KOMFORT

to BS 5234: Part 2: 1992

Summary of Performance

Document No. LS90 / STR1

Ls90 Elegance Partitioning System

Steel Faced Plasterboard Solid Panel Construction with 90° Corner & Doorset

This is to confirm that the construction of the above partitioning system with **steel faced plasterboard panels** as detailed in the Building Test Centre Reports No. **BTC 11846S** and **BTC 12721S** (available on request), Komfort's **Ls90 STR/INST.1** and **summarised overleaf** has been tested in accordance with British Standard 5234: Part 2: 1992 and satisfied the criteria for structural stability achieving grade;

Panels / Door	Test Annexes	Performance Grade Achieved
Steel Faced Plasterboard & Veneered Door	A, B, C, D, E	Severe Duty
	F (door slam)	see note ⁽²⁾



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For performance validation of the installed product this Summary of Performance must be accompanied by the signed Contractors Statement

Certificate No FM25967

Ls90 Elegance Partitioning System Steel Faced Plasterboard Solid Panel Construction with 90^o Corner & Doorset Summary of Results



Test Report: BTC 11846S BTC 12721S

Test Date: 01 February 2002 26 March 2003

Test Height: 3000mm 2800mm

	grad	e comp	iance in	accorda	ance wi	th BS 52	34: Part	2: 1992			
		Test Grade performance achieved (Pass / Fail)					Impact	ot	Deflection (mm)		
Requirement of test	t	method Annex	Light duty	Medium duty	Heavy duty	Severe duty	Energy	Load	Max	Residual	Damage
Stiffness - Centre of p - On stud	oanel	A A	-	-	-	Pass Pass	-	500N 500N	9.2 7.0	0.6 0.2	None None
Surface damage by a subody impact: (BTC 118											
Straight partition Partition 90 ⁰ junction		B B	-	-	-	Tested Tested	10Nm 10Nm	-	-	-	None None
Resistance to damage large soft body impact											
Straight partition centre of Straight partition on stuc Partition 90° junction (BTC	d	C C C	- - -	- - -	- - -	Pass Pass Pass	100Nm 100Nm 100Nm	- - -	- - -	0.3 0.5 1.0	None None None
Perforation by small ha impact (BTC 11846):	ard body										
Straight partition Partition 90 ⁰ junction		D D	-	-	-	Pass Pass	30Nm 30Nm	-	-	-	None None
Resistance to structura age by large soft body											
Straight partition centre of Straight partition on stud		E E	-	-	-	Pass Pass	120Nm 120Nm	-	-	-	None None
Door slamming (2)		F	-	-	-	see note (2)	-	-	-	0.6	see note (2)
Crowd pressure		G		I		I		1,5KN/m	34.0	7.0	None
Lightweight pull out		K	not tested				-	-	-	-	
Lightweight pull dowr	ı	J		not tested			-	-	-	-	
GRADE ACHIEVED			Severe Duty								
Tested Construction: (1) As this is indicative (wi	and one the door of a 0.8r 1200mn The door door tes	free end. r weight wa mm steel fa n centres. r was hung t a 90° cor	The test sp s 54.52kg (cing that w No infill wa in a 2 part ner with 90	nm long x 3 ecimen inclu 2). Each p as hung eith as installed aluminium 0mm long r "tested" is s	uded a doc anel componer side of in the vertic door frame return was	orset 838mr rising of 12. a 54mm ve cal gap betw using one erected.	n x 2650mr 5mm thick rtical 2 part ween the pa and a half p	m positioned DSG plaste 1.2mm thic anels or the pair of lift off	d 600mr rboard k ck steel stud ca steel hin	m from the bonded to t stud positic vity (BTC 1) nges. Foll	fixed end, the inside oned at 2721). owing the
 specifiers should ascer Door weight was incre After 100 slams the do door leading edge and fully operational. 	rtain if surfa ased to me oor leading	ace damage eet the requ edge was r	e is accepta irement unc ubbing on t	ble. Ier standard he door frar	to 60kg to ne, but it h	enable high ad been not	ner grade (s ted before th	evere) slam ne test that	test to b the vertio	e conducte cal gap bet	ed. ween the

The above data must be read in conjunction with the test summary description given overleaf. The information given is an extract of the test reports supplied by The Building Test Centre, East Leake, Loughborough.

BTC is a UKAS approved Test Laboratory.

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Data Sheet No. Ls90/STR1 - 04/13



Ls90 Elegance Partitioning System Steel Faced Plasterboard Solid Panel Construction



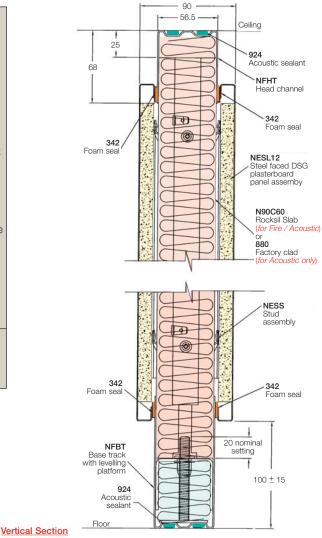
Ls90 Soild Construction :	Steel Panel: The panels were made of 0.8mm thick mild steel facings with a 12.5mm thick DSG Plasterboard bonded to the inside. The panel assembly is hung either side on the 2 part steel vertical stud assembly (NESS) positioned at nominal 1200mm centres.		
	Head: The head tack (NFHT) had 2 strips of acoustic sealant (924) applied before then screw fixing in position using No.8 x 38mm long screws at 600 centres.		
	Base: Floor Track Assembly (NFBT) comprising of a floor channel had 2 strips of acoustic sealant (924) applied on the base and was then screw fixed in position using No.8 x 38mm long screws at 600 centres. The inner adjustable base section was then inserted.		
	Abutments: Tolerance Wall Abutment Assembly (NJWT). The back of inner channel was applied with acoustic sealent (924) then screw fixed using No.8 x 38mm long screws at 600 centres direct to the test rig aperture and the outer section is assembled direct to the wall channel with vertical stud.		
	Vertical Studs: Are nominal 54mm wide 2 part 1.2mm thick mild steel assembled together and infilled with 45kg/m ³ Rockwool.		
	Vertical Panel Joint: PVC ^u Infill Gasket (NEJI)		
Cavity Infill :	Acoustic / Fire performance: 62mm thick 45kg/m ³ Rocksil Slab (N90C60). Acoustic only performance: 60mm thick Factory Clad (880).		

Notes:

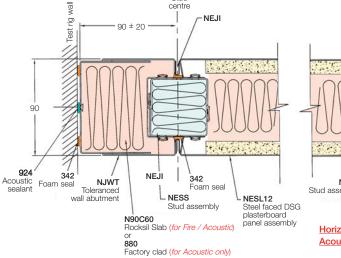
This data sheet should be read in conjunction with Structural Summary of Performance Ls90 / STR1.

The tested construction other then the vertical stud did not include any cavity infill, seals or intumescent that would be required for acoustic and fire performance.

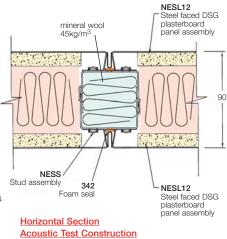
For details of the additional components required for acoustic and or fire performance applications see the Sound Reduction and Fire Resistance Summary of Performance data sheets.







Stud



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