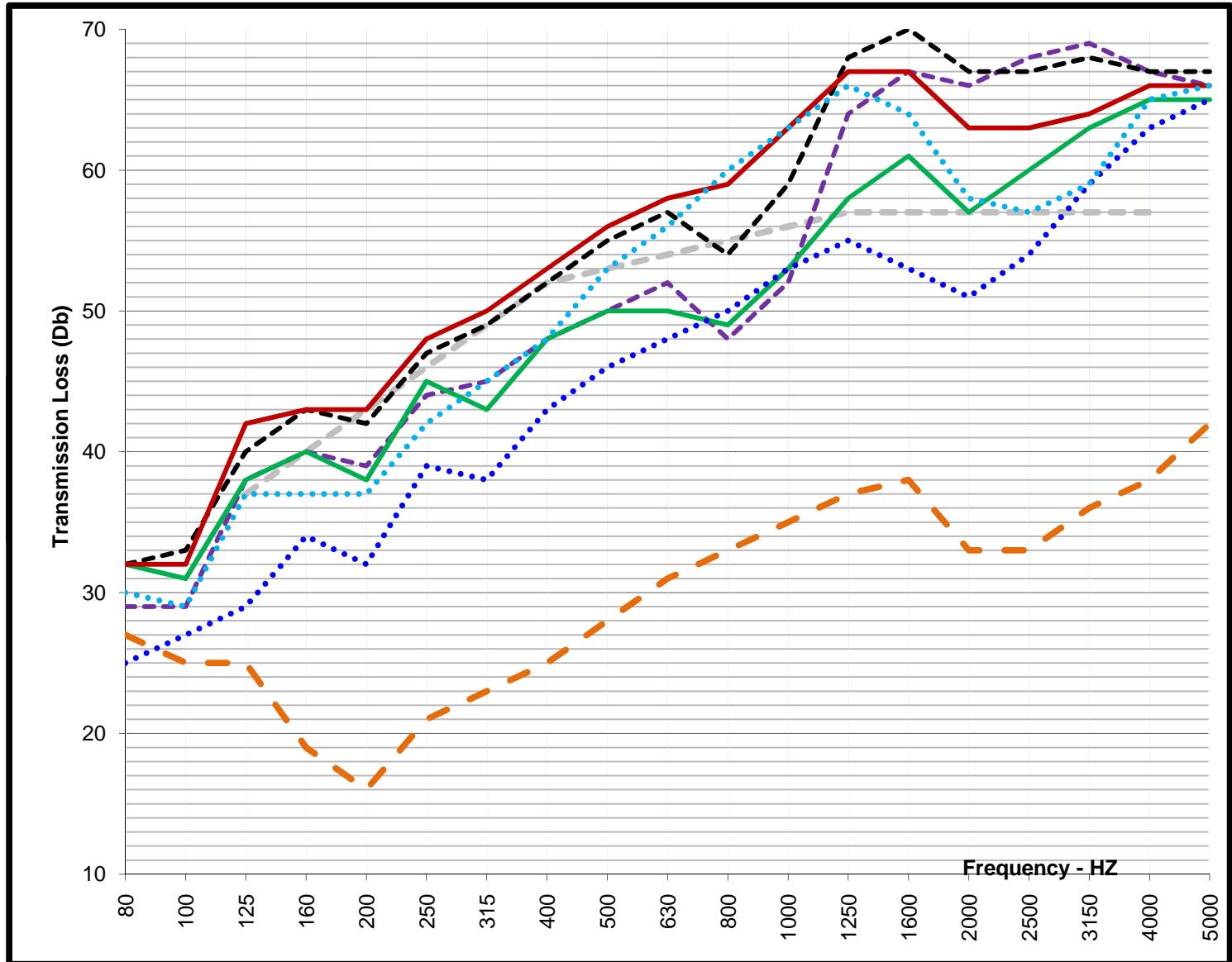
X=removable one lite HF=Heavy Frame 2.75" deep. SPW250=1/4" lami SPW650=5/8" lami

STC Lab Test Results

Various SPW Frames & Glass Thicknesses installed behind:
Dual Pane 1/4" over 1/4" glass

Tested at various air spacing between the test glass and a Soundproof Window

Results: **31** STC Test Glass - STC Test Result Range: **48** to **59**



SOUNDPROOF WINDOWS®, Inc.

1/3 Octave Band (Hz)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
STC CURVE 1	53			37	40	43	46	49	52	53	54	55	56	57	57	57	57	57	57	57	57	
1/4" over 1/4" IGU	31	26	27	25	25	19	16	21	23	25	28	31	33	35	37	38	33	33	36	38	42	TL09-280
X SPW650 w/2" AS	53	43	29	29	38	40	39	44	45	48	50	52	48	52	64	67	66	68	69	67	66	TL09-277
X SPW650 w/3" AS	57	46	32	33	40	43	42	47	49	52	55	57	54	59	68	70	67	67	68	67	67	TL09-279
HF SPW650 w/2" AS	53	44	32	31	38	40	38	45	43	48	50	50	49	53	58	61	57	60	63	65	65	TL09-289
HF SPW650 w/3" AS	59	46	32	32	42	43	43	48	50	53	56	58	59	63	67	67	63	63	64	66	66	TL09-282
HF SPW250 w/2" AS	48	38	25	27	29	34	32	39	38	43	46	48	50	53	55	53	51	54	59	63	65	TL09-288
HF SPW250 w/3" AS	54	42	30	29	37	37	37	42	45	48	53	56	60	63	66	64	58	57	59	65	66	TL09-283

X=removable one lite HF=Heavy Frame 2.75" deep. SPW250=1/4" lami SPW650=5/8" lami

STC Lab Test Results

Table Format

1/3 Octave Band (HZ)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
Dual Pane 1/8" over 1/8"																						
Vinyl 1/8+1/8 dual	26	21	23	21	21	19	16	15	14	19	22	25	29	32	35	36	38	39	39	29	29	TL08-261
Add SPW w/2" AS	45	36	25	24	29	30	31	33	34	39	42	46	49	52	55	58	58	61	63	58	60	TL08-300
Add SPW w/3" AS	48	38	25	28	32	33	34	36	36	42	45	49	52	56	60	61	61	63	64	58	61	TL08-265
Add SPW w/4" AS	49	41	27	32	34	36	36	39	37	44	47	50	52	54	57	58	59	61	62	58	59	TL08-301
Add SPW w/5" AS	50	42	28	32	36	38	38	41	38	46	49	53	56	58	59	60	61	62	65	60	63	TL08-266
Add SPW w/6" AS	51	43	28	32	37	39	39	41	39	47	50	53	56	57	58	60	60	61	63	60	62	TL08-267
Add SPW w/8" AS	53	45	30	35	39	42	42	44	41	50	52	56	52	55	57	59	59	61	64	61	63	TL08-268

Dual Pane 1/8" over 3/16"

Vinyl 1/8+3/16 dual	31	26	25	22	23	21	18	18	22	25	26	29	32	35	36	37	37	37	35	33	34	TL08-269
Add SPW w/2" AS	47	37	26	25	30	30	32	34	39	43	45	48	51	54	58	59	58	60	64	59	62	TL08-270
Add SPW w/3" AS	51	40	27	28	34	35	36	38	41	46	48	52	55	57	61	61	60	62	63	60	64	TL08-272
Add SPW w/4" AS	53	42	28	31	36	37	38	41	44	48	50	53	55	57	60	59	60	60	61	63	64	TL08-271
Add SPW w/5" AS	55	44	30	32	37	39	40	43	45	51	52	55	57	59	60	60	60	61	62	62	65	TL08-273
Add SPW w/6" AS	56	44	30	31	39	41	41	44	46	52	54	57	58	58	61	63	62	61	63	63	64	TL08-274
Add SPW w/8" AS	57	46	32	35	40	43	44	46	47	54	56	59	55	56	59	60	60	61	64	63	65	TL08-275

Dual Pane 1/8" over 1/4"

Vinyl 1/8+1/4 dual	32	26	27	23	25	22	19	21	21	24	27	31	33	35	37	37	36	37	37	34	35	TL08-254
Add SPW w/2" AS	49	38	27	24	32	32	33	37	39	43	46	49	52	56	59	59	56	60	65	60	63	TL08-260
Add SPW w/3" AS	52	40	27	27	34	36	36	40	41	46	49	52	54	55	58	59	57	61	61	63	64	TL08-253
Add SPW w/4" AS	54	43	29	31	37	39	39	43	43	49	51	54	56	58	61	60	59	61	62	64	65	TL08-259
Add SPW w/5" AS	55	44	30	32	38	41	41	45	44	51	52	56	57	59	59	59	58	58	63	62	65	TL08-255
Add SPW w/6" AS	54	44	30	32	39	41	41	46	45	51	53	56	57	56	54	53	54	56	59	59	62	TL08-256
Add SPW w/8" AS	54	46	31	34	41	44	43	47	46	53	55	58	54	53	53	51	52	56	59	60	63	TL08-257

1/8" single pane glass

Single 1/8" glass	27	24	19	16	19	17	17	19	22	23	25	27	29	31	33	34	35	35	32	23	24	TL08-287
Add SPW w/2" AS	43	32	23	20	23	25	28	32	36	39	41	43	44	45	48	50	52	57	58	51	55	TL08-306
Add SPW w/3" AS	48	34	22	21	27	29	32	37	40	44	46	49	52	55	58	60	58	60	57	52	56	TL08-288
Add SPW w/4" AS	49	36	20	23	30	32	34	39	41	45	47	49	49	50	53	54	55	58	58	53	56	TL08-307
Add SPW w/5" AS	52	38	22	25	32	35	37	42	43	48	51	54	55	57	58	57	59	59	60	54	59	TL08-289

1/4" single pane glass

Single 1/4" glass	30	27	24	20	23	23	22	24	26	28	29	31	33	35	36	35	29	26	29	32	33	TL08-292
Add SPW w/2" AS	46	36	26	24	28	30	32	37	41	44	46	48	49	49	51	50	44	47	57	56	60	TL08-305
Add SPW w/3" AS	51	39	26	26	32	35	36	41	44	48	51	53	55	58	61	60	52	52	54	60	63	TL08-291
Add SPW w/4" AS	51	41	27	30	34	37	38	43	45	50	51	53	53	54	55	54	48	49	52	59	60	TL08-304
Add SPW w/5" AS	54	43	29	31	36	40	40	46	48	52	55	57	58	60	60	58	52	50	55	60	64	TL08-290



STC Lab Test Results

Table Format

1/3 Octave Band (HZ)	STC	OITC	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	Test Rpt Number
Dual Pane 1/8" over 1/8"																						
Vinyl 1/8+1/8 dual	26	21	23	21	21	19	16	15	14	19	22	25	29	32	35	36	38	39	39	29	29	TL08-261
HF SPW250 w/3" AS	48	37	25	23	31	35	35	37	36	42	46	50	55	58	60	62	62	63	64	58	60	TL09-291
HF SPW250 w/4" AS	49	39	26	25	33	37	37	39	37	44	48	52	56	59	60	60	60	62	62	58	60	TL09-292
HF SPW650 w/3" AS	53	41	29	27	37	40	40	42	41	46	49	52	54	55	61	65	66	66	66	60	60	TL09-290
HF SPW650 w/ 4" AS	54	43	30	30	39	42	41	44	42	48	51	53	56	58	60	61	62	64	63	59	60	TL09-293
Std SPW w/3" AS	48	38	25	28	32	33	34	36	36	42	45	49	52	56	60	61	61	63	64	58	61	TL08-265

1/4" glass

1/4" plate glass	30	27	24	20	23	23	22	24	26	28	29	31	33	35	36	35	29	26	29	32	33	TL08-292
X SPW650 w/2" AS	54	41	29	27	34	39	40	44	47	51	53	54	50	53	64	67	62	64	68	66	66	TL09-276
X SPW650 w/3" AS	58	43	29	28	38	43	43	48	50	54	56	58	55	59	68	69	63	64	65	66	66	TL09-278
HF SPW650 w/2" AS	51	39	27	27	29	39	38	45	44	48	49	49	49	52	56	57	52	56	60	62	62	TL09-286
HF SPW650 w/3" AS	58	43	30	28	39	43	43	49	51	54	57	58	59	63	66	65	58	58	60	63	63	TL09-285
HF SPW250 w/2" AS	46	34	22	22	24	32	32	40	38	43	45	46	49	51	51	50	45	49	53	58	61	TL09-287
HF SPW250 w/3" AS	53	40	26	25	33	38	39	44	47	50	54	57	60	63	65	61	52	52	53	60	62	TL09-284

Dual Pane 1/4" over 1/4" glass

1/4" over 1/4" IGU	31	26	27	25	25	19	16	21	23	25	28	31	33	35	37	38	33	33	36	38	42	TL09-280
X SPW650 w/2" AS	53	43	29	29	38	40	39	44	45	48	50	52	48	52	64	67	66	68	69	67	66	TL09-277
X SPW650 w/3" AS	57	46	32	33	40	43	42	47	49	52	55	57	54	59	68	70	67	67	68	67	67	TL09-279
HF SPW650 w/2" AS	53	44	32	31	38	40	38	45	43	48	50	50	49	53	58	61	57	60	63	65	65	TL09-289
HF SPW650 w/3" AS	59	46	32	32	42	43	43	48	50	53	56	58	59	63	67	67	63	63	64	66	66	TL09-282
HF SPW250 w/2" AS	48	38	25	27	29	34	32	39	38	43	46	48	50	53	55	53	51	54	59	63	65	TL09-288
HF SPW250 w/3" AS	54	42	30	29	37	37	37	42	45	48	53	56	60	63	66	64	58	57	59	65	66	TL09-283

All tests were performed by Western Electro-Acoustic Laboratory (WEAL), a fully accredited NVLAP testing laboratory located in Santa Clarita, California.