

## Transmission Loss Panels

### Sound Transmission Loss Panels

**VaughanAir's transmission loss panels provide varying degrees of noise reduction and sound transmission loss.**

VaughanAir's transmission loss panels incorporate DuraSteel, a unique non-combustible material consisting of two metal sheets, mechanically bonded to a fiber cement core that is fire, blast, moisture and impact resistant. DuraSteel, in conjunction with additional cladding material, provides exceptional acoustic mass and performance when stringent noise criteria need to be achieved.

A single DuraSteel sheet is 3/8" thick and provides a Sound Transmission Class (STC) of 31, equivalent to a typical interior wall consisting of a single layer of 1/2" drywall on each side of wooden studs with no insulation.

DuraSteel, TL25, TL40 and TL55 provide varying degrees of transmission loss. Each system offers high transmission loss and outstanding acoustical properties in a thin, yet robust design. The overall system saves valuable space while meeting critical acoustical requirements.



Rendering of a DuraDuct™ 2HR duct system

**VaughanAir's transmission loss panels are a simple, easy to install and maintenance-free solution perfect for your acoustic needs.**

### Transmission Loss Panel Comparison

System	Thickness		Weight		Transmission Loss (Hz)							STC
					63	125	250	500	1000	2000	4000	
DuraSteel	3/8"	9.5mm	4.3 lbs/ft <sup>2</sup>	21 kg/m <sup>2</sup>	22	24	25	31	34	29	32	31
TL25	1"	24.5mm	6.4 lbs/ft <sup>2</sup>	31.5 kg/m <sup>2</sup>	25	27	28	30	36	34	43	34
TL40	1-5/8"	39.5mm	8.6 lbs/ft <sup>2</sup>	42 kg/m <sup>2</sup>	26	29	30	33	41	38	47	38
TL55	2-1/4"	54.5mm	10.7 lbs/ft <sup>2</sup>	52.5 kg/m <sup>2</sup>	28	30	30	35	42	39	48	39

Please visit our website at [www.vaughanair.com](http://www.vaughanair.com) to find your local representative or contact **VaughanAir** for further information at [info@vaughanair.com](mailto:info@vaughanair.com).