

FIRE RATED WALL SYSTEMS



Systems Summary Table

JANUARY 2006

WALLS – TWO WAY FRR – TIMBER FRAME WALLS						
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	STC	LINING REQUIREMENTS EACH SIDE OF FRAME	WEIGHT OF SYSTEM (kg/m ²)	PAGE
GBT 15	NLB	-/15/15	36	1 layer 10mm GIB® Standard	22	8
GBTL 15	LB	15/15/15	36	1 layer 10mm GIB® Standard	22	8
GBT 30a	NLB	-/30/30	36	1 layer 10mm GIB Fyrelite®	22	9
GBTL 30	LB	30/30/30	36	1 layer 10mm GIB Fyrelite®	22	9
GBT 30b	NLB	-/30/30	36	1 layer 13mm GIB® Standard	26	10
GBTL 30b	LB	30/30/30	36	1 layer 13mm GIB® Standard	26	10
GBT 60a	NLB	-/60/60	36	1 layer 13mm GIB Fyrelite®	27	11
GBTL 60	LB	60/60/60	36	1 layer 13mm GIB Fyrelite®	27	11
GBTL 60b	LB	60/60/60	42	2 layers 10mm GIB Fyrelite®	39	12
GBT 90	NLB	-/90/90	37	1 layer 16mm GIB Fyrelite®	36	13
GBTL 90	LB	90/90/90	37	1 layer 16mm GIB Fyrelite®	36	13
GBT 120a	NLB	-/120/120	43	2 layers 13mm GIB Fyrelite®	47	14
GBT 120b	NLB	-/120/120	35	1 layer 19mm GIB Fyrelite®	43	15
GBTL 120	LB	120/120/120	46	2 layers 16mm GIB Fyrelite®	65	16
GBT 180	NLB	-/180/180	46	2 layers 16mm GIB Fyrelite®	65	17

WALLS – TWO WAY FRR – STEEL FRAME WALLS						
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	STC	LINING REQUIREMENTS EACH SIDE OF FRAME	WEIGHT OF SYSTEM (kg/m ²)	PAGE
GBSL 15	LB	15/15/15	34	1 layer 13mm GIB® Standard	22	18
GBS 30	NLB	-/30/30	34	1 layer 13mm GIB® Standard	22	19
GBSL 30a	LB	30/30/30	41	1 layer 16mm GIB Fyrelite®	29	20
GBSL 30b	LB	30/30/30	44	2 layers 10mm GIB Fyrelite®	32	20
GBS 60	NLB	-/60/60	34	1 layer 13mm GIB Fyrelite®	23	21
GBSL 60a	LB	60/60/60	42	1 layer 19mm GIB Fyrelite®	32	22
GBSL 60b	LB	60/60/60	45	2 layers 13mm GIB Fyrelite®	38	22
GBS 90	NLB	-/90/90	41	1 layer 16mm GIB Fyrelite®	29	23
GBSL 90	LB	90/90/90	45	1 layer 16mm GIB Fyrelite® + 1 layer 13mm GIB Fyrelite®	42	24
GBS 120	NLB	-/120/120	42	1 layer 19mm GIB Fyrelite®	32	25
GBS 240	NLB	-/240/240	44	4 layers 19mm GIB Fyrelite® (Refer to specification for layout)	65	26

UNIVERSAL WALLS – ONE WAY FRR – TIMBER OR STEEL FRAME				
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	LINING REQUIREMENTS ONE SIDE OF FRAME	PAGE
GBUW 15	LB/NLB	(15)/15/15	1 layer 13mm GIB® Standard	28
GBUW 30a	LB/NLB	(30)/30/30	1 layer 16mm GIB Fyrelite®	29
GBUW 30b	LB/NLB	(30)/30/30	2 layers 10mm GIB Fyrelite®	29
GBUW 60a	LB/NLB	(60)/60/60	2 layers 13mm GIB Fyrelite®	30
GBUW 60b	LB/NLB	(60)/60/60	1 layer 16mm GIB Fyrelite® + 1 layer 13mm GIB Fyrelite®	30
GBUW 90	LB/NLB	(90)/90/90	1 layer 16mm GIB Fyrelite® + 1 layer 19mm GIB Fyrelite®	31
GBUW 120	LB/NLB	(120)/120/120	2 layers 19mm GIB Fyrelite®	32

Note: The STC values shown above relate to non insulated cavities

In order for GIB® systems to perform as tested, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow system specifications.

FIRE RATED FLOOR/CEILING SYSTEMS



Systems Summary Table

JANUARY 2006

FLOOR/CEILING SYSTEMS							
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	STC	IIC	LINING REQUIREMENTS TO UNDERSIDE OF SUPPORT FRAME	WEIGHT OF SYSTEM (kg/m ²)	PAGE
GBFC 15	LB	15/15/15	38	31	Timber joists with 1 layer 10mm GIB Ultraline [®] or 13mm GIB [®] Standard	40	33
GBFC 45	LB	45/45/45	39	32	Timber joists with 1 layer 13mm GIB Fyrelime [®]	44	34
GBCJ 45	LB	45/45/45	39	32	Composite joists with 1 layer 13mm GIB Fyrelime [®]	40	35
GBFC 60	LB	60/60/60	39	32	Timber joists with 1 layer 16mm GIB Fyrelime [®]	46	36
GBCJ 60	LB	60/60/60	39	32	Composite joists with 1 layer 16mm GIB Fyrelime [®]	44	37
GBFC 90	LB	90/90/90	41	34	Timber joists with 2 layers 16mm GIB Fyrelime [®]	63	38
GBFC 120	LB	120/120/120	-	-	Timber or steel joists with 2 layers 19mm GIB Fyrelime [®]	-	39

FLOOR/CEILING SYSTEMS – SUSPENDED GRID							
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	STC	IIC	LINING REQUIREMENTS TO UNDERSIDE OF SUPPORT FRAME	WEIGHT OF SYSTEM (kg/m ²)	PAGE
GBSC 30	LB	30/30/30	48	43	Timber joists with USG ScrewFix™ suspension system & 1 layer 13mm GIB Fyrelime [®] (back blocked)	50	40
GBSC 60a	LB	60/60/60	53	43	Timber joists with USG ScrewFix™ suspension system & 2 layers 13mm GIB Fyrelime [®]	60	41
GBSC 60b	LB	60/60/60	50	43	Timber joists with USG Drywall Grid suspension system & 1 layer of 16mm GIB Fyrelime [®]	54	42
GBSC 90	LB	90/90/90	53	43	Timber joists with USG Drywall Grid suspension system & 1 layer of 13mm GIB Fyrelime [®] + 1 layer of 16mm GIB Fyrelime [®]	64	43

UNIVERSAL CEILINGS – ONE WAY FRR – TIMBER OR STEEL FRAME				
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	LINING REQUIREMENTS TO UNDERSIDE OF SUPPORT FRAME	PAGE
GBUC 15	LB/NLB	(15)/15/15	1 layer 13mm GIB Fyrelime [®]	44
GBUC 30	LB/NLB	(30)/30/30	1 layer 16mm GIB Fyrelime [®]	45
GBUC 45	LB/NLB	(45)/45/45	2 layers 13mm GIB Fyrelime [®]	46
GBUC 60	LB/NLB	(60)/60/60	1 layer 16mm GIB Fyrelime [®] + 1 layer 13mm GIB Fyrelime [®]	47
GBUC 90	LB/NLB	(90)/90/90	2 layers 19mm GIB Fyrelime [®]	48

FIRE RATED STEEL BEAMS AND COLUMNS (GIB FYRELIME [®] LININGS ON TIMBER STRAPPING OR STEEL CLIP & CHANNEL)	
FIRE RATINGS AVAILABLE	PAGE
15, 30, 60, 90, 120 minutes	49

RISERS, SHAFTS AND DUCTS			
SPECIFICATION REFERENCE	LOAD BEARING CAPABILITY	FRR	PAGE
GIB [®] Shaftwall	NLB	-/30/30 -/60/60 -/90/90 -/120/120	51
GIB [®] Fyreduct™	NLB	-/30/30 -/60/60 -/90/90 -/120/120	54
GIB [®] Ventshaft	NLB	-/60/60	58

Note: The STC and IIC values shown for Floor/Ceiling systems and Suspended Grid Floor/Ceilings relate to bare particle board flooring without fibreglass between the joists.

In order for GIB[®] systems to perform as tested, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow system specifications.