CROSS-TALK ATTENUATORS

DESCRIPTION

The Q-Tech range of Cross-Talk attenuators has been designed to provide low air flow resistance whilst maintaining a high degree of acoustic attenuation.

The CT series should be considered wherever a relief air passage is required to penetrate a room's acoustic barrier.

Four styles are available in both standard and high performance configurations:-

- **CTS** - for simple wall penetration above ceiling
- **CTL** - wall to ceiling penetration
- **CTU** - ceiling to ceiling penetration
- **CTZ** - installation within the wall

Installation - General

Special care should be taken when installing CT Series Cross-Talk units to ensure maximum performance.

Consideration must be given to the sound rating of the wall or ceiling being penetrated.

It is essential that a tight airseal is achieved between the cross-talk unit and the wall/ceiling penetration.

When high performance units are used additional mass lagging of the unit casing may be required to prevent flanking transmission. This can usually be provided by building-in the cross-talk unit during the building construction phase.

Performance

The Q-Tech CT Series acoustic performance is quoted as airborne sound transmission loss as defined in AS1191:1985.

Transmission Loss data is non-ducted as per mounting arrangements on page H-20.

Performance data is based on Australian sourced and manufactured products.

HOW TO SELECT

Selection Procedure

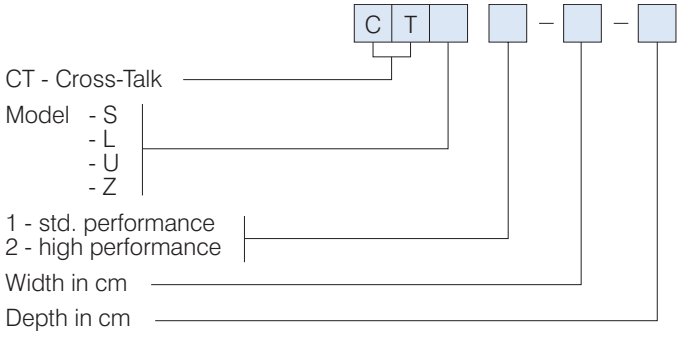
1. Select the Cross-Talk attenuator type that is required ie. CTS, CTU etc.
2. Select high or standard performance attenuation as required.
3. When the relief air quantity is known, select from the Air Performance Data table below, the width and depth combination for your needs.
4. Determine final product code for ordering.

AIR PERFORMANCE DATA

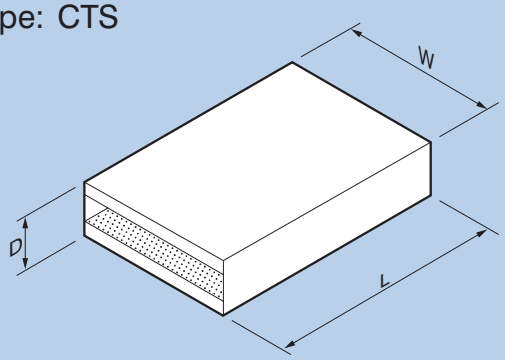
Depth, mm	Air Volume, L/sec W-width, mm						
	300	**450**	**600**	**750**	**900**	**1050**	**1200**
200	90	135	180	225	270	315	360
300	135	200	270	340	400	475	540
400	180	270	360	450	540	630	720

The air flows tabulated are based upon a maximum pressure loss of 15 Pa.

HOW TO ORDER



Type: CTS

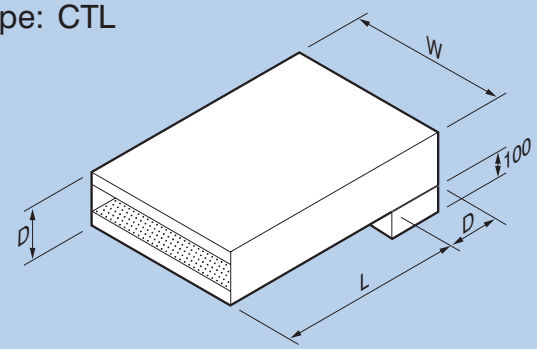


Model Number	Transmission Loss, dB Octave Band Centre Frequency (Hz) 125	250	500	1k	2k	4k	Length L, mm
CTS 1	14	18	21	29	30	25	900
CTS 2	20	26	35	40	40	40	1800

Width, W 300 to 1200 in increments of 150mm
Depth, D 200, 300 & 400mm

Transmission Loss data is non-ducted as per mounting arrangements on *next page.*

Type: CTL

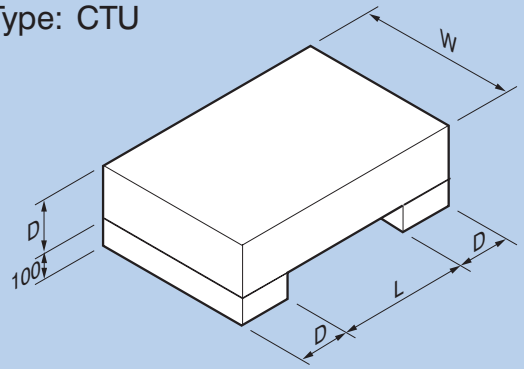


Model Number	Transmission Loss, dB Octave Band Centre Frequency (Hz) 125	250	500	1k	2k	4k	Length L, mm
CTL 1	15	19	23	31	35	30	900
CTL 2	21	27	36	40	40	40	1800

Width, W 300 to 1200 in increments of 150mm
Depth, D 200, 300 & 400mm

Transmission Loss data is non-ducted as per mounting arrangements on *next page.*

Type: CTU

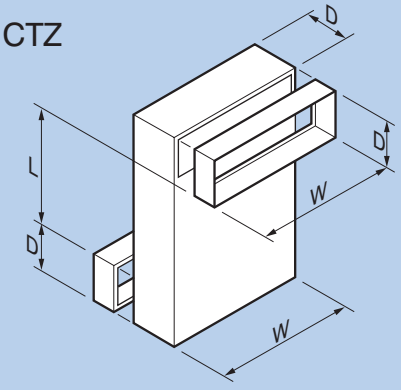


Model Number	Transmission Loss, dB Octave Band Centre Frequency (Hz) 125	250	500	1k	2k	4k	Length L, mm
CTU 1	15	20	24	35	38	35	900
CTU 2	21	28	36	40	40	40	1800

Width, W 300 to 1200 in increments of 150mm
Depth, D 200, 300 & 400mm

Transmission Loss data is non-ducted as per mounting arrangements on *next page.*

Type: CTZ



Model Number	Transmission Loss, dB Octave Band Centre Frequency (Hz) 125	250	500	1k	2k	4k	Length L, mm
CTZ 1	15	20	24	35	38	35	900
CTZ 2	21	28	36	40	40	40	1800

Width, W 300 to 1200 in increments of 150mm
Depth, D 200, 300 & 400mm

Transmission Loss data is non-ducted as per mounting arrangements on *next page.*

H

SUGGESTED SPECIFICATIONS

Room to room Cross-Talk attenuators shall be of the Q-Tech CT models and shall have the acoustic performance as scheduled. The Cross-Talk attenuators shall be of a proven design and must have an established history of use.
Each unit shall consist of a galvanised sheet metal casing and be provided with internal parallel splitters. The splitter infill shall be a sound absorbing material as specified by the manufacturer. The infill material shall be covered with a gauze scrim to prevent erosion of the fibres then encased in galvanised perforated sheet metal.
The infill material when tested in accordance with AS1530, Part 3, 1989 shall have the following indices:-

Ignitability 0

Spread of flame 0

Heat evolved 0

Smoke developed 0

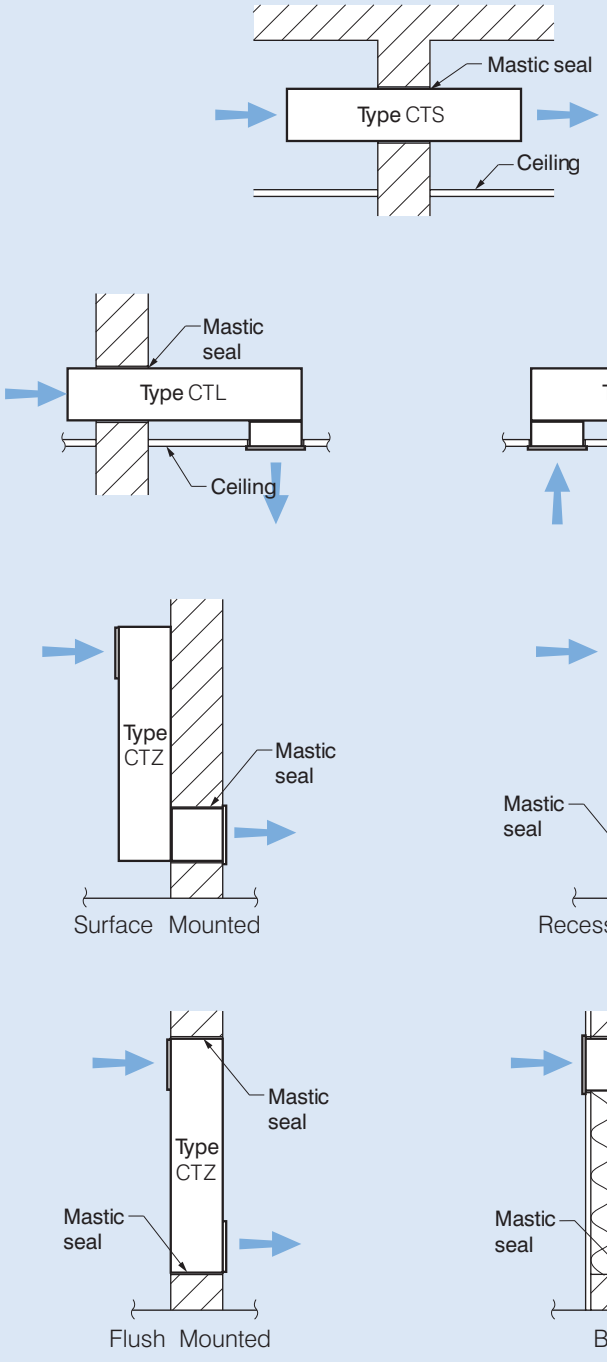
The contractor shall ensure that an air tight seal is achieved around all wall penetrations to maintain acoustic integrity.

Where necessary additional mass lagging shall be applied to the outside of the attenuators to prevent flanking transmission.

All units shall have a constant active acoustic length irrespective of grille or section size. Standard units shall have an active length of 900mm and high performance units an active length of 1800mm.

Acoustic performance specified is quoted as transmission loss as defined in AS1191:1985

MOUNTING ARRANGEMENTS



Note: Airflow shown as a guide only (can travel in either direction)