

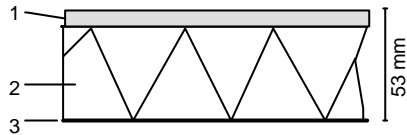
## THE ROOM-TO-ROOM AIRBORNE SOUND INSULATION ACCORDING TO ISO 140-9:1985

principal: Ecophon AB

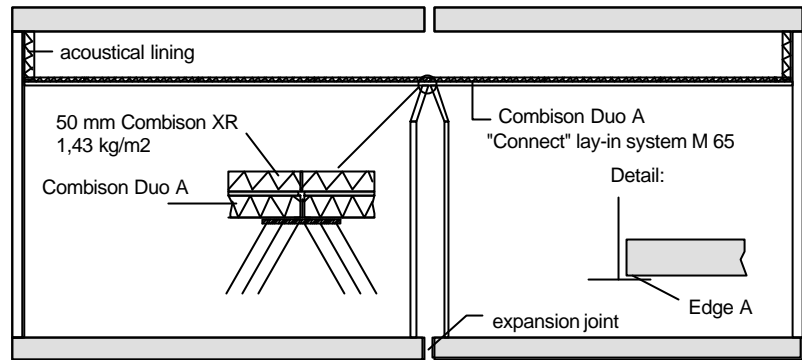


construction tested: #4: Ceiling of Combison Duo A with additional absorption on top of the complete ceiling

Section of ceiling panel: 4



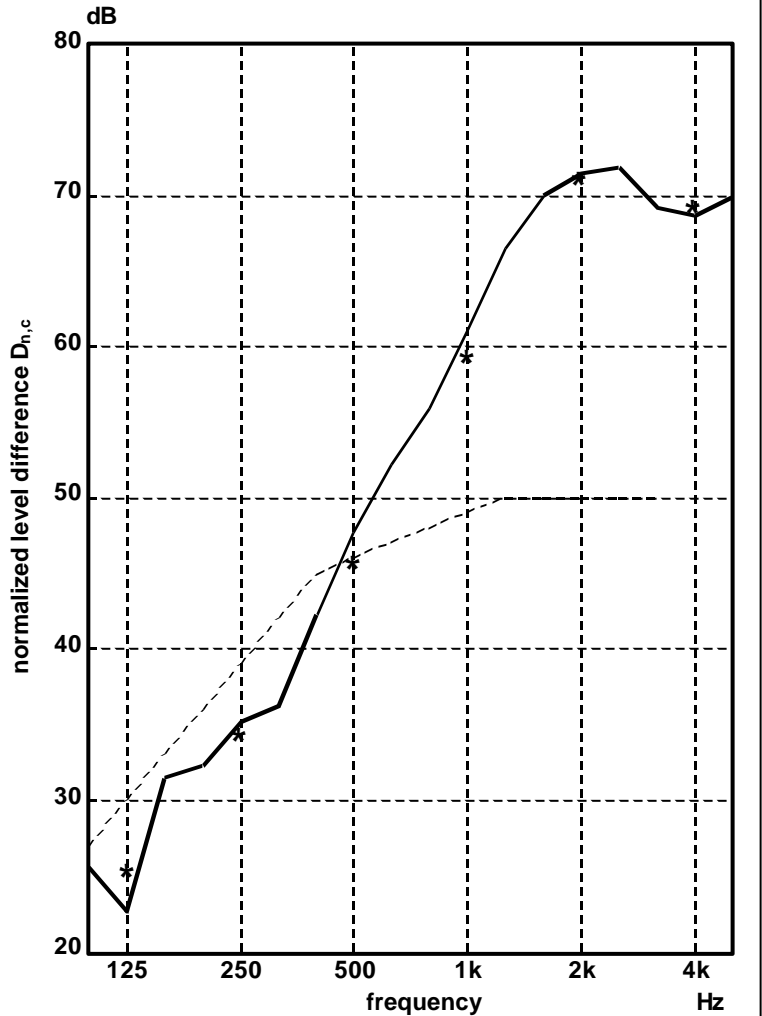
- 1: gypsum board 12,5 mm
- 2: glasswool
- 3: painted glasstissue
- Total mass: 12,84 kg/m<sup>2</sup>
- Panel sizes: 600x600 mm



volume sending room: 59 m<sup>3</sup>  
 volume receiving room: 54 m<sup>3</sup>  
 reference area: 10 m<sup>2</sup>  
 surf. mass ceiling: 14.2 kg/m<sup>2</sup>  
 measured at: laboratory conditions  
 signal: broad-band noise  
 bandwidth: 1/3 octave

ISO 717-1:1996

$$D_{n,c,w}(C;C_{tr}) = 46(-2;-7) \text{ dB}$$



\* 1/1 oct.  
 — 1/3 oct.  
 - - - - - ref. curve (ISO 717)

	125	250	500	1k	2k	4k
	25.5	32.3	42.3	55.9	70.0	69.2
1/3 oct.	22.6	35.2	47.7	61.1	71.4	68.6
	31.4	36.2	52.2	66.5	71.8	69.8
1/1 oct.	25.2	34.2	45.6	59.2	71.0	69.2

publication is permitted for the entire page only

Mook, 18-09-2001