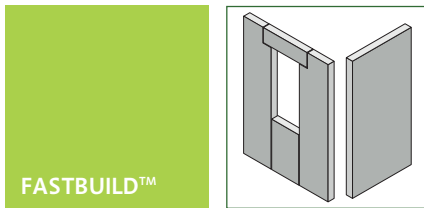


Uniclass	G25:JB1
CI/SfB	(21) (22)

ACOUSTIC PERFORMANCE



Fastbuild™ projects are rigorously tested to ensure that the system's acoustic performance consistently achieves and exceeds current Building Regulations.



Acoustic performance

Fastbuild™ standard details are designed to meet the requirements of Part E of the Building Regulations 2003 for floors and walls.

Every building tends however to have variable layouts and finishing details that may affect the building's acoustic performance. As such, Structherm will work with the client's acoustic consultant to provide suitable solutions.

Separating walls

Acoustic field tests have shown that Fastbuild™ panels perform extremely well at both lower and upper frequencies. It can exceed the minimum institutional sound insulation performance set by Building Bulletin 93 for classroom-to-classroom acoustics as well as the Building Regulations Part E requirements for party walls. Typical test results for party walls and floors for flats are given in the table.

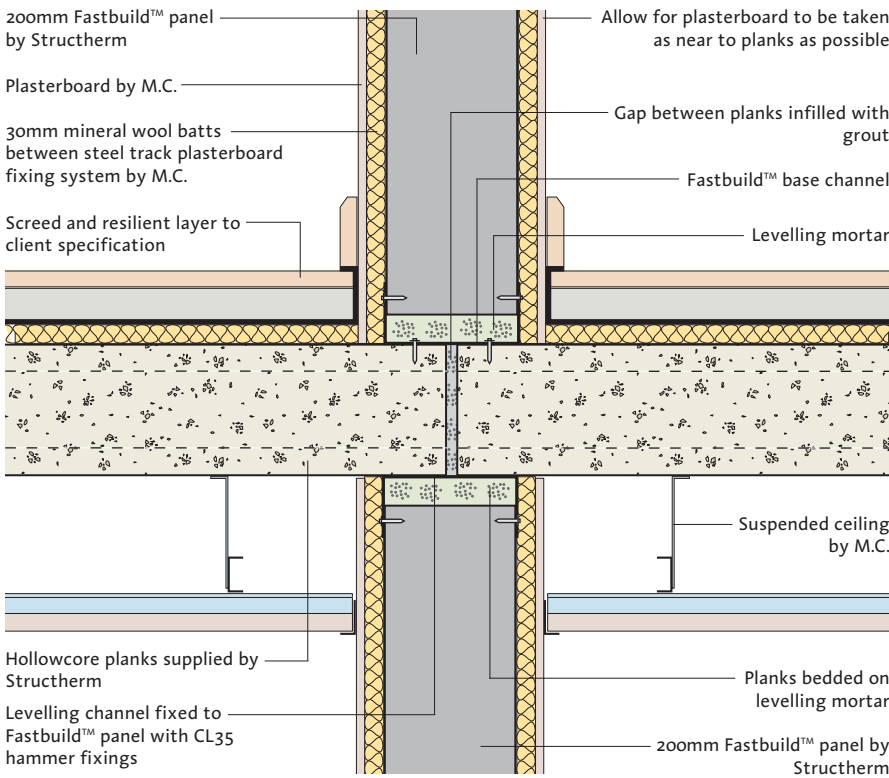


ACOUSTIC TEST RESULTS FOR BLOCKS OF FLATS

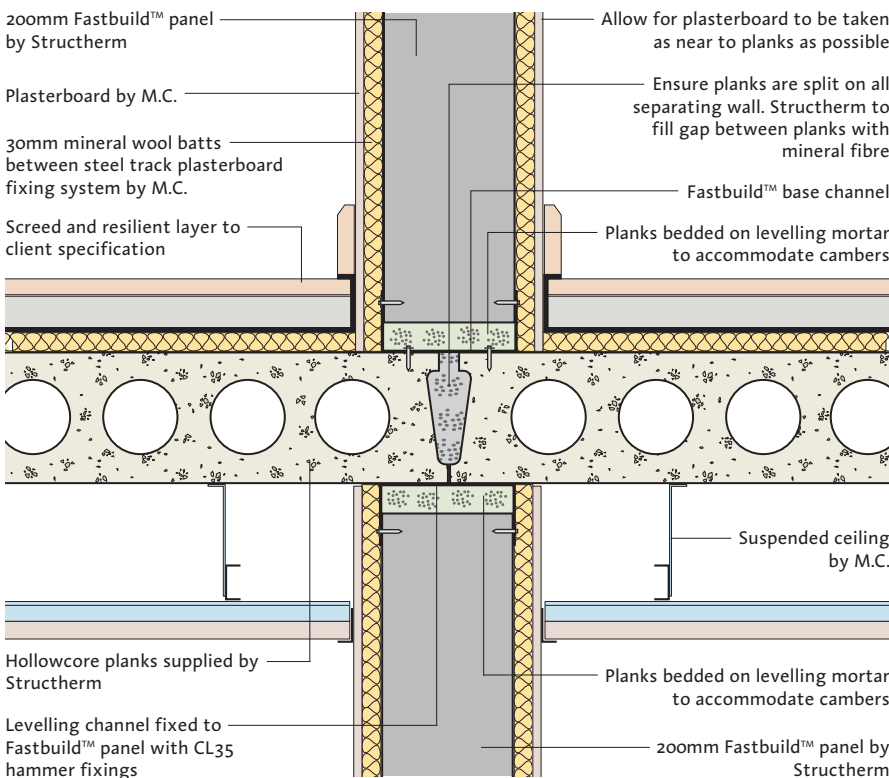
	Airborne Sound $D_{nT,W} + C_{tr}$	Impact Sound $L_{nT,W}$
Wall Tests (between different flats)		
	53dB	–
	55dB	–
	53dB	–
	54dB	–
	52dB	–
Floor Tests (between different flats)		
	57dB	56dB
	55dB	58dB
	55dB	56dB
	60dB	52dB

1. Approved Document E: 2003 Airborne Standard for wall and floor test is $D_{nT,W} + C_{tr}$ 45dB (minimum)
2. Approved Document E: 2003 Impact Standard for floor tests is $L_{nT,W}$ 62dB (maximum)

Typical separating wall details



Vertical section at junction of floors where planks bear on walls



Vertical section at junction of floors where planks run parallel to walls

