

BGC Fibre Cement and Plasterboard is a proudly Australian based company that produces fibre cement and plasterboard products for Australia and for export.

WHY GTEK™?

WITH OUR ALL-AUSTRALIAN GTEK™ RANGE OF INTERIOR LINING PRODUCTS, YOU BENEFIT FROM QUALITY-TESTED TECHNOLOGY, FULL BGC PLASTERBOARD INTERIOR LINING SYSTEMS COMPATIBILITY AND OUR CLASS-LEADING SERVICE NETWORK.

- ▶ **TECHNOLOGY** / Light, modular GTEK™ technology eases installation for seamless results
- ▶ **TECHNICAL SUPPORT** / Our team of experts provide in-depth consultations, CPD presentations, technical brochures & guides
- ▶ **AUSTRALIAN MADE** / All-Australian: closest available links between local manufacture and supply
- ▶ **SERVICE** / Our distribution network offers dedicated state-based offices & warehouses with first class customer service
- ▶ **QUALITY** / Independent testing accords with Australia's toughest build-quality accreditations
- ▶ **SYSTEMS** / Full compatibility with extensive BGC Plasterboard interior lining systems range

TECHNOLOGY

TECHNICAL SUPPORT

AUSTRALIAN MADE

SERVICE

QUALITY

SYSTEMS



INTRODUCTION

The GTEK™ Fire and Acoustic Guide has been designed to assist architects, specifiers, designers, builders and contractors in the selection of the correct system for projects when fire and acoustic properties are required.

Each of the systems in this Guide has been given a unique system number to help with ease of identification. A quick reference guide to these numbers is noted further in the Guide.

The data contained in this Guide meets all Australian standards and is correct at the time of publication.

SAFETY

In normal circumstances there are no known health hazards when using or applying plasterboard. However, BGC Plasterboard recommends that the following precautions are followed.

Avoid creating dust when handling GTEK™ products. BGC Plasterboard suggests that P1 or P2 particulate respirator (dust mask), which comply with Australian and New Zealand Standard AS/NZS 1715: Selection, Use and Maintenance of Respiratory Protective Devices, and Australian and New Zealand Standard AS/NZS 1716: Respiratory Protective Devices when Exposed to Dust), be used at all times.

FIRST AID

Eyes Flush with clean water for 15 minutes. Seek medical attention if irritation persists.

Skin Wash with mild soap and water. Seek medical attention if irritation persists.

Inhalation Drink plenty of water. Seek medical attention.

Material Safety Data Sheets for GTEK™ and BGC Fibre Cement products are available at any BGC state office or the BGC websites

gtekplasterboard.com.au
bgcinnovadesign.com.au

CERTIFICATION DETAILS

All systems in the GTEK™ Fire and Acoustic Guide have been assessed to meet all requirements of Australian Standards and the National Construction Code.

Acoustic testing has been carried out to Australian Standards.

The acoustic testing has been carried out by the following institutions:

- ▶ Royal Melbourne Institute of Technology (RMIT)
- ▶ CSIRO

The fire testing has been carried out to Australian Standard AS1530 – part 4 ‘Fire and Resistance Tests of Elements of Building Construction’ and were carried out by:

- ▶ CSIRO
- ▶ Exova Warringtonfire Aus Pty Ltd.

Fire and acoustic test reports and opinions can be obtained upon request. The systems detailed in this Guide and their warranties are only valid if constructed in accordance with GTEK™ or BGC Fibre Cement installation methods and using only GTEK™ or BGC Fibre Cement products.

GTEK™ SHEET SIZES AND WEIGHTS

PRODUCT AND THICKNESS (mm)	WEIGHT (kg/m ²)	WIDTH (mm)	LENGTH (mm)							PACK SIZE
			2400	2700	3000	3600	4200	4800	6000	
GTEK™ Wall 10mm (not available in WA)	6.5	1200	✓	✓	✓	✓	✓			60
								✓	✓	50
		1350			✓	✓	✓			60
								✓	✓	50
GTEK™ Wall 13mm	8.8	1200	✓	✓	✓	✓			50	
								✓	✓	40
		1350			✓	✓				50
								✓		40
GTEK™ Ceiling 10mm	6.5	1200	✓		✓	✓	✓			60
								✓	✓	50
		1350			✓	✓				60
								✓	✓	✓
GTEK™ Wet Area 10mm	7.8	1200	✓	✓	✓	✓	✓			60
								✓		50
		1350	✓		✓	✓	✓			60
								✓		50
GTEK™ Wet Area 13mm	9.2	1200	✓	✓	✓	✓	✓		50	
		1350			✓	✓			40	
GTEK™ Barrier 10mm	7.8	1200				✓			60	
GTEK™ Barrier 13mm	9.2					✓			50	
GTEK™ Fire 13mm	10.6	1200		✓	✓	✓			50	
		1350				✓			50	
GTEK™ Fire 16mm	13.1	1200	✓	✓	✓	✓			40	
		1350				✓			40	
GTEK™ Fire & Wet Area 13mm	10.6	1200				✓			50	
GTEK™ Fire & Wet Area 16mm	13.1					✓			40	
GTEK™ Sound 10mm	8.4	1200				✓			60	
								✓		50
		1350					✓			60
								✓		50
GTEK™ Sound 13mm	11.7	1200			✓	✓			50	
		1350				✓			50	
GTEK™ Curve 6.5mm	4.5	1200				✓			100	
GTEK™ Impact 13mm	11.7	1200			✓	✓			50	
		1350				✓			50	
GTEK™ Total Plus	11.7	1200				✓			50	
		1350				✓			50	
Cove	0.65	55			✓	✓	✓	✓	532	
Cove	0.95	75			✓	✓	✓	✓	380	
Cove	1.25	90			✓	✓	✓	✓	306	
Esperance	0.95	75						✓	380	
Albany	1.2	88						✓	240	
2 step	0.95	75						✓	220	
3 step	0.95	75						✓	330	

GTEK™ COMPOUNDS AND ADHESIVES

PRODUCT	BUCKET/BAG SIZE
Stud Adhesive	1.25kg*
Stud Adhesive	5.2kg
All Purpose	20kg
All Purpose	24kg#
All Purpose Lightweight	17kg
All Purpose Lightweight	20kg#
Top Coat	20kg
Top Coat	24kg#
Patching Compound 20	1kg#
Base Coat 45	20kg
Base Coat 60	20kg
Base Coat 90	20kg*
Cornice Cement 45	20kg
Cornice Cement 60	20kg
Conice Cement 90	20kg*
Masonry Adhesive	20kg
Back Blocking Cement	20kg
Fibreglass Tape	50mm x 20m
Fibreglass Tape	50mm x 90m

*Not sold in WA. #WA only

INNOVA™ FINISH ON SITE

PRODUCT AND THICKNESS (MM)	WEIGHT (KG/M ²)	WIDTH (MM)	LENGTH (MM)															
			1190	1790	1800	2390	2400	2440	2450	2700	2725	2750	2990	3000	3030	3600	4200	
Nuline™ Plus 14mm	3.5	175															✓	
	4.1	205															✓	
Stratum™ 12mm	4.8	300															✓	
Stratum™ Woodgrain 12mm	4.8																✓	
Stratum™ Duo 12mm	4.7																✓	
Stratum™ Duo Woodgrain 12mm	4.7																✓	
Stratum™ Trio 12mm	4.6																✓	
Stratum™ Contour 10mm	2.2		170														✓	
Duragroove™ Smooth Narrow 9mm	13.5	1200							✓			✓		✓				
Duragroove™ Smooth Wide 9mm								✓			✓		✓					
Duragroove™ Smooth Extra Wide 9mm									✓			✓		✓				
Duragroove™ Woodgrain Wide 9mm										✓			✓		✓			
Durascape™ 9mm	13.5	900							✓							✓		
		1200							✓							✓		
Duragrid™ 9mm	13.4	590				✓												
		890		✓														
		1190	✓										✓					
Duracom™ 9mm	14.6	900			✓		✓											
		1200			✓		✓		✓					✓				
Duracom™ 12mm	19.5	1200					✓								✓			
Stonesheet 9mm	13.1	1200													✓			
Intergroove™ 7.5mm	11.1	1350								✓								

INNOVA™ PRE-FINISHED

PRODUCT AND THICKNESS (MM)	WEIGHT (KG/M²)	WIDTH MM	LENGTH (MM)																	
			1190	1790	1800	2390	2400	2440	2450	2700	2725	2750	2990	3000	3030	3600	4200			
Montage™ Concrete - Square with Circle 16mm	18.9	455															✓			
Montage™ Concrete - Rectangle with Circle 16mm																		✓		
Montage™ Concrete - Smooth Plain 16mm																			✓	
Montage™ Slimline Tile - Limestone 18mm	17																	✓		
Montage™ Slimline Tile - Sandstone 18mm																		✓		
Montage™ Slimline Tile - Basalt 18mm																			✓	
Montage™ Slimline Tile - Onyx 18mm																			✓	
Montage™ Stackstone - Limestone 18mm	16.7																	✓		
Montage™ Stackstone - Sandstone 18mm																		✓		
Montage™ Stackstone - Basalt 18mm																			✓	
Montage™ Stackstone - Onyx 18mm																			✓	
Montage™ Woodgrain - Light Teak 18mm	17.8																	✓		
Montage™ Woodgrain - Dark Mahogany 18mm																		✓		
Montage™ Woodgrain - Grey Oak 18mm																			✓	
Montage™ Woodgrain - Black Oak 18mm																			✓	

BGC FIBRE CEMENT

PRODUCT AND THICKNESS (MM)	WEIGHT (KG/M ²)	WIDTH MM	LENGTH (MM)														
			1190	1790	1800	2390	2400	2440	2450	2700	2725	2750	2990	3000	3030	3600	4200
Durasheet™ 4.5mm	6.6	450					✓										
		600					✓										
		750					✓										
		900					✓							✓			
		1200			✓		✓				✓			✓			
Durasheet™ 6mm	8.9	900					✓							✓			
		1200			✓		✓			✓			✓				
Duraplank™ Smooth and Woodgrain 7.5mm	2.5	230														✓	
	3.3	300														✓	
Duratex™ 7.5	11	1200							✓			✓			✓		
Duratex™ 9mm	13	1200						✓							✓		
Duraliner™ Plus 6mm	8.9	900						✓									
		1200			✓		✓			✓			✓		✓	✓	
		1350					✓						✓		✓	✓	
Duraliner™ Plus 9mm	13.2	1200					✓			✓			✓		✓		
		1350											✓		✓		
Duraliner™ Plus 12mm	17.9	1200												✓			
Duralux™ Plus 6mm	8.9	1200						✓			✓			✓		✓	
Duralux™ Plus 9mm	13.1	1200						✓			✓			✓			

FLOORING SUBSTRATE

PRODUCT AND THICKNESS (MM)	WEIGHT (KG/M ²)	WIDTH MM	LENGTH (MM)													
			1190	1790	1800	2390	2400	2440	2450	2700	2725	2750	2990	3000	3030	3600
Durafloor™ 19mm	26.7	600										✓				
Durafloor™ 22mm	31.5	600						✓								
Compressed Flooring 15mm	26	1200			✓		✓				✓			✓		
Compressed Flooring 18mm	31.1	900						✓						✓		
		1200			✓		✓							✓		
Compressed Flooring 24mm	41.2	1200						✓								

QUICK REFERENCE GUIDE

STEEL FRAME – SINGLE STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Wall	-/-/	GTEK-S001	38
1 X 13mm GTEK™ Wall	1x 13mm GTEK™ Wall	-/-/	GTEK-S002	38
2 x 13 mm GTEK™ Wall	1x 13mm GTEK™ Wall	-/-/	GTEK-S003	38
2 x 13 mm GTEK™ Wall	2 x 13 mm GTEK™ Wall	-/-/	GTEK-S005	39
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	-/-/	GTEK-S006	39
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	-/-/	GTEK-S007	39
2 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Wet Area	-/-/	GTEK-S009	40
2 x 10mm GTEK™ Sound	2 x 10mm GTEK™ Sound	-/-/	GTEK-S010	40
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/30/30	GTEK-S011	40
1 x 13mm GTEK™ Fire 1 x 10mm GTEK™ Wall	1 x 13mm GTEK™ Fire	-/30/30	GTEK-S012	41
1 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/30/30	GTEK-S018	41
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-S019	41
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/90/90 90/90/90	GTEK-S021	42
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	-/120/120 90/90/90	GTEK-S023	42
3 x 13mm GTEK™ Fire	3 x 13mm GTEK™ Fire	-/120/120 90/90/90	GTEK-S025	42
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	-/180/180 180/180/180	GTEK-S026	43
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-S027	43
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/-/	GTEK-S028	43
1 x 12mm BGC Duraliner™ Plus	1 x 12mm BGC Duraliner™ Plus	-/-/	GTEK-S029	44
1 x 10mm GTEK™ Sound	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-S031	44
1 x 13mm GTEK™ Wall	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-S033	44
1 x 13mm GTEK™ Wall	1 x 9mm BGC Duraliner™ Plus	-/-/	GTEK-S034	45
1 x 13mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-S035	45
1 x 16mm GTEK™ Fire (against studs) 1 x 9mm BGC Duraliner™ Plus	1 x 16mm GTEK™ Fire (against studs) 1 x 9mm BGC Duraliner™ Plus	-/120/120 60/60/60	GTEK-S041	45
1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	-/90/90	GTEK-S042	46
1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120	GTEK-S043	46
2 x 16mm GTEK™ Fire and Wet Area	2 x 16mm GTEK™ Fire and Wet Area	-/180/180 120/120/120	GTEK-S044	46
1 x 13mm GTEK™ Total Plus	1 x 13mm GTEK™ Total Plus	-/60/60	GTEK-E5S001	47
1 x 13mm GTEK™ Total Plus	2 x 13mm GTEK™ Total Plus	-/60/60	GTEK-E5S002	47
2 x 13mm GTEK™ Total Plus	2 x 13mm GTEK™ Total Plus	-/120/120	GTEK-E5S003	47
---	3 x 16mm GTEK™ Fire and Wet Area	-/120/120 120/120/120	GTEK-S045	48
---	2 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-S046	48
---	3 x 16mm GTEK™ Fire	-/120/120 120/120/120	GTEK-S048	48
---	3 x 13mm GTEK™ Fire	90/90/90	GTEK-S049	49

QUICK REFERENCE GUIDE

STEEL FRAME – STAGGERED STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Wall	-/-/-	GTEK-SS001	50
1 X 13mm GTEK™ Wall	1x 13mm GTEK™ Wall	-/-/-	GTEK-SS002	50
1 x 10mm GTEk Sound	1 x 10mm GTEK™ Sound	-/-/-	GTEK-SS006	50
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	-/-/-	GTEK-SS007	51
2 x 10mm GTEK™ Sound	2 x 10mm GTEK™ Sound	-/-/-	GTEK-SS010	51
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/60/60	GTEK-SS011	51
1 x 13mm GTEK™ Fire 1 x 13mm GTEK™ Wall	1 x 13mm GTEK™ Fire	-/60/60	GTEK-SS014	52
2 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/60/60	GTEK-SS018	52
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-SS019	52
1 x 16mm GTEK™ Fire 1 x 13mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-SS020	53
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/120/120 90/90/90	GTEK-SS021	53
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	-/120/120 120/120/120	GTEK-SS023	53
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	-/180/180 120/120/120	GTEK-SS026	54
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/-/-	GTEK-SS028	54
2 x 10mm GTEK™ Sound	1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-SS032	54
1 x 13mm GTEK™ Wall	1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-SS033	55
1 x 13mm GTEK™ Wall	1 x 9mm BGC Duraliner™ Plus	-/-/-	GTEK-SS034	55
1 x 13mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-SS035	55
1 x 9mm BGC Duraliner™ Plus	1 x 16mm GTEK™ Fire	-/-/-	GTEK-SS036	56
1 x 16mm GTEK™ Fire (against studs) 1 x 9mm BGC Duraliner™ Plus	1 x 16mm GTEK™ Fire (against studs) 1 x 9mm BGC Duraliner™ Plus	-/60/60 60/60/60	GTEK-SS041	56
1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	-/60/60	GTEK-SS042	56
1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120	GTEK-SS043	57

QUICK REFERENCE GUIDE

STEEL FRAME – DOUBLE STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Wall	-/-/-	GTEK-SD001	58
1 x 13mm GTEK™ Wall	1 x 13mm GTEK™ Wall	-/-/-	GTEK-SD002	58
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	-/-/-	GTEK-SD006	58
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	-/-/-	GTEK-SD007	59
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/30/30	GTEK-SD011	59
1 x 16mm GTEK™ Fire (against studs) 1 x 10mm GTEK™ Wall	1 x 16mm GTEK™ Fire (against studs) 1 x 10mm GTEK™ Wall	-/60/60 60/60/60	GTEK-SD016	59
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-SD019	60
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/90/90 90/90/90	GTEK-SD021	60
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	120/120/120 -/120/120	GTEK-SD023	60
2 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/60/60	GTEK-SD024	61
3 x 13mm GTEK™ Fire	3 x 13mm GTEK™ Fire	-/120/120 90/90/90	GTEK-SD025	61
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	-/180/180 120/120/120	GTEK-SD026	61
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-SD027	62
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/-/-	GTEK-SD028	62
1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 13mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	-/60/60	GTEK-SD038	62
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-SD042	63
1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 9mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120	GTEK-SD043	63
2 x 13mm GTEK™ Total Plus	2 x 13mm GTEK™ Total Plus	-/120/120 90/90/90	GTEK-E5SD001	64

STEEL FRAME – CINEMA WALL

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	120/120/120	GTEK-SC001	65
4 x 16mm GTEK™ Fire	4 x 16mm GTEK™ Fire	120/120/120	GTEK-SC002	65

COMMERCIAL EXTERIOR WALL

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
---	3 x 13mm GTEK™ Fire	90/90/90	GTEK-SCE001	66
---	3 x 16mm GTEK™ Fire	120/120/120	GTEK-SCE002	67

QUICK REFERENCE GUIDE

TIMBER FRAME – SINGLE STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Wall	-/-/-	GTEK-T001	74
1 x 13mm GTEK™ Wall	1 x 13mm GTEK™ Wall	-/-/-	GTEK-T002	74
2 x 10mm GTEK™ Wall	2 x 10mm GTEK™ Wall	-/-/-	GTEK-T004	74
2 x 13mm GTEK™ Wall	2 x 13mm GTEK™ Wall	-/-/-	GTEK-T005	75
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	-/-/-	GTEK-T006	75
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	-/-/-	GTEK-T007	75
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Wet Area	-/-/-	GTEK-T008	76
2 x 10mm GTEK™ Sound	2 x 10mm GTEK™ Sound	-/-/-	GTEK-T010	76
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/30/30	GTEK-T011	76
1 x 13mm GTEK™ Wall	1 x 10mm GTEK™ Wall 1 x 13mm GTEK™ Fire	-/-/-	GTEK-T015	77
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-T019	77
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/120/120 90/90/90	GTEK-T021	77
2 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-T022	78
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	-/120/120 120/120/120	GTEK-T023	78
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	-/180/180 180/180/180	GTEK-T026	78
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-T027	79
1 x 10mm GTEK™ Sound (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 10mm GTEK™ Sound (against studs) 1 x 6mm BGC Duraliner™ Plus	-/-/-	GTEK-T037	79
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	-/90/90 60/60/60	GTEK-T039	79
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120 90/90/90	GTEK-T042	80
2 x 16mm GTEK™ Fire & Wet Area	2 x 16mm GTEK™ Fire & Wet Area	-/180/180	GTEK-T044	80
1 x 13mm GTEK™ Total Plus	1 x 13mm GTEK™ Total Plus	-/60/60	GTEK-E5T001	80
-----	2 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-T046	81
-----	3 x 16mm GTEK™ Fire	120/120/120	GTEK-T048	81

QUICK REFERENCE GUIDE

TIMBER FRAME – STAGGERED STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	-/-/	GTEK-TS006	82
2 x 10mm GTEK™ Sound	2 x 10mm GTEK™ Sound	-/-/	GTEK-TS010	82
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/30/30	GTEK-TS011	82
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/90/90	GTEK-TS019	83
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/120/120	GTEK-TS021	83
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	-/120/120 120/120/120	GTEK-TS023	83
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-TS027	84
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/-/	GTEK-TS028	84
1 x 6mm BGC Duraliner™ Plus	1 x 10mm GTEK™ Wall	-/-/	GTEK-TS030	84
1 x 6mm BGC Duraliner™ Plus	1 x 10mm GTEK™ Sound	-/-/	GTEK-TS031	85
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	60/60/60	GTEK-TS039	85
1 x 16mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 16mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	60/60/60	GTEK-TS040	85
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120 90/90/90	GTEK-TS042	86

TIMBER FRAME – DOUBLE STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/30/30	GTEK-TD011	87
1 x 13mm GTEK™ Wall (against studs) 1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Wall (against studs) 1 x 13mm GTEK™ Fire	-/60/60	GTEK-TD013	87
1 x 10mm GTEK™ Wall (against studs) 1 x 16mm GTEK™ Fire	1 x 10mm GTEK™ Wall (against studs) 1 x 16mm GTEK™ Fire	-/60/60	GTEK-TD017	87
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60 60/60/60	GTEK-TD019	88
2 x 13mm GTEK™ Fire	2 x 13mm GTEK™ Fire	-/120/120 90/90/90	GTEK-TD021	88
2 x 16mm GTEK™ Fire	2 x 16mm GTEK™ Fire	-/120/120 120/120/120	GTEK-TD023	88
3 x 16mm GTEK™ Fire	3 x 16mm GTEK™ Fire	-/120/120	GTEK-TD026	89
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	-/-/	GTEK-TD027	89
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/-/	GTEK-TD028	89
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 13mm GTEK™ Fire	60/60/60	GTEK-TD039	90
1 x 16mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	1 x 16mm GTEK™ Fire (against studs) 1 x 6mm BGC Duraliner™ Plus	60/60/60	GTEK-TD040	90
1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	1 x 6mm BGC Duraliner™ Plus (against studs) 1 x 16mm GTEK™ Fire	-/120/120 90/90/90	GTEK-TD042	90

QUICK REFERENCE GUIDE

EXTERIOR WALL – TIMBER STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 16mm GTEK™ Fire & Wet Area 1 x 7.5mm Duratex™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE001	94
2 x 16mm GTEK™ Fire & Wet Area 1 x 7.5mm Duratex™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE002	94
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragrid™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE003	94
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragrid™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE004	95
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duracom™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE005	95
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duracom™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE006	95
1 x 16mm GTEK™ Fire & Wet Area 1 x 14mm Nuline™ Plus	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE007	96
2 x 16mm GTEK™ Fire & Wet Area 1 x 14mm Nuline™ Plus	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE008	96
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Durascape™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE009	96
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Durascape™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE010	97
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragroove™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE011	97
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragroove™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE012	97
1 x 16mm GTEK™ Fire & Wet Area 1 x 12mm Stratum™/Stratum™ Duo/ Stratum™ Trio	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE013	98
2 x 16mm GTEK™ Fire & Wet Area 1 x 12mm Stratum™/Stratum™ Duo/ Stratum™ Trio	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE014	98
1 x 16mm GTEK™ Fire & Wet Area 1 x 10mm Stratum™ Contour	1 x 10mm GTEK™ Wall	60/60/60	GTEK-TE015	98
2 x 16mm GTEK™ Fire & Wet Area 1 x 10mm Stratum™ Contour	1 x 10mm GTEK™ Wall	90/90/90	GTEK-TE016	99

QUICK REFERENCE GUIDE

EXTERIOR WALL – STEEL STUD

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 16mm GTEK™ Fire & Wet Area 1 x 7.5mm Duratex™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE001	100
2 x 16mm GTEK™ Fire & Wet Area 1 x 7.5mm Duratex™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE002	100
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragrid™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE003	100
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragrid™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE004	101
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duracom™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE005	101
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duracom™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE006	101
1 x 16mm GTEK™ Fire & Wet Area 1 x 14mm Nuline™ Plus	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE007	102
2 x 16mm GTEK™ Fire & Wet Area 1 x 14mm Nuline™ Plus	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE008	102
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Durascape™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE009	102
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Durascape™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE010	103
1 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragroove™	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE011	103
2 x 16mm GTEK™ Fire & Wet Area 1 x 9mm Duragroove™	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE012	103
1 x 16mm GTEK™ Fire & Wet Area 1 x 12mm Stratum™/Stratum™ Duo/ Stratum™ Trio	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE013	104
2 x 16mm GTEK™ Fire & Wet Area 1 x 12mm Stratum™/Stratum™ Duo/ Stratum™ Trio	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE014	104
1 x 16mm GTEK™ Fire & Wet Area 1 x 10mm Stratum™ Contour	1 x 10mm GTEK™ Wall	60/60/60	GTEK-SE015	104
2 x 16mm GTEK™ Fire & Wet Area 1 x 10mm Stratum™ Contour	1 x 10mm GTEK™ Wall	90/90/90	GTEK-SE016	105

QUICK REFERENCE GUIDE

GTEK™ PROTECT INTERTENANCY

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wet Area	1 x 10mm GTEK™ Wet Area	60/60/60	GTEK-PR25001	109
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	60/60/60	GTEK-PR25002	109
1 x 13mm GTEK™ Wet Area	1 x 13mm GTEK™ Wet Area	60/60/60	GTEK-PR25003	109
1 x 13mm GTEK™ Wall	1 x 13mm GTEK™ Wall	60/60/60	GTEK-PR25004	110
1 x 6mm BGC Duraliner™ Plus	1 x 6mm BGC Duraliner™ Plus	60/60/60	GTEK-PR25005	110
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	60/60/60	GTEK-PR25006	110
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	60/60/60	GTEK-PR25007	111
1 x 13mm GTEK™ Total Plus	1 x 13mm GTEK™ Total Plus	60/60/60	GTEK-PR25008	111
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	60/60/60	GTEK-PR25009	111
1 x 13mm GTEK™ Fire and Wet Area	1 x 13mm GTEK™ Fire and Wet Area	60/60/60	GTEK-PR25010	112
2 x 10mm GTEK™ Wall	2 x 10mm GTEK™ Wall	60/60/60	GTEK-PR25011	112
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	60/60/60	GTEK-PR25012	112
1 x 10mm GTEK™ Sound 1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Sound 1 x 10mm GTEK™ Wall	60/60/60	GTEK-PR25013	113
1 x 10mm GTEK™ Wet Area 1 x 6mm BGC Duraliner™ Plus	1 x 10mm GTEK™ Wet Area 1 x 6mm BGC Duraliner™ Plus	60/60/60	GTEK-PR25014	113
2 x 13mm GTEK™ Wall	2 x 13mm GTEK™ Wall	60/60/60	GTEK-PR25015	113

QUICK REFERENCE GUIDE

GTEK™ PROTECT INTERTENANCY - SLAB TO SLAB - CLASS 2 - 9 BUILDINGS

SIDE 1	SIDE 2	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wet Area	1 x 10mm GTEK™ Wet Area	-/60/60	GTEK-S2SPR25001	114
1 x 10mm GTEK™ Sound	1 x 10mm GTEK™ Sound	-/60/60	GTEK-S2SPR25002	114
1 x 13mm GTEK™ Wet Area	1 x 13mm GTEK™ Wet Area	-/60/60	GTEK-S2SPR25003	114
1 x 13mm GTEK™ Wall	1 x 13mm GTEK™ Wall	-/60/60	GTEK-S2SPR25004	115
1 x 13mm GTEK™ Fire	1 x 13mm GTEK™ Fire	-/60/60	GTEK-S2SPR25006	115
1 x 13mm GTEK™ Sound	1 x 13mm GTEK™ Sound	-/60/60	GTEK-S2SPR25007	115
1 x 13mm GTEK™ Total Plus	1 x 13mm GTEK™ Total Plus	-/60/60	GTEK-S2SPR25008	116
1 x 16mm GTEK™ Fire	1 x 16mm GTEK™ Fire	-/60/60	GTEK-S2SPR25009	116
1 x 13mm GTEK™ Fire and Wet Area	1 x 13mm GTEK™ Fire and Wet Area	-/60/60	GTEK-S2SPR25010	116
2 x 10mm GTEK™ Wall	2 x 10mm GTEK™ Wall	-/60/60	GTEK-S2SPR25011	117
1 x 9mm BGC Duraliner™ Plus	1 x 9mm BGC Duraliner™ Plus	-/60/60	GTEK-S2SPR25012	117
1 x 10mm GTEK™ Sound 1 x 10mm GTEK™ Wall	1 x 10mm GTEK™ Sound 1 x 10mm GTEK™ Wall	-/60/60	GTEK-S2SPR25013	117
1 x 10mm GTEK™ Wet Area 1 x 6mm BGC Duraliner™ Plus	1 x 10mm GTEK™ Wet Area 1 x 6mm BGC Duraliner™ Plus	-/60/60	GTEK-S2SPR25014	118
2 x 13mm GTEK™ Wall	2 x 13mm GTEK™ Wall	-/60/60	GTEK-S2SPR25015	118

QUICK REFERENCE GUIDE

FLOOR/CEILING – TIMBER OR STEEL JOISTS

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 13mm GTEK™ Wall	-/-/	GTEK-C001	119
2 x 13mm GTEK™ Wall	-/-/	GTEK-C002	119
1 x 10mm GTEK™ Ceiling	-/-/	GTEK-C003	119
2 x 10mm GTEK™ Sound	-/-/	GTEK-C004	120
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C005	120
1 x 16mm GTEK™ Fire	30/30/30	GTEK-C018	120
2 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C006	121
3 x 16mm GTEK™ Fire	120/120/120 RISF 120	GTEK-C007	121

FLOOR/CEILING – TIMBER OR STEEL JOISTS WITH FURRING CHANNELS

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Ceiling	-/-/	GTEK-C010	122
1 x 13mm GTEK™ Wall	-/-/	GTEK-C011	122
1 x 6mm BGC Duraliner™ Plus (furring channel at 450 max centres)	-/-/	GTEK-C012	122
1 x 9mm BGC Duraliner™ Plus	-/-/	GTEK-C013	123
2 x 13mm GTEK™ Fire	60/60/60	GTEK-C014	123
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C015	123
2 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C016	124
3 x 16mm GTEK™ Fire	120/120/120 RISF 120	GTEK-C017	124

FLOOR/CEILING – TIMBER OR STEEL JOISTS WITH FURRING CHANNELS & RESILIENT MOUNTS

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 13mm GTEK™ Wall	-/-/	GTEK-C020	125
1 x 10mm GTEK™ Sound	-/-/	GTEK-C021	125
2 x 10mm GTEK™ Sound	-/-/	GTEK-C022	125
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C023	126
2 x 16mm GTEK™ Fire	60/60/60 RISF 60	GTEK-C024	126
3 x 16mm GTEK™ Fire	90/90/90 RISF 120	GTEK-C025	126

QUICK REFERENCE GUIDE

ROOF/CEILING – TIMBER TRUSSES

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Sound	-/-/-	GTEK-C030	127
2 x 10mm GTEK™ Sound	-/-/-	GTEK-C031	127
1 x 13mm GTEK™ Wall	-/-/-	GTEK-C032	127
1 x 13mm GTEK™ Sound	-/-/-	GTEK-C033	128
2 x 13mm GTEK™ Fire	60/60/60	GTEK-C037	128
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90 RISF 60	GTEK-C034	128
2 x 16mm GTEK™ Fire	RISF 60 90/90/90	GTEK-C035	129
3 x 16mm GTEK™ Fire	120/120/120 RISF 120	GTEK-C036	129

ROOF/CEILING – TIMBER TRUSSES WITH FURRING CHANNELS

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Wall	-/-/-	GTEK-C040	130
1 x 10mm GTEK™ Sound	-/-/-	GTEK-C041	130
1 x 13mm GTEK™ Sound	-/-/-	GTEK-C042	130
1 x 6mm BGC Duraliner™ Plus (furring channels at 450mm max centres)	-/-/-	GTEK-C043	131
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90	GTEK-C044	131
2 x 16mm GTEK™ Fire	90/90/90	GTEK-C045	131
3 x 16mm GTEK™ Fire	120/120/120	GTEK-C046	132

ROOF/CEILING – TIMBER TRUSSES WITH FURRING CHANNELS & RESILIAN T MOUNTS

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 10mm GTEK™ Sound	-/-/-	GTEK-C050	133
2 x 10mm GTEK™ Sound	-/-/-	GTEK-C051	133
1 x 13mm GTEK™ Fire (against frame) 1 x 16mm GTEK™ Fire	90/90/90	GTEK-C052	133
2 x 16mm GTEK™ Fire	RISF 60 90/90/90	GTEK-C053	134
3 x 16mm GTEK™ Fire	120/120/120	GTEK-C054	134

COLUMN OR BEAM - TIMBER

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 13mm GTEK™ Fire	30/-/-	GTEK-CB01	137
2 x 13mm GTEK™ Fire	60/-/-	GTEK-CB02	137
2 x 16mm GTEK™ Fire	90/-/-	GTEK-CB03	137
3 x 13mm GTEK™ Fire	90/-/-	GTEK-CB04	137
3 x 16mm GTEK™ Fire	120/-/-	GTEK-CB05	137
4 x 16mm GTEK™ Fire	180/-/-	GTEK-CB06	137

QUICK REFERENCE GUIDE

COLUMN OR BEAM - STEEL

CEILING LINING	FRL	SYSTEM NUMBER	PAGE NO.
1 x 13mm GTEK™ Fire	30/-/-	GTEK-CB07	138
2 x 13mm GTEK™ Fire	60/-/-	GTEK-CB08	138
2 x 16mm GTEK™ Fire	90/-/-	GTEK-CB09	138
3 x 16mm GTEK™ Fire	120/-/-	GTEK-CB10	138
4 x 16mm GTEK™ Fire	180/-/-	GTEK-CB11	138

QUICK REFERENCE GUIDE

STRUCTURE OF WALLS & CEILINGS

STRUCTURE

STEEL FRAME DESIGN

AS 1170, Structural design actions – General principles defines the loads that steel framed walls are subjected to. Steel framed wall and ceiling systems must be designed according to the relevant standard:

- ▶ AS 4100, Steel Structures
- ▶ AS/NZS 4600, Cold Formed Steel Structures
- ▶ AS 3623, Domestic Metal Framing
- ▶ AS/NZS 2785, Suspended Ceilings.

INTERIOR WALLS AND CEILINGS

All interior wall systems and wall height tables published in this Guide comply with the relevant section of NCC Specification C1.8.

- ▶ Height tables for non-fire rated walls have been calculated by Rondo Building Services.

As a minimum, all interior wall systems published in this Guide comply with the deflection under Uniformly Distributed Load (UDL) requirements from BCA Specification C1.8. That is, the allowable deflection under a static pressure of 0.25kPa must be less than either:

- ▶ Wall height ÷ 240, or
- ▶ 30mm.

Some applications have additional requirements such as the walls of shafts and fire isolated exits. Unusually strong wind loading conditions such as those experienced in tall buildings may require interior walls and ceilings to be designed to higher pressures than the standard 0.25kPa. (Refer to NCC)

- ▶ Ensure fasteners used to fix top and bottom track are appropriate for the Uniform Distributed Loads (UDL) on walls.
- ▶ At 600mm fastener centres and a UDL of 0.25kPa, the fasteners must withstand a shear load of 0.75kN.
- ▶ At 600mm fastener centres and a UDL of 0.35kPa, the fasteners must withstand a shear load of 1.1kN.

EXTERIOR WALLS AND CEILINGS

Frame design of exterior wall systems must consider:

- ▶ Local environmental loading conditions (Refer to AS 1170, Structural Design Actions – General Principles)
- ▶ Applied vertical load on the studs.

CONTROL JOINTS

Control joints allow for any building movement resulting from influences such as moisture migration, loading, structural movement and foundation settlement. Cracks in plasterboard and plasterboard joints can be eliminated by using control joints and the correct installation techniques. Control joints must be installed in plasterboard walls and ceilings at:

- ▶ Maximum 12 metre intervals
- ▶ Control joints in the structure
- ▶ Any change in the substrate material.

Distance between control joints may need to be reduced to less than 12 metres due to conditions such as large temperature or humidity variations.

STRUCTURE OF WALLS & CEILINGS

TIMBER STUD HEIGHTS		STUD THICKNESS	STUD SPACING	
STUD DEPTH	TIMBER GRADE		600MM	450MM
MAX WALL HEIGHT (M)				
70mm	F5	35mm	3.1	3.4
		45mm	3.4	3.7
	F8	35mm	3.4	3.8
		45mm	3.7	4.1
	F11	35mm	3.6	3.9
		45mm	3.9	4.3
90mm	F5	35mm	4.0	4.4
		45mm	4.4	4.8
	F8	35mm	4.4	4.9
		45mm	4.8	5.2
	F11	35mm	4.6	5.1
		45mm	4.8	5.4
120mm	F5	35mm	5.4	5.8
		45mm	5.8	5.9
	F8	35mm	5.9	6.0
		45mm	6.0	6.0
	F11	35mm	6.0	6.0
		45mm	6.0	6.0

Noggings in timber stud walls must be spaced at 1350mm max centres and must not protrude past the wall framing surface

SCREW FIXINGS FOR SOFT WOOD TIMBER AND LIGHTWEIGHT STEEL FRAMING			SCREW LENGTH		
FRAMING	GTEK™ FIRE THICKNESS	SCREW TYPE	1ST LAYER	2ND LAYER	3RD LAYER
Soft Wood Timber	13mm	No.6 Type 'W'	32mm	50mm	65mm
	16mm	No.6 Type 'W'	45mm	65mm	75mm
Lightweight Steel up to 0.8mm thick	13mm	No.6 Type 'S' Needle Point	25mm	45mm	50mm
	16mm	No.6 Type 'S' Needle Point	30mm	45mm	65mm
Lightweight Steel from 0.8mm to 1.6mm thick	13mm	No.6 Type 'D' Drill Point	32mm	45mm	65mm
	16mm	No.6 Type 'D' Drill Point	32mm	45mm	65mm

STEEL STUD HEIGHTS – NON LOAD BEARING WALLS

Table 1: 0.25kPa - NON LOAD BEARING WALLS

WALL FRAME AND LINING CONFIGURATION	STUD SIZE	51		64			76			92			150	
	BMT	0.5	0.75	0.5	0.75	1.15	0.55	0.75	1.15	0.55	0.75	1.15	0.75	1.15
	LININGS (MM)	MAXIMUM WALL HEIGHT (mm)												
600mm CENTRES LINED BOTH SIDES	10	2770	2910	3330	3920	4160	3710	4420	4650	4550	4830	5110	*6600	*7230
	13	3200	3320	3720	4210	4420	4140	5010	5220	4950	5500	5750	7030	7530
	16	3380	3520	3910	4340	4510	4300	5250	5420	5190	5710	5930	7220	7650
	(-/180/180)													
600mm CENTRES ONE SIDE	10	2310	2620	2720	3130	3520	3230	3590	4060	3740	4160	4710	5300	*6800
	13	2310	2620	2720	3240	3570	3260	3830	4060	3740	4210	4710	5300	6800
	16	2310	2620	2750	3270	3590	3260	3880	4060	3740	4220	4710	5290	6800
STAGGERED STUDS	10			2230	2740	3300								
BOXED STAGGERED STUDS	10			2710	3360	4160								

Table 2: 0.35kPa - NON LOAD BEARING WALLS

WALL FRAME AND LINING CONFIGURATION	STUD SIZE	51		64			76			92			150	
	BMT	0.5	0.75	0.5	0.75	1.15	0.55	0.75	1.15	0.55	0.75	1.15	0.75	1.15
	LININGS (MM)	MAXIMUM WALL HEIGHT (mm)												
600mm CENTRES LINED BOTH SIDES	10	2420	2550	2930	3480	3700	3260	*3880	*4090	*4030	*4220	*4480	*5840	*6420
	13	2810	2920	3290	3740	3930	3650	4420	4600	4400	4840	5060	*6250	*6780
	16	3000	3120	3450	3830	3990	3790	4610	4770	4610	5010	5200	6410	6910
	(-/180/180)													
600mm CENTRES ONE SIDE	10	2070	2340	2430	2800	3150	2890	3210	3630	3340	3720	*4210	*4790	*6210
	13	2070	2340	2430	2880	3170	2890	3380	3630	3340	3720	4210	4790	*6210
	16	2070	2340	2430	2900	3180	2890	3420	3630	3340	3720	4210	4780	6210
STAGGERED STUDS	10			2020	2470	2960								
BOXED STAGGERED STUDS	10			2490	3040	3710								

Table 3: NOGGING REQUIREMENTS

LINING CONFIGURATION	WALL HEIGHT	NO. OF NOGGINGS
LINED BOTH SIDES	0 - 4400	0
	4400 - 8800	1
LINED ONE SIDE	0 - 3000	1
	3000 - 6000	2
	6000 - 8000	3
STAGGERED STUDS	All	0

Table 4: WALL HEIGHT LIMITS BASED ON WALL LININGS

LINING CONFIGURATION	WALL HEIGHT	MAX WALL HEIGHTS	
		0.25kPa	0.35kPa
LINED BOTH SIDES	1 x 10mm	5330	3800
	1 x 13mm	8000	5710
	1 x 16mm	12000	8570
LINED ONE SIDE	0.50/0.55BMT	5330	3800
	1 x 10mm	5330	3800
	1 x 13mm	8000	5710
	1 x 16mm	10000	7140
STAGGERED STUDS	1 x 10mm	5330	3800

Notes to Tables: Information provided by Rondo Building Services and as such the performances detailed are limited to the Rondo range of products. Deflection limited to the lesser of H/240 or 30mm, in accordance with the BCA Specification C1.8

All walls are non load bearing, except for self weight

Table 1 loadings: Pultimate = 0.375kPa, Pservice = 0.25kPa

Table 2 loadings: Pultimate = 0.525kPa, Pservice = 0.35kPa

All loadings in accordance with AS1170:2002

Walls analysed in accordance with AS/NZS4600 / Noggings are to be installed as per Table 3

Staggered stud walls have been checked based on zero noggings, and assumed 92mm tracks

Tables have been prepared by Rondo Building Services Pty Ltd / The design pressures are not suitable for external wall applications

The wall heights assume the stud and track sections are of the same, or similar, gauge /

Wall heights do not consider connection capacity, which should be checked as per Table 4 / *Green highlights indicate wall height may be limited by plasterboard linings

BGC Plasterboard is dedicated to quality, offering a range GECA Licensed GTEK™ products. The GECA license ensures adherence to specific criteria and ongoing commitment to maintaining the standards.



BGC Plasterboard is committed to continuing to enhance their products and operations. This commitment extends to the community and its interests. Select GECA licensed GTEK™ products to contribute to the creation of your next home or project with exceptional standards.

Our range of GTEK™ plasterboard products contains recycled gypsum and uses at least 80% recycled paper lining front and back.

Through strict quality control systems, production waste is minimised, and wastage is recycled back into new plasterboard.

Good Environmental Choice Australia is an environmental labelling program which aims to provide consumers with the knowledge that the product they are purchasing has met certain environmental performance standards which

have been developed and assessed in line with international labelling standards.

Scientifically recognised benchmarks for environmental performance have been developed against which products and services are assessed and evaluated to determine whether the product or service should be awarded the Good Environmental Choice Label. GECA licensing is recognised by the Green Building Council of Australia and may assist in achieving up to 3 Green Star points.

GTEK™ products conform to the requirements outlined by GECA in accordance with AS/NZS2588 and ASTM-D5116 for recycled content and emissions. Additionally, our products adhere to other relevant legislative standards.

We're proud to wear the Good Environmental Choice label, it shows our products and manufacturing environment comply with GECA's strict guidelines.



EXTERIOR WALLS/BUSHFIRE INFORMATION

BOUNDARY/EXTERIOR WALLS

Certain BGC Fibre Cement products when used in conjunction with 16mm GTEK™ Fire & Wet Area can achieve both 60/60/60 and 90/90/90 FRL (Fire Resistance Level) fire ratings from the outside as required by the National Construction Code.

Where an exterior wall is required to achieve 60/60/60 FRL from the outside, 1 layer of 16mm Wet Area Fireboard installed with certain BGC Fibre Cement products over the Wet Area Fireboard will meet minimum National Construction Code requirements.

Similarly 2 layers of 16mm GTEK™ Fire & Wet Area used in conjunction with certain BGC Fibre Cement products will achieve 90/90/90 from the outside.

There are 11 BGC Fibre Cement products that can be used in conjunction with 16mm GTEK™ Fire & Wet Area to achieve the fire ratings required for boundary/exterior walls. These are:

- ▶ 7.5mm Duratex™
- ▶ 9mm Duragrid™
- ▶ 9mm Duracom™
- ▶ 9mm Durascape™
- ▶ 9mm Duragroove™
- ▶ 14mm Nuline™ Plus
- ▶ 12mm Stratum™
- ▶ 12mm Stratum™ Duo
- ▶ 12mm Stratum™ Trio
- ▶ 10mm Stratum™ Contour

NOTE: All exterior walls must have sarking beneath the BGC Fibre Cement products. No adhesives are to be used when installing GTEK™ Fire & Wet Area and the BGC Fibre Cement products. Nails or screws must be used.

BUSHFIRE INFORMATION

AS3959 sets out a series of Bushfire threat levels to buildings described as BAL (Bushfire Attack Levels) as follows:

BAL-Low, BAL-12.5, BAL-19, BAL-29, BAL-40 or BAL-FZ (Flamezone).

BGC Fibre Cement and GTEK™ products are eminently suited for both bushfire and boundary wall applications in residential and multi residential buildings when used correctly.

The chart on the next pages shows the different BAL levels that different BGC Fibre Cement and GTEK™ products can achieve if installed correctly.

For detailed Fire and Acoustic results as well as fixing sketches for different products, please see the Exterior Wall pages in the Fire and Acoustic Data section of this guide on pages 85-98.

BUSHFIRE MATRIX

APPLICATIONS	BAL 12.5	BAL 19	BAL 29	BAL 40	BAL FZ>10m	BAL FZ <10m
Materials to enclose subfloor spaces to buildings	Durasheet™ 4.5mm	Durasheet™ 4.5mm	Durasheet™ 6mm	Duracom™ 9mm		
	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 9mm	Duracom™ 12mm		
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 12mm	Duratex™ 9mm		
	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 7.5mm	Durascape™ 9mm		
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm		
	Duratex™ 9mm	Duratex™ 9mm	Duraplank™ 7.5mm	Nuline™ Plus 14mm		
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Durascape™ 9mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
	Durascape™ 9mm	Durascape™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Stratum™ Contour 10mm		
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Nuline™ Plus 14mm			
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm			
External walls (parts less than 400mm from ground or near horizontal surface (<18° to horizontal) and >110mm in width from wall)	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™ Contour 10mm			
	Stratum™ Contour 10mm	Stratum™ Contour 10mm	Durasheet™ 6mm			
			Duracom™ 9mm			
	Durasheet™ 6mm	Durasheet™ 6mm		Duracom™ 9mm	BGC system - T051	
	Duracom™ 9mm	Duracom™ 9mm		Duracom™ 12mm	Exposed side	
	Duracom™ 12mm	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 9mm	7.5mm Duratex™ or 9mm Duragrid™ or 9mm/12mm Duracom™ or 9mm Durascape™ or 9mm Duragroove™ or 14mm Nuline™ Plus or 10mm Straum™ Contour or 12mm Stratum™, Stratum™ Duo, Stratum™ Trio	
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 7.5mm	Durascape™ 9mm	16mm GTEK™ Fire & Wet Area	
	Duratex™ 9mm	Duratex™ 9mm	Duratex™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Unexposed Side	
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Nuline™ Plus 14mm	10mm GTEK™ Wall	
	Durascape™ 9mm	Durascape™ 9mm	Durascape™ 9mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
External walls (other)	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Stratum™ Contour 10mm		
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Nuline™ Plus 14mm			
	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm			
	Stratum™ Contour 10mm	Stratum™ Contour 10mm	Stratum™ Contour 10mm			
	Durasheet™ 4.5mm	Durasheet™ 4.5mm	Durasheet™ 6mm	Duracom™ 9mm	BGC system - T051	
	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 9mm	Duracom™ 12mm	Exposed side	
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 12mm	Duratex™ 9mm	7.5mm Duratex™ or 9mm Duragrid™ or 9mm/12mm Duracom™ or 9mm Durascape™ or 9mm Duragroove™ or 14mm Nuline™ Plus	
	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 7.5mm	Nuline™ Plus 14mm	16mm GTEK™ Fire & Wet Area	
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 9mm	Durascape™ 9mm	Unexposed Side	
	Duratex™ 9mm	Duratex™ 9mm	Duraplank™ 7.5mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	10mm GTEK™ Wall	
External walls (other)	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Durascape™ 9mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
	Durascape™ 9mm	Durascape™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Stratum™ Contour 10mm		
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Nuline™ Plus 14mm			
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm			
	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™ Contour 10mm			
	Stratum™ Contour 10mm	Stratum™ Contour 10mm				



BUSHFIRE MATRIX

APPLICATIONS	BAL 12.5	BAL 19	BAL 29	BAL 40	BAL FZ>10m	BAL FZ <10m
Eaves lining	Durasheet™ 4.5mm	Durasheet™ 4.5mm	Durasheet™ 4.5mm	Durasheet™ 6mm		
	Durasheet™ 6mm	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 9mm		
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 12mm		
	Duracom™ 12mm	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 7.5mm		
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 9mm		
	Duratex™ 9mm	Duratex™ 9mm	Duratex™ 9mm	Duraplank™ 7.5mm		
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Durascape™ 9mm		
	Durascape™ 9mm	Durascape™ 9mm	Durascape™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm		
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Nuline™ Plus 14mm		
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
Fascias and bargeboards	Durasheet™ 4.5mm	Durasheet™ 4.5mm				
	Durasheet™ 6mm	Durasheet™ 6mm				
	Duracom™ 9mm	Duracom™ 9mm				
	Duracom™ 12mm	Duracom™ 12mm				
	Duratex™ 7.5mm	Duratex™ 7.5mm				
	Duratex™ 9mm	Duratex™ 9mm				
	Duraplank™ 7.5mm	Duraplank™ 7.5mm				
	Durascape™ 9mm	Durascape™ 9mm				
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm				
	Nuline™ Plus 14mm	Nuline™ Plus 14mm				
Gables (parts less than 400mm from ground or near horizontal surface (<18° to horizontal) and >110mm in width from wall)	Durasheet™ 6mm	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 9mm		
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 12mm		
	Duracom™ 12mm	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 9mm		
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 7.5mm	Durascape™ 9mm		
	Duratex™ 9mm	Duratex™ 9mm	Duratex™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm		
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Nuline™ Plus 14mm		
	Durascape™ 9mm	Durascape™ 9mm	Durascape™ 9mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Stratum™ Contour 10mm		
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Nuline™ Plus 14mm			
	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm			
Gables (other)	Durasheet™ 4.5mm	Durasheet™ 4.5mm	Durasheet™ 6mm	Duracom™ 9mm		
	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 9mm	Duracom™ 12mm		
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 12mm	Duratex™ 9mm		
	Duracom™ 12mm	Duracom™ 12mm	Duratex™ 7.5mm	Durascape™ 9mm		
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm		
	Duratex™ 9mm	Duratex™ 9mm	Duraplank™ 7.5mm	Nuline™ Plus 14mm		
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Durascape™ 9mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
	Durascape™ 9.0mm	Durascape™ 9.0mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Stratum™ Contour 10mm		
	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Duragroove™ Narrow, Wide, Extra Wide and Woodgrain 9mm	Nuline™ Plus 14mm			
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm			
Materials to enclose subfloor spaces of verandas, decks steps, ramps and landings	Durasheet™ 4.5mm (over 400mm)	Durasheet™ 4.5mm (over 400mm)	Durasheet™ 4.5mm (over 400mm)	Duracom™ 9mm		
	Durasheet™ 6mm	Durasheet™ 6mm	Durasheet™ 6mm	Duracom™ 12mm		
	Duracom™ 9mm	Duracom™ 9mm	Duracom™ 9mm	Duratex™ 9mm		
	Duracom™ 12mm	Duracom™ 12mm	Duracom™ 12mm	Durascape™ 9mm		
	Duratex™ 7.5mm	Duratex™ 7.5mm	Duratex™ 7.5mm	Duragroove™ 9mm		
	Duratex™ 9mm	Duratex™ 9mm	Duratex™ 9mm	Nuline™ Plus 14mm		
	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Duraplank™ 7.5mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm		
	Durascape™ 9mm	Durascape™ 9mm	Durascape™ 9mm	Stratum™ Contour 10mm		
	Duragroove™ 9mm	Duragroove™ 9mm	Duragroove™ 9mm			
	Nuline™ Plus 14mm	Nuline™ Plus 14mm	Nuline™ Plus 14mm			
Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm	Stratum™, Stratum™ Duo and Stratum™ Trio 12mm				
Stratum™ Contour 10mm	Stratum™ Contour 10mm	Stratum™ Contour 10mm				