



Soundproof Windows STC Test Results

Sound Transmission Loss Data Details

Various windows and spacing combinations

| 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 Report Number |
|---|-----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|--------------------|
| Studio Operable Windows | | | | | | | | | | | | | | | | | | | | | | |
| 10.5" Overall depth - 7.0"AS(Air Space) | | | | | | | | | | | | | | | | | | | | | | |
| SPW65+AS+SPW65 | 58 | 49 | 34 | 37 | 43 | 46 | 48 | 53 | 54 | 56 | 58 | 58 | 58 | 56 | 56 | 58 | 62 | 61 | 58 | 58 | 57 | TL09-258 |
| SPW65+AS+SPW25 | 57 | 47 | 32 | 33 | 42 | 45 | 46 | 51 | 52 | 55 | 57 | 57 | 57 | 58 | 58 | 59 | 59 | 59 | 59 | 58 | 57 | TL09-260 |
| 13.25" Overall depth - 9.75"AS | | | | | | | | | | | | | | | | | | | | | | |
| SPW65+AS+SPW65 | 60 | 50 | 34 | 38 | 44 | 47 | 49 | 54 | 56 | 58 | 61 | 61 | 61 | 60 | 59 | 62 | 62 | 62 | 61 | 60 | 58 | TL09-262 |
| SPW65+AS+SPW25 | 59 | 49 | 34 | 36 | 43 | 47 | 48 | 53 | 55 | 57 | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 59 | 59 | 57 | TL09-261 |
| Studio Fixed Vertical Windows | | | | | | | | | | | | | | | | | | | | | | |
| 8.0" Overall depth - 6.25"AS | | | | | | | | | | | | | | | | | | | | | | |
| ST65+AS+ST25R | 62 | 49 | 34 | 36 | 43 | 46 | 47 | 52 | 54 | 58 | 60 | 61 | 60 | 63 | 66 | 67 | 67 | 67 | 68 | 66 | 66 | TL09-272 |
| 10.5" Overall depth - 8.5"AS | | | | | | | | | | | | | | | | | | | | | | |
| ST65+AS+ST65R | 60 | 49 | 33 | 37 | 44 | 47 | 49 | 54 | 55 | 58 | 60 | 61 | 56 | 60 | 57 | 65 | 63 | 63 | 62 | 60 | 58 | TL09-265 |
| ST65+AS+ST25R | 61 | 49 | 33 | 36 | 43 | 47 | 48 | 53 | 55 | 58 | 60 | 62 | 60 | 62 | 62 | 66 | 63 | 63 | 62 | 60 | 58 | TL09-264 |
| 1/4" Glass**+2.0"AS+ST65R | 54 | 41 | 29 | 27 | 34 | 39 | 40 | 44 | 47 | 51 | 53 | 54 | 50 | 53 | 64 | 67 | 62 | 64 | 68 | 66 | 66 | TL09-276 |
| 1/4" Glass**+3.0"AS+ST65R | 58 | 43 | 29 | 28 | 38 | 43 | 43 | 48 | 50 | 54 | 56 | 58 | 55 | 59 | 68 | 69 | 63 | 64 | 65 | 66 | 66 | TL09-278 |
| 1/4"IGU**+2.0"AS+ST65R | 53 | 43 | 29 | 29 | 38 | 40 | 39 | 44 | 45 | 48 | 50 | 52 | 48 | 52 | 64 | 67 | 66 | 68 | 69 | 67 | 66 | TL09-277 |
| 1/4"IGU**+3.0"AS+ST65R | 57 | 46 | 32 | 33 | 40 | 43 | 42 | 47 | 49 | 52 | 55 | 57 | 54 | 59 | 68 | 70 | 67 | 67 | 68 | 67 | 67 | TL09-279 |
| Studio Fixed - 1 Slanted & 1 Vertical | | | | | | | | | | | | | | | | | | | | | | |
| 8.0" Overall depth - Air Space(AS) is 4.0" top & 6.0" bottom - Frame 3" past vertical | | | | | | | | | | | | | | | | | | | | | | |
| ST65+AS+ST25R | 61 | 47 | 33 | 34 | 42 | 46 | 46 | 51 | 53 | 57 | 59 | 60 | 59 | 62 | 67 | 66 | 66 | 66 | 67 | 66 | 66 | TL09-275 |
| 10.25" Overall depth - Air Space(AS) is 4.5" top & 8.75" bottom - Frame 5" past vertical | | | | | | | | | | | | | | | | | | | | | | |
| ST65+AS+ST25R | 60 | 48 | 35 | 34 | 43 | 46 | 46 | 51 | 53 | 57 | 60 | 61 | 60 | 63 | 65 | 64 | 63 | 62 | 62 | 59 | 57 | TL09-267 |
| Sliding Glass Doors (SGD) | | | | | | | | | | | | | | | | | | | | | | |
| 13.25" Overall depth - 9.75"AS | | | | | | | | | | | | | | | | | | | | | | |
| SGD65+AS+SGD65 | 55 | 51 | 37 | 40 | 45 | 49 | 49 | 53 | 56 | 58 | 60 | 57 | 52 | 54 | 53 | 56 | 56 | 55 | 57 | 61 | 65 | TL09-297 |
| SGD65+AS+SGD25 | 56 | 49 | 35 | 38 | 44 | 46 | 45 | 51 | 53 | 57 | 59 | 59 | 53 | 56 | 57 | 57 | 56 | 56 | 58 | 62 | 66 | TL09-300 |
| 16.0" Overall depth - 12.5"AS | | | | | | | | | | | | | | | | | | | | | | |
| SGD65+AS+SGD65 | 57 | 51 | 36 | 41 | 46 | 50 | 50 | 54 | 57 | 59 | 59 | 56 | 54 | 53 | 55 | 57 | 59 | 59 | 60 | 63 | 65 | TL09-298 |
| SGD65+AS+SGD25 | 56 | 50 | 36 | 39 | 44 | 48 | 47 | 51 | 53 | 57 | 56 | 53 | 54 | 55 | 56 | 56 | 55 | 56 | 58 | 62 | 66 | TL09-299 |
| 16.0" Overall depth - First pair 13.25"Overall depth(9.75"AS) - Second 16.0"Overall including middle door (2.5"AS) - Three door configuration | | | | | | | | | | | | | | | | | | | | | | |
| SGD65+SGD25+SGD65 | 65 | 51 | 35 | 40 | 45 | 50 | 50 | 55 | 58 | 61 | 63 | 65 | 65 | 67 | 68 | 69 | 69 | 68 | 66 | 68 | 69 | TL09-301 |

* 1/4 annealed plate glass

** IGU(dual pane glass) 1/4" plate + 1/2"AS + 1/4" plate sealed with a total thickness of 1.0"

| | |
|-------|--|
| SPW65 | Operable sliding XX Window with marine glazed 0.650" special laminated glass |
| SPW25 | Operable sliding XX Window with marine glazed 0.250" laminated glass with 0.030 PVB iner layer |
| ST65 | Fixed window double marine glazed using 0.650 special laminated glass |
| ST65R | Fixed windows with removable panel. Marine glazed using 0.650" special lminated glass |
| ST65R | Fixed windows with removable panel with marine glazed 0.250" laminated glass with 0.030 PVB iner layer |
| SGD25 | Sliding glass door with marine glazed 0.250" laminated glass with 0.030 PVB iner layer |
| SGD65 | Sliding glass door with marine glazed 0.65" special laminated glass. |

All tests were done by Western Acoustical Labs (WEAL) - a fully accredited independent testing laboratory in California.