STC CHART

In the following charts all plasterboard joins and edges are sealed with an appropriate acoustic sealant. The figures given below are based on all surfaces being sealed airtight.

MATERIAL DESCRIPTION	STC RATING	
TIMBER STUD		
	No Insulation	**With Insulation**
Standard stud wall with one layer of 16mm (5/8") Plasterboard	**28**	
Typical wall construction with 1 layer of 16mm(5/8") Plasterboard on each side of 95x35mm (4 x 11/2") timber studs.	**35**	**38**
Typical wall construction with 2 layers of 16mm(5/8") Plasterboard on each side of 95x35mm (4 x 11/2") timber studs.	**41**	**45**
The Flexible Channel: Single 95x35mm (4"x2")Stud wall with 1 layer of 16mm (5/8") Plaster board on one side and 1 layer of 16mm on the other side on a horizontal flexible channel at 600mm (2ft) centres screwed to the stud.	**40**	**47**
Staggered stud wall construction with 1 layer of 16mm(5/8") Plasterboard on studs of 95x35mm (4 x 11/2") on a 120mm (4 3/4")common base.	**42**	**48**
TIMBER STUD (continued)		

Staggered stud wall construction with 2 layers of 16mm(5/8") Plasterboard on studs of 95x35mm (4 x 11/2") on a 120mm (4 3/4")common base.	**50**	**54**
Staggered stud wall construction with 3 layers of 16mm(5/8") Plasterboard on studs of 95x35mm (4 x 11/2") on a 120mm (4 3/4")common base.	**56**	**61**
BRICK VENEER		
The typical Brick Veneer construction with a layer of 10mm (3/8") plasterboard. This is the standard Australian house construction.	**53**	**55**
Brick Veneer construction with a layer of 16mm (5/8") plasterboard.	**54**	**56**
STEEL STUD		
One (1) layer of 16mm (5/8") plasterboard each side of a steel stud.		
Stud sizes	**No Insulation**	**With Insulation**
2 inch	**37**	**42**
STEEL STUD (continued)		
2.5 inch	**38**	**42**

3 inch	39	43
3.5 inch	-	46
6 inch	42	46
Two (2) layers of 16mm (5/8") plasterboard each side of a steel stud.		
Stud sizes	No Insulation	With Insulation
2 inch	46	51
2.5 inch	46	52
3 inch	48	53
STEEL STUD (continued)		
3.5 inch	48	53
6 inch	51	55

Three (3) layers of 16mm (5/8") plasterboard each side of a steel stud.		
Stud sizes	**No Insulation**	**With Insulation**
2 inch	**50**	**54**
2.5 inch	**51**	**55**
3 inch	**52**	**56**
3.5 inch	**53**	**57**
6 inch	**55**	**58**
STEEL STUD (continued)		
1 layer of 16mm (5/8") plasterboard each side of a **staggered steel stud**.	**41**	**47**
2 layers of 16mm (5/8") plasterboard each side of a **staggered steel stud**.	**52**	**58**

3 layers of 16mm (5/8") plasterboard each side of a **staggered steel stud**.	**55**	**60**
Double steel studs opposite each other with 2 layers of 16mm (5/8") plaster board on each side.(Insulation is 125mm (5") glass wool 590lb/ft^2)	**55**	**59**
Single 150mm (6") Steel stud with 3 layers of 13mm (1/2") plasterboard on one side and on the other side another 3 layers on a flexible channel screwed horizontally onto the steel stud. (Insulation is 125mm (5") glass wool 590lb/ft^2)	**55**	**64**
BRICK and CONCRETE BLOCK		
Standard house brick unrendered.	**39**	
House brick rendered both sides (13mm (1/2") 1:1:6,Cement:Lime:Sand)	**45**	
8" Concrete Block, hollow core, no wall finish	**45**	
BRICK and CONCRETE BLOCK (continued)		
8" Concrete Block , hollow core, painted 2 coats, 2 sides	**48**	
CEILINGS		

One (1) x Layer of 16mm (5/8") Plasterboard fixed to a flexible channel fixed at 400mm (16") centers.
(a) 45
(b) 49
(c) 45
Two (2) x Layers of 16mm (5/8") Plasterboard fixed to a flexible channel fixed at 400mm (16") centers.
(a) 56
(b) 58
CEILINGS (continued)
(c) 55
Three (3) x Layers of 16mm (5/8") Plasterboard fixed to a flexible channel fixed at 400mm (16") centers.
(a) 56

(b) 59
(c) 55