

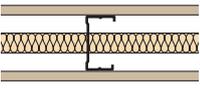
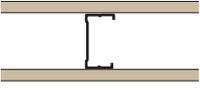
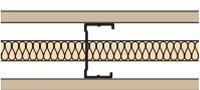
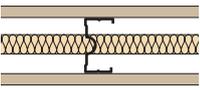
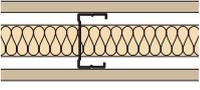
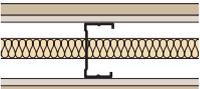
PARTITIONS

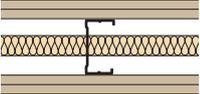
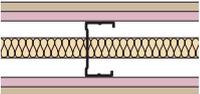
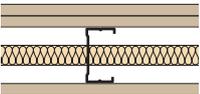
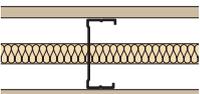
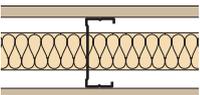
The GTEC range of metal stud profiles provides system solutions for most building projects. Combining the right GTEC plasterboard, fixings, frame and finishing products, gives partition solutions up to the most demanding levels of fire, acoustic and thermal performance.

System Performance Tables

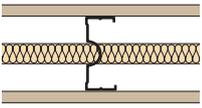
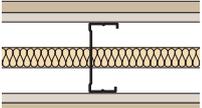
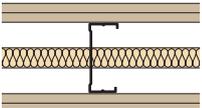
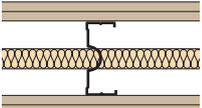
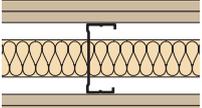
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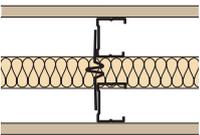
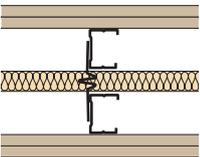
LADURA PARTITION SYSTEMS

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
LDP 008: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	27	3.7	95	30 30	Severe	48
LDP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	33	4.0	100	60 60	Severe	41
LDP 003: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	33	4.0	100	60 60	Severe	49
ADP 003: Acoustic Stud Partition – see p68							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC AS70Rx Acoustic C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	33	3.8	100	60 60	Severe	51
LDP 004: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	33	4.0	100	60 60	Severe	50
LDP 050: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 9.5mm GTEC Standard Board Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	45	4.6	120	60 60	Severe	56

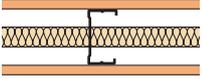
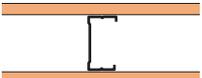
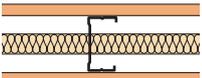
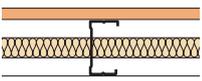
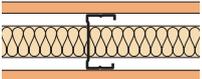
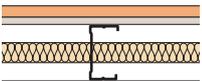
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
LDP 011: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm LaDura Board Facing Outer Layer(s): 1x 12.5mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	52	5	120	120 90	Severe	56
LDP 011F: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	52	5	120	120 90	Severe	56
LDP 024: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm LaDura Board Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	64	5.6	130	120 90	Severe	57, -8 Ctr
LDP 128: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	33	5.0	120	60 60	Severe	50
LDP 138: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	33	5.0	120	60 60	Severe	51

LADURA PARTITION SYSTEMS continued

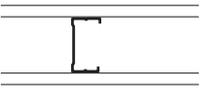
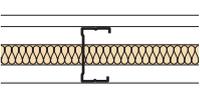
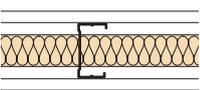
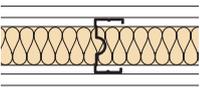
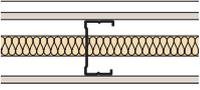
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
ADP 138: Acoustic Stud Partition – see p68							
	Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC AS90Rx Acoustic C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	33	4.7	120	60 60	Severe	52
LDP 086: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	52	6.2	145	60 60	Severe	56
LDP 130: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm LaDura Board Facing Outer Layer(s): 1x 12.5mm LaDura Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	52	6.4	140	120 90	Severe	60, -6 Ctr
ADP 130: Acoustic Stud Partition – see p68							
	Facing Inner Layer(s): 1x 12.5mm LaDura Board Facing Outer Layer(s): 1x 12.5mm LaDura Board Studs: Single GTEC AS90Rx Acoustic C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	52	6.4	140	120 90	Severe	61, -8 Ctr
LDP 140: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm LaDura Board Facing Outer Layer(s): 1x 15mm LaDura Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	64	7.2	150	120 90	Severe	59, -5 Ctr

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
LDP 013: Twin Frame Partition – see p82							
	<p>Facing Outer Layer(s): 1x 15mm LaDura Board</p> <p>Studs: Twin GTEC CS50Rx C Studs at 600mm centres</p> <p>Insulation: 50mm 16kg/m³ glass mineral wool</p> <p>Accessories: GTEC V-Brace at 1500mm centres</p>	33	5.0	170	60 60	Severe	56
LDP 038: Twin Frame Partition – see p82							
	<p>Facing Inner Layer(s): 1x 15mm LaDura Board</p> <p>Facing Outer Layer(s): 1x 15mm LaDura Board</p> <p>Studs: Twin GTEC CS50Rx C Studs at 600mm centres</p> <p>Insulation: 25mm 16kg/m³ glass mineral wool</p> <p>Accessories: GTEC V-Brace at 1500mm centres</p>	64	6.4	200	90 90	Severe	65, -8 Ctr

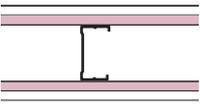
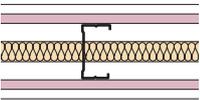
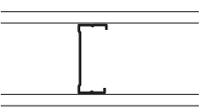
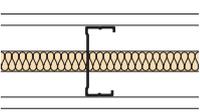
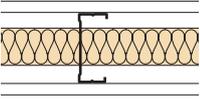
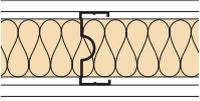
AQUA BOARD PARTITION SYSTEMS

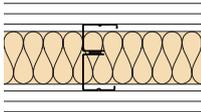
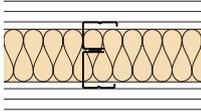
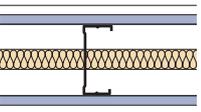
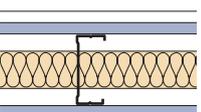
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RAP 004: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm Aqua Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	23	3.2	95	30 30	Medium	46
RAP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Aqua Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	28	3.6	100	60 60	Severe	40
RAP 003: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Aqua Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	28	3.6	100	60 60	Severe	46
RMAP 003: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Aqua Board, 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	28	3.6	100	60 60	Severe	46
RAP 044: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Aqua Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	28	3.6	100	60 60	Severe	47
RMAP 050: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 9.5mm GTEC Standard Board Facing Outer Layer(s): 1x 15mm Aqua Board, 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	44	4.4	120	60 60	Severe	56

MEGADECO PARTITION SYSTEMS

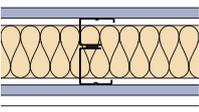
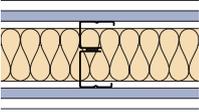
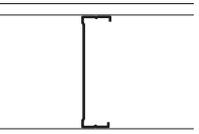
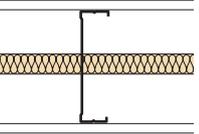
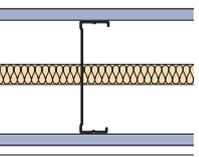
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RMP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	27	3.8	100	60 60	Severe	40
RMP 003: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	27	3.8	100	60 60	Severe	49
RMP 004: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	27	3.8	100	60 60	Severe	50
AMP 004: Acoustic Stud Partition – see p68							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC AS70Rx Acoustic C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	30	3.65	100	60 60	Severe	48
RMP 050: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 9.5mm GTEC Standard Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	40	4.6	120	60 60	Severe	56

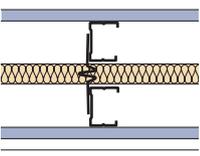
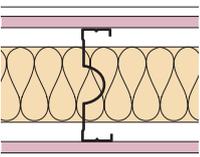
MEGADECO PARTITION SYSTEMS continued

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RMP 009: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	43	4.6	120	120 120	Severe	52
RMP 011: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm Megadeco Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	44	4.6	120	120 120	Severe	56
RMP 127: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: – Accessories: –	27	4.6	120	60 60	Severe	42
RMP 128: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	27	4.6	120	60 60	Severe	50
RMP 138: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	27	4.6	120	60 60	Severe	51
AMP 138: Acoustic Stud Partition – see p68							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC AS90Rx Acoustic C Studs at 600mm centres Insulation: 75mm 16kg/m ³ glass mineral wool Accessories: –	31	4.35	120	60 60	Severe	52

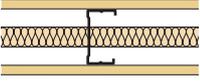
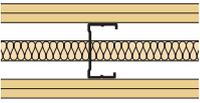
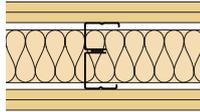
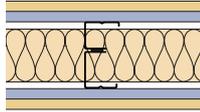
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
QMP 432: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm Megadeco Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: RAS 70/P at 600mm centres Insulation: 50mm 10kg/m ³ glass mineral wool Accessories: –	53	3.9	130	120 120	Severe	58 -7 Ctr
QMP 452: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm Megadeco Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: RAS 90/P at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: –	54	4.2	150	120 120	Severe	59 -6 Ctr
RMP 130: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC dB Board Facing Outer Layer(s): 1x 12.5mm Megadeco Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	45	5.8	140	90 90	Severe	56, -9 Ctr
RMP 140: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	54	6.5	150	90 90	Severe	58, -8 Ctr

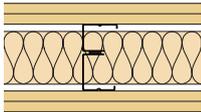
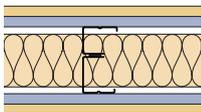
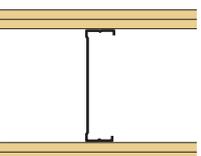
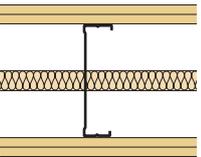
MEGADECO PARTITION SYSTEMS continued

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
QMP 436: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: RAS 70/P at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	53	3.9	130	120 120	Severe	58 -7 Ctr
QMP 456: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: RAS 90/P at 600mm centres Insulation: 100mm 16kg/m ³ glass mineral wool Accessories: –	54	4.2	150	120 120	Severe	59 -6 Ctr
RMP 062: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS146Y C Studs at 600mm centres Insulation: – Accessories: –	29	8.8	176	60 60	Severe	42
RMP 075: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	28	7.3	176	60 60	Severe	52
RMP 017: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm Megadeco Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	57	8.9	206	90 90	Severe	59, -7 Ctr

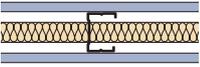
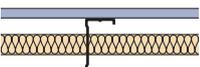
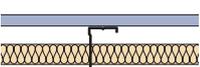
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RMP 038: C Stud Partition – see p46							
	<p>Facing Inner Layer(s): 1x 15mm GTEC dB Board</p> <p>Facing Outer Layer(s): 1x 15mm Megadeco Board</p> <p>Studs: Twin GTEC CS50Rx C Studs at 600mm centres</p> <p>Insulation: 25mm 16kg/m³ glass mineral wool</p> <p>Accessories: GTEC V-Brace at 1500mm centres</p>	55	5.3	200	120 90	Severe	63 -8 Ctr
AMP 017: Acoustic Stud Partition – see p68							
	<p>Facing Inner Layer(s): 1x 15mm GTEC Fire Board</p> <p>Facing Outer Layer(s): 1x 15mm Megadeco Board</p> <p>Studs: Single GTEC AS146Rx C Studs at 600mm centres</p> <p>Insulation: 100mm 10kg/m³ glass mineral wool</p> <p>Accessories: –</p>	54	7.35	206	120 120	Severe	61 -6 Ctr

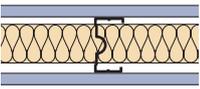
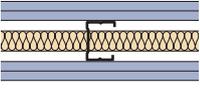
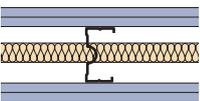
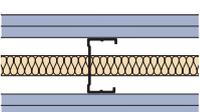
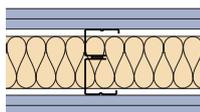
GTEC UNIVERSAL BOARD PARTITION SYSTEMS

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RUP 055: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC Universal Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	24	3.5	95	60 60	Heavy	45
RUP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC Universal Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	27	3.8	100	60 60	Severe	40
RUP 048: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Universal Board Facing Outer Layer(s): 1x 12.5mm GTEC Universal Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	46	4.6	120	120 120	Severe	55
QUP 432: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC Universal Board Facing Outer Layer(s): 1x 15mm GTEC Universal Board Studs: RAS 70/P at 600mm centres Insulation: 50mm 10kg/m ³ glass mineral wool Accessories: –	53	3.9	130	120 120	Severe	58 -7 Ctr
QUP 436: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC Universal Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: RAS 70/P at 600mm centres Insulation: 50mm 10kg/m ³ glass mineral wool Accessories: –	53	3.9	130	120 120	Severe	58 -7 Ctr

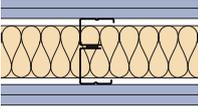
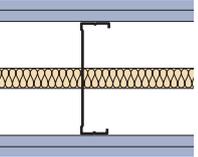
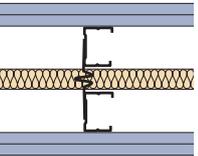
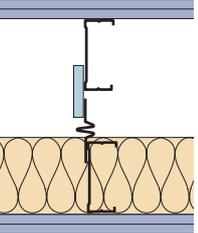
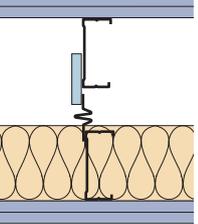
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
QUP 452: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC Universal Board Facing Outer Layer(s): 1x 15mm GTEC Universal Board Studs: RAS 90/P at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: –	54	4.2	150	120 120	Severe	59 -6 Ctr
QUP 456: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC Universal Board Facing Outer Layer(s): 1x 15mm GTEC Universal Board Studs: RAS 90/P at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: –	54	4.2	150	120 120	Severe	59 -6 Ctr
RUP 053: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Universal Board Facing Outer Layer(s): 1x 12.5mm GTEC Universal Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: – Accessories: –	46	8.5	196	120 120	Severe	50
RUP 054: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Universal Board Facing Outer Layer(s): 1x 12.5mm GTEC Universal Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	47	8.5	196	120 120	Severe	58, -7 Ctr

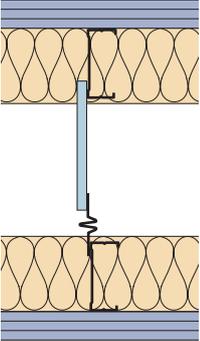
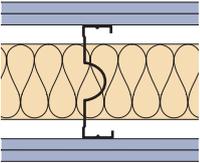
GTEC DB BOARD PARTITION SYSTEMS

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RSP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: – Accessories: –	27	3.0	80	30 30	Heavy	40
RSP 002: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	23	2.75	75	30 30	Medium	44
RSP 006: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	23	3.5	95	30 30	Medium	40
RSP 028: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	23	3.5	95	30 30	Medium	45
RSP 007: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	27	3.75	100	30 30	Heavy	42
RSP 008: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	27	3.75	100	30 30	Heavy	46

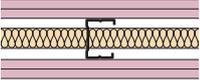
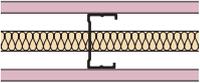
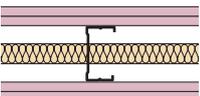
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
ASP 003: Acoustic Stud Partition – see p68							
	Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: GTEC AS70Rx Acoustic C Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	28	3.65	100	30 30	Heavy	49
RSP 027: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC dB Board Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	45	3.6	100	60 60	Severe	53
ASP 011: Acoustic Stud Partition – see p68							
	Facing Inner Layer(s): 1x 12.5mm GTEC dB Board Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: GTEC AS70Rx Acoustic C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	45	4.6	120	60 60	Severe	58, -10 Ctr
RSP 013: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	53	5.1	130	90 90	Severe	56
QSP 432: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: RAS 70/P at 600mm centres Insulation: 50mm 10kg/m ³ glass mineral wool Accessories: –	53	3.9	130	90 90	Severe	58, -7 Ctr

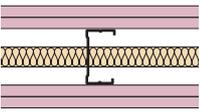
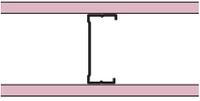
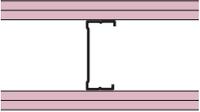
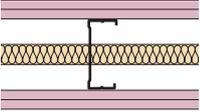
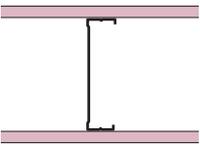
GTEC DB BOARD PARTITION SYSTEMS continued

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
QSP 452: Resilient Acoustic Stud Partition – see p98							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: RAS 90/P at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: –	54	4.2	150	90 90	Severe	59, -6 Ctr
RSP 017: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 10kg/m ³ glass mineral wool Accessories: –	54	8.9	206	90 90	Severe	59, -7 Ctr
RSP 038: Twin Frame Partition – see p82							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Twin GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: GTEC V-Brace at 1500mm centres	54	5.3	200	90 90	Severe	63, -7 Ctr
RSP 022: Twin Frame Partition – see p82							
	Facing Inner Layer(s): 1x 12.5mm GTEC dB Board Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: Twin GTEC CS90W C Studs at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: GTEC V-Brace at 3000mm centres plus extension	52	9.10	295	60 60	Severe	67, -9 Ctr
RSP 023: Twin Frame Partition – see p82							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: Twin GTEC CS90W C Studs at 600mm centres Insulation: 100mm 10kg/m ³ glass mineral wool Accessories: GTEC V-Brace at 3000mm centres plus extension	60	9.10	300	90 90	Severe	69, -9 Ctr

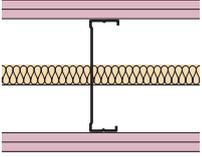
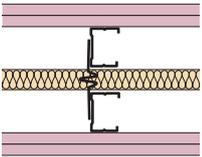
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RSP 037: Twin Frame Partition – see p82							
	<p>Facing Inner Layer(s): 1x 15mm GTEC dB Board</p> <p>Facing Outer Layer(s): 2x 15mm GTEC dB Board</p> <p>Studs: Twin GTEC CS90W C Studs at 600mm centres</p> <p>Insulation: 2x 100mm 10kg/m³ glass mineral wool</p> <p>Accessories: GTEC V-Brace at 3000mm centres plus extension</p>	86	12	400	90 90	Severe	74, -7 Ctr
ASP 017: Acoustic Stud Partition – see p68							
	<p>Facing Inner Layer(s): 1x 15mm GTEC dB Board</p> <p>Facing Outer Layer(s): 1x 15mm GTEC dB Board</p> <p>Studs: Single GTEC AS146Rx C Studs at 600mm centres</p> <p>Insulation: 100mm 10kg/m³ glass mineral wool</p> <p>Accessories: –</p>	55	7.85	206	90 90	Severe	61, -6 Ctr

GTEC FIRE BOARD PARTITION SYSTEMS

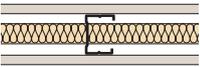
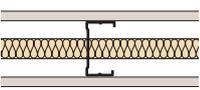
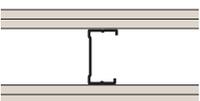
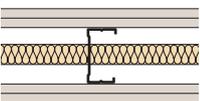
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RFP 016: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	42	3.4	100	120 120	Severe	52
RFP 044: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	26	3.4	100	60 60	Heavy	44
RFP 054: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	42	4.3	120	120 120	Severe	46
RFP 050: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	42	4.3	120	120 120	Severe	53
RFP 045: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC Fire Board Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: – Accessories: –	50	4.5	130	120 120	Severe	48

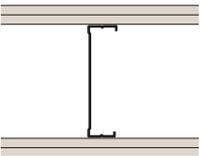
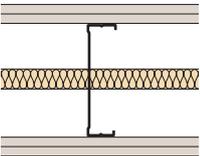
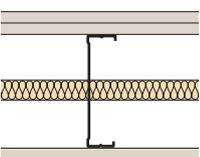
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RFP 046: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC Fire Board Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	51	4.5	130	120 120	Severe	58, -8 Ctr
RFP 127: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: – Accessories: –	26	4.15	120	60 60	Heavy	40
RFP 134: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: None Accessories: –	42	5.3	140	120 120	Severe	48
RFP 135: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS90Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	42	5.3	140	120 120	Severe	56
RFP 062: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: – Accessories: –	26	6.6	176	60 60	Heavy	42

GTEC FIRE BOARD PARTITION SYSTEMS continued

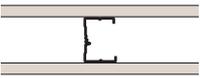
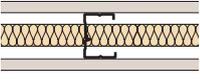
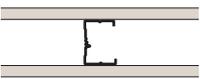
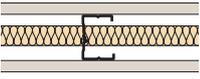
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RFP 076: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Fire Board Facing Outer Layer(s): 1x 12.5mm GTEC Fire Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	43	8.0	196	120 120	Severe	57
RFP 038: Twin Frame Partition – see p82							
	Facing Inner Layer(s): 1x 15mm GTEC Fire Board Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Twin GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: GTEC V-Brace at 1500mm centres	52	4.5	200	120 120	Severe	62 -7 Ctr

GTEC STANDARD BOARD PARTITION SYSTEMS

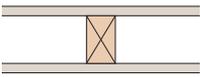
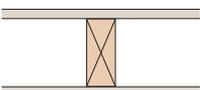
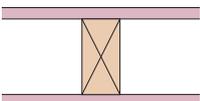
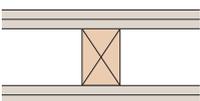
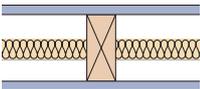
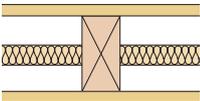
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RCP 001: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: – Accessories: –	17	2.6	75	30 –	Medium	34
RCP 002: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS50Rx C Studs at 600mm centres Insulation: 25mm 33kg/m ³ rock mineral wool Accessories: –	18	2.6	75	30 –	Medium	41
RCP 042: C Stud Partition – see p46							
	Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 33kg/m ³ rock mineral wool Accessories: –	18	3.2	95	30 –	Medium	42
RCP 045: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: None Accessories: –	34	4.05	120	60 60	Severe	45
RCP 046: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS70Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	35	4.05	120	60 60	Severe	49

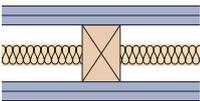
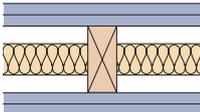
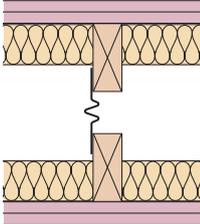
System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
RCP 064: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: None Accessories: –	35	7.6	196	60 60	Severe	48
RCP 067: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	35	7.6	196	60 60	Severe	52
RCP 068: C Stud Partition – see p46							
	Facing Inner Layer(s): 1x 15mm GTEC Standard Board Facing Outer Layer(s): 1x 15mm GTEC Standard Board Studs: Single GTEC CS146Rx C Studs at 600mm centres Insulation: 25mm 33kg/m ³ rock mineral wool Accessories: –	43	8.2	206	60 60	Severe	56

GTEC ACOUSTIC HOMESPAN PARTITION SYSTEMS

System Ref.	Component	System Weight (kg/m ²)	Max. Height (m)	Overall Thickness (mm)	Fire Perf. BS476-22 BS EN 1364-1 (mins)	Strength Duty Rating to BS 5234-2	Acoustic Perf. R _w dB (C _v if applicable)
AHP 001: Acoustic Homespan Partition – see p76							
	Facing Outer Layer(s): 1x 15mm GTEC Acoustic Homespan Board Studs: GTEC AHS44Rx Acoustic Homespan Studs at 450mm centres Insulation: – Accessories: –	28	2.7	74	30 30	Heavy	40
AHP 002: Acoustic Homespan Partition – see p76							
	Facing Outer Layer(s): 1x 15mm GTEC Acoustic Homespan Board Studs: GTEC AHS44Rx Acoustic Homespan Studs at 450mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	29	2.7	74	30 30	Heavy	43
AHP 003: Acoustic Homespan Partition – see p76							
	Facing Outer Layer(s): 1x 15mm GTEC Acoustic Homespan Board Studs: GTEC AHS50Rx Acoustic Homespan Studs at 450mm centres Insulation: – Accessories: –	28	2.8	80	30 30	Heavy	41
AHP 004: Acoustic Homespan Partition – see p76							
	Facing Outer Layer(s): 1x 15mm GTEC Acoustic Homespan Board Studs: GTEC AHS50Rx Acoustic Homespan Studs at 450mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	29	2.8	80	30 30	Heavy	43

GTEC TIMBER PARTITION SYSTEMS

System Ref.	Component	System Weight (kg/m ²)	Overall Thickness (mm)	Fire Perf. BS476-22 Non-load bearing (NLB) BS EN 1364-1 (mins)	Fire Perf. BS476-21 Load bearing (LB) BS EN 1365-1 (mins)	Strength Duty Rating to BS 5234	Acoustic Perf. R _w dB (C _{tr} if applicable)
RTP 001: Timber Partition – see p104							
	Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: 38x63mm Timber Studs at 600mm centres Insulation: – Accessories: –	18	88	30 –	– –	Medium	35
RTP 005: Timber Partition – see p104							
	Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: 38x89mm Timber Studs at 600mm centres Insulation: – Accessories: –	21	114	30 –	30 –	Medium	35
RTP 006: Timber Partition – see p104							
	Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: 50x100mm Timber Studs at 600mm centres Insulation: – Accessories: –	28	130	60 30	60 30	Heavy	38
RTP 012: Timber Partition – see p104							
	Facing Inner Layer(s): 1x 12.5mm GTEC Standard Board Facing Outer Layer(s): 1x 12.5mm GTEC Standard Board Studs: 50x75mm Timber Studs at 600mm centres Insulation: – Accessories: –	36	125	60 30	60 30	Severe	43
RTP 101: Timber Partition – see p104							
	Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: 38x89mm Timber Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	30	114	30 30	30 30	Medium	41
RTP 106: Timber Partition – see p104							
	Facing Outer Layer(s): 1x 15mm GTEC Universal Board Studs: 50x100mm Timber Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	34	130	60 30	60 30	Heavy	42

System Ref.	Component	System Weight (kg/m ²)	Overall Thickness (mm)	Fire Perf. BS476-22 Non-load bearing (NLB) BS EN 1364-1 (mins)	Fire Perf. BS476-21 Load bearing (LB) BS EN 1365-1 (mins)	Strength Duty Rating to BS 5234	Acoustic Perf. R _w dB (C _t if applicable)
RTP 112: Timber Partition – see p104							
	Facing Inner Layer(s): 1x 12.5mm GTEC dB Board Facing Outer Layer(s): 1x 12.5mm GTEC dB Board Studs: 50x75mm Timber Studs at 600mm centres Insulation: 25mm 16kg/m ³ glass mineral wool Accessories: –	45	125	60 30	60 30	Severe	48
RTP 113: Timber Partition – see p104							
	Facing Inner Layer(s): 1x 15mm GTEC dB Board Facing Outer Layer(s): 1x 15mm GTEC dB Board Studs: 50x100mm Timber Studs at 600mm centres Insulation: 50mm 16kg/m ³ glass mineral wool Accessories: –	53	160	60 30	60 30	Severe	49
RFL 050 RD: Timber Partition – see p104							
	Facing Inner Layer(s): 1x 15mm GTEC Fire Board Facing Outer Layer(s): 1x 15mm GTEC Fire Board Studs: Twin 38x89mm Timber Studs at 600mm centres Insulation: 2x 60mm min. 10kg/m ³ glass mineral wool Accessories: GTEC V-Brace at 1500mm centres	54	300	60 60	60 60	Severe	Robust Detail

PARTITION PERFORMANCE NOTES

- ▶ Performance values are for imperforate, jointed systems using Siniat GTEC components (metal studs and tracks, boards, metal accessories, screws and finishing systems) and specified insulation quilt material (type, thickness and density) and installed to Siniat specification and installation guides.
- ▶ Any alterations may impair the quoted performance. Contact Technical Services for further system configurations and their resulting performances.
- ▶ All maximum partition heights are calculated with a uniform lateral pressure of 0.2kN/m², the quoted height reflects the most onerous deflection limit of two conditions: 10mm deflection at 1.5m height (equivalent to Severe duty); or maximum deflection of height/240 at mid-height.
- ▶ Maximum heights can be increased by reducing stud centres or increasing stud thickness, contact Technical Services for advice.
- ▶ It may be possible to increase heights from those quoted in the system tables where reduced deflection limits or pressure criteria are acceptable.
- ▶ The maximum partition height may vary from the quoted values if the fire resistance of the system is specified according to BS EN 1364-1.
- ▶ Insulation shown may be replaced with thicker and/or heavier quilt material without impairing the quoted performances.
- ▶ **Please contact Technical Services for loadbearing capacity of partitions**
- ▶ For structural steel frame partition systems please contact Technical services.

GTEC C STUD PARTITION SYSTEMS

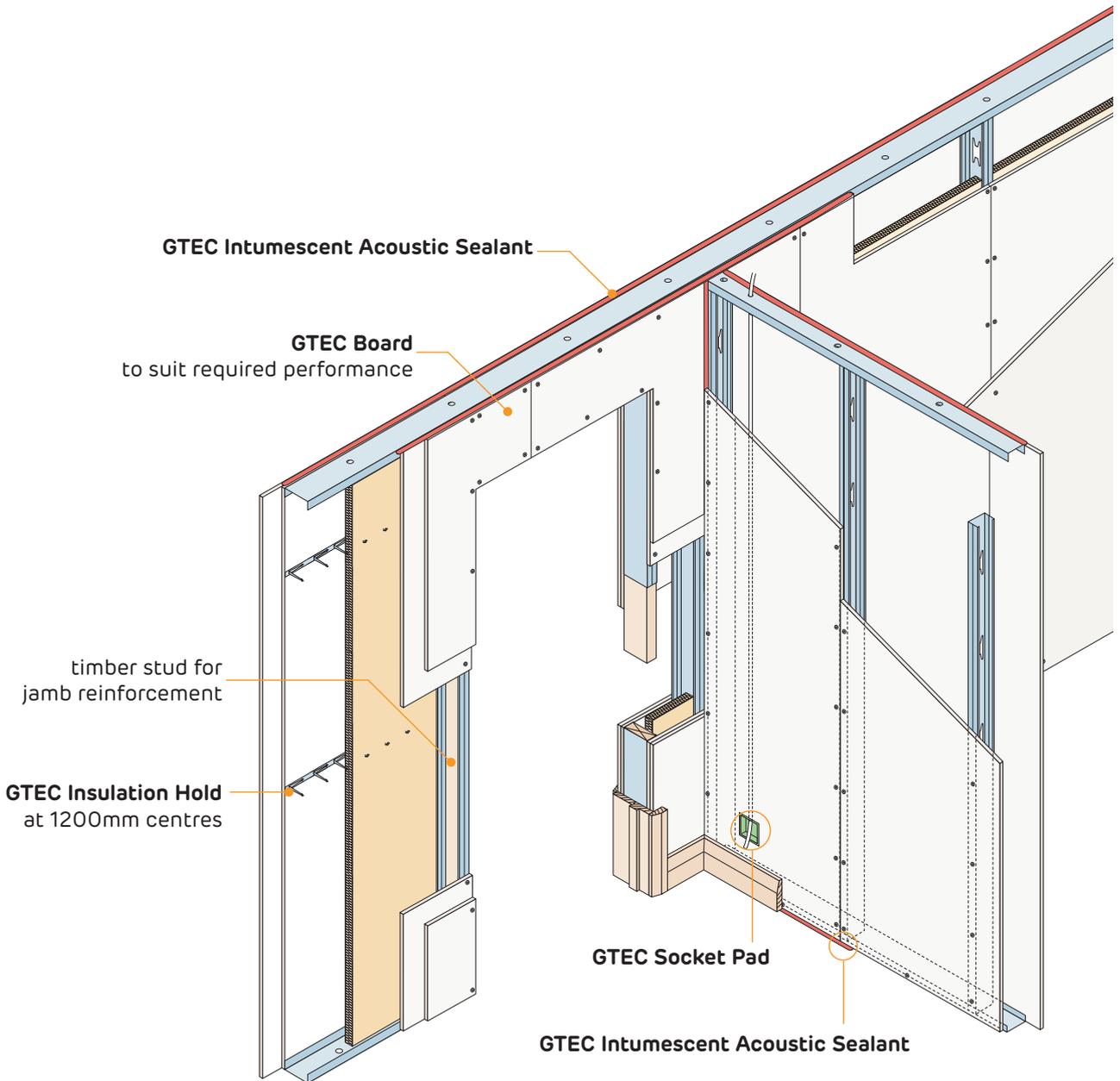
GTEC Metal Stud Partitioning is an economical, friction-fit system for assembling internal partitions. The unique design of the components ensures high strength, easy installation and a higher performing alternative to traditional timber frame partitions.

GTEC C Stud Partitions are constructed using a frame of GTEC U Track at the head and base with GTEC C Studs for vertical framing elements. A range of GTEC C Stud and U Track widths allow varying partition depth, enhancing fire resistance, sound insulation and maximum heights. For individual system performances, refer to the System Performance Tables on pages 22 to 43.

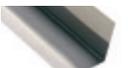
WHERE TO USE:

- ▶ GTEC C Stud Partitions create internal dividing walls within both domestic and commercial projects.

FEATURES	BENEFITS
Strong	Less material is required than a similar timber frame structure
Lightweight	Multiple lengths can be carried at one time
Natural resistance to bowing, bending and insect infestation	Metal maintains shape, removing the chance of 'screw popping'
High fire resistance levels	Fire performance levels are easily achieved using metal
High acoustic performance levels	Acoustic performance levels are easily achieved using metal
Flat finish	Provides an easy surface for decoration



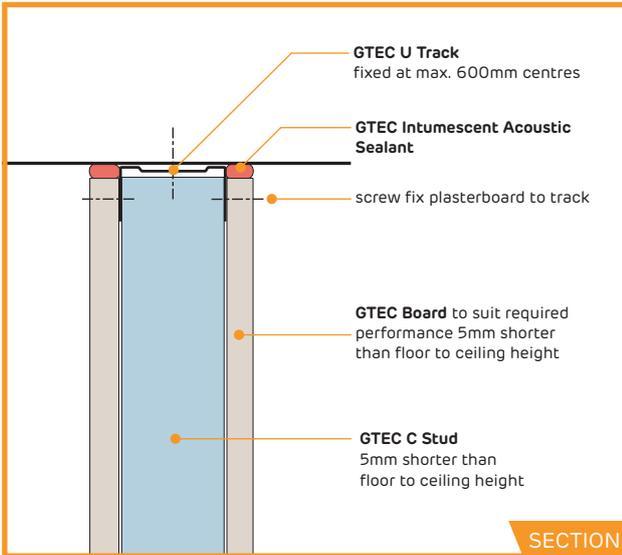
SYSTEM COMPONENT TABLE

System Component	System primary use	Product Reference
BOARDS		
	All GTEC Boards Provides wall surface suitable for finishing	See performance tables, p22-43
FRAME		
	GTEC C Stud Metal profile for vertical frame elements	CS50/RX, CS60/RX, CS70/RX, CS90/RX, CS146/RX, CS70/B, CS90/B, CS146/B, CS90/W, CS70/Y, CS90/Y, CS146/Y
	GTEC U Track Metal profile for head and base frame elements	UT52/RX, UT62/RX, UT72/RX, UT92/RX, UT148/RX
	GTEC U Track Deep Flange Used for partitions with heights exceeding 4.2m and with deflection heads	UDT62/B, UDT72/B, UDT92/B, UDT148/B
	GTEC U Track Extra Deep Flange Used for partitions with heights exceeding 7.2m and with deflection heads	UXT72/B, UXT92/W, UXT148/W
	GTEC Fixing Channel Provide support for plasterboard joints and fixtures	MFIX
	GTEC Metal Angle Multi-purpose galvanised metal section	MFC2525, MFC2550, MFC2330
	GTEC Flat Strap Provide support for plasterboard joints and fixtures	FS50/RX, FS90/W
	GTEC Flex Track Deep Flange Steel track for curved partitions	DFLEX/B
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR
FIX		
	GTEC Drywall Screws (as appropriate) For connecting plasterboard and metal components	See fixing selector, p334-335
FINISHING		
	GTEC Corner and Edge beads Corner and edge reinforcement	n/a
	GTEC Joint Tape Joint reinforcement in conjunction with GTEC Jointing Compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

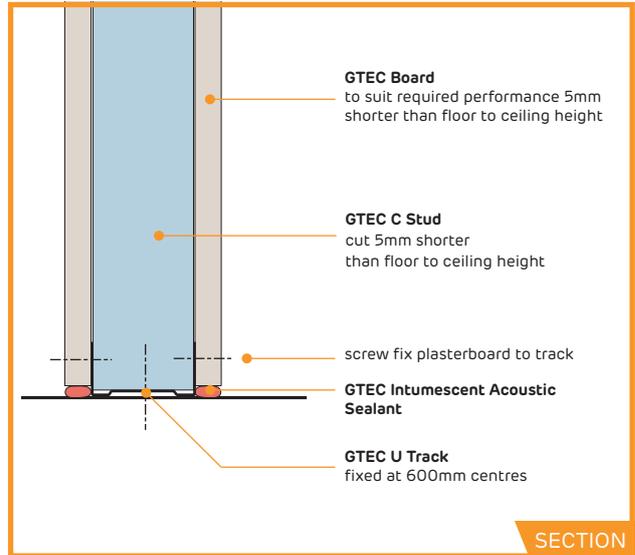
SYSTEM GUIDANCE

FRAME

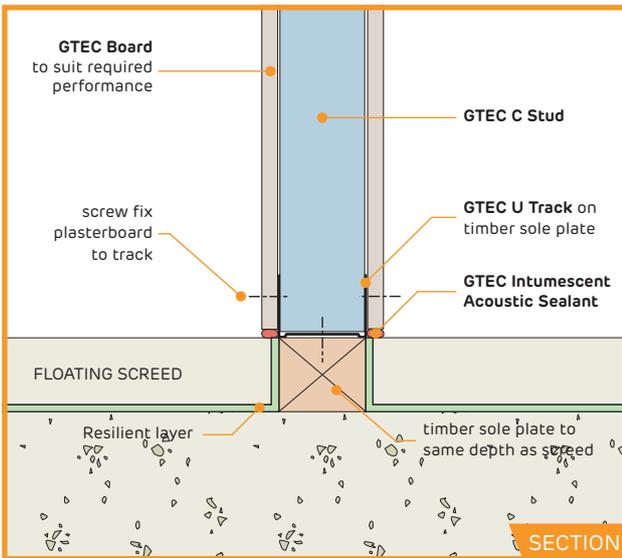
PT-CS-101S-Head – no deflection



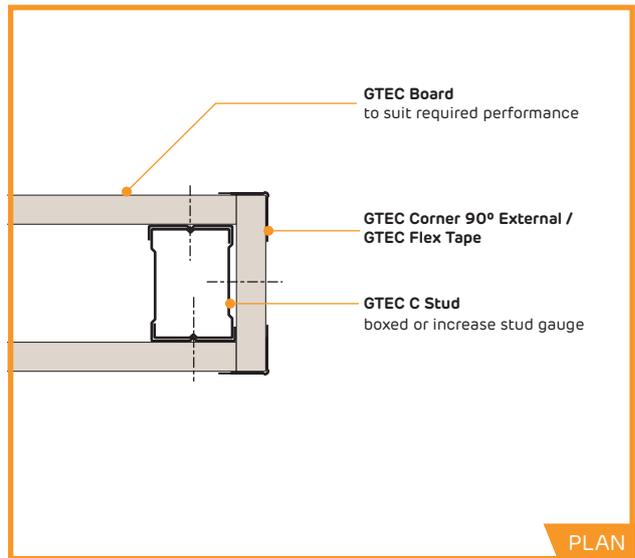
PT-CS-102S-Base



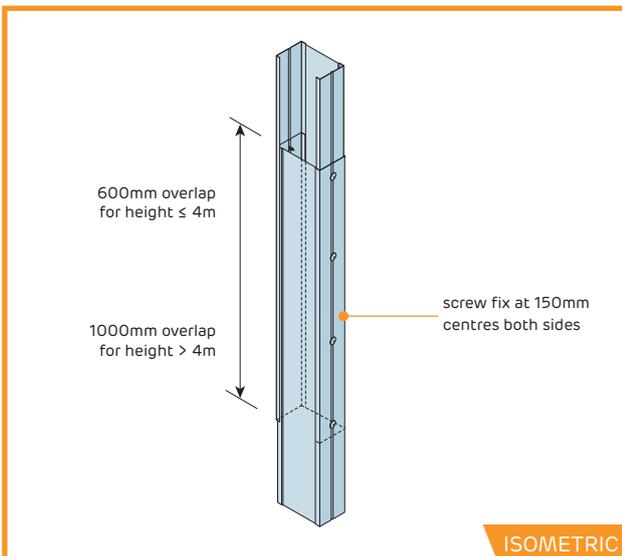
PT-CS-103S-Base with timber sole plate and screed



PT-CS-104P-End detail



PT-CS-105M-Stud splice

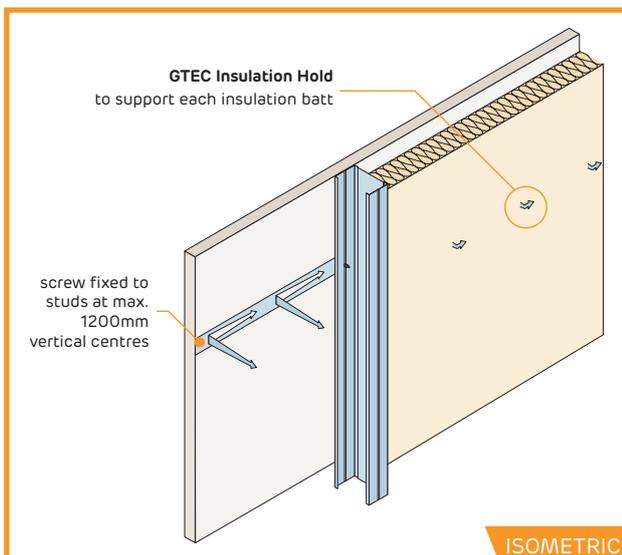


FRAME continued

- ▶ Select compatible sizes (e.g. 50mm stud and 52mm track) of GTEC C Stud and GTEC U Track framing elements to meet system performance.
- ▶ For partition heights over 4.2m, head/base track must be appropriate width GTEC Deep Flange U-Tracks as a minimum. For partition heights over 7.2m, head/base track must be appropriate width GTEC Extra Deep Flange U-Tracks.
- ▶ Studs abutting structure (starter studs) to be fixed with web flat to structure using appropriate fixings by others at maximum 600mm centres.
- ▶ GTEC U Track to be fixed flat to a suitable structure using appropriate fixings by others at maximum 600mm centres.
- ▶ Timber sole plate may be required on uneven floors or where partition is constructed prior to screeding.
- ▶ Protect base track from moisture with damp proof membrane when situated on newly laid concrete floors.
- ▶ All GTEC C Studs to be 5mm shorter than floor to ceiling height except in case of head deflection requirement (see p57).
- ▶ Intermediate GTEC C Studs, facing in same direction, to be friction fitted into tracks to allow for adjustment during boarding.
- ▶ GTEC C Studs to be at centres required to meet system performance with a maximum of 600mm centres.
- ▶ Where wall height exceeds available GTEC Stud length splice two lengths together ensuring overlap of 600mm for heights less than 4m and 1000mm for heights more than 4m.
- ▶ Service cut outs in a GTEC C stud to be a minimum of 100mm away from ends of studs.

INSULATION

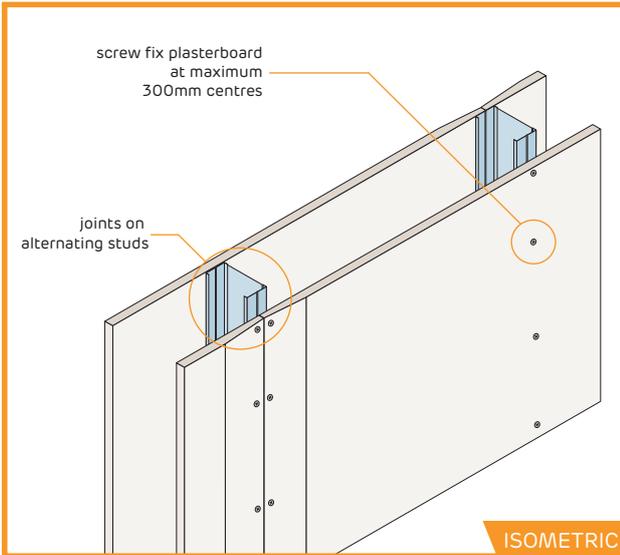
PT-CS-151M-Insulation Hold



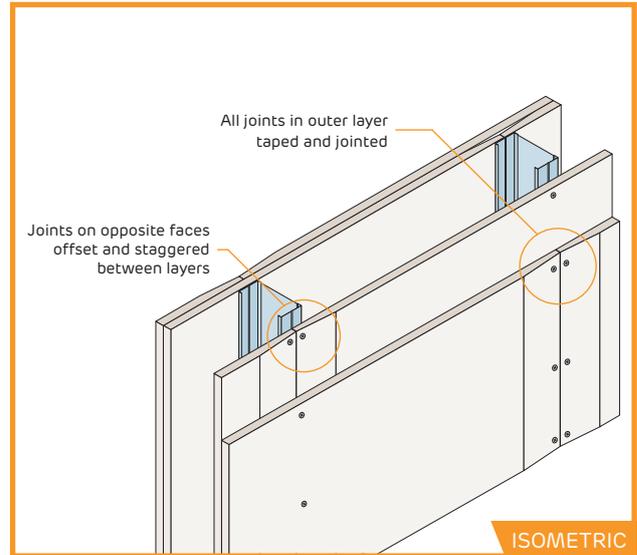
- ▶ Insulation, if required, to be of type and thickness to achieve performance and installed in a continuous layer between frames or studs.
- ▶ Where insulation may be expected to slump suspend from GTEC Insulation Hold strips fixed across studs, 150mm from top of partition and at 1200mm vertical centres.

BOARDING

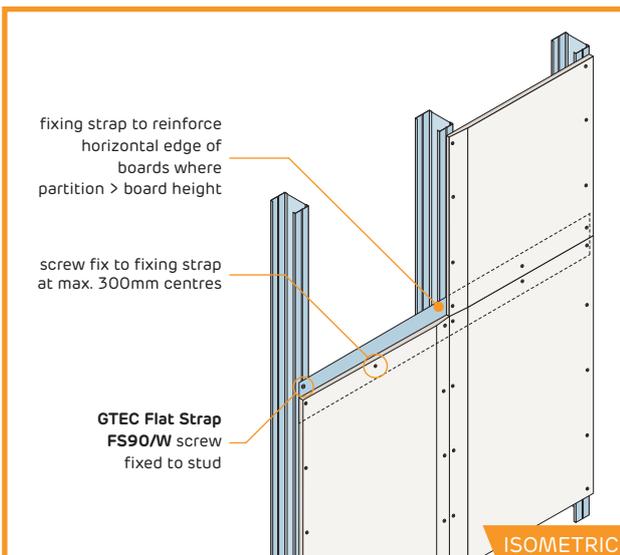
PT-CS-201M-Board fixing – single layer



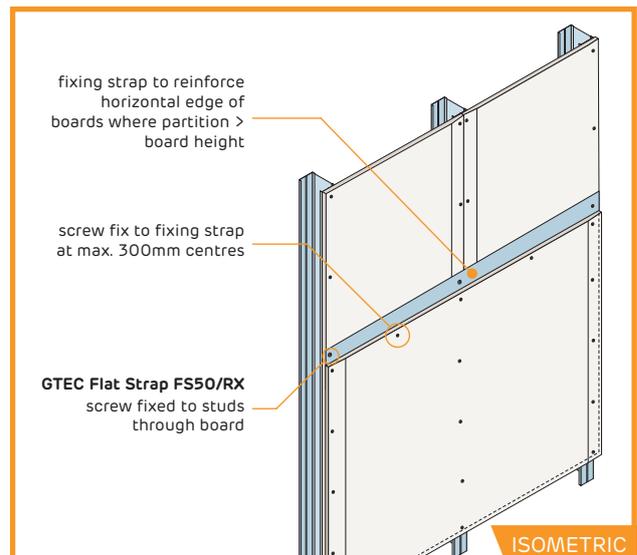
PT-CS-202M-Board fixing – double layer



PT-CS-203M-Horizontal joint reinforcement, single layer



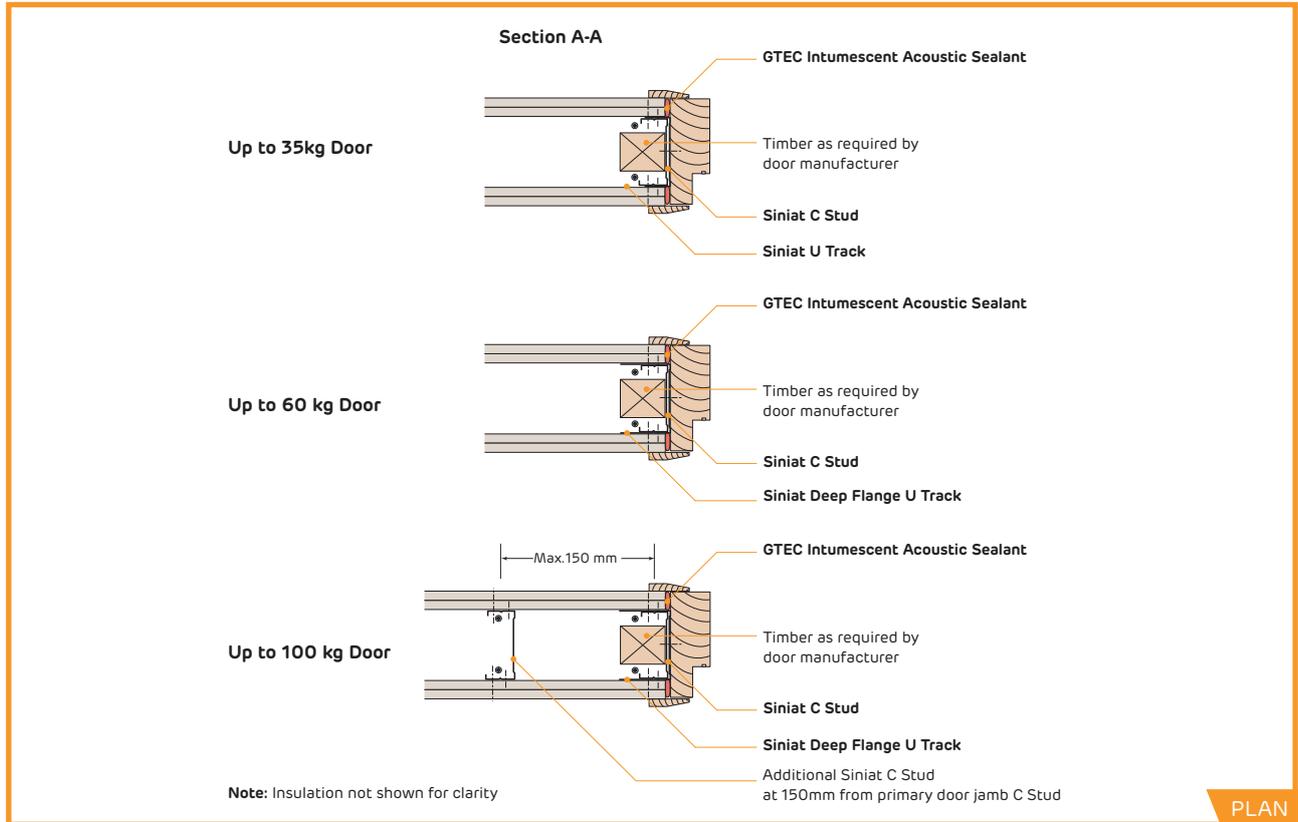
PT-CS-204M-Horizontal joint reinforcement, double layer



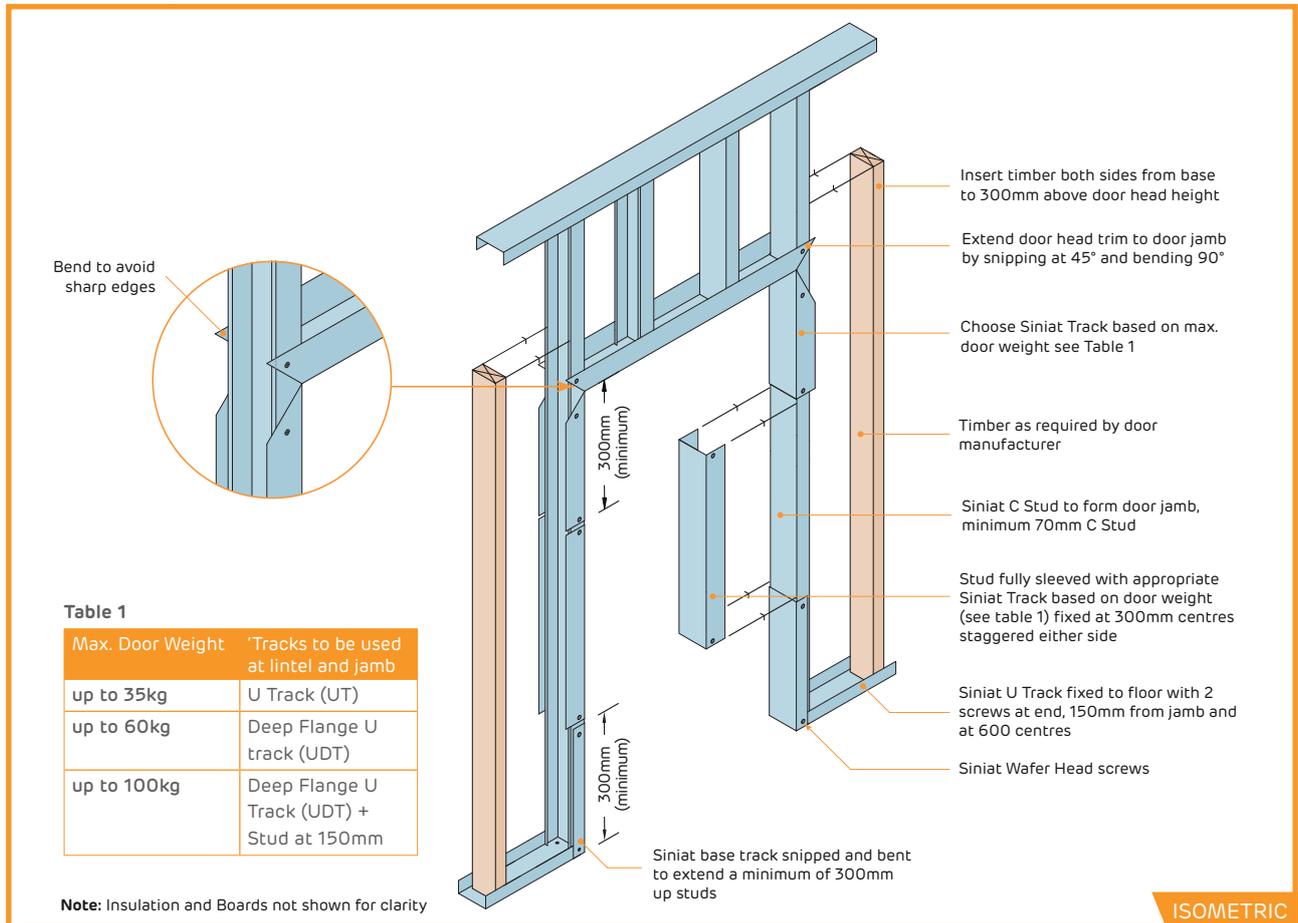
- ▶ GTEC Twin Frame partition system is suitable for single, double and multiple layer boarding.
- ▶ Select base layer(s) and finishing layer(s) GTEC Boards by consulting System Performance Tables (p22-25) and Product Specification (p278-291) to achieve required performance. See High Performance Boards guide (p12-15) for further selection information.
- ▶ Boards to be 5mm less than floor to ceiling height except in case of deflection requirement, see p57.
- ▶ Strips of board 300mm wide or less to be avoided by stud location rearrangement.
- ▶ Boards to be mechanically fixed to studs at 300mm centres using appropriate GTEC Drywall Screws (see screw selector, p318-319).
- ▶ Base layers of boarding may be temporarily fixed at 600mm centres providing final layer is fixed through to stud at 300mm centres.
- ▶ Board edges to be centred over studs.
- ▶ Stagger all board joints between layers by a minimum of 300mm.
- ▶ Stagger all board joints on opposing sides of partition.

OPENINGS

PT-CS-401P-Door frames – 30kg to 100kg door loads



PT-CS-403E-Single and double door frames

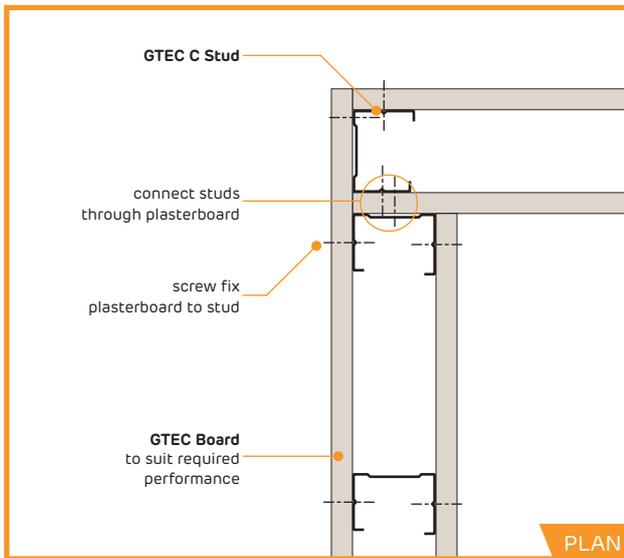


OPENINGS continued

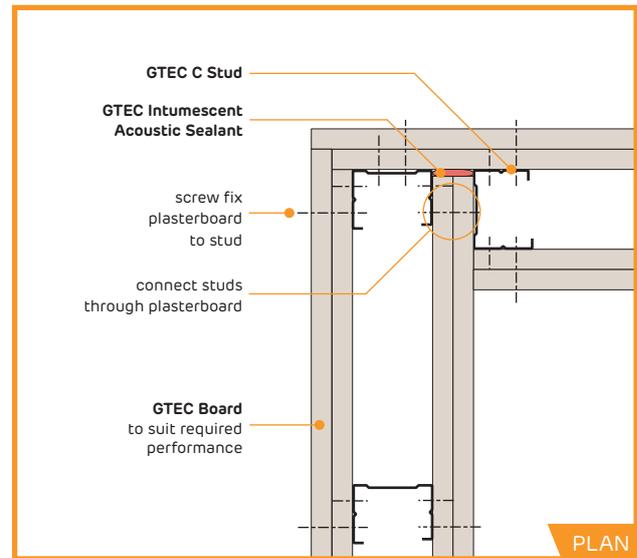
- ▶ Form openings following guidance in Construction Detail Drawings to suit door weights.
- ▶ Reinforce head-to-jamb junction 150mm down each jamb stud by cutting and folding head track.
- ▶ Reinforce jamb studs with timber and boxed studs as described in Construction Detail Drawings.
- ▶ Jamb studs to be fixed to track with appropriate GTEC Drywall Screws (see screw selector, p318-319).

CORNERS AND JUNCTIONS

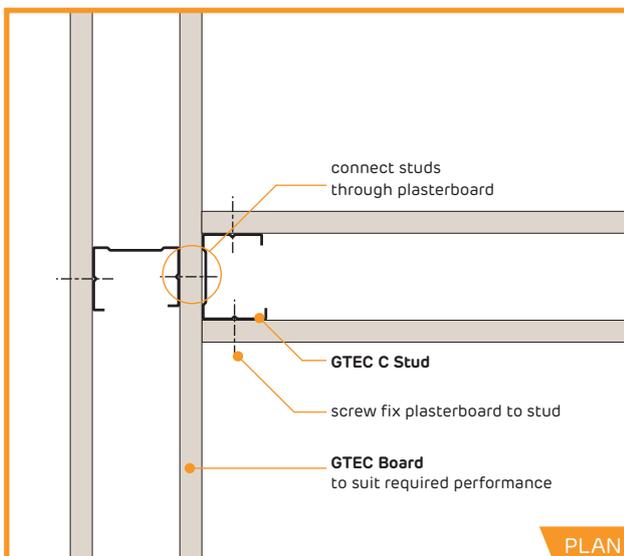
PT-CS-501P-Corner detail, single layer



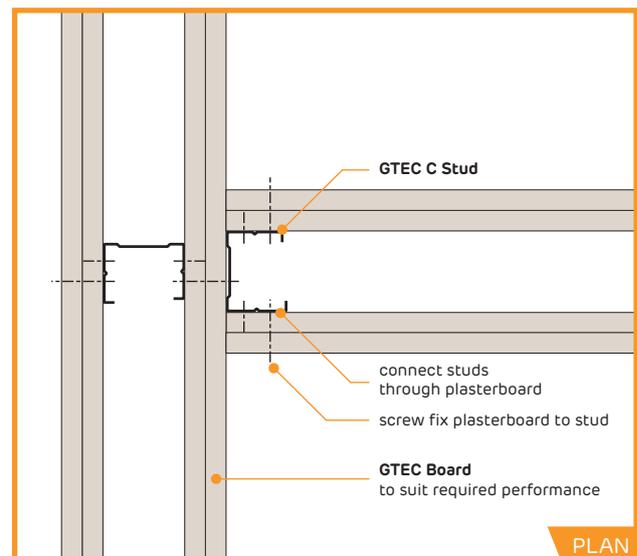
PT-CS-502P-Corner detail, double layer



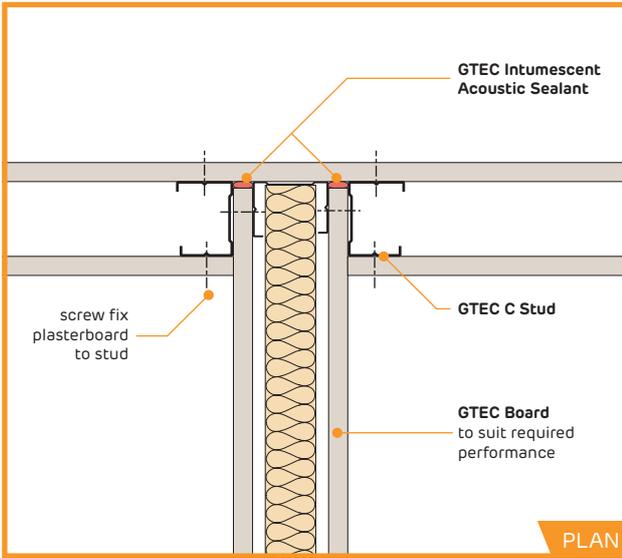
PT-CS-503P-Non-acoustic T-junction, single layer



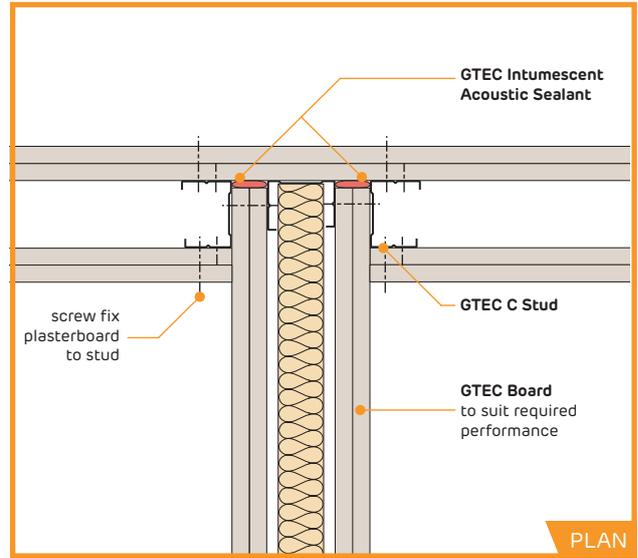
PT-CS-504P-Non-acoustic T-junction, double layer



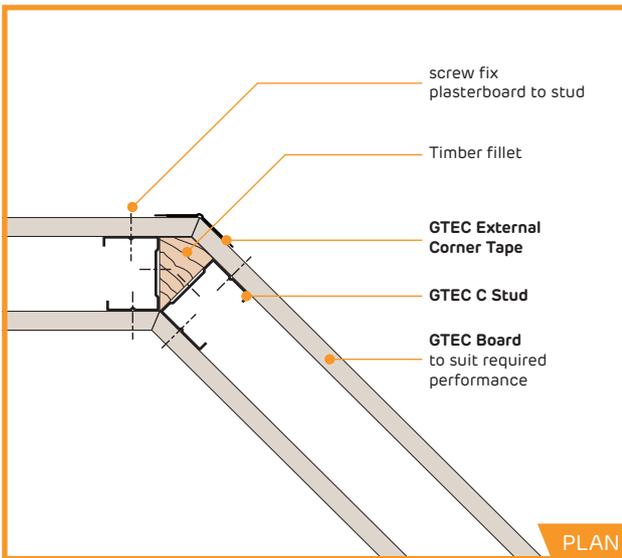
PT-CS-505P-Acoustic rated T-junctions, single layer



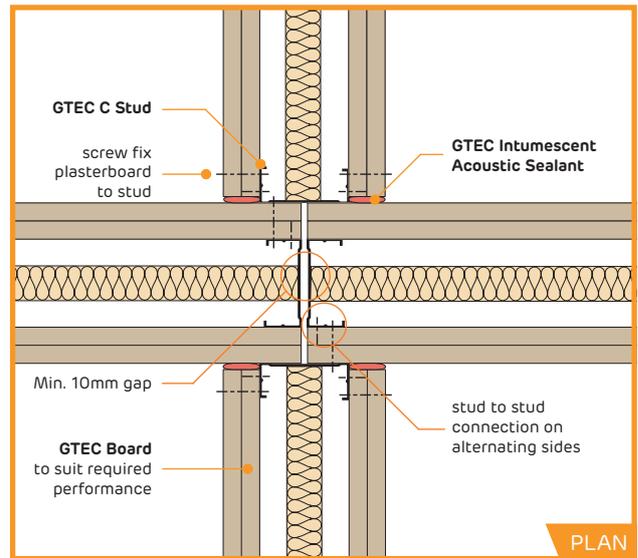
PT-CS-506P-Acoustic rated T-junctions, double layer



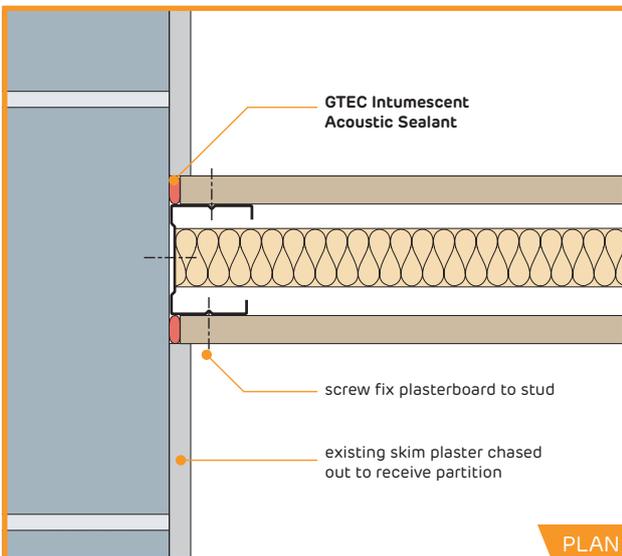
PT-CS-507P-Splayed corners



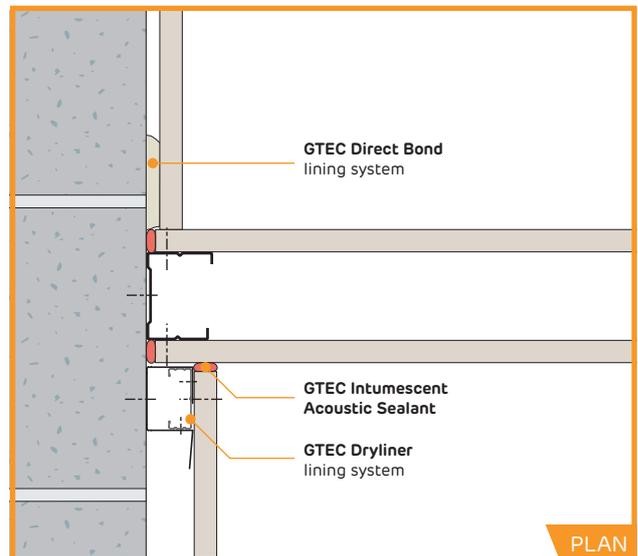
PT-CS-508P-Four way junction



PT-CS-509P-Junction with Masonry – Plastered

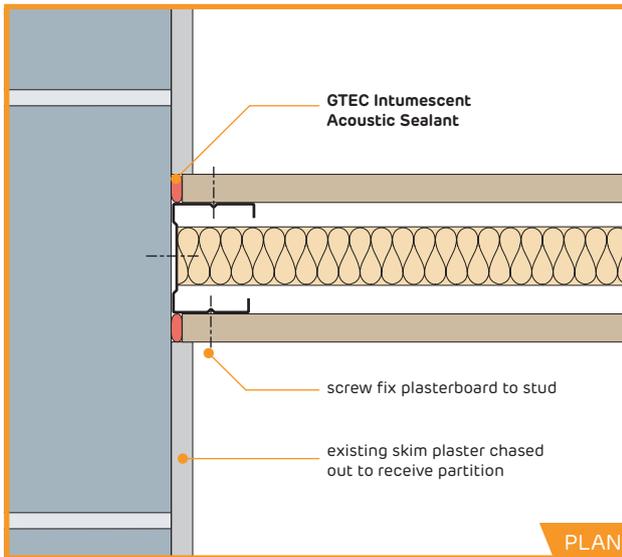


PT-CS-510P-Junction with Masonry – Dryliner & Direct Bond

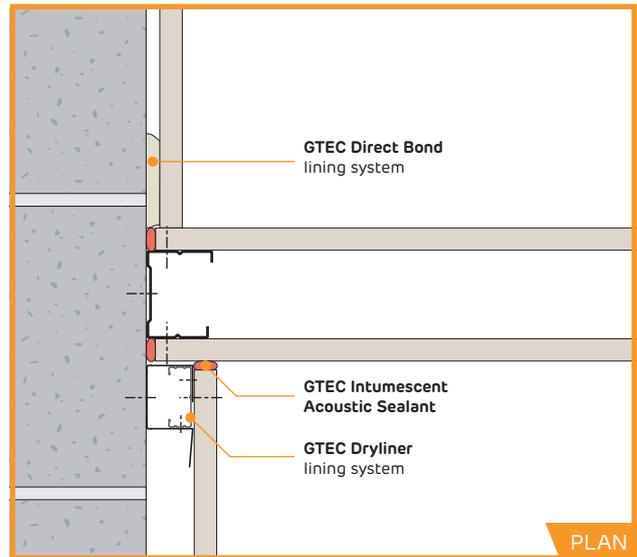


CORNERS AND JUNCTIONS continued

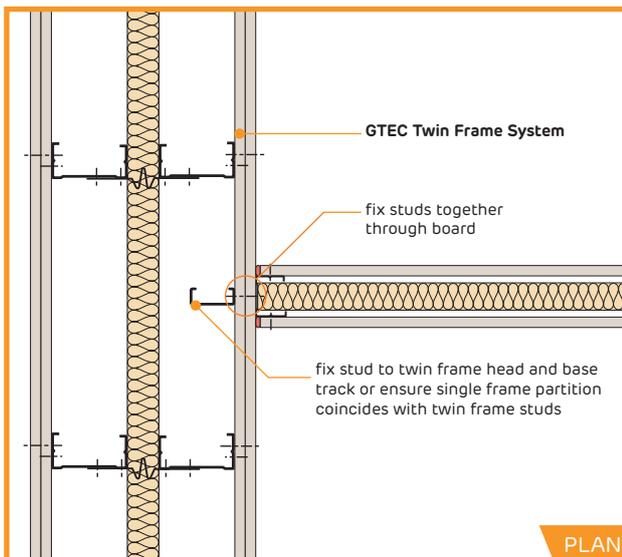
PT-CS-509P-Junction with Masonry – Plastered



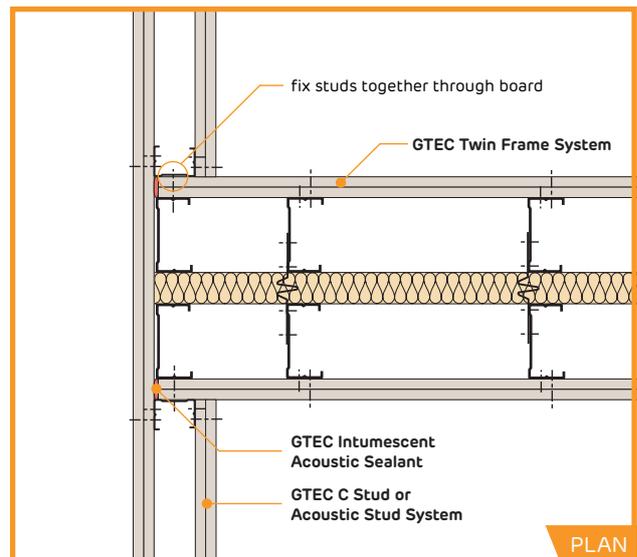
PT-CS-510P-Junction with Masonry – Dryliner & Direct Bond



PT-CS-513P-T-Junction of Single into Twin Frame



PT-CS-514P-T-Junction of Twin into Single Frame

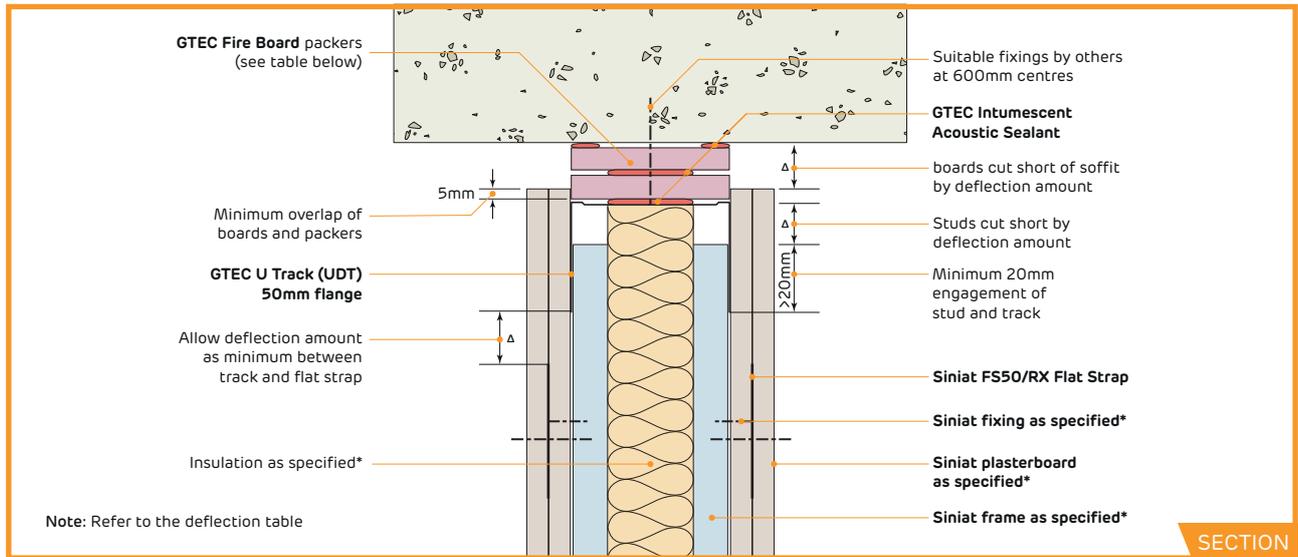


- ▶ Abutting partitions to coincide with studs, install additional intermediate 'pick-up' stud if required.
- ▶ Connect studs through plasterboards at corners and junctions at 600mm vertical centres using appropriate GTEC Drywall Screws.

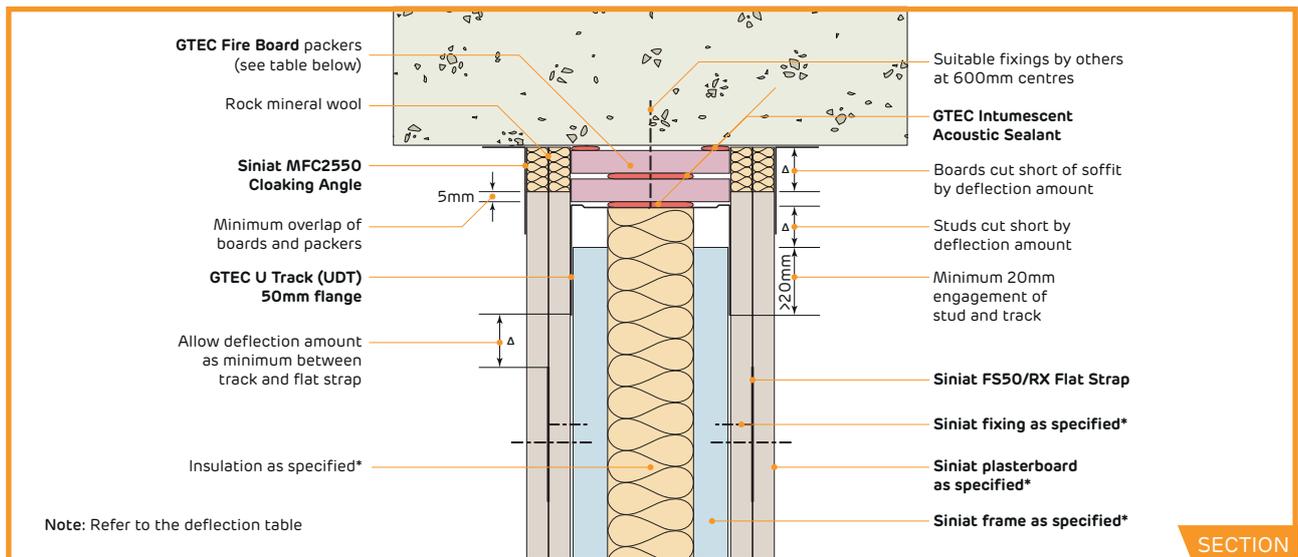
- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

HEAD DEFLECTION

PT-CS 601S-Deflection head for up to 60 mins rated partitions



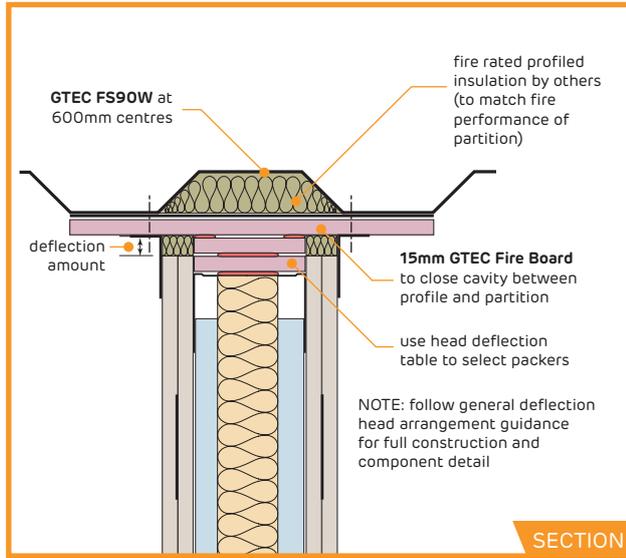
PT-CS 601S-Deflection head for up to 120 mins rated partitions



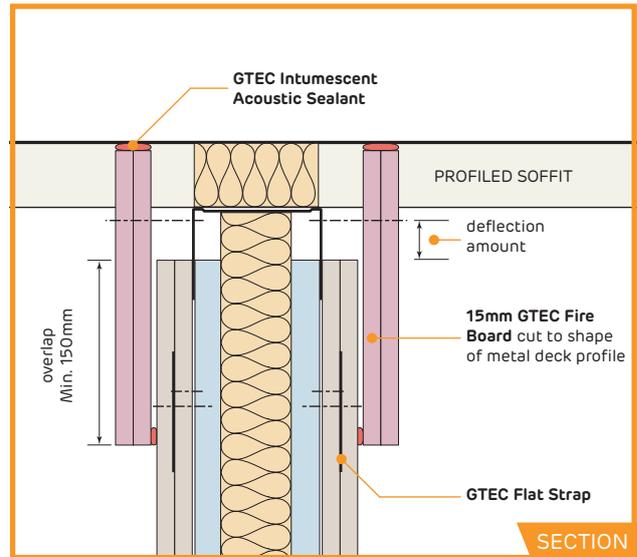
Deflection required:	Packer for all fire ratings:	Track for all fire ratings:	30 & 60 mins	90 & 120 mins
0-5mm	12.5mm GTEC Fire Board	GTEC U Track (UT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
6-10mm	15mm GTEC Fire Board	GTEC U Track (UT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
11-20mm	2x 12.5mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
21-25mm	2x 15mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
26-32mm	3x 12.5mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
33-40mm	3x 15mm GTEC Fire Board	GTEC Extra Deep Flange U Track (UXT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
41-45mm	4x 12.5mm GTEC Fire Board	GTEC Extra Deep Flange U Track (UXT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle

HEAD DEFLECTION continued

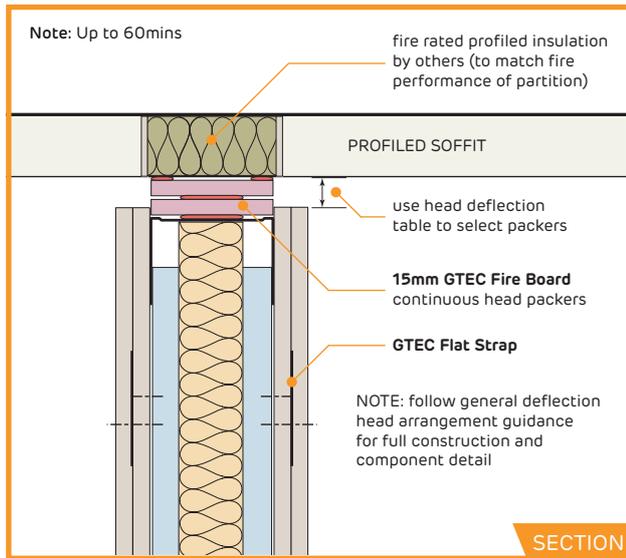
PT-CS-603S-Def. Head – parallel to profiled soffit



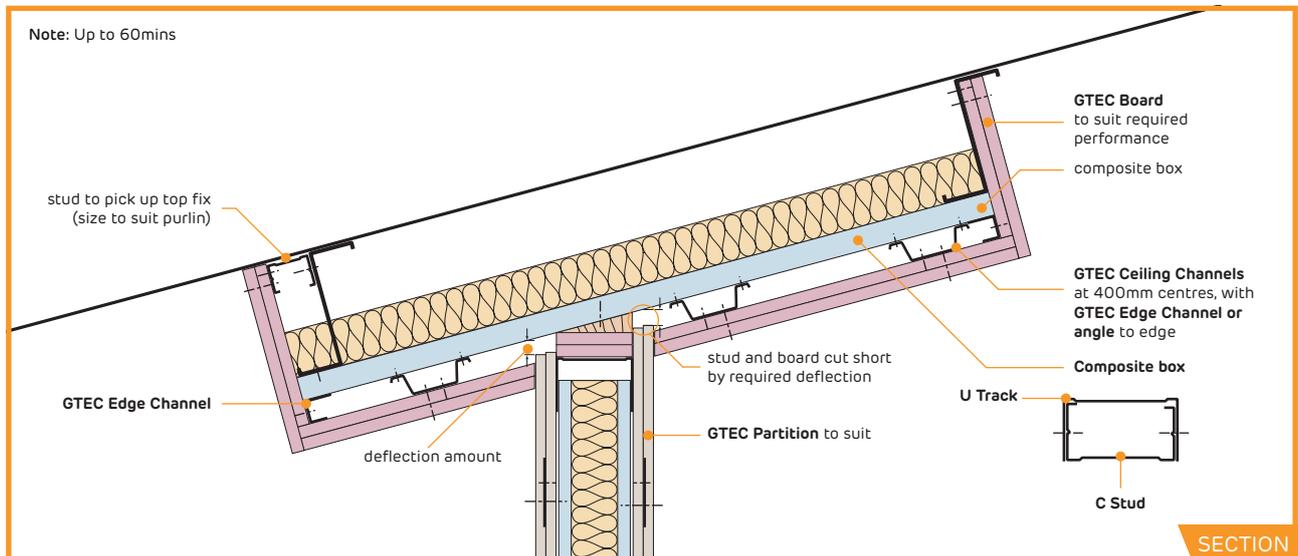
PT-CS-604S-Def. Head – perpendicular to simple profile



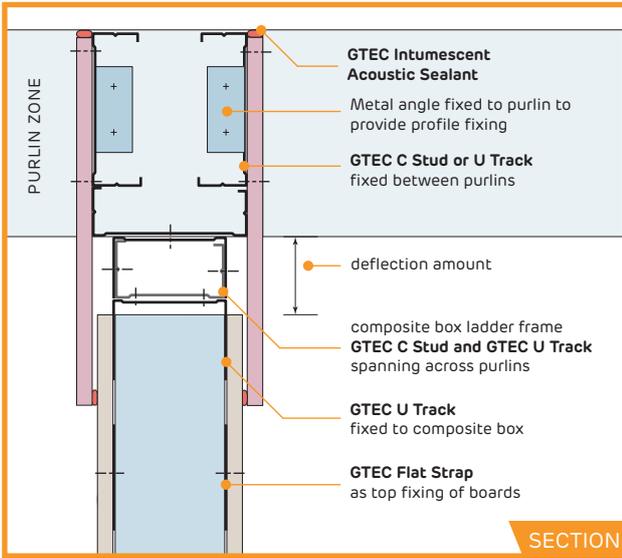
PT-CS-605S-Def. Head – perpendicular to complex profile



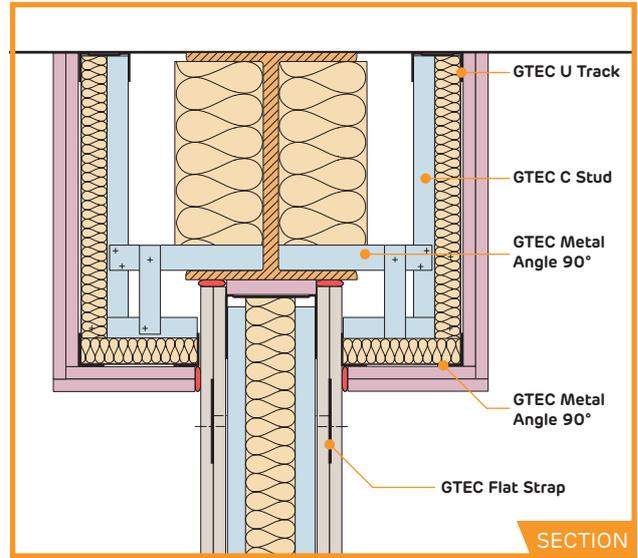
PT-CS-606S-Def. Head – parallel to purlins – purlins cloaked



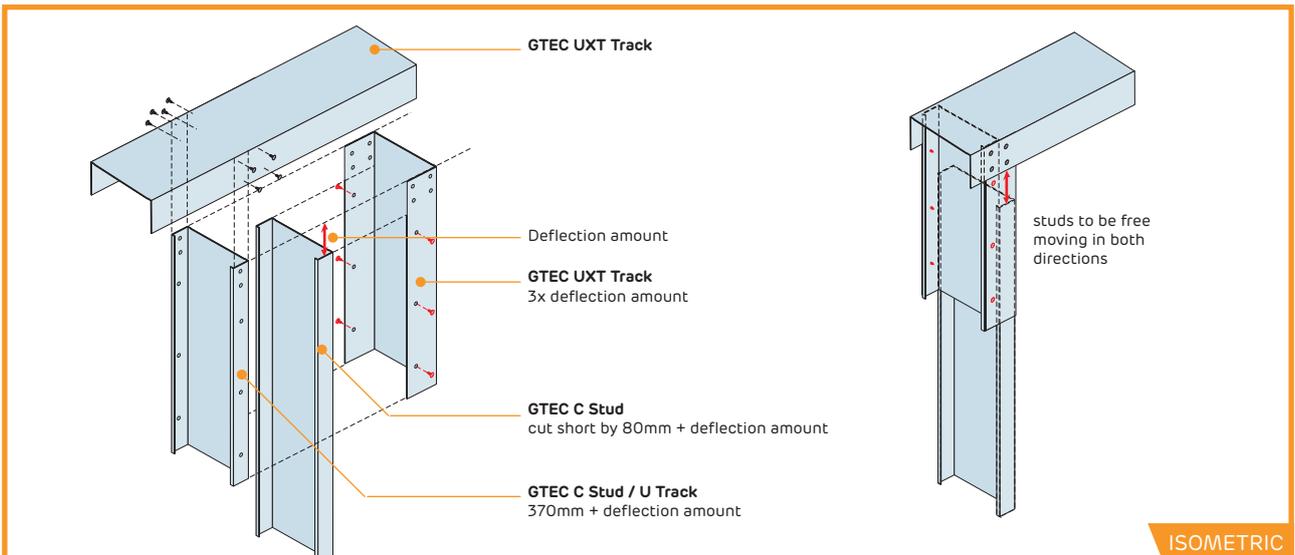
PT-CS-608S-Def. Head – perpendicular to purlins



PT-CS-609S-Def. Head – under beam

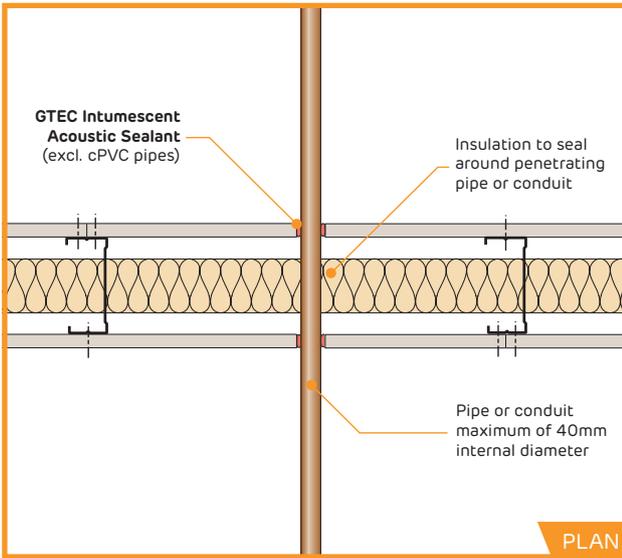


PT-CS-610M-Telescopic deflection head assembly

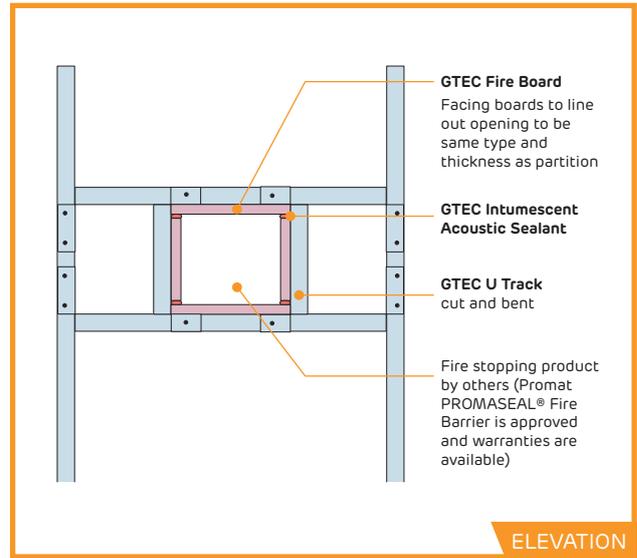


PENETRATIONS

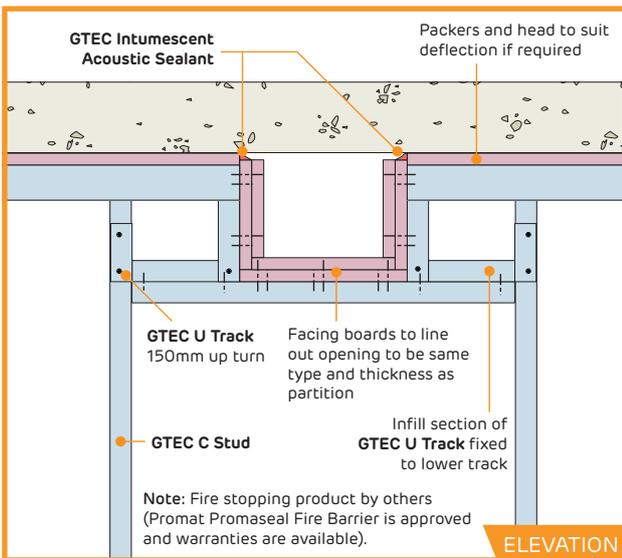
PT-CS-701P-Small diameter pipe penetration



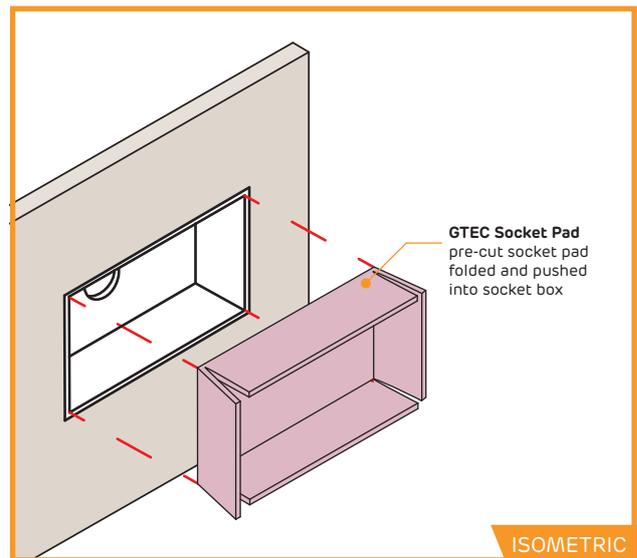
PT-CS-702E-Cable tray penetration



PT-CS-703M-Cable tray penetration at soffit

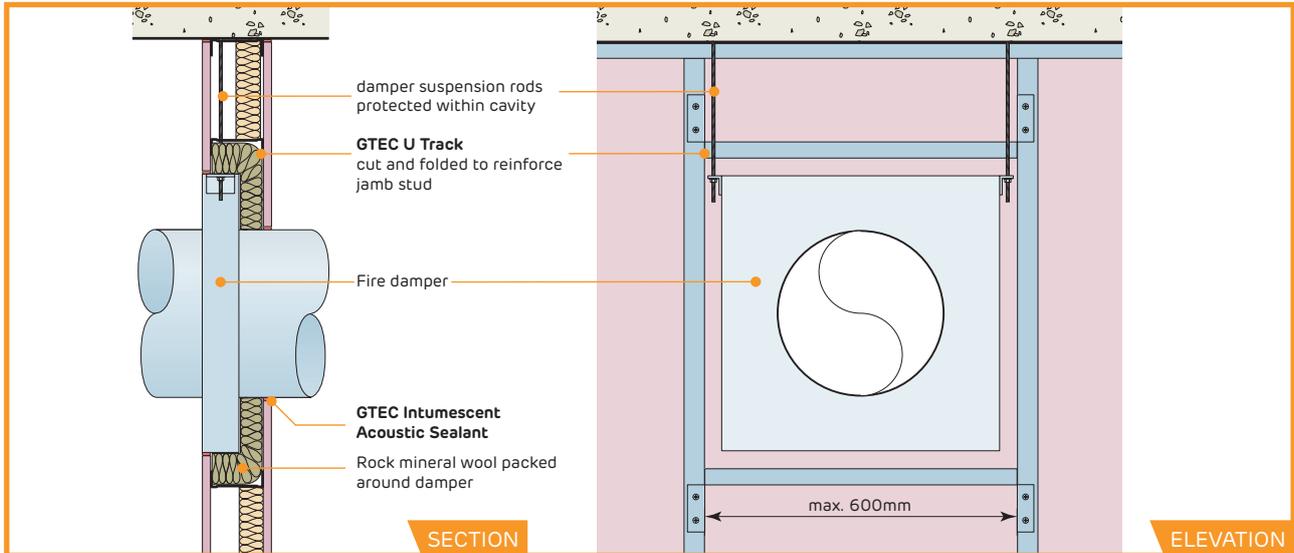


PT-CS-704E-Socket pad fitting



PENETRATIONS continued

PT-CS-706S Fire damper



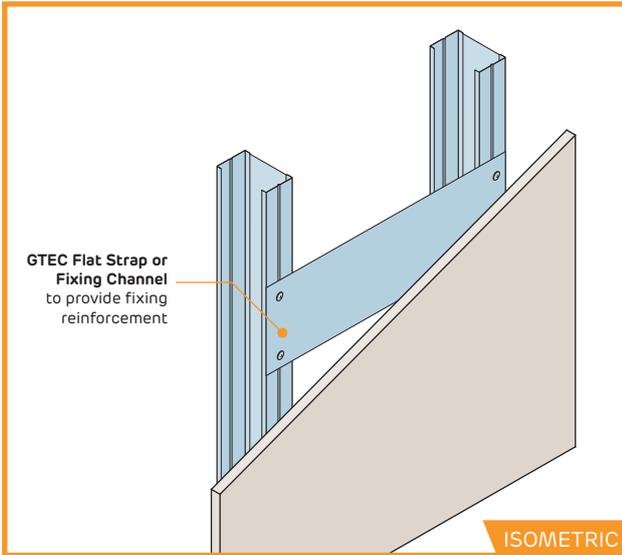
- ▶ M&E runs and other services to be pre-planned to minimise or eliminate penetrations through rated partitions.
- ▶ Any penetrations must be fully sealed with GTEC Intumescent Acoustic Sealant or other fire resisting material as specified in Construction Detail Drawings.
- ▶ Details shown are typical supporting constructions for proprietary fire-stopping products, seek further advice from fire-stopping product supplier
- ▶ Protect all electrical cables in cavity with conduit.



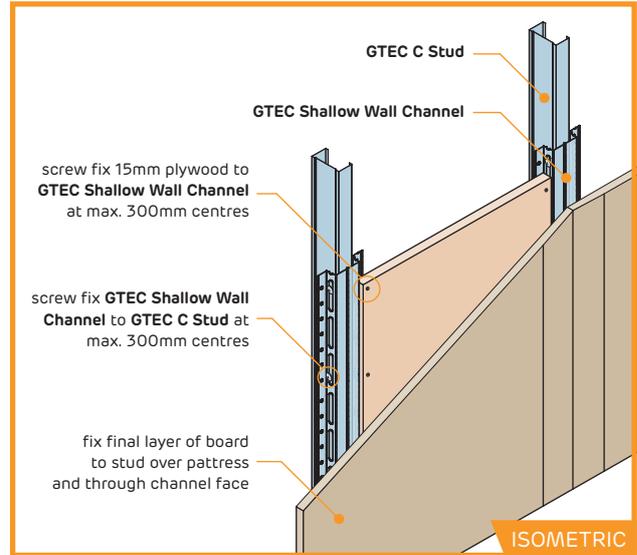
Promat PROMASEAL® fire-stopping products are approved for use with Siniat systems and combined warranties are available. Contact Technical Services for further information.

FIXTURES

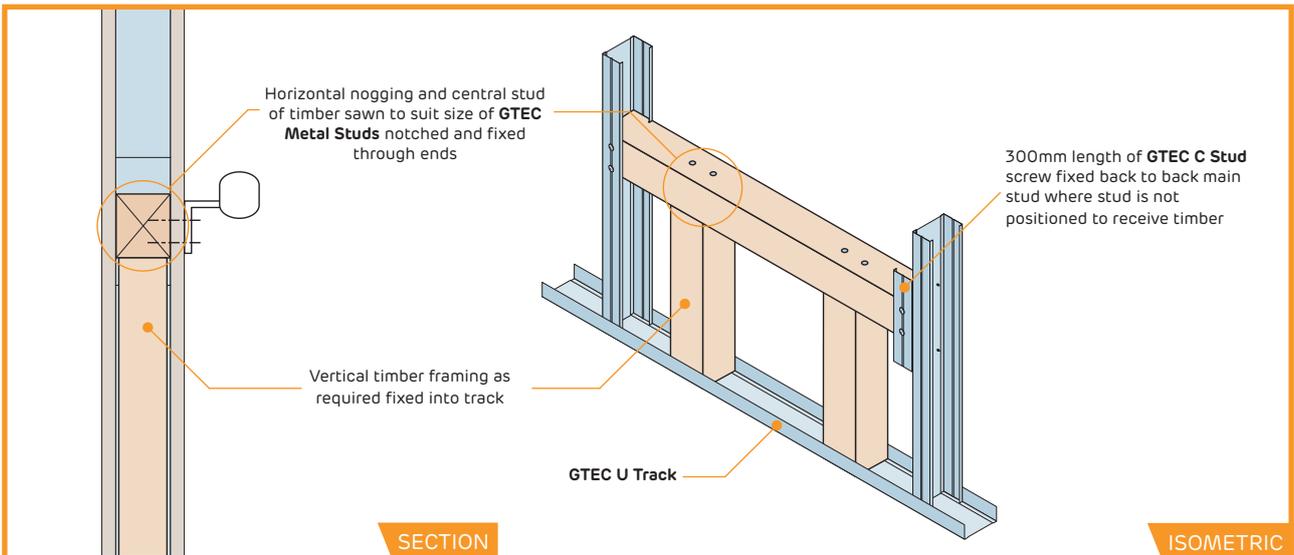
PT-CS-801M-Flat strap for light-weight fixings



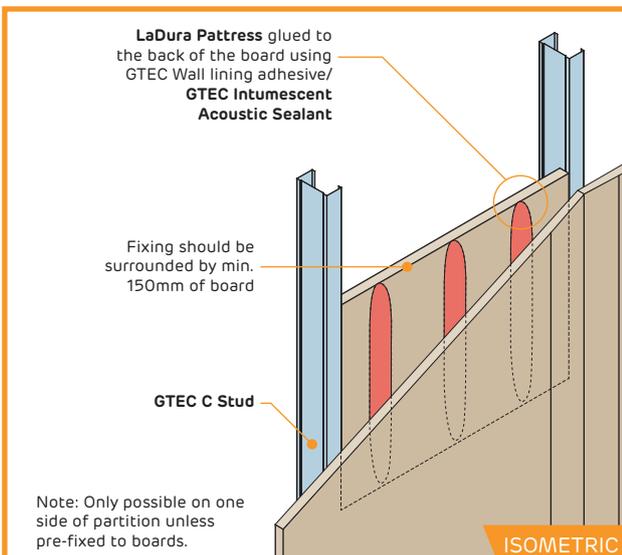
PT-CS-802M-Plywood pattress for heavy-weight fixings



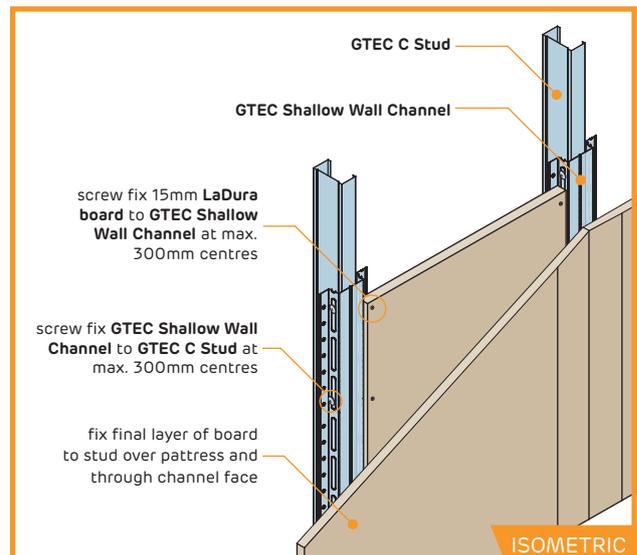
PT-CS-803M-Timber support for extreme-weight fixings



PT-CS-804M-LaDura adhesive pattress for heavy-weight fixings

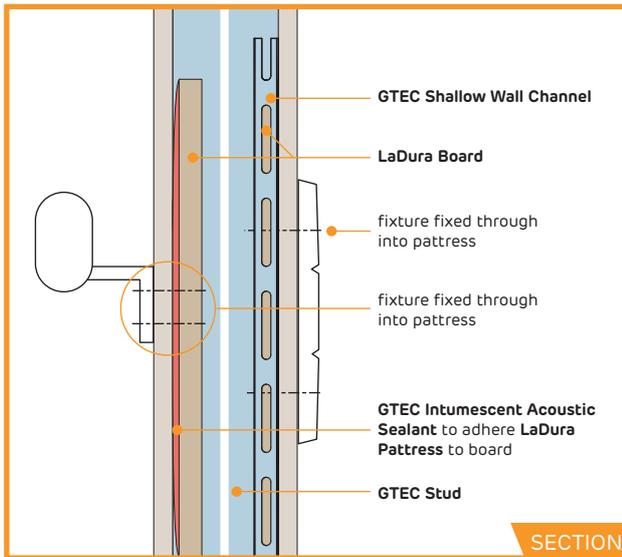


PT-CS-805M-LaDura channel pattress for heavy-weight fixings



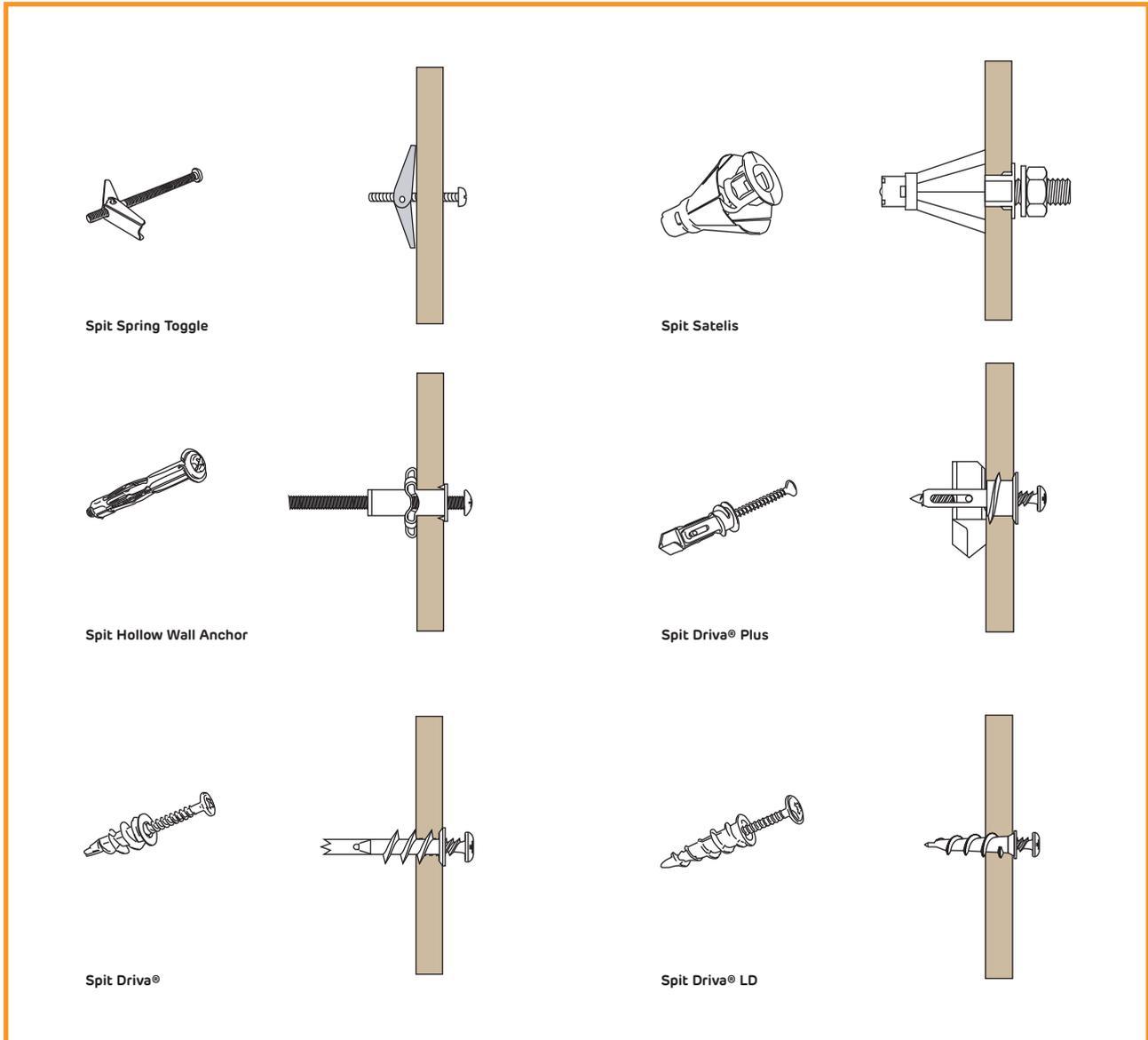
FIXTURES continued

PT-CS-806S-LaDura pattress types for fixings both sides



- ▶ Select fixture details for recommended fixture provision in combination with fixing capability.
- ▶ Appropriate fixings for loadings and substrate to be supplied by others.
- ▶ Site testing of fixings with plasterboard is recommended.
- ▶ LaDura is recommended as pattress or facing to enhance mechanical resistance of the fixing.
- ▶ Mobile or adjustable fixtures, e.g. swing arm brackets require pattressing.
- ▶ For high loadings partitions must be checked for overall robustness and upgrades of studs may be required.
- ▶ GTEC Boards have been tested for pull-out strength in combination with Spit fixings, see maximum loadings and required arrangements in summary table. For complete results please consult Technical Services. Other manufacturer's fixings will require further testing before use.

PT-CS-807M-Spit fixings



DESIGN PULL-OUT LOADS (kN) including safety factor

Board Arrangement	With 15mm LaDura pattress		Without pattress	
	Spit Driva®	Spit Hollow Wall Anchor	Spit Driva®	Spit Hollow Wall Anchor
Single layer 15mm GTEC Standard Boards*	0.35	0.7	0.15	0.35
Single layer 15mm GTEC Technical Boards**	0.35	0.75	0.2	0.4
Single layer 15mm LaDura	0.4	0.85	0.25	0.5
Double layer 15mm GTEC Standard Boards*	0.4	0.85	0.25	0.55
Double layer 15mm GTEC Technical Boards**	0.45	1.0	0.3	0.65
Double layer 15mm LaDura	0.5	1.15	0.4	0.85

*Standard boards are those up to 10kg/m² for 15mm boards
 **Technical boards are those up to 13kg/m² for 15mm boards

FINISHING

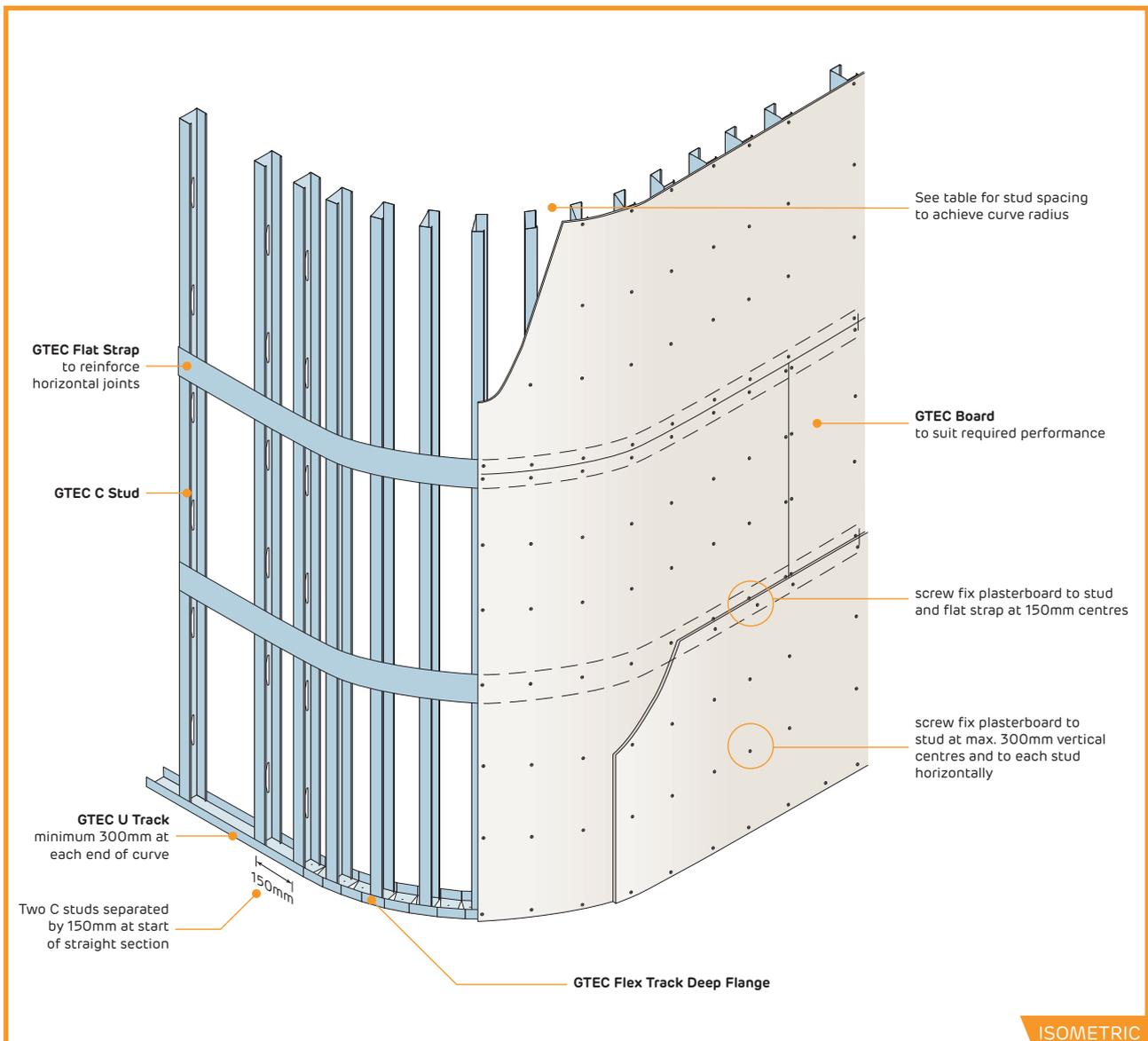
- ▶ All board joints to be taped, jointed or finished according to guidance in Finishing section (p262-275) to achieve system performances.
- ▶ GTEC Finish materials appropriate to board type to be used.

SYSTEM CONTINUITY

- ▶ Bead of GTEC Intumescent Acoustic Sealant to be applied to perimeter of all runs and in all other locations specified in Construction Detail Drawings.
- ▶ GTEC Intumescent Acoustic Sealant to seal all other acoustic or air paths to prevent fire/smoke spread and acoustic transmission.
- ▶ Full, imperforate system continuity to be maintained to achieve rated performances.

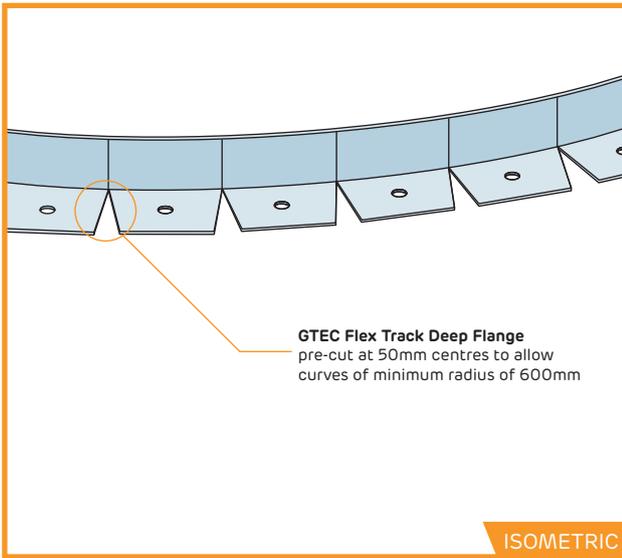
CURVED PARTITIONS

PT-CS-901M-Single frame curved partition

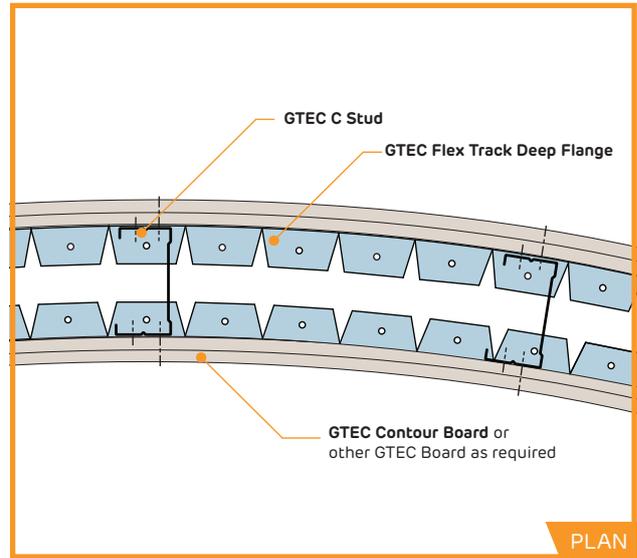


CURVED PARTITIONS continued

PT-CS-902M-Flex track component



PT-CS-903P-Curved partition plan



- ▶ Boards to be installed horizontally.
- ▶ Fix boards to continuous band of GTEC Flat Strap FS90/W behind all horizontal joints.

- ▶ Consult Technical Services for further guidance on curved partition specification.
- ▶ System performance may vary.

Radius (m)	MAXIMUM STUD CENTRES (mm)			
	6mm GTEC Contour Board	9.5mm GTEC Board	12.5mm GTEC Board	15mm GTEC Board
0.6 – 0.8	150 Wet	–	–	–
0.9 – 1.0	200 Dry	150 Wet	–	–
1.1 – 1.5	200 Dry	200 Wet	150 Wet	–
1.6 – 2.0	200 Dry	250 Wet	200 Wet	–
2.1 – 3.0	200 Dry	300 Wet	200 Wet	150 Wet
3.1 – 4.0	300 Dry	450 Wet	400 Wet	200 Wet
4.1 – 8.0	300 Dry	450 Wet	500 Wet	400 Wet
8.1 – 11.0	300 Dry	600 Dry	600 Dry	600 Wet
> 11.0	300 Dry	600 Dry	600 Dry	600 Dry

GTEC ACOUSTIC STUD PARTITION SYSTEMS

The GTEC Acoustic Stud is an alternative to 70mm, 90mm and 146mm GTEC C Studs, where higher levels of acoustic performance are needed from a partition.

With a unique profile design, the engineered slots create a spring section, resulting in less acoustic energy being transmitted through the stud and sound is absorbed within the partition.

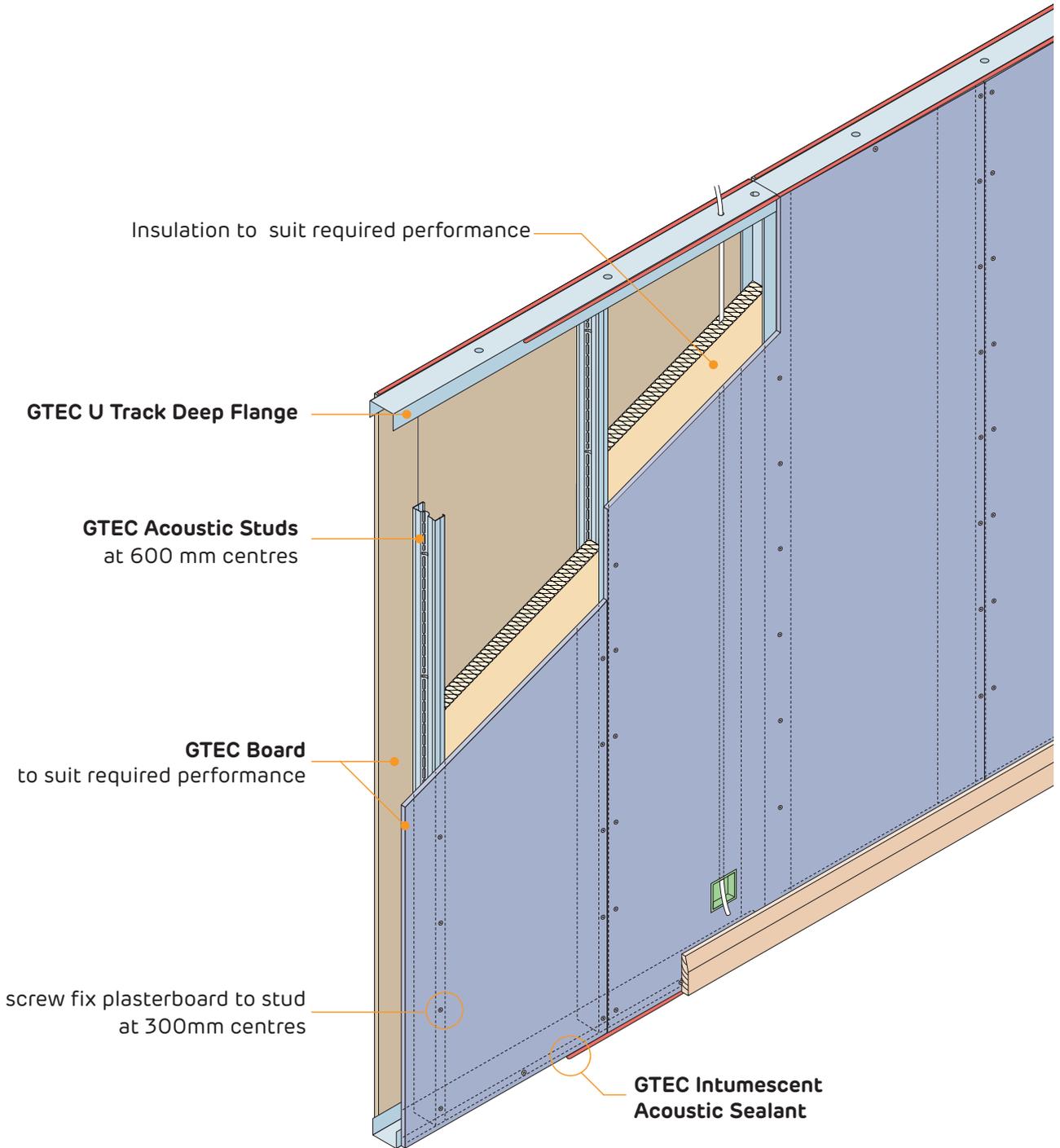
Compatibility with the GTEC C Stud system and all GTEC Boards allows a range of partition performances within identical footprints. For individual system performances, refer to the System Performance Tables on pages 22 to 43.

WHERE TO USE:

- GTEC Acoustic Stud is an internal partition system for commercial and domestic applications requiring high acoustic performance levels.

Benefits from all key features as detailed for GTEC C Stud, plus:

FEATURES	BENEFITS
Compatible with GTEC U Tracks	Only requires one change in component in a specification and on site
	Partition types can be mixed on site
Unique spring section design	Can eliminate insulation or board layers to achieve acoustic performance



SYSTEM COMPONENT TABLE

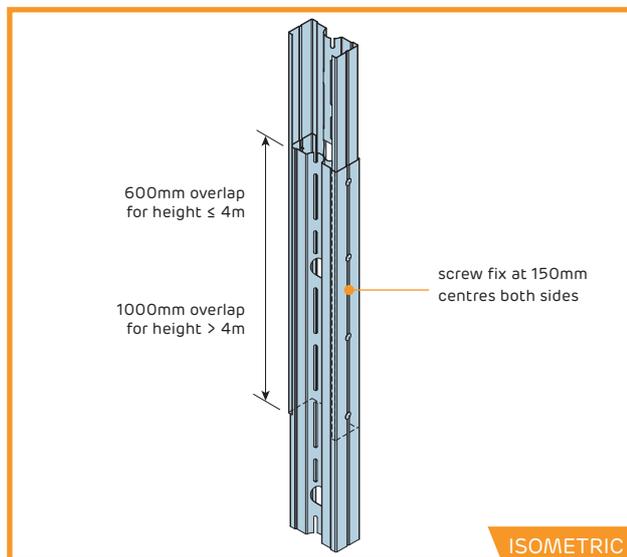
System Component	System primary use	Product Reference
BOARDS		
	All GTEC Boards Provides wall surface suitable for finishing	See performance table, p22-43
FRAME		
	GTEC Acoustic Stud Metal profile for vertical frame elements with improved acoustic performance	AS70/RX, AS90/RX, AS146/RX
	GTEC C Stud Metal profile for vertical frame elements at corners, door openings, abutments	CS50/RX, CS60/RX, CS70/RX, CS90/RX, CS146/RX, CS70/B, CS90/B, CS146/B, CS90/W, CS70/Y, CS90/Y, CS146/Y
	GTEC U Track Metal profile for head and base frame elements	UT52/RX, UT62/RX, UT72/RX, UT92/RX, UT148/RX
	GTEC U Track Deep Flange Used for partitions with heights exceeding 4.2m and with deflection heads	UDT62/B, UDT72/B, UDT92/B, UDT148/B
	GTEC U Track Extra Deep Flange Used for partitions with heights exceeding 7.2m and with deflection heads	UXT72/B, UXT92/W, UXT148/W
	GTEC Fixing Channel Provide support for plasterboard joints and fixtures	MFIX
	GTEC Metal Angle Multi-purpose galvanised metal section	MFC2525, MFC2550, MFC2330
	GTEC Flat Strap Provide support for plasterboard joints and fixtures	FS50/RX, FS90/W
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR
FIX		
	GTEC Screws (as appropriate) For connecting plasterboard and metal components	See fixing selector, p318-319
FINISHING		
	GTEC Corner and Edge beads Corner and edge reinforcement	n/a
	GTEC Joint Tape Joint reinforcement in conjunction with GTEC Jointing Compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

SYSTEM GUIDANCE

See guidance in GTEC C Stud section and additional considerations given below:

FRAME

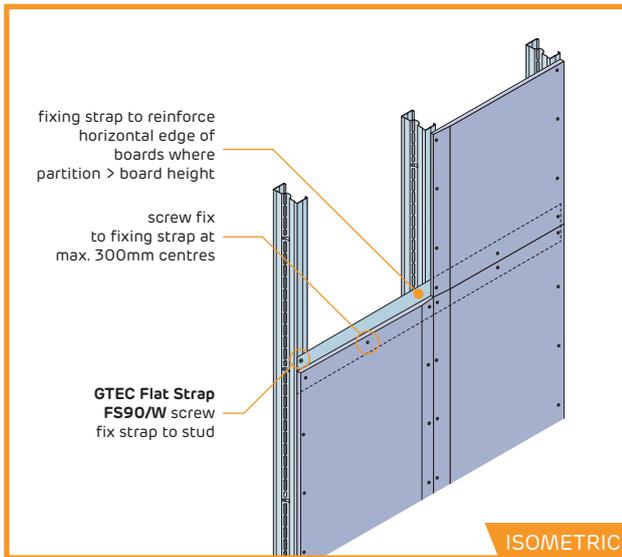
PT-AS-101M-Stud splice



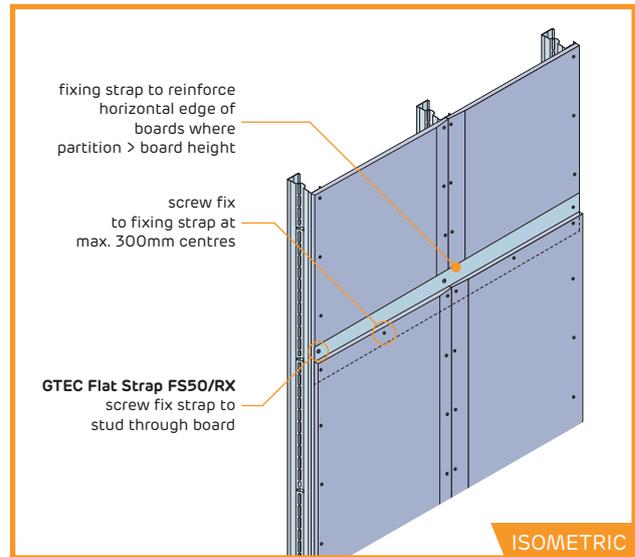
- ▶ Select compatible size (e.g. 70mm stud and 72mm track) GTEC Acoustic Stud, GTEC C Stud and GTEC U Track framing elements to suit system performance.
- ▶ Studs abutting structure (starter studs) to be GTEC C Stud, fixed with web flat to structure using appropriate fixings at maximum 600mm centres and fixed to head and track with appropriate GTEC Drywall Screws (see screw selector, p318-319).
- ▶ All GTEC C and Acoustic Studs to be 5mm shorter than floor to ceiling height or to suit deflection.
- ▶ Intermediate studs to be GTEC Acoustic Studs, facing in same direction, to be friction fitted to allow for adjustment during boarding.
- ▶ GTEC Studs to be at centres required to achieve performance and at a maximum of 600mm centres
- ▶ Where wall height exceeds available GTEC Stud length splice two lengths together ensuring overlap of 600mm for heights below 4m and 1000mm for heights above 4m.

BOARDING

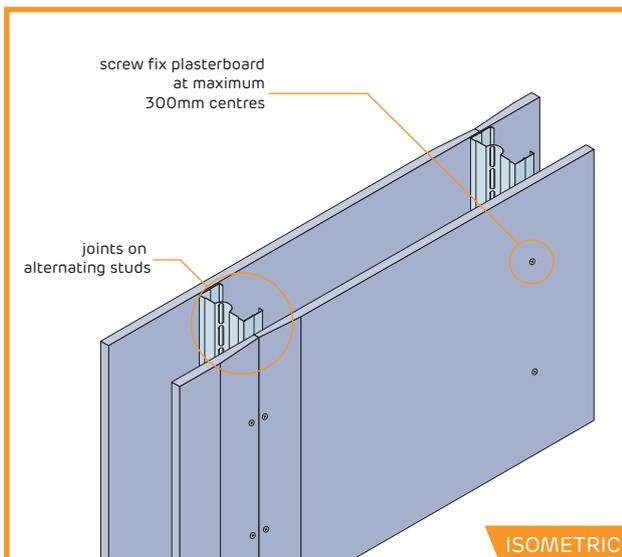
PT-AS-201M-Horizontal joint reinforcement, single layer



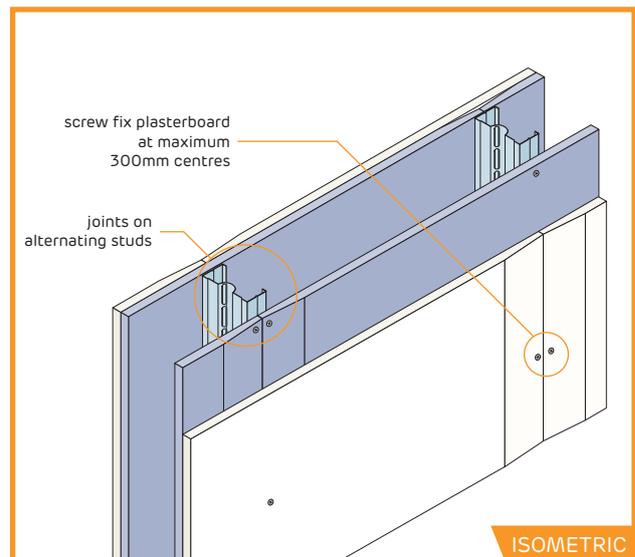
PT-AS-202M-Horizontal joint reinforcement, double layer



PT-AS-203M-Board fixing – single layer



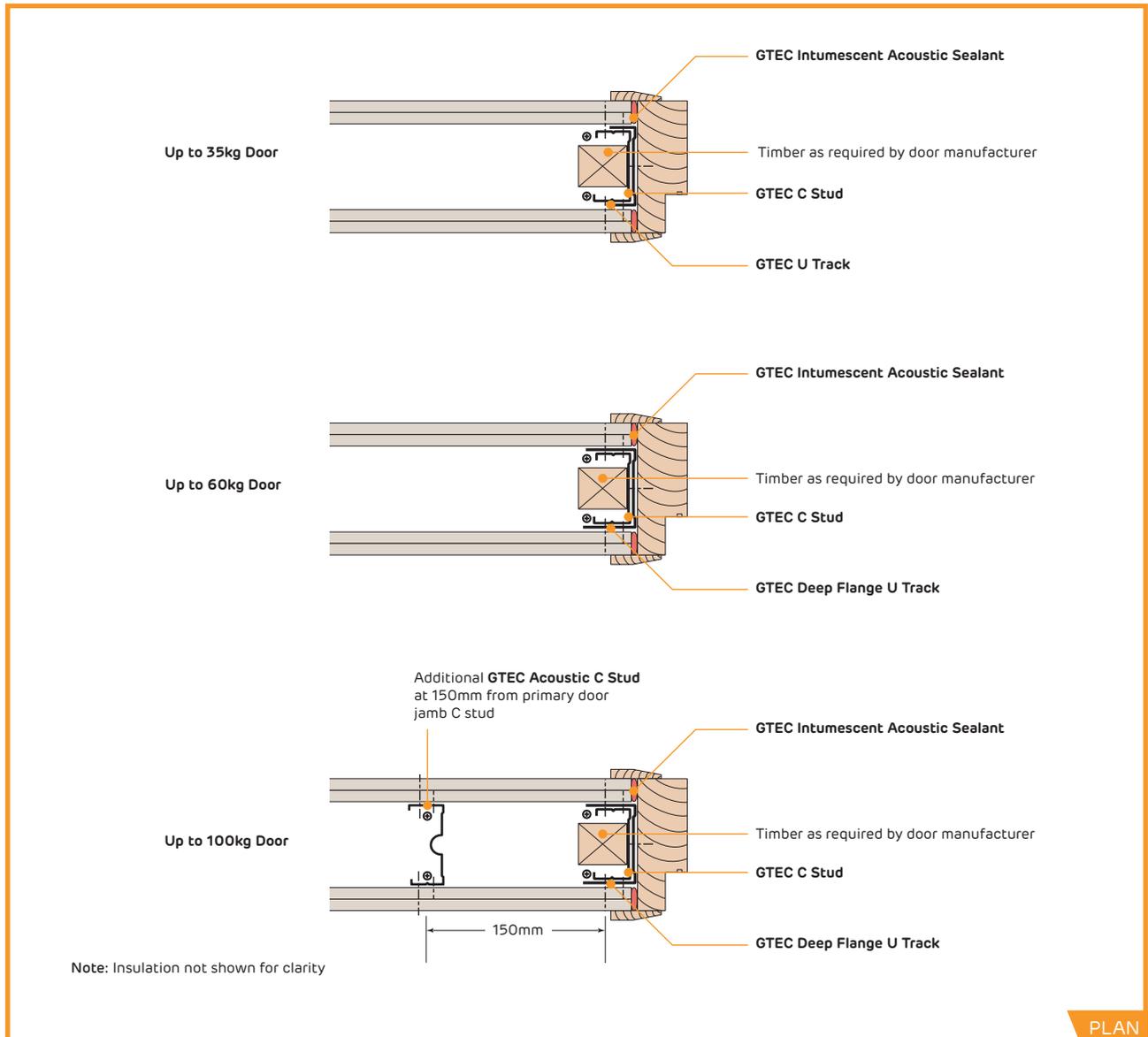
PT-AS-204M-Board fixing – double layer



- ▶ GTEC Acoustic Stud partition system is suitable for single, double and multiple layer boarding.

OPENINGS

PT-AS-401P- Door frames – 35 to 100kg

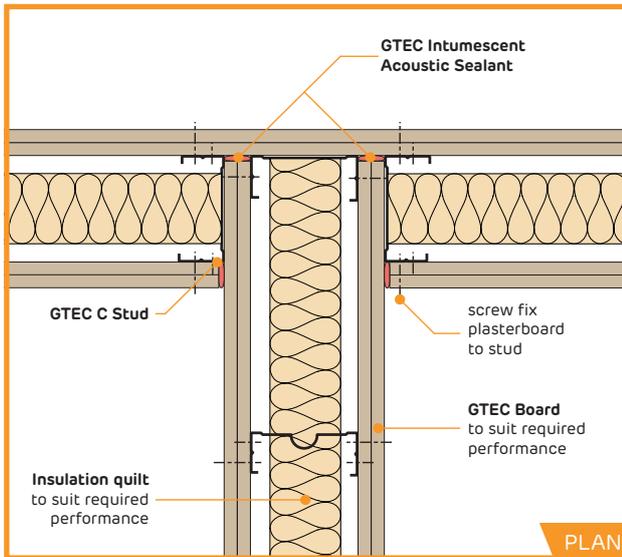


► Form openings following guidance in Construction Detail Drawings to suit door weights.

► GTEC C Studs to be used as jambs at openings to provide flat web for fixing.

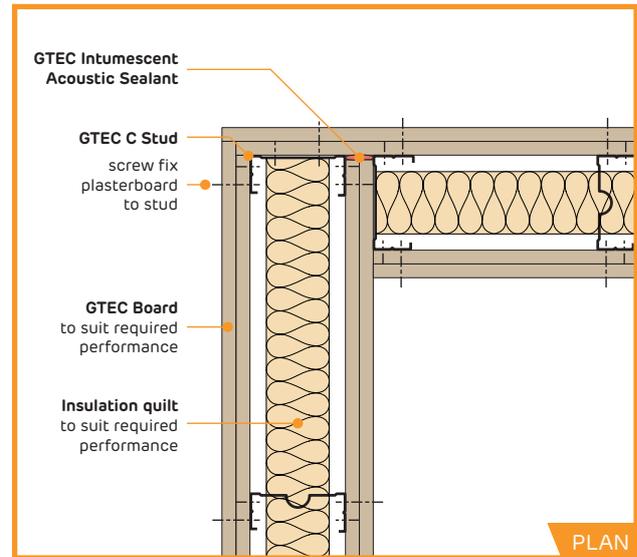
CORNERS AND JUNCTIONS

PT-AS-501P- Acoustic T-junction, double layer



- ▶ GTEC C Studs to be used at corners and junctions to provide flat web for fixing.

PT-AS-502P-Corner – double layer



- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

CURVED PARTITIONS

- ▶ GTEC Acoustic Studs are not suitable for use in curved partitions.



GTEC ACOUSTIC HOMESPAN PARTITION SYSTEMS

The GTEC Acoustic Homespanspan system is a lightweight partition specifically designed to meet Building Regulation Part E where $40R_w$ dB is required for internal partitions in dwellings. This performance is achieved using 44mm and 50mm GTEC Acoustic Homespanspan Studs and Tracks and GTEC Acoustic Homespanspan Board without the need to install insulation to achieve a $40R_w$ dB rating.

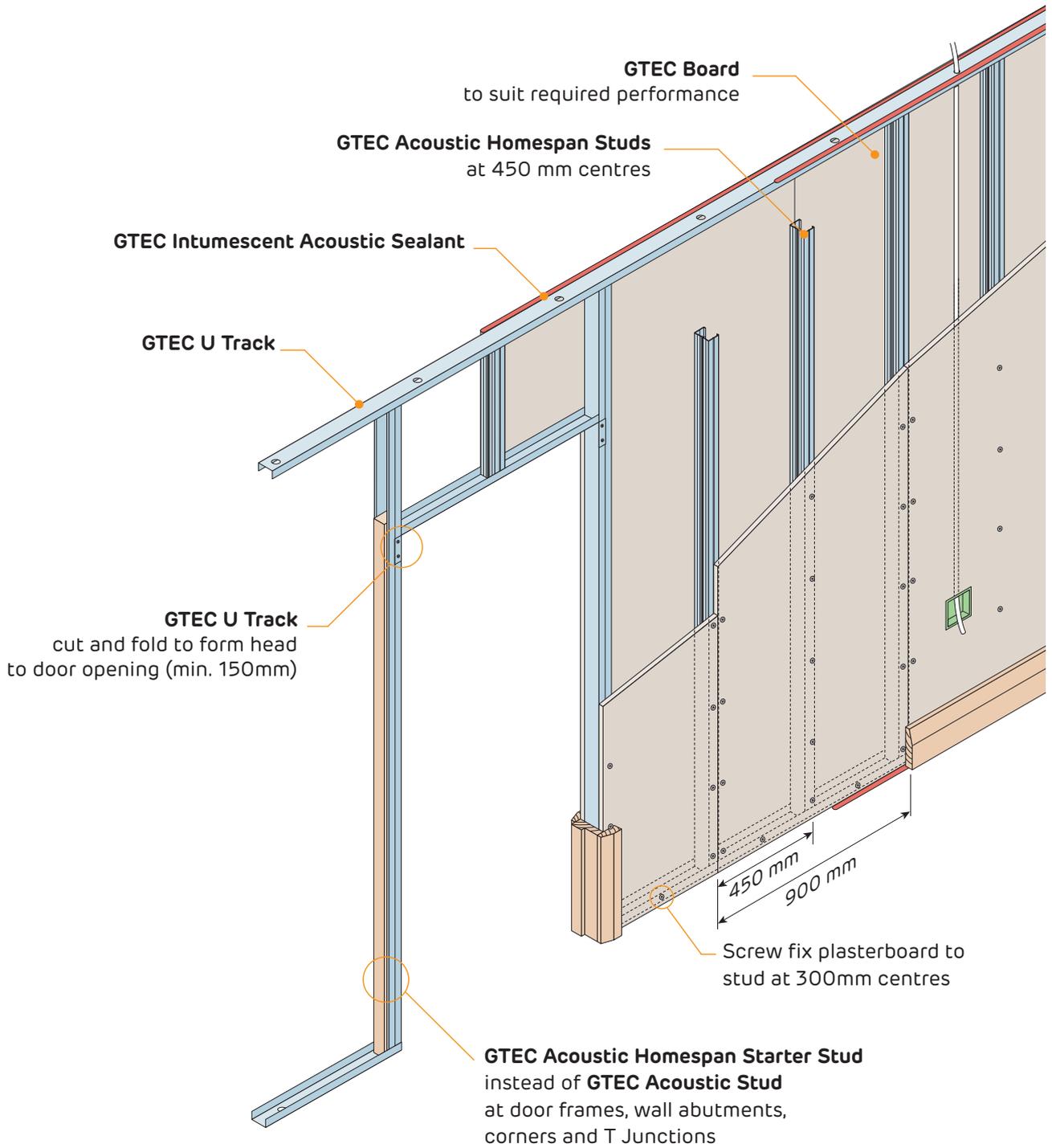
The narrow stud width and specially configured boards simplify specification and use the least material to achieve the demands of Part E.

WHERE TO USE:

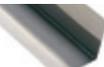
- ▶ GTEC Acoustic Homespanspan is an internal partition for new-build domestic applications.

Benefits from all key features as detailed for GTEC C Stud, plus:

FEATURES	BENEFITS
Achieves acoustic performance using narrow width studs	Maintains a low system footprint to minimise the effect on the room size
Achieves acoustic performance without the need for insulation	Quicker to install than other systems which use insulation to achieve the same performance



SYSTEM COMPONENT TABLE

System Component	System primary use	Product Reference
BOARDS		
	GTEC Acoustic Homespan Board 900mm board to provide wall surface suitable for finishing	See performance table, p43
	GTEC Acoustic Homespan MR Board Moisture resistant 900mm board	See performance table
FRAME		
	GTEC Acoustic Homespan Stud Metal profile for vertical frame elements with improved acoustic performance	AHS44/RX, AHS50/RX
	GTEC Acoustic Homespan Starter Stud Metal profile for vertical frame elements at corners, door openings, abutments	CS44/RX, CS50/RX
	GTEC U Track Metal profile for head and base frame elements	UT45/RX, UT52/RX
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR
FIX		
	GTEC Screws (as appropriate) For connecting plasterboard and metal components	See screw selector, p318-319
FINISHING		
	GTEC Corner and Edge beads Corner and edge reinforcement	n/a
	GTEC Joint Tape Joint reinforcement in conjunction with GTEC Jointing Compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

SYSTEM GUIDANCE

See guidance in GTEC C Stud section and additional considerations given below:

FRAME

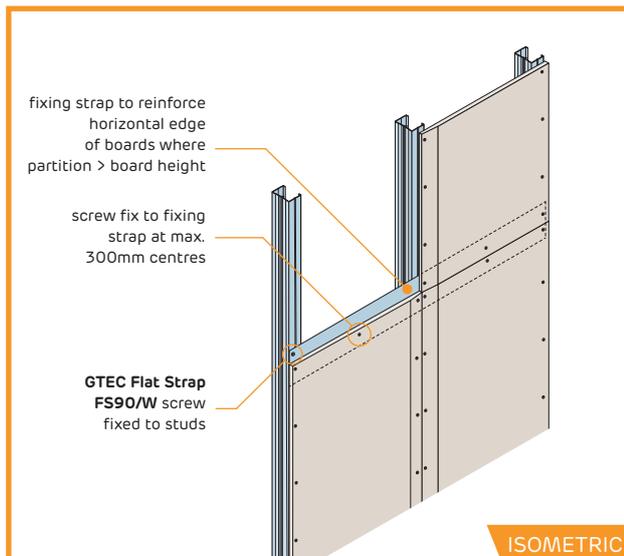
- ▶ Select compatible size (e.g. 44mm stud and 45mm track) GTEC Acoustic Homespan Stud, GTEC Acoustic Homespan Starter Stud and GTEC U Track framing elements to suit system performance.
- ▶ GTEC Acoustic Homespan is not suitable for heights above 2.8m and so does not require deeper flange tracks.
- ▶ Studs abutting structure to be GTEC Acoustic Homespan Starter Studs fixed with web flat to structure using appropriate fixings at maximum 600mm centres and fixed to head and track with appropriate GTEC Drywall Screws (see screw selector, p318-319).
- ▶ Intermediate GTEC Acoustic Homespan Studs, facing in same direction, to be friction fitted to allow for adjustment during boarding.
- ▶ All GTEC Studs to be 5mm shorter than floor to ceiling height.
- ▶ GTEC Acoustic Homespan Studs to be at a maximum of 450mm centres.

INSULATION

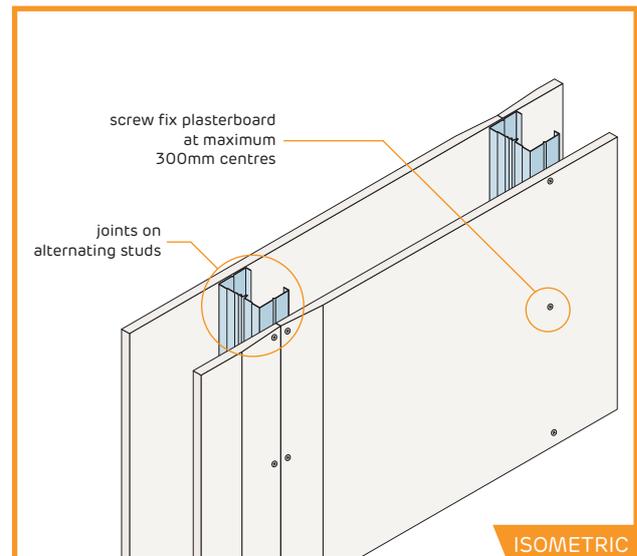
- ▶ Insulation is not required to achieve 40 R_wdB performance with the GTEC Acoustic Homespan system but may be fitted to increase performance, see performance tables p43.

BOARDING

PT-AH-201M-Horizontal joint reinforcement, single layer

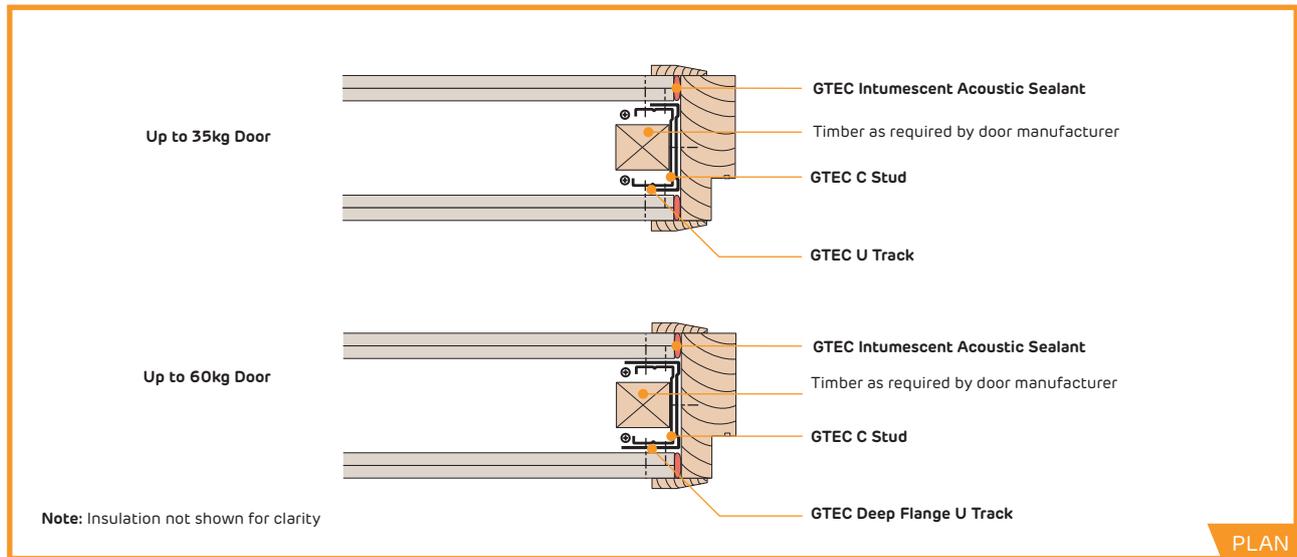


PT-AH-203M-Board fixing – single layer



OPENINGS

PT-AH-401P-Door frames – 35kg to 60kg door loads

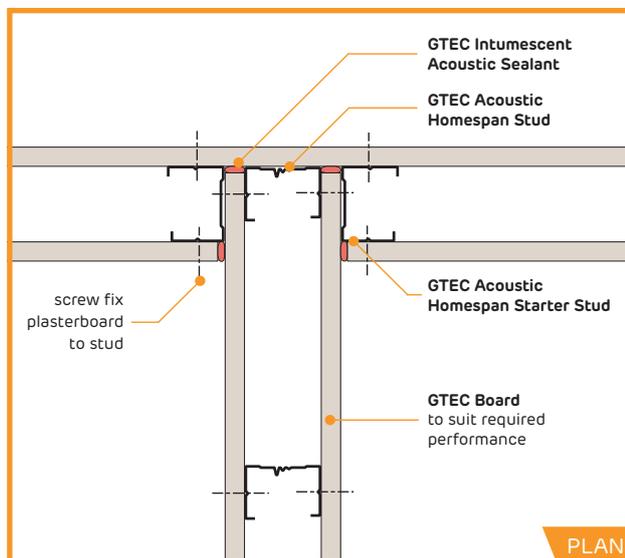


- ▶ Form openings following guidance in Construction Detail Drawings to suit door weights.

- ▶ GTEC Acoustic Homespan Starter Studs to be used as jambs at openings to provide flat web for fixing.

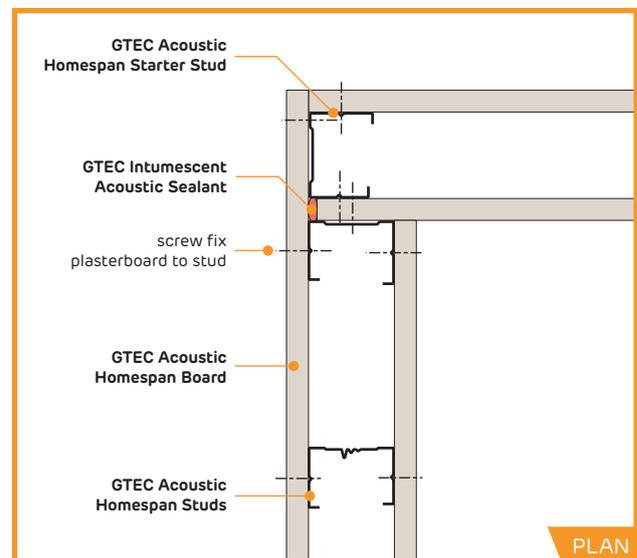
CORNERS AND JUNCTIONS

PT-AH-501P-Acoustic T-junction, single layer



- ▶ GTEC Acoustic Homespan Starter Studs to be used at corners and junctions to provide flat web for fixing.

PT-AH-502P-Corner – single layer



- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

CURVED PARTITIONS

- ▶ GTEC Acoustic Homespan Studs are not suitable for use in curved partitions.



GTEC TWIN FRAME PARTITION SYSTEMS

Separating walls and divisions between noisy or noise sensitive rooms requires very high levels of sound insulation. The GTEC Twin Frame metal system is a dual layer C Stud Partition used where the highest fire and acoustic performance is required.

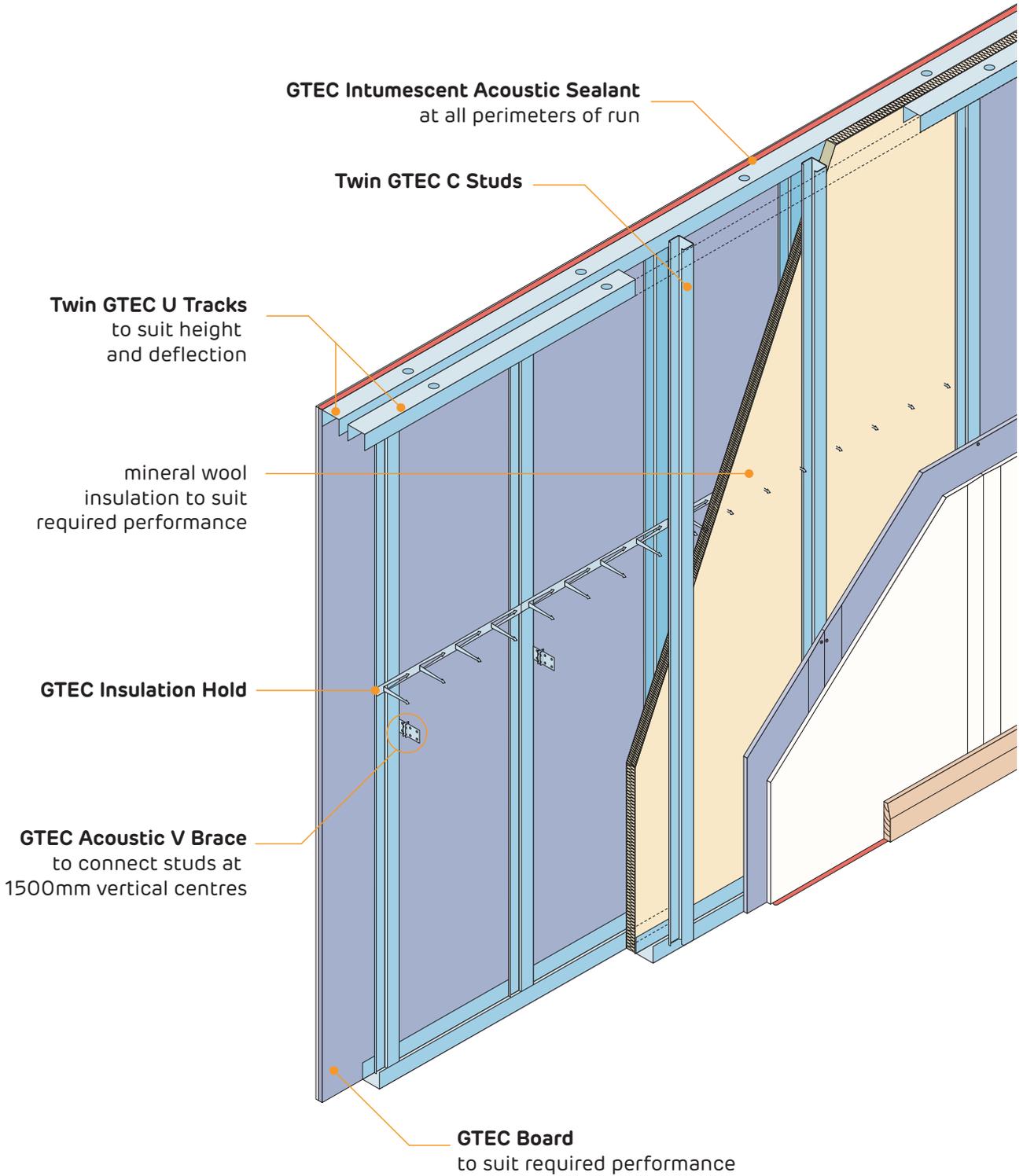
GTEC Twin Frame Partitions are constructed from two metal frames in parallel, braced together with GTEC Acoustic V Brace and boarded on the external sides only. Varying cavity size options help optimise acoustic insulation and provide a service cavity. The GTEC Twin Frame system is a lightweight, flexible option compared to traditional masonry separating walls. Refer to the System Performance Tables on pages 22 to 43 for full performance details.

WHERE TO USE:

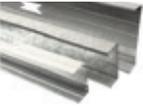
- ▶ GTEC Twin Frame systems are suitable for creating internal dividing walls in both domestic and commercial applications with increased performance and / or height requirements.
- ▶ The highest performing GTEC Twin Frame partitions are commonly used in cinemas, theatres and schools.

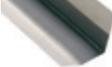
Benefits from all key features as detailed for GTEC C Stud, plus:

FEATURES	BENEFITS
Cavity space between the two frames	Provides high levels of acoustic, thermal and fire performance
Varying cavity size	Optimisable for obstacles in the path of the partition
	Higher partition heights
Increased height capabilities	Enables use in large commercial spaces



SYSTEM COMPONENT TABLE

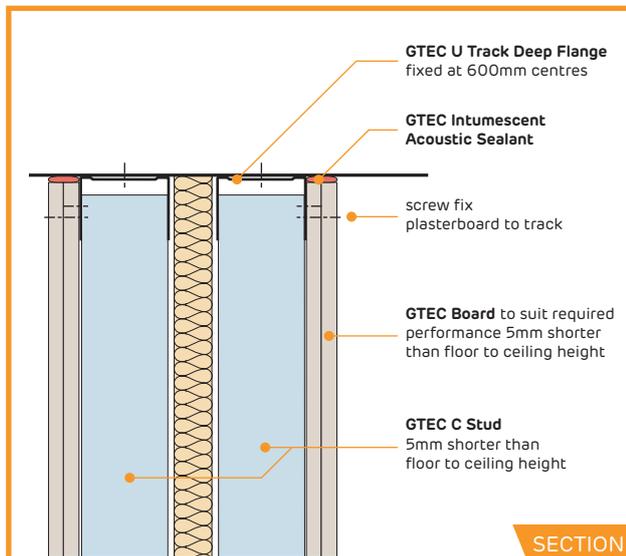
System Component	System primary use	Product Reference
BOARDS		
	All GTEC Boards Provides wall surface suitable for finishing	See performance table, p22-43
FRAME		
	GTEC C Stud Metal profile for vertical frame elements	CS50/RX, CS60/RX, CS70/RX, CS90/RX, CS146/RX, CS70/B, CS90/B, CS146/B, CS90/W, CS70/Y, CS90/Y, CS146/Y
	GTEC I Stud Alternative metal profile for vertical frame elements	IS50/RX, IS60/B, IS60/B, IS70/B, IS90/B
	GTEC U Track Metal profile for head and base frame elements	UT52/RX, UT62/RX, UT72/RX, UT92/RX, UT148/RX
	GTEC U Track Deep Flange Used for partitions with heights exceeding 4.2m and with deflection heads	UDT62/B, UDT72/B, UDT92/B, UDT148/B
	GTEC U Track Extra Deep Flange Used for partitions with heights exceeding 7.2m and with deflection heads	UXT72/B, UXT92/W, UXT148/W
	GTEC Acoustic V Brace Acoustic frame bracing	VBRACE
	GTEC Acoustic V Brace 90 Acoustic frame bracing for connecting at 90°	VBRACE90
	GTEC Resilient Tape Provides acoustic isolation between components	RAFT50
	GTEC Fixing Channel Provide support for plasterboard joints and fixtures	MFIX
	GTEC Metal Angle Multi-purpose galvanised metal section	MFC2525, MFC2550, MFC2330
	GTEC Flat Strap Provide support for plasterboard joints and fixtures	FS50/RX, FS90/W
	GTEC Flex Track Deep Flange Steel track for curved partitions	DFLEX/B
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR

System Component	System primary use	Product Reference
FIX		
	GTEC Screws (as appropriate) For connecting plasterboard and metal components	See screw selector, p318-319
FINISHING		
	GTEC Corner and Edge beads Corner and edge reinforcement	n/a
	GTEC Joint Tape Joint reinforcement in conjunction with GTEC Jointing Compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

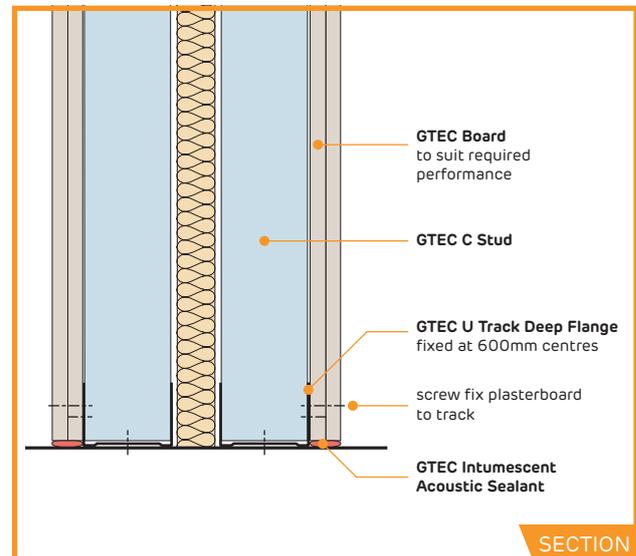
SYSTEM GUIDANCE

FRAME

PT-CT-101S-Head – no deflection

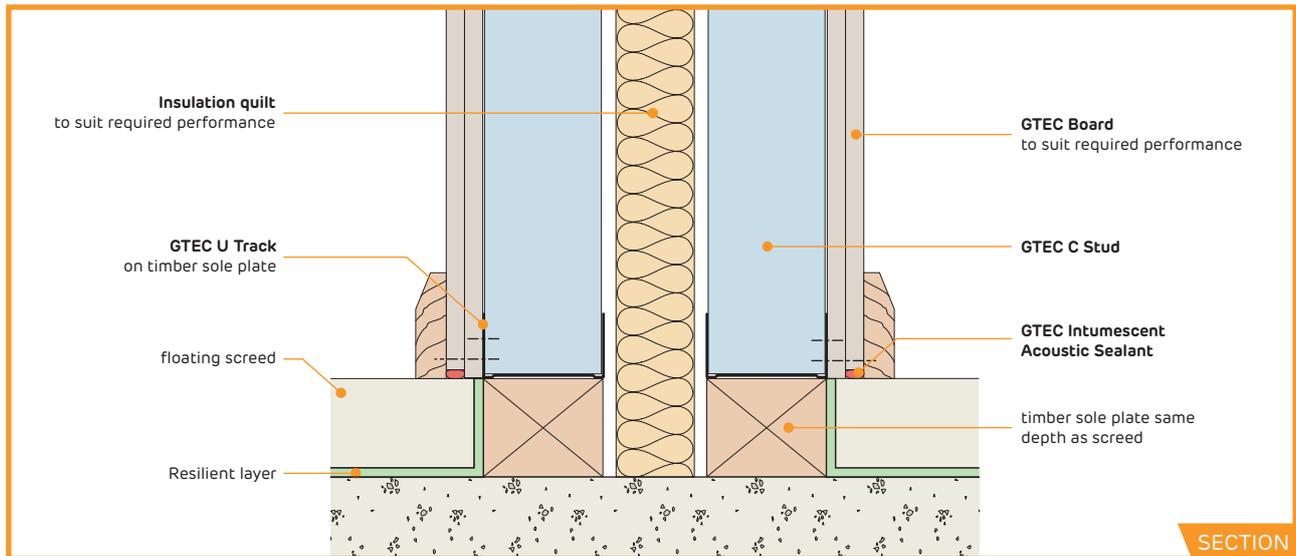


PT-CT-102S-Base



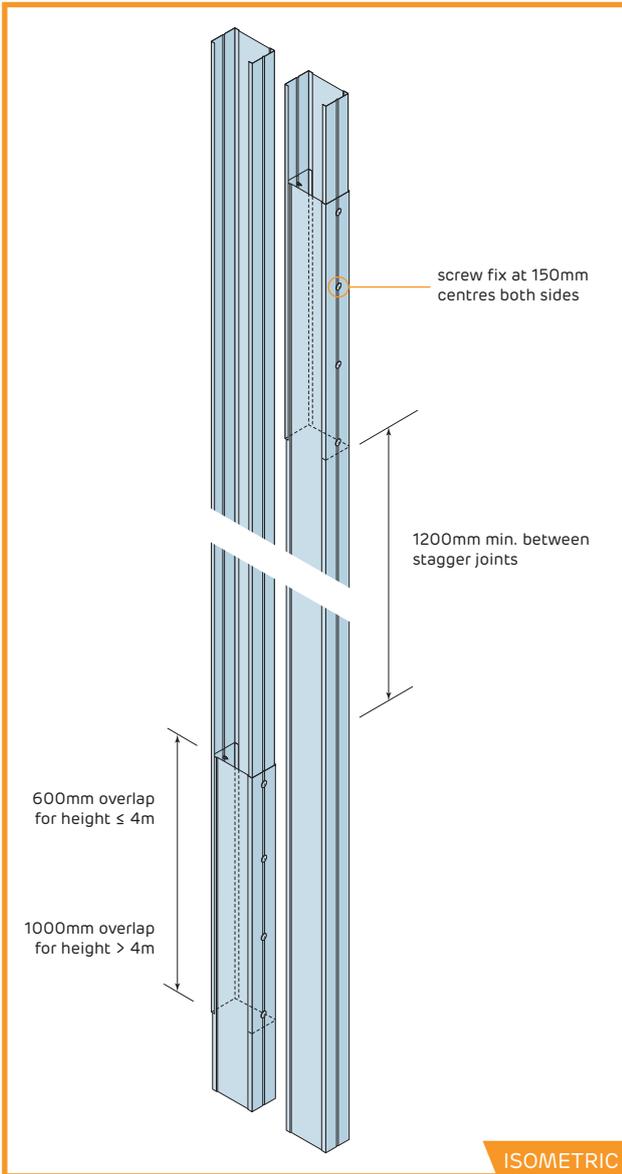
FRAME continued

PT-CT-103S-Base with timber sole plate and screed

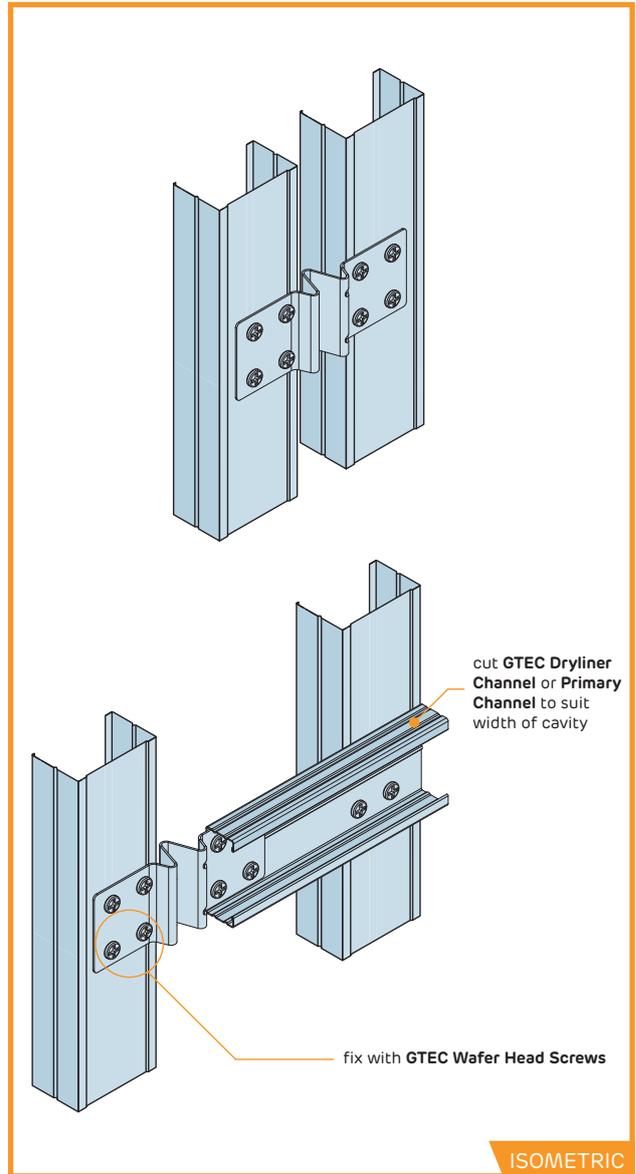


- ▶ Select compatible size (e.g. 50mm stud and 52mm track) GTEC C Stud and GTEC U Track framing elements to suit system performance.
- ▶ GTEC U Track Deep or Extra Deep Flange to be used for heights greater than 4.2m and where deflection allowance is required (see p93).
- ▶ GTEC Twin Frame partition to be constructed using two parallel track and stud frames braced together with GTEC Acoustic V Brace at 1500mm vertical centres, mechanically fixed to both studs with four appropriate GTEC Drywall screws (see screw selector, p318-319).
- ▶ Separate parallel frames as required by system performance. Where frame separation is wider than GTEC Acoustic V Brace extend with additional length of GTEC Primary Channel or Dryliner Channel.
- ▶ Studs abutting structure (starter studs) to be fixed with web flat to structure using appropriate fixings at maximum 600mm centres and fixed to head and track with appropriate GTEC Drywall Screws (see screw selector, p318-319).
- ▶ GTEC U Track to be fixed flat to structure using appropriate fixings at maximum 600mm centres.
- ▶ Timber sole plate may be required on uneven floors or where partition is constructed prior to screeding.
- ▶ Protect base track from moisture with damp proof membrane when situated on newly laid concrete floors.
- ▶ All GTEC C Studs to be 5mm shorter than floor to ceiling height except in case of deflection requirement (see p93).
- ▶ Intermediate GTEC C Studs, facing in same direction, to be friction fitted to allow for adjustment during boarding.
- ▶ GTEC C Studs to be at centres required to achieve performance and at a maximum of 600mm centres.
- ▶ Where wall height exceeds available GTEC Stud length splice two lengths together ensuring overlap of 600mm for heights below 4m and 1000mm for heights above 4m.
- ▶ Acoustic break in slab for party walls may be required.

PT-CT-104M-Stud splice

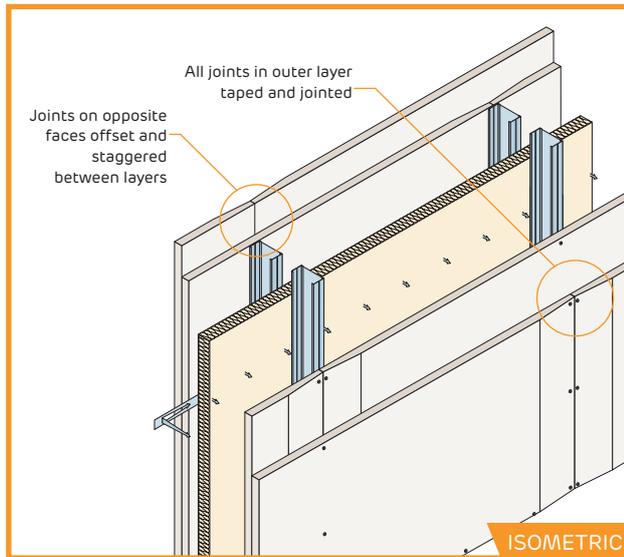


PT-CT-105M-V-brace fixing and extensions



INSULATION

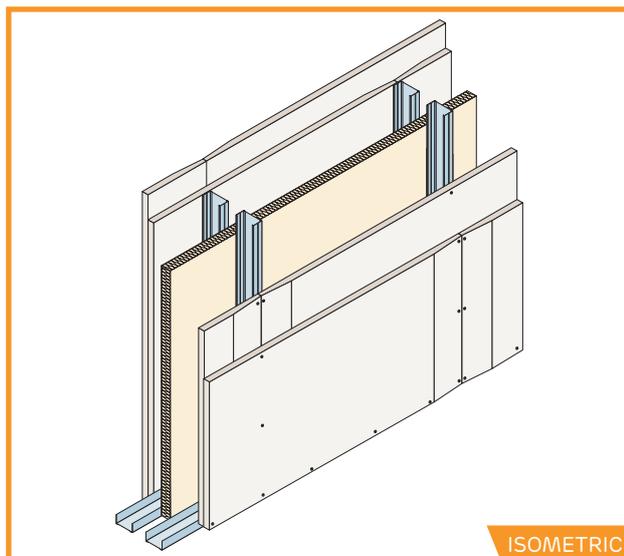
PT-CT-151M-Insulation Hold



- ▶ Insulation, if required, to be of type and thickness to achieve performance and installed in a continuous layer between studs.
- ▶ Where insulation may be expected to slump suspend from GTEC Insulation Hold strips fixed across studs, 150mm from top of partition and at 1200mm vertical centres.

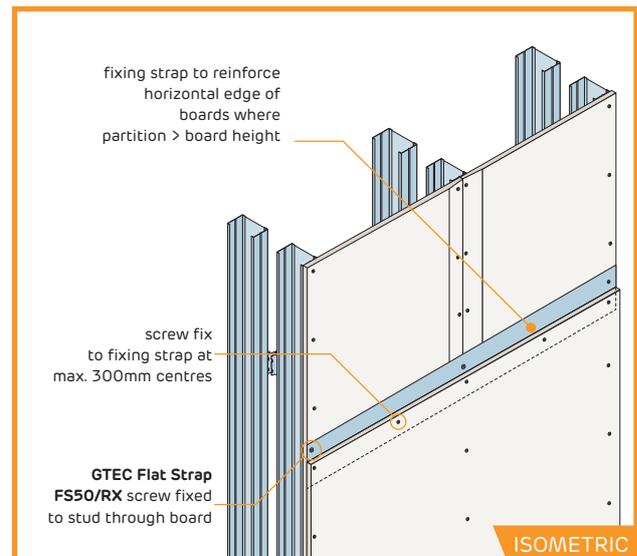
BOARDING

PT-CT-201M-Board fixing – double layer



- ▶ GTEC Twin Frame partition system is suitable for single, double and multiple layer boarding.
- ▶ Select base layer(s) and finishing layer(s) GTEC Boards by consulting System Tables (p22-43) and Product Specification (p278-291) to achieve required performance. See High Performance Boards guide (p12-15) for further selection information.
- ▶ Boards to be 5mm less than floor to ceiling height except in case of deflection requirement, see below.
- ▶ Strips of board 300mm wide or less to be avoided by stud location rearrangement.

PT-CT-202M-Horizontal joint reinforcement



- ▶ Boards to be mechanically fixed to studs at 300mm centres using appropriate GTEC Drywall Screws (see screw selector and guidance, p318-319).
- ▶ Base layers of boarding may be temporarily fixed at 600mm centres providing final layer is fixed through to stud at 300mm centres.
- ▶ Board edges to be centred over studs.
- ▶ Stagger all board joints between layers.
- ▶ Stagger all board joints on opposing sides of partition.

Over-height single layer boarding:

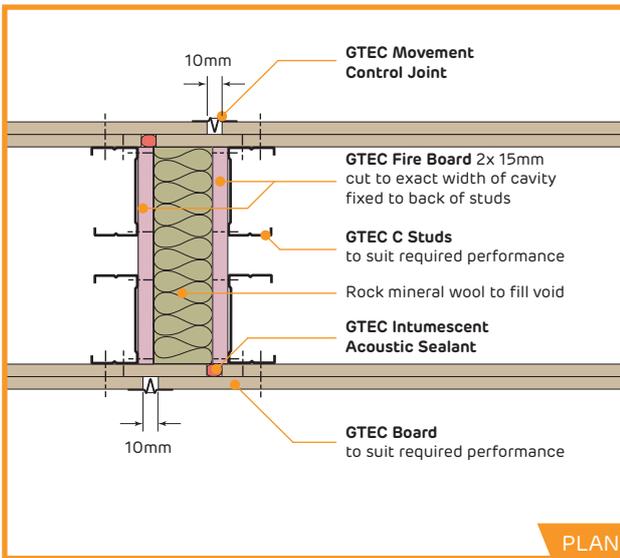
- ▶ Where partition height exceeds board height fix boards to continuous band of GTEC Flat Strap FS90/W or GTEC MFIX behind all horizontal joints to maintain fire integrity.

Over-height multiple layer boarding:

- ▶ Where partition height exceeds board height for double or multiple layer boarding fix outer layer of boards to continuous band of GTEC Flat Strap FS50/RX behind outer horizontal joints.

MOVEMENT CONTROL JOINTS

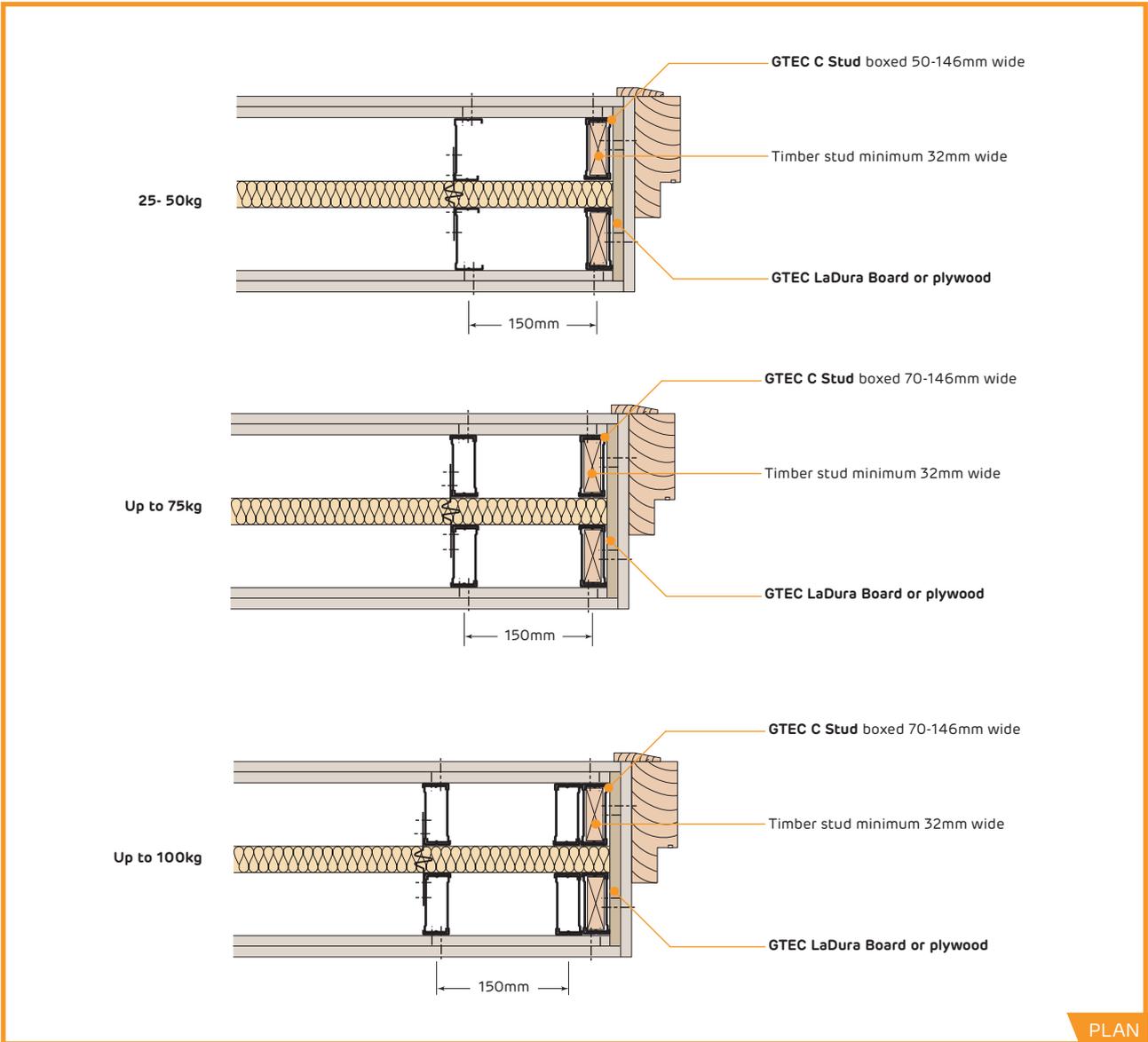
PT-CT-301P-Movement control joint – double boarded



- ▶ Form movement control joints at maximum 10m intervals in the partition run.
- ▶ Form movement control joints where the partition crosses a structural movement joint.
- ▶ Fix GTEC Movement Control Joint, butted end-to-end, to board with sheradised or galvanised staples.

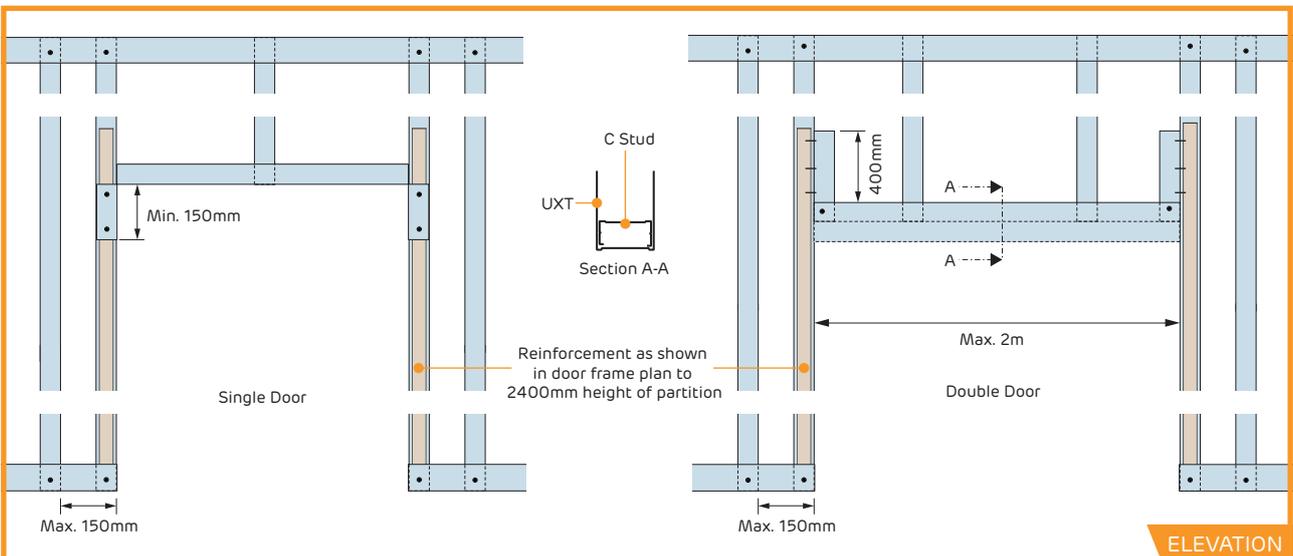
OPENINGS

PT-CT-401P-Door frames – 25kg to 100kg door loads



PLAN

PT-CT-403E-Single and double door frames

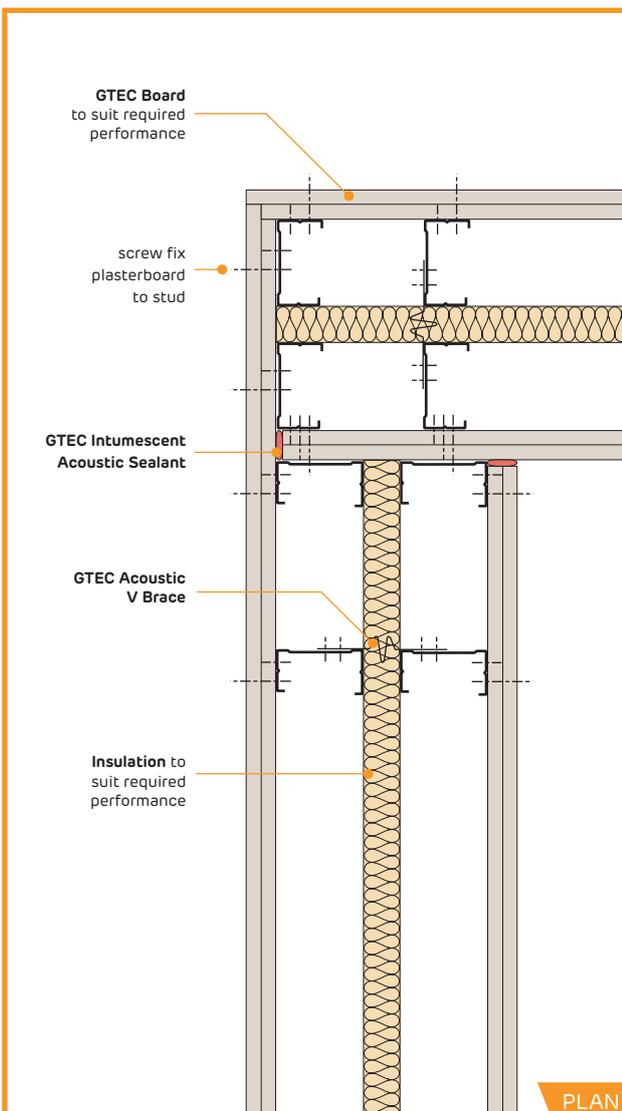


ELEVATION

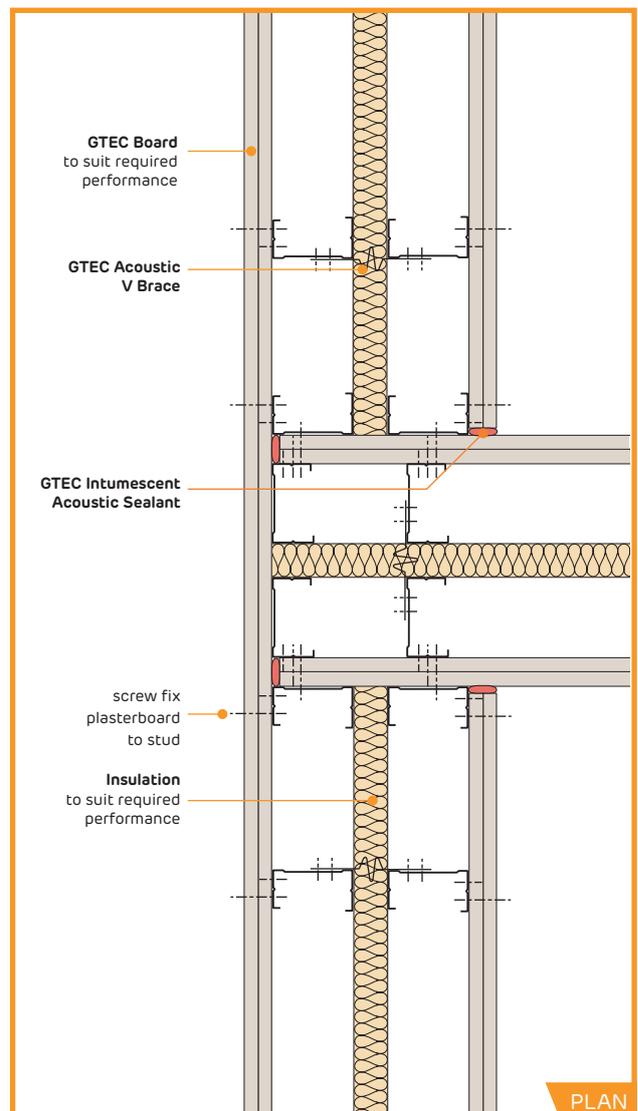
- ▶ Form openings following guidance in Construction Detail Drawings to suit door weights.
- ▶ Reinforce head-to-jamb junction 150mm down each jamb stud by cutting and folding head track.
- ▶ Reinforce jamb studs with timber and boxed studs as described in Construction Detail Drawings.
- ▶ Jamb studs to be fixed to track with appropriate GTEC Drywall Screws (see screw selector, p318-319).

CORNERS AND JUNCTIONS

PT-CT-501P-Corner detail, double layer

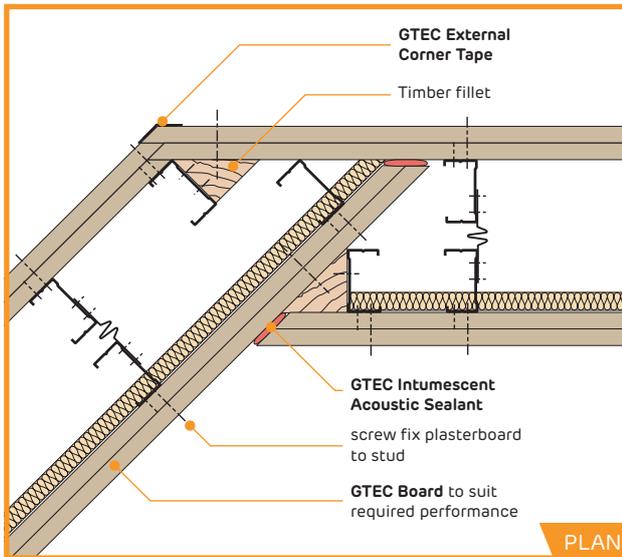


PT-CT-502P-Acoustic T-junctions, double layer

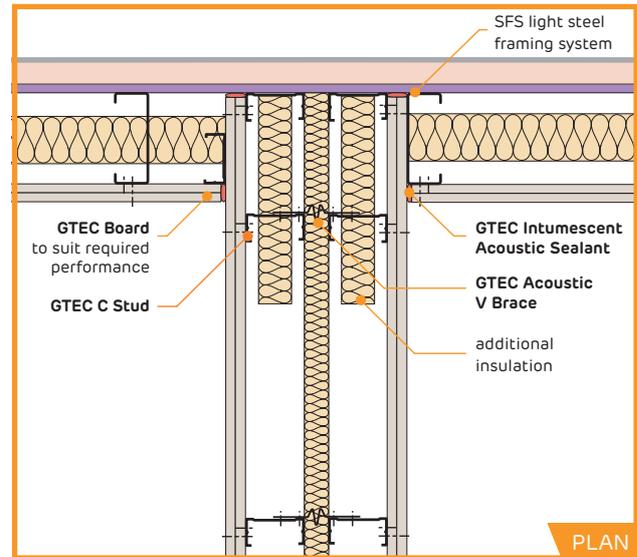


CORNERS AND JUNCTIONS continued

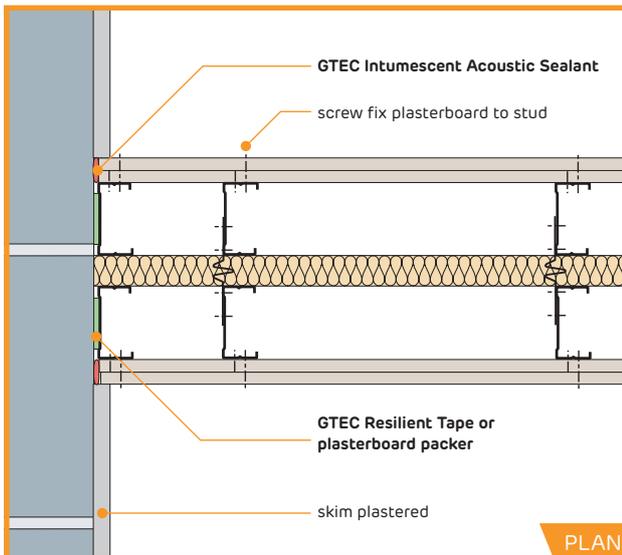
PT-CT-503P-Splayed corners



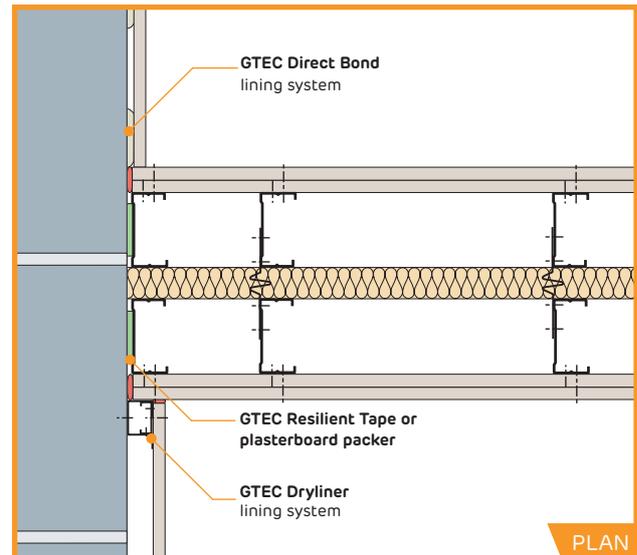
PT-CT-507P-Junction with external SFS wall, acoustic rated



PT-CT-505P-Junction with Masonry – Plastered



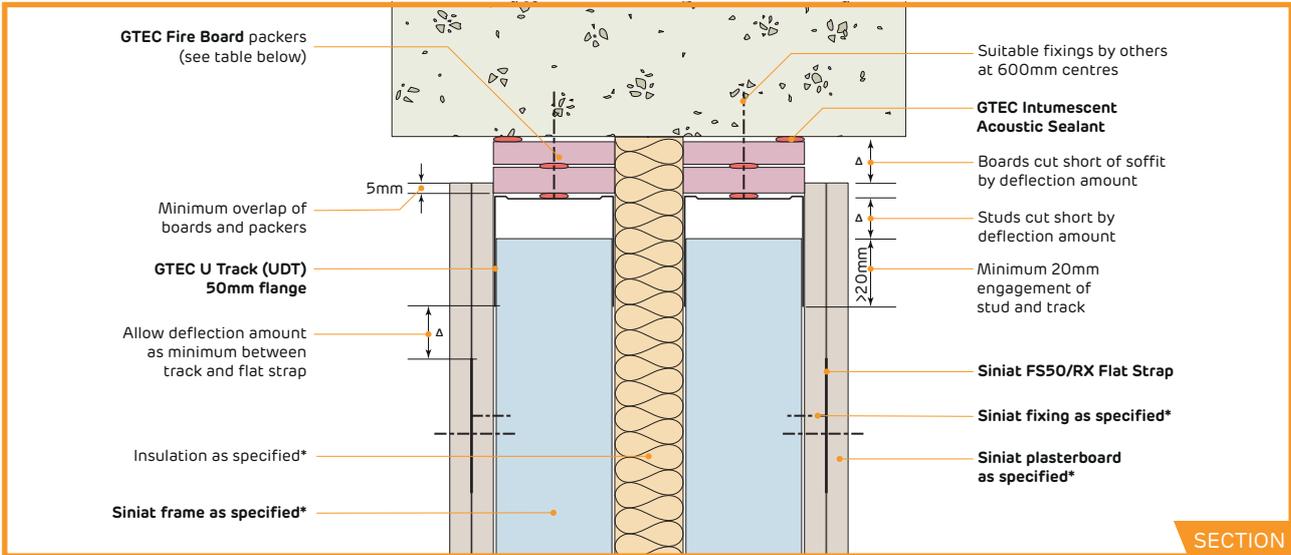
PT-CT-506P-Junction with Masonry – Dryliner & Direct Bond



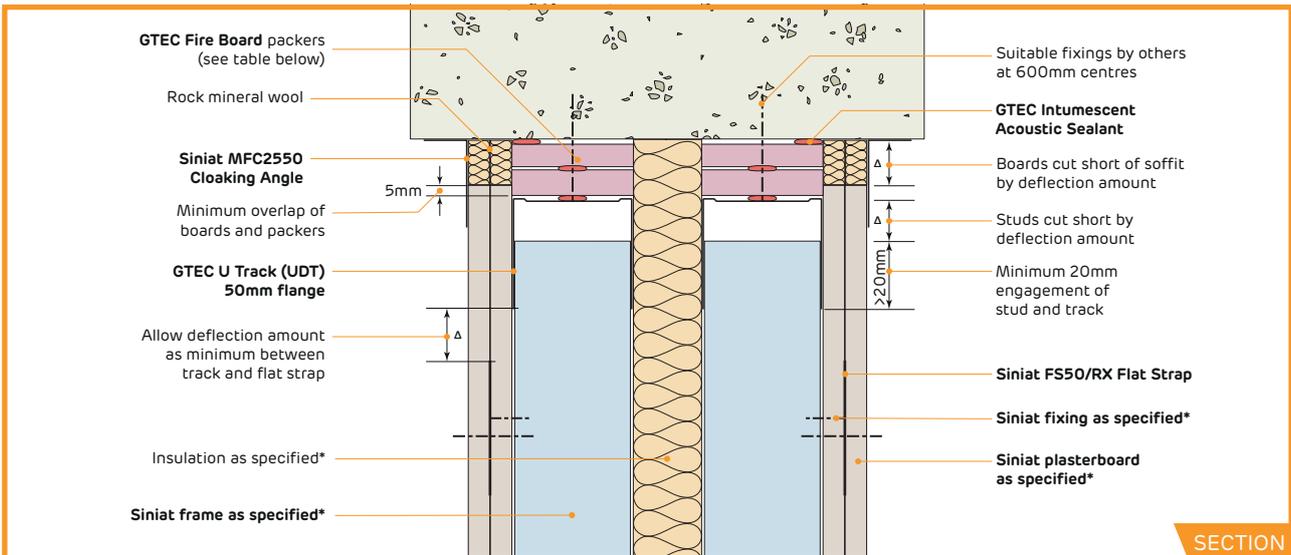
- ▶ Abutting partitions to coincide with studs, install additional intermediate 'pick-up' stud if required.
- ▶ Connect studs through plasterboards at corners and junctions at 600mm vertical centres using appropriate GTEC Drywall Screws.
- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

HEAD DEFLECTION

PT-CS 601S-Deflection head for up to 60 mins rated partitions



PT-CS 601S-Deflection head for up to 120 mins rated partitions



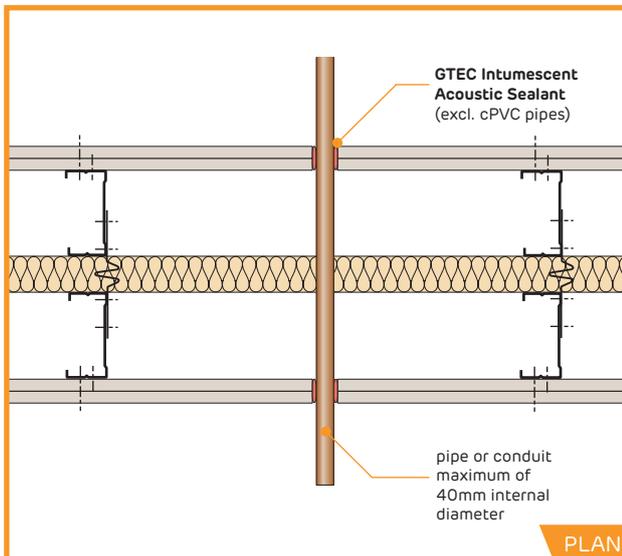
Deflection required:	Packer for all fire ratings:	Track for all fire ratings:	30 & 60 mins	90 & 120 mins
0-5mm	12.5mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
6-10mm	15mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
11-20mm	2x 12.5mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
21-25mm	2x 15mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
26-32mm	3x 12.5mm GTEC Fire Board	GTEC Deep Flange U Track (UDT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
33-40mm	3x 15mm GTEC Fire Board	GTEC Extra Deep Flange U Track (UXT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle
41-45mm	4x 12.5mm GTEC Fire Board	GTEC Extra Deep Flange U Track (UXT)	GTEC Intumescent Acoustic Sealant	Mineral wool & cloaking angle

HEAD DEFLECTION continued

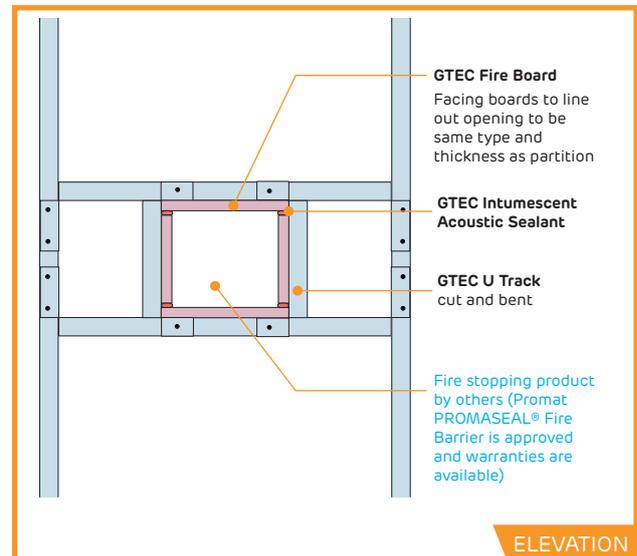
- ▶ See Construction Detail Drawings and Tables for full details. Contact Siniat Technical Services for further information.
- ▶ Continuity of head packer to be maintained.
- ▶ No mechanical connection to be made between stud and head track.
- ▶ All air paths to be sealed with GTEC Intumescent Acoustic Sealant.
- ▶ GTEC Studs to be cut short of track by deflection amount.
- ▶ GTEC Studs and Tracks to overlap by minimum 30mm.
- ▶ GTEC Boards to be cut short of partition height by deflection amount.
- ▶ GTEC Boards to overlap packer by minimum of 5mm.

PENETRATIONS

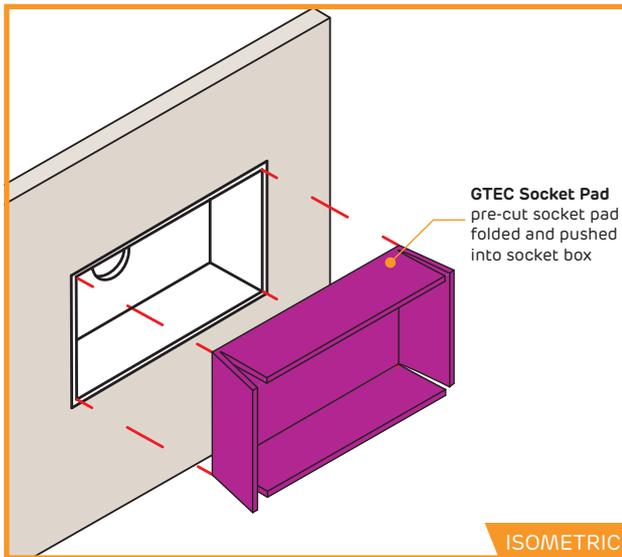
PT-CT-701P-Small diameter pipe penetration



PT-CT-702E-Cable tray penetration



PT-CT-703M-socket pad



- ▶ M&E runs and other penetrating services to be pre-planned to minimise or eliminate penetrations through rated partitions.
- ▶ Any penetrations must be fully sealed with GTEC Intumescent Acoustic Sealant or other fire resisting material as specified in Construction Detail Drawings.
- ▶ Protect all electrical cables in cavity with conduit.
- ▶ Details shown are typical supporting constructions for proprietary fire-stopping products, seek further advice from fire-stopping product supplier.



Promat PROMASEAL® fire-stopping products are approved for use with Siniat systems and combined warranties are available. Contact Technical Services for further information.

FIXTURES

- ▶ Consult fixture details in GTEC C Stud Section (p63-65) for recommended fixture provision.

FINISHING

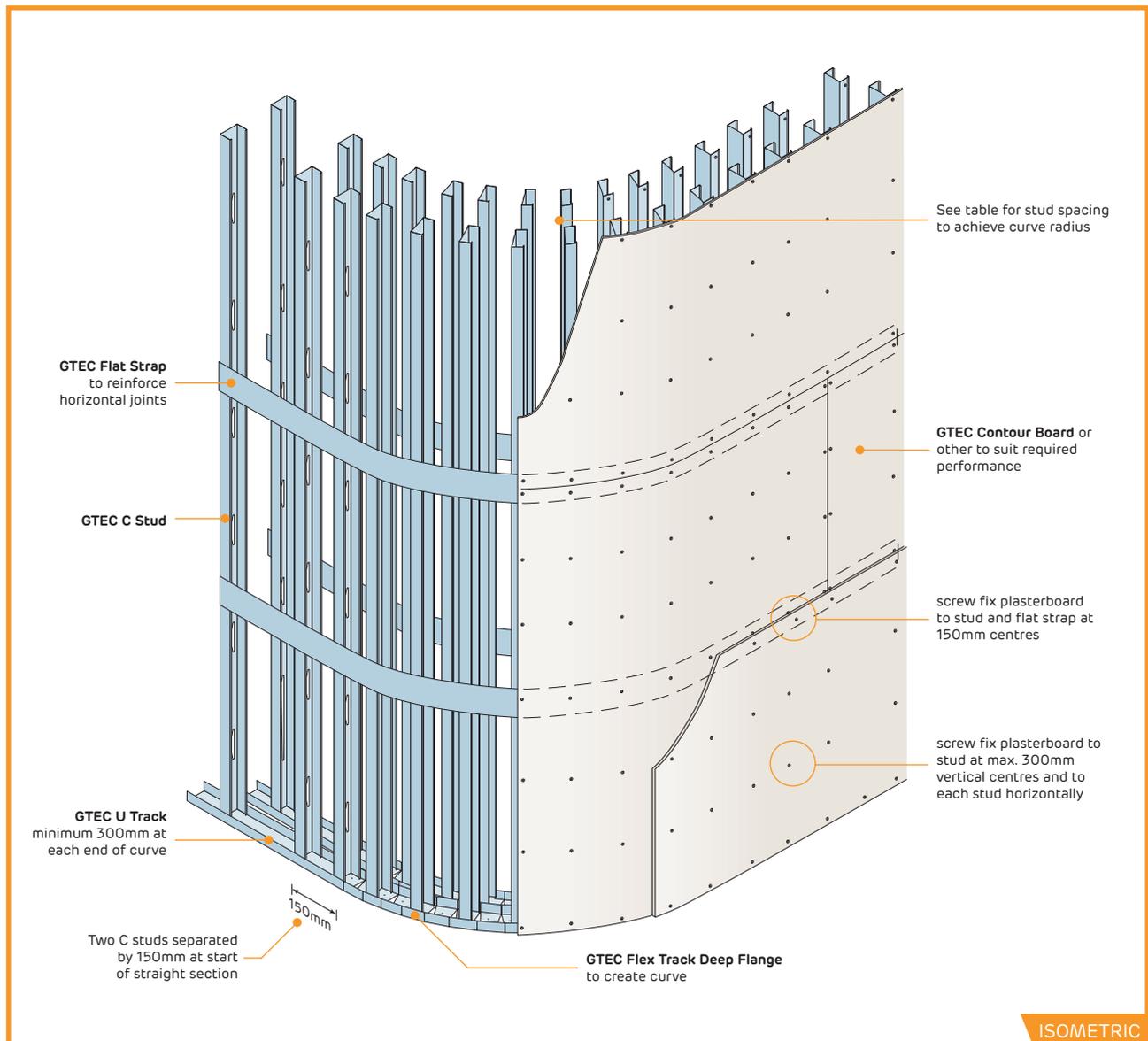
- ▶ All board joints to be taped, jointed or finished according to guidance in Finishing section (p262-275) to achieve system performances.
- ▶ GTEC Finish materials appropriate to board type to be used.

SYSTEM CONTINUITY

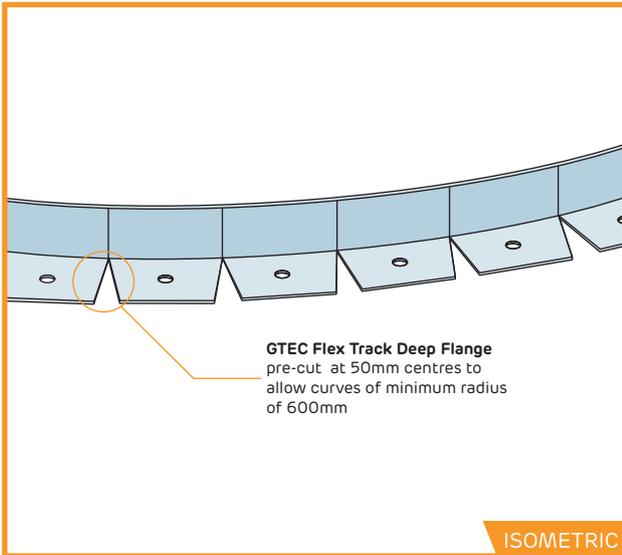
- ▶ Bead of GTEC Intumescent Acoustic Sealant to be applied to perimeter of all runs and in all other locations specified in Construction Detail Drawings.
- ▶ GTEC Intumescent Acoustic Sealant to seal all other acoustic or air paths to prevent fire/smoke spread and acoustic transmission.
- ▶ Full, imperforate system continuity to be maintained to achieve rated performances.

CURVED PARTITIONS

PT-CT-901M-Curved partition

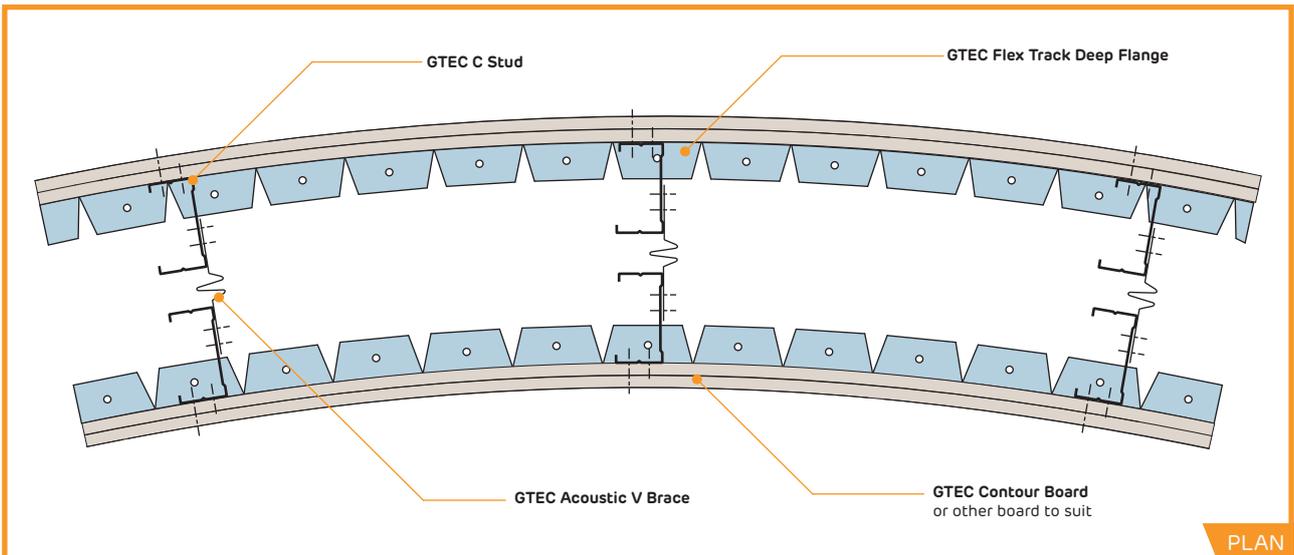


PT-CT-902M-Flex track component



- ▶ Boards to be installed horizontally.
- ▶ Fix boards to continuous band of GTEC Flat Strap FS90/W behind all horizontal joints.
- ▶ Consult Technical Services for further guidance on curved partition specification.

PT-CT-903P-Twin frame curved partition plan



MAXIMUM STUD CENTRES (mm)

Radius (m)	6mm GTEC Contour Board	9.5mm GTEC Board	12.5mm GTEC Board	15mm GTEC Board
0.6 – 0.8	150 Wet	–	–	–
0.9 – 1.0	200 Dry	150 Wet	–	–
1.1 – 1.5	200 Dry	200 Wet	150 Wet	–
1.6 – 2.0	200 Dry	250 Wet	200 Wet	–
2.1 – 3.0	200 Dry	300 Wet	200 Wet	150 Wet
3.1 – 4.0	300 Dry	450 Wet	400 Wet	200 Wet
4.1 – 8.0	300 Dry	450 Wet	500 Wet	400 Wet
8.1 – 11.0	300 Dry	600 Dry	600 Dry	600 Wet
> 11.0	300 Dry	600 Dry	600 Dry	600 Dry

GTEC RESILIENT ACOUSTIC STUD PARTITION SYSTEMS

GTEC Resilient Acoustic Stud is a new acoustic innovation providing an alternative solution for party walls and corridor walls to meet Approved Document Part E of the Buildings Regulations.

The GTEC Resilient Acoustic Stud has an inbuilt acoustic absorbing material within a C-Stud which reduces airborne and impact sound from passing through dividing walls.

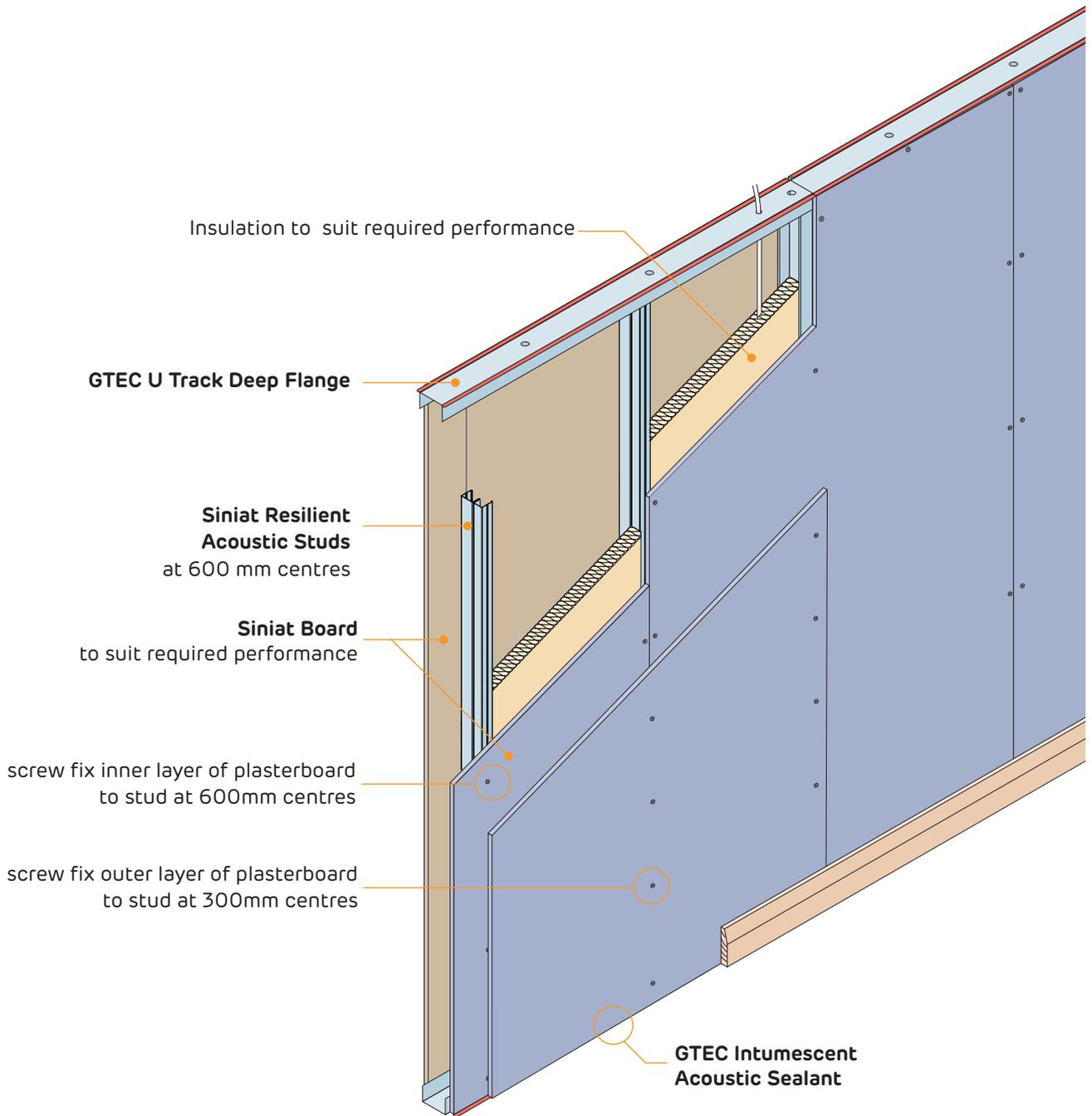
It is constructed using a frame of GTEC U Track at the head and base with the Studs for vertical framing as per a single frame partition. Available in 70mm width for rooms for residential purposes and 90mm width for separating walls.

WHERE TO USE:

- ▶ Party walls and corridor walls in Hotels, Student accommodation, Care homes, Apartments and Change of use

Benefits from all key features as detailed for GTEC C Stud, plus:

FEATURES	BENEFITS
A significantly thinner partition footprint	Greater gross internal area whilst providing high acoustic performance
Compatible with GTEC U Tracks	Only requires one change in component in a specification and on site
	Partition types can be mixed on site
Less system components required in comparison to a Twin Frame system and Resilient Bar system	Less components on-site and easier to install
	Proven by BRE to be up to 50% quicker to build



SYSTEM COMPONENT TABLE

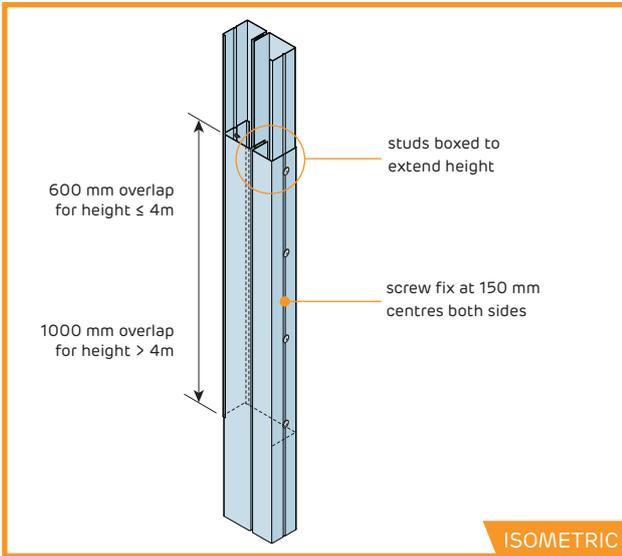
System Component	System primary use	Product Reference
BOARDS		
	GTEC Boards Universal / Megadeco / dB Boards	See performance tables, p22-43
FRAME		
	GTEC Resilient Acoustic Stud Metal Profile for vertical frame elements	RAS70/P , RAS90/P
	GTEC U Track Metal profile for head and base frame elements	UT72/RX, UT92/RX
	GTEC U Track Deep Flange Used for partitions with heights exceeding 4.2m and with deflection heads	UDT72/B, UDT92/B
	GTEC Metal Angle Multi-purpose galvanised metal section	MFC2525, MFC2550, MFC2330
	GTEC Flat Strap Provide Support for plasterboard joints and fixtures	FS50/RX, FS90/W
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR
FIX		
	GTEC Drywall Screws (as appropriate) For connecting plasterboard and metal components	See fixing selector, p318-319
FINISHING		
	GTEC Corner and Edge beads Corner and edge reinforcement	n/a
	GTEC Joint Tape Joint reinforcement in conjunction with GTEC jointing compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

SYSTEM GUIDANCE

See guidance in GTEC C Stud section and additional considerations given below;

FRAME

PT-RS-105M-Stud splice



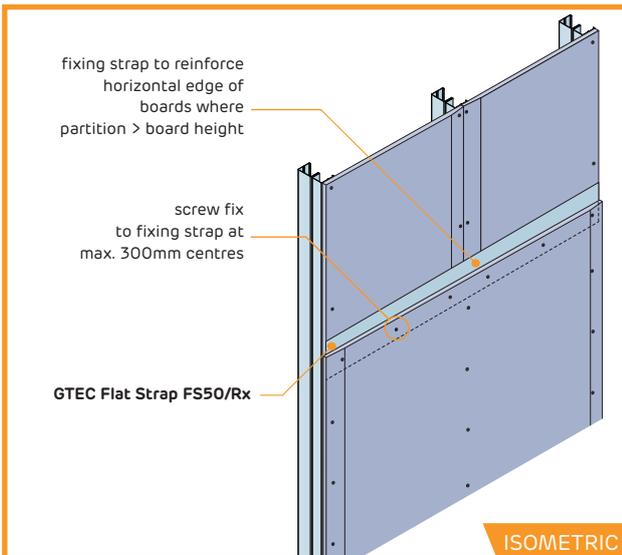
- ▶ Studs abutting structure (starter studs) to be GTEC Resilient Acoustic Stud, fixed with web flat to structure using appropriate fixings at maximum 600mm centres and fixed to head and track with appropriate GTEC Drywall Screws (see screw selector, p318-319).
- ▶ GTEC Resilient Acoustic Studs to be 5mm shorter than floor to ceiling height or to suit deflection.
- ▶ Intermediate studs to be GTEC Resilient Acoustic Studs, facing in same direction, to be friction fitted to allow for adjustment during boarding.
- ▶ GTEC Studs to be at centres required to achieve performance and at a maximum of 600mm centres.

- ▶ Select compatible size (e.g. 70mm stud and 72mm track) GTEC Resilient Acoustic Stud, GTEC C Stud and GTEC U Track framing elements to suit system performance.

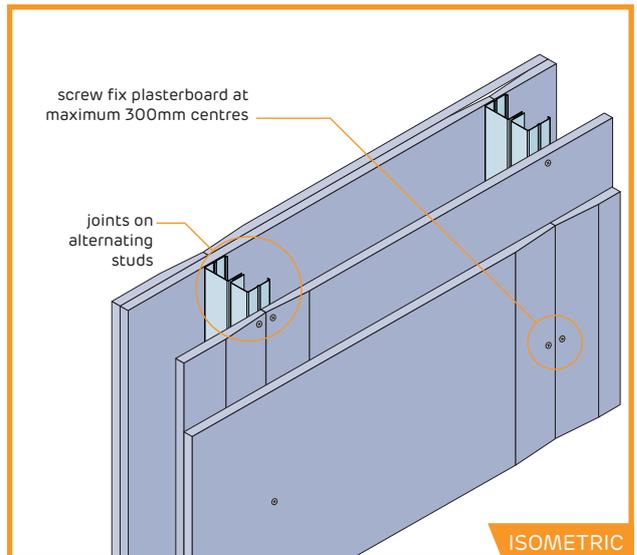
- ▶ Where wall height exceeds available GTEC Stud length splice two lengths together ensuring overlap of 600mm for heights below 4m and 1000mm for heights above 4m.

BOARDING

PT-RS-202M-Horizontal-joint-reinforcement, double layer



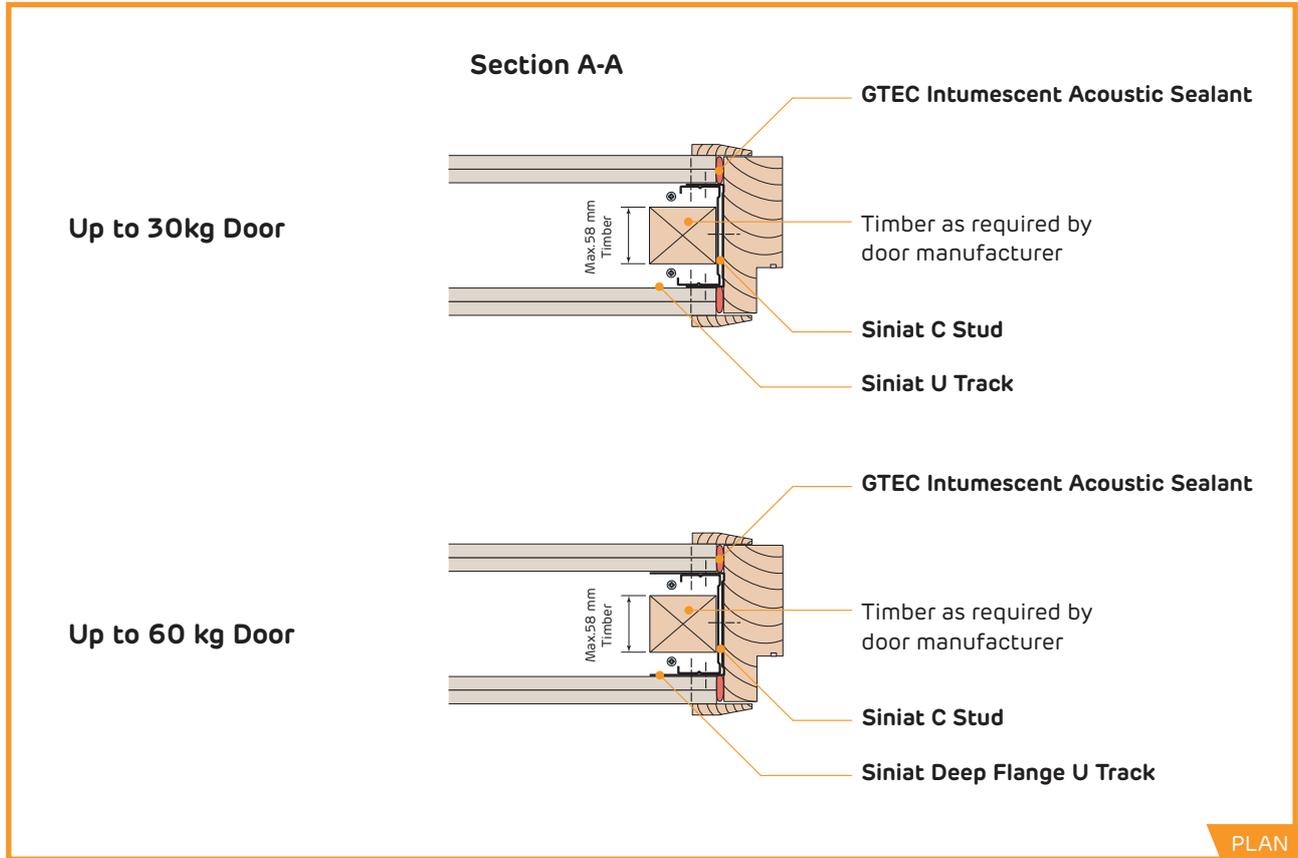
PT-RS-204M-Board-fixing, double layer



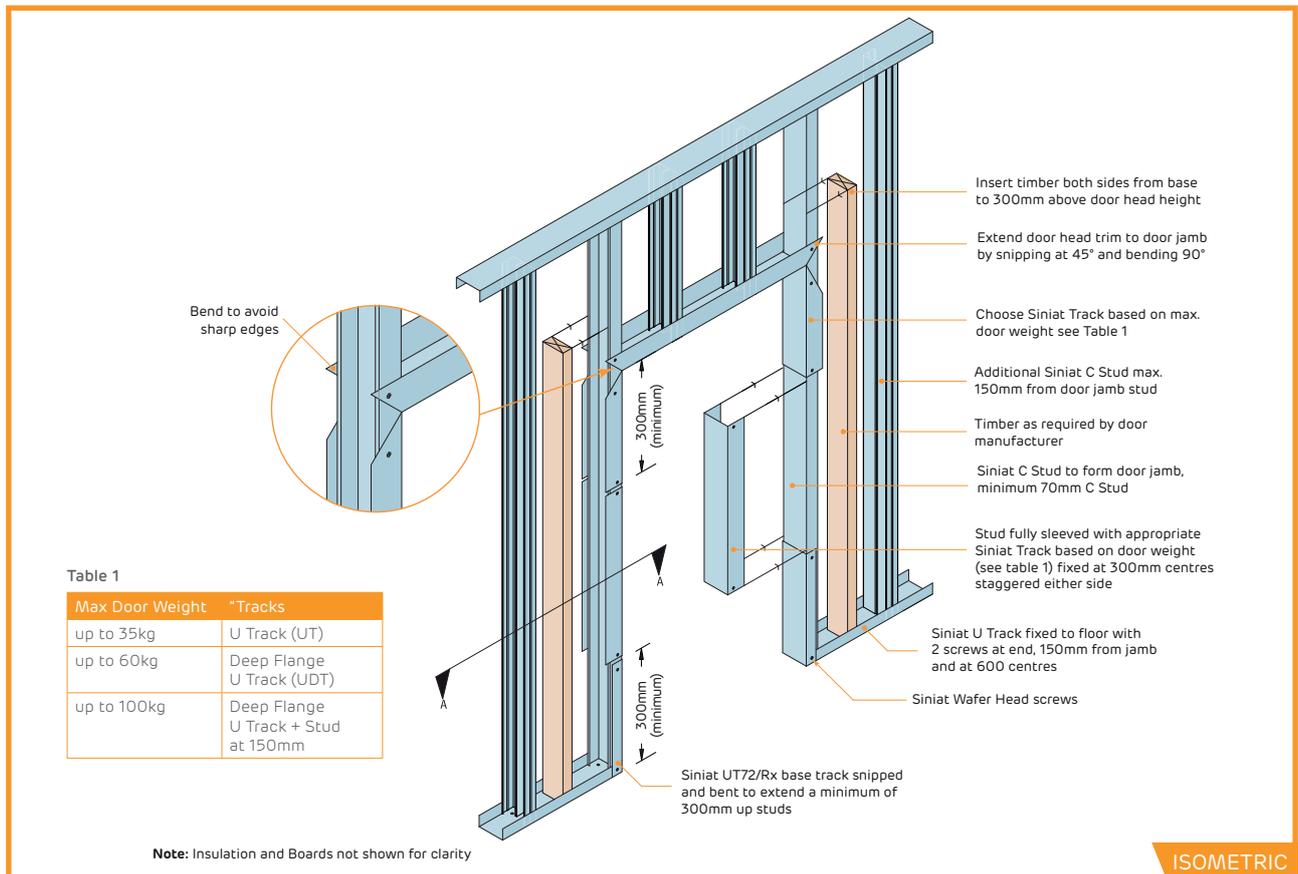
- ▶ GTEC Resilient Acoustic Stud partition system is tested with double boarding only; refer to performance tables on p29-36.

OPENINGS

PT-RS-402P-Door frames 30-100kg



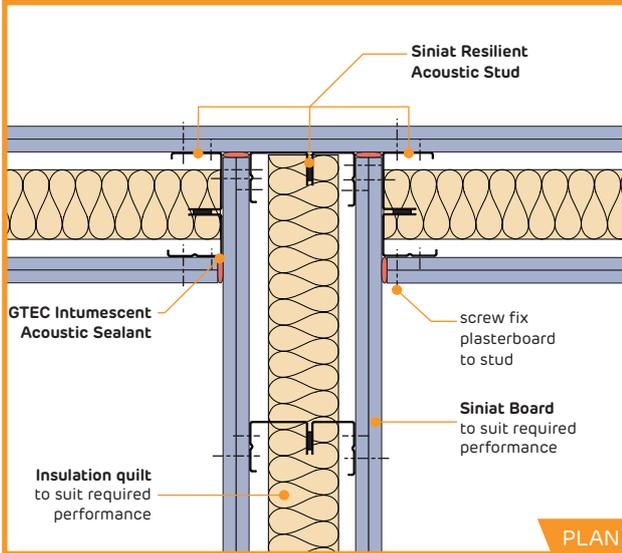
PT-RS-401M-Door frame Installation



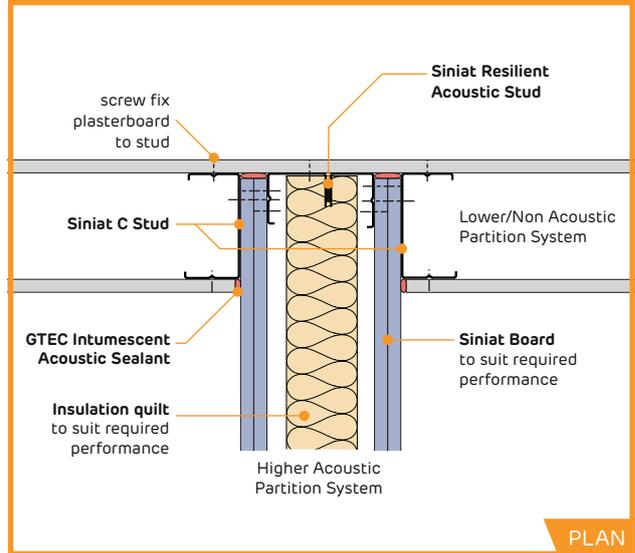
Note: Insulation and Boards not shown for clarity

CORNERS AND JUNCTIONS

PT-RS-501P-Acoustic-T-junction, double layer

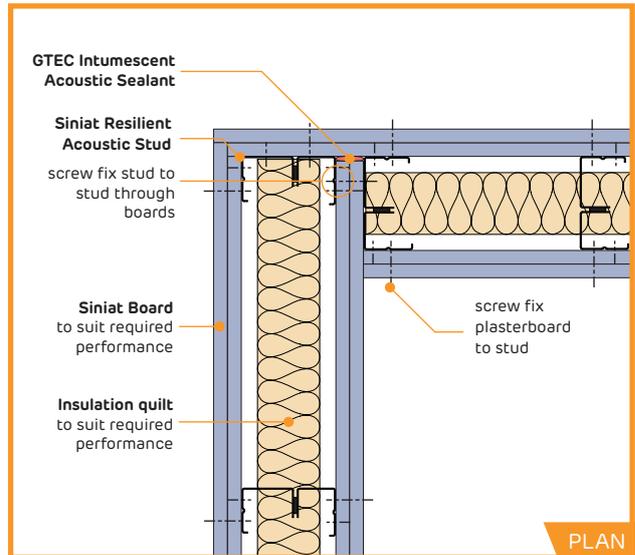


PT-RS-503P-Acoustic-T-junction



- ▶ GTEC Resilient Acoustic Studs to be used at corners and junctions to provide flat web for fixing.
- ▶ Where two different partition systems meet the higher acoustic rated wall should intersect the lower rated wall in an Acoustic T junction.
- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

PT-RS-502P-Corner- double layer



GTEC TIMBER PARTITION SYSTEMS

In timber frame construction or where traditional methods dominate, a timber partition may be the preferred construction method.

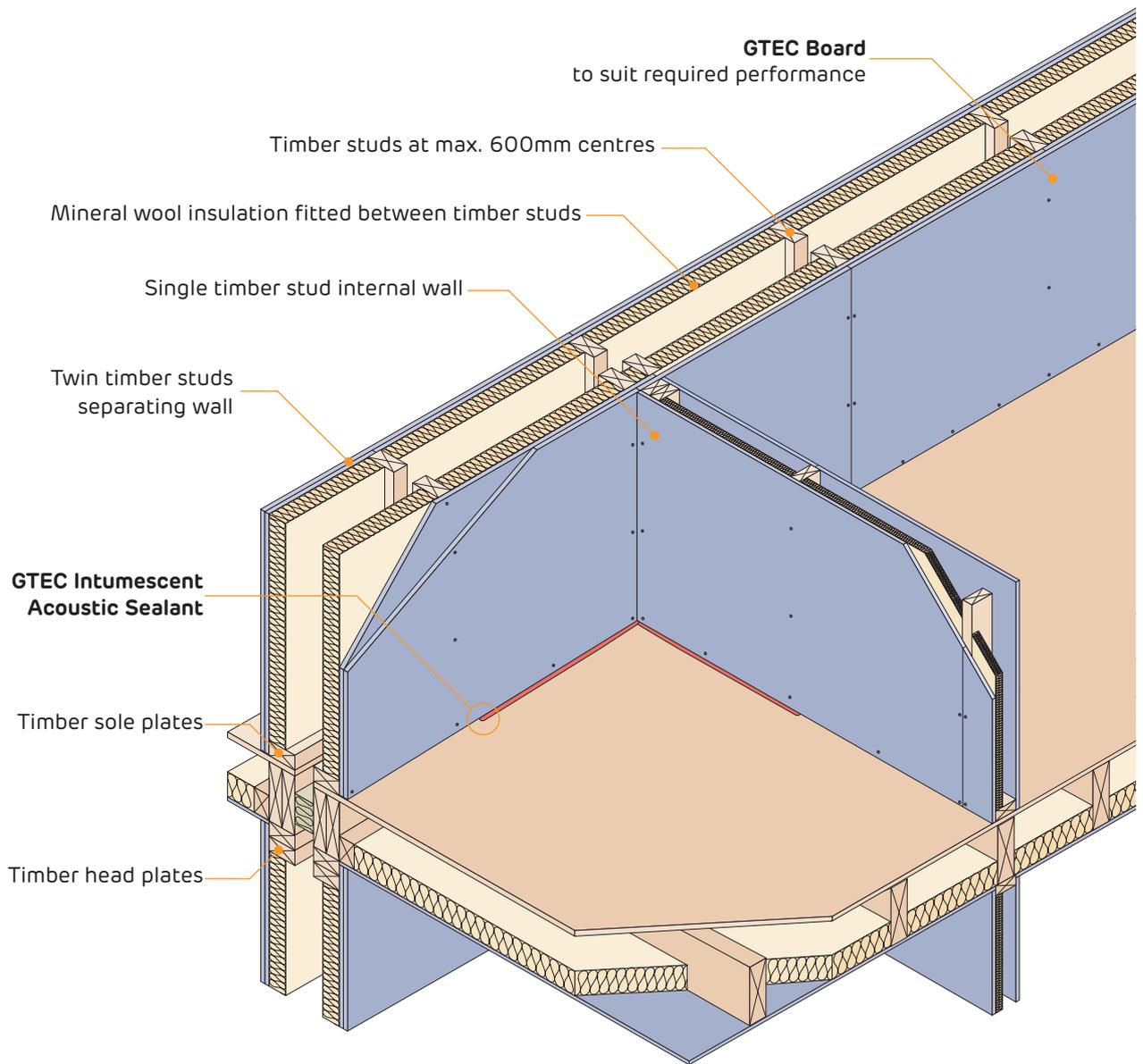
GTEC Timber Partitions use timber studs and plates in place of metal framing with GTEC Board screw fixed to complete the partition. Refer to the System Performance Tables on pages 44 to 45 for full details.

Separating walls can also be constructed with double layers of GTEC Board and twin timber frames built in parallel to create a separating cavity. Insulation is applied in between for further sound reduction.

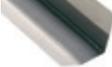
WHERE TO USE:

- GTEC Timber Partitions are used to create internal and separating partitions within domestic applications.

FEATURES	BENEFITS
Strong	Less material required than masonry construction
GTEC Resilient Bar option	Provides improved acoustic performance
Compatible with full range of GTEC boards	Achieves excellent partition performance
Flat finish	Provides an easy surface for decoration
Cavity space between two frames	High levels of acoustic and fire performance



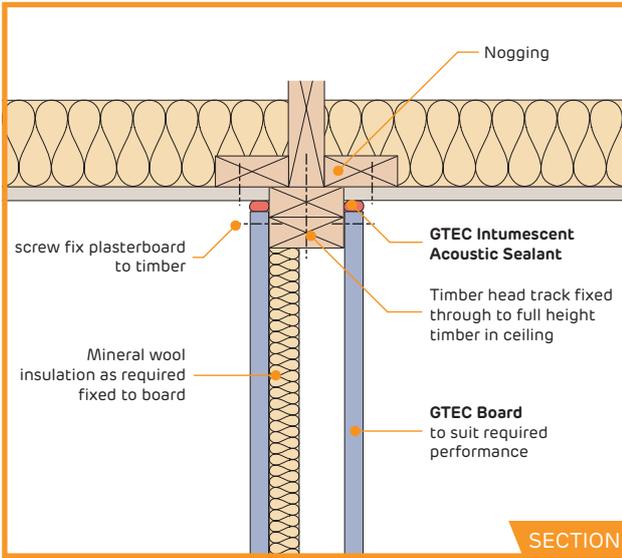
SYSTEM COMPONENT TABLE

System Component	System primary use	Product Reference
BOARDS		
	All GTEC Boards Provides wall surface suitable for finishing	See performance tables, p44-45
FRAME		
	Timber Drywall partition framing	Supplied by others
	GTEC Resilient Bar Metal profile to provides acoustic separation of board and frame	RBD3000
	GTEC Metal Angle Multi-purpose galvanised metal section	MFC2525, MFC2550, MFC2330
	GTEC Flat Strap Provide support for plasterboard joints and fixtures	FS50/RX, FS90/W
	GTEC Flex Track Deep Flange Steel track for curved partitions	DFLEX/B
INSULATION		
	Mineral wool insulation Increases fire and acoustic insulation performance	See performance table supplied by others
	GTEC Insulation Hold Secures insulation to prevent slump	INSR
FIX		
	GTEC High Thread Screws (as appropriate) For attaching plasterboard to timber frame	See screw selector, p318-319
FINISHING		
	GTEC Corner and Edge beads Galvanised metal reinforcements for corner and edge protection	n/a
	GTEC Joint Tape White perforated cross fibre tape for reinforcing joints in conjunction with GTEC Jointing Compounds	n/a
	GTEC Intumescent Acoustic Sealant Perimeter sealing to restrict smoke, sound and fire penetration. Ensures system performance	n/a
	GTEC Compounds To finish joints between boards and bed corner beads prior to decorating. Ensures system performance	See compounds guidance, p264
	GTEC Sealers To seal plasterboard prior to decoration	n/a
	GTEC Socket Pad To maintain acoustic and fire integrity at sockets	PAD1&2

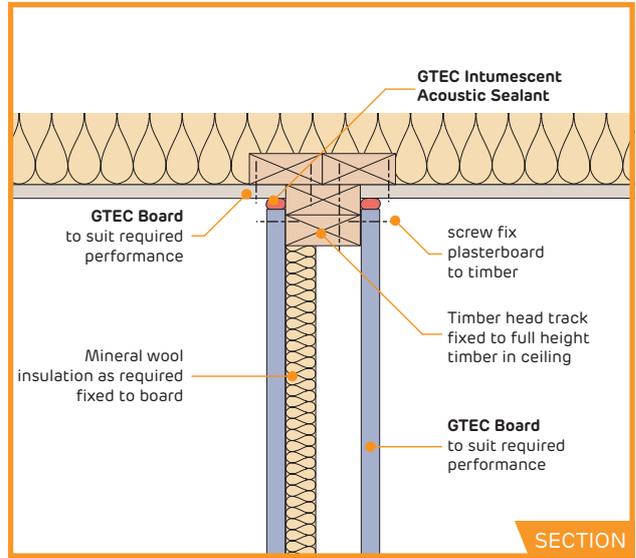
SYSTEM GUIDANCE

FRAME

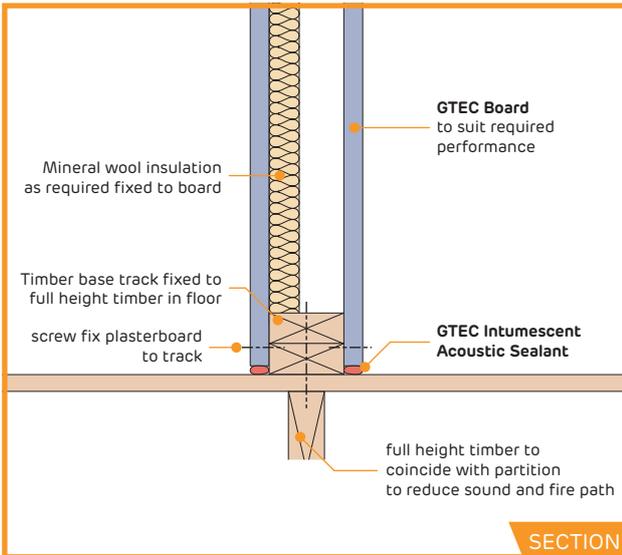
PT-TS-101S-Head Detail (Load Bearing)



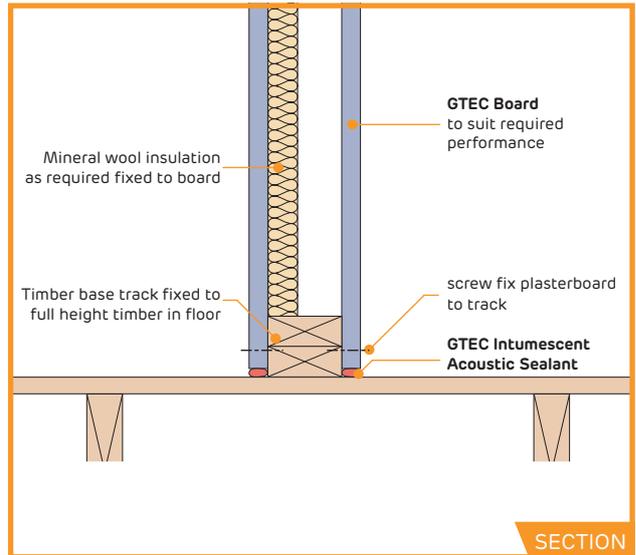
PT-TS-102S-Head Detail (Non-Load Bearing)



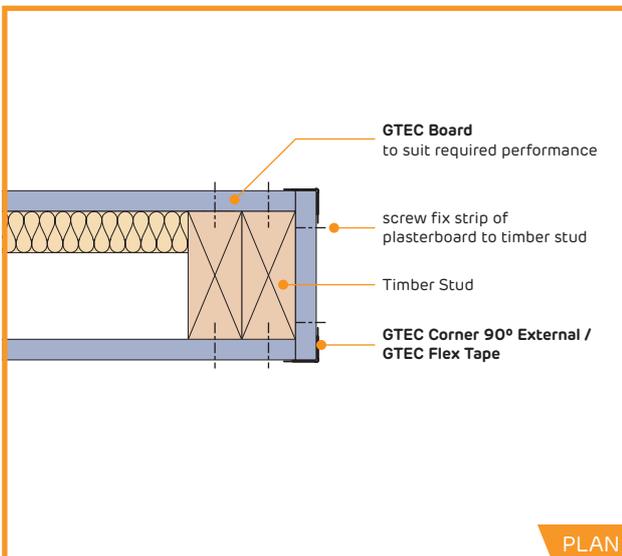
PT-TS-103S-Base Detail (Load Bearing)



PT-TS-104S-Base Detail (Non-Load Bearing)

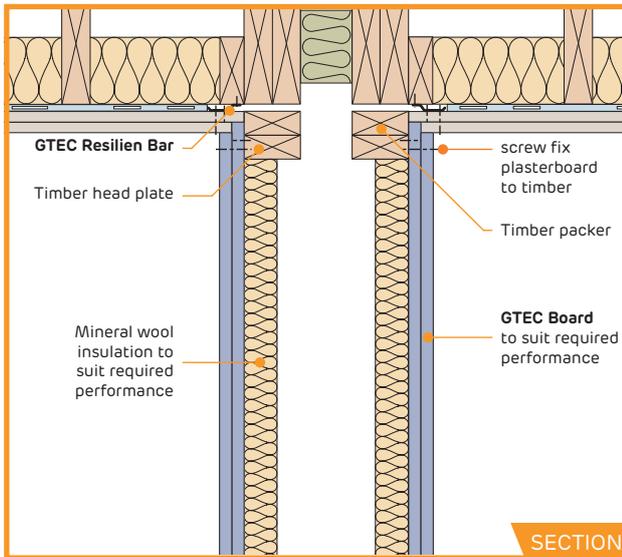


PT-TS-105P-End Detail

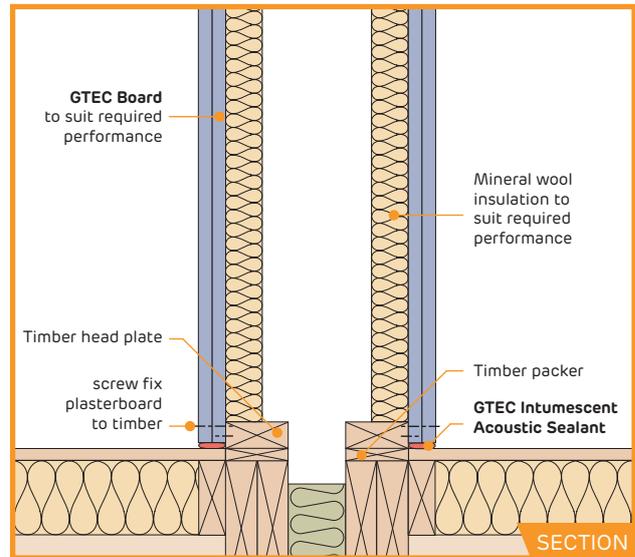


FRAME continued

PT-TT-101S-Head Detail



PT-TT-102S-Base Detail



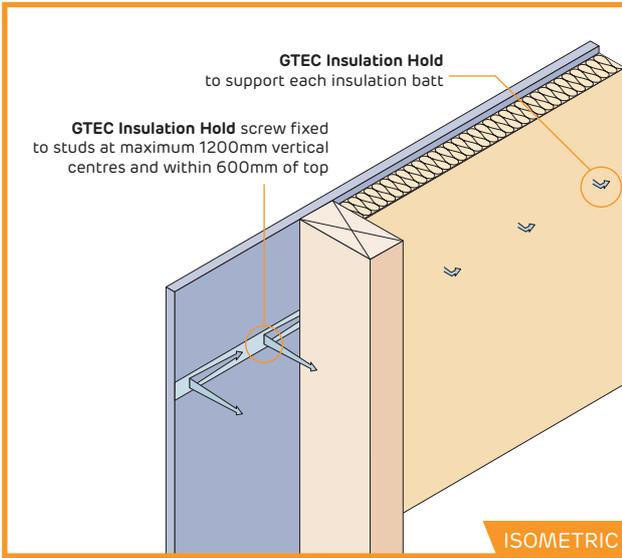
- ▶ Timber stud framing to be straight, plumb and true. Studs to be fixed to timber sole and head plates.
- ▶ All framing elements abutting structure to be fixed at maximum 600mm centres using appropriate fixings.
- ▶ Studs to have minimum board bearing width of 38mm.
- ▶ Studs to be arranged at maximum 400mm centres for 9.5mm board and maximum 600mm centres for 12.5 and 15mm board.

GTEC Resilient Bar option only:

- ▶ GTEC Resilient Bar may be installed on one side of partition, across studs at 600mm vertical centres and fixed to each stud with suitable GTEC Drywall Screws (see screw selector, p318-319).
- ▶ Uppermost GTEC Resilient Bar to be installed in inverted position at maximum of 50mm from top of partition.
- ▶ Lowest GTEC Resilient Bar to be installed at maximum of 50mm from base of partition.

INSULATION

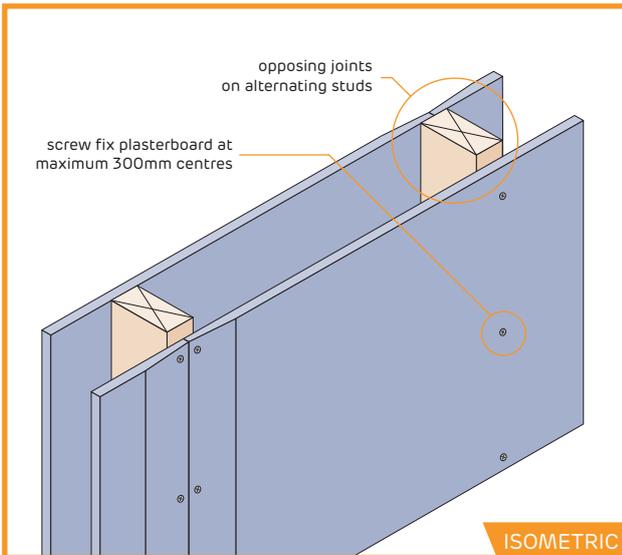
PT-TS-151M-Insulation Hold



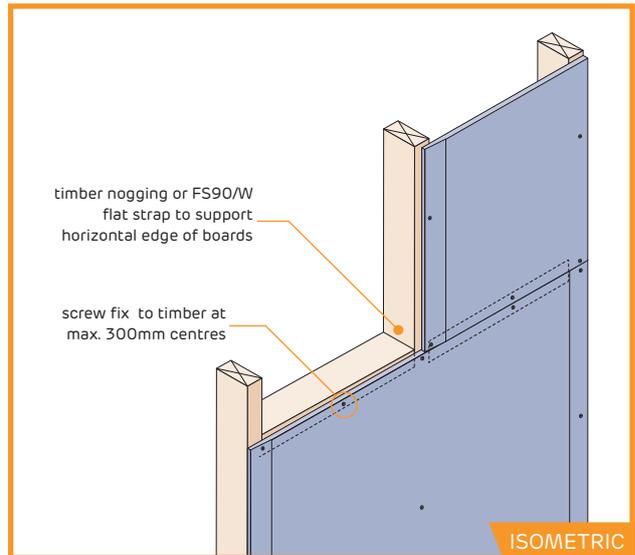
- ▶ Insulation, if required, to be of type and thickness to achieve performance and installed in a continuous layer between frames or studs to suit required performance.
- ▶ Where insulation may be expected to slump suspend from GTEC Insulation Hold strips fixed across studs, 150mm from top of partition and at 1200mm vertical centres.

BOARDING

PT-TS-201M-Board fixing – single layer

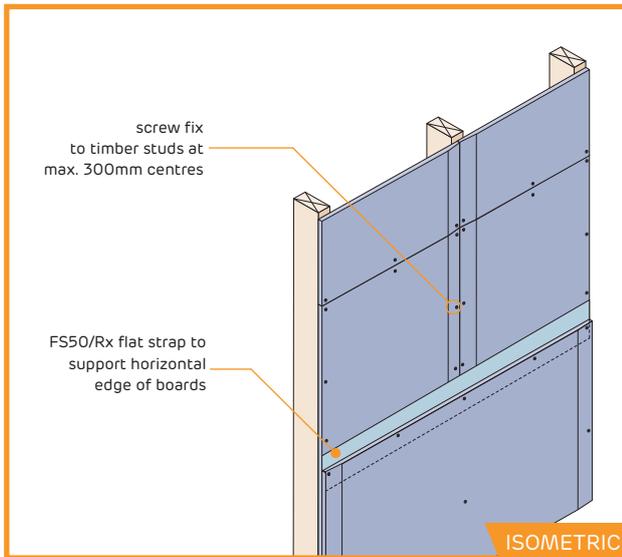


PT-TS-202M-Overheight partition – single layer

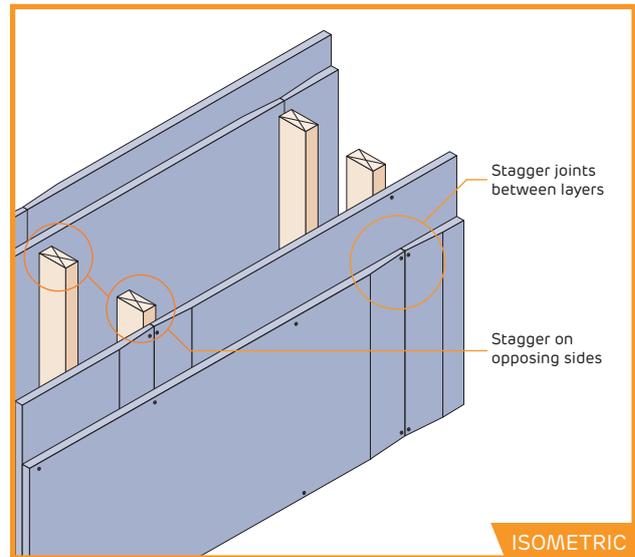


BOARDING continued

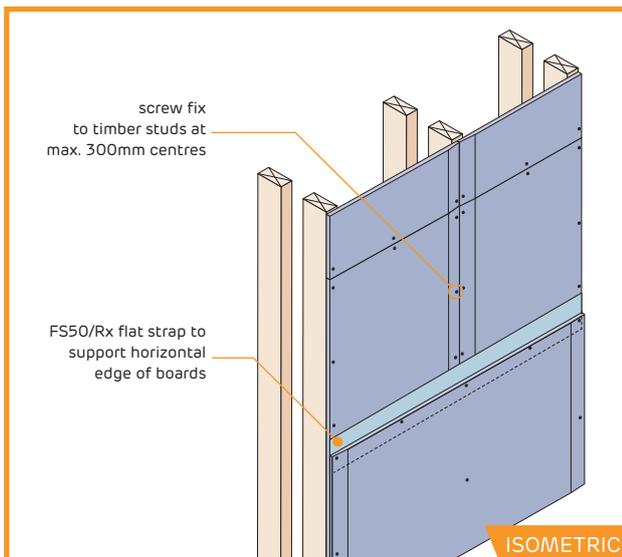
PT-TS-203M-Overheight partition – double layer



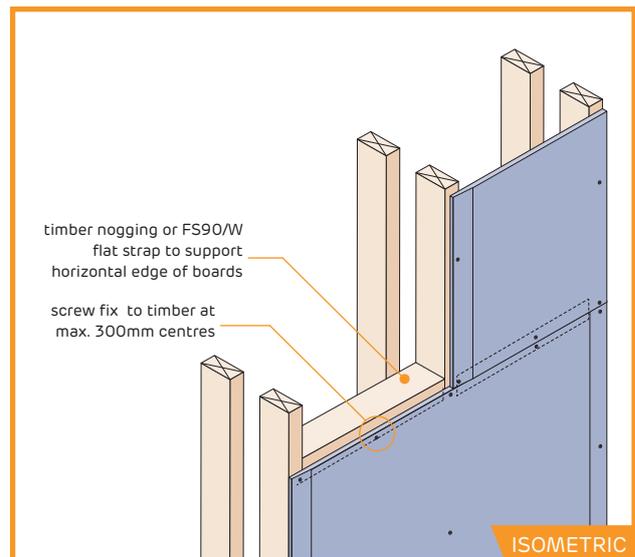
PT-TT-201M-Board fixing – double layer



PT-TT-202M-Overheight partitions – double layer



PT-TT-203M-Overheight partitions – Single layer



- ▶ GTEC Timber Single Stud partition system is suitable for single, double and multiple layer boarding.
- ▶ Select base layer(s) and finishing layer(s) GTEC Boards by consulting System Performance Tables (p44-45) and Product Specification (p278-291) to achieve required performance. See High Performance Boards guide (p12-15) for further selection information.
- ▶ Boards to be 5mm less than floor to ceiling height.
- ▶ Strips of board 300mm wide or less to be avoided by stud arrangement.

- ▶ Boards to be mechanically fixed to studs at 300mm centres using appropriate GTEC High-Thread Drywall Screws (see screw selector, p318-319).
- ▶ Base layers of boarding may be temporarily fixed at 600mm centres providing final layer is fixed through to stud at 300mm centres
- ▶ Board edges to be centred over studs.
- ▶ Stagger all board joints between layers.
- ▶ Stagger all board joints on opposing sides of partition.

Over-height single layer boarding:

- ▶ Where partition height exceeds board height fix boards to continuous band of GTEC Flat Strap FS90/W, GTEC MFIX, or timber nogging behind all horizontal joints to maintain fire integrity.

Over-height multiple layer boarding:

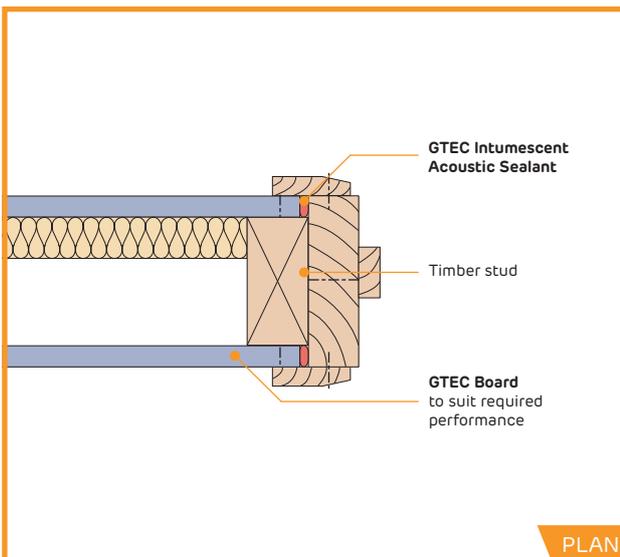
- ▶ Where partition height exceeds board height for double or multiple layer boarding fix outer layer of boards to continuous band of GTEC Flat Strap FS50/RX behind all horizontal joints.

GTEC Resilient Bar option only:

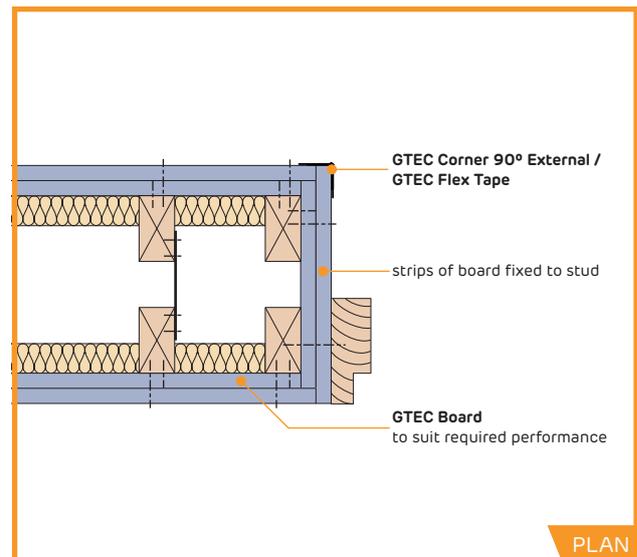
- ▶ Boards to be mechanically fixed to GTEC Resilient Bar only at 300mm centres using shortest appropriate GTEC Drywall Screws (see screw selector, p318-319). Screws must not penetrate through to substrate.
- ▶ All layers of boarding to be fixed at 300mm centres.
- ▶ Boards must not be fixed to studs or tracks to ensure acoustic performance.

OPENINGS

PT-TS-401P-Door jamb



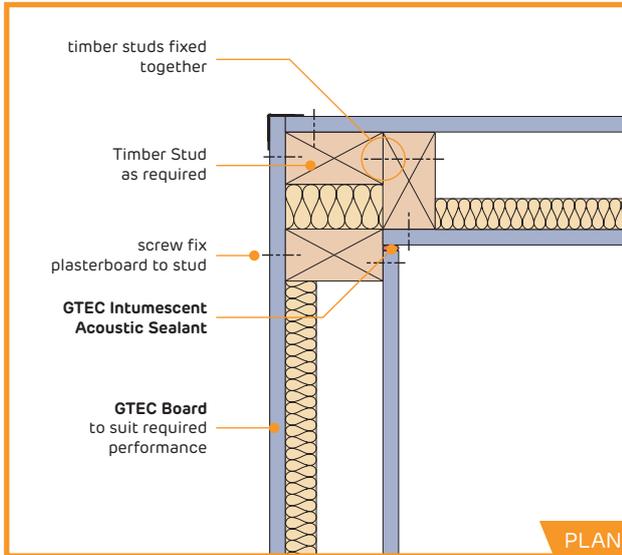
PT-TT-401P-Door jamb



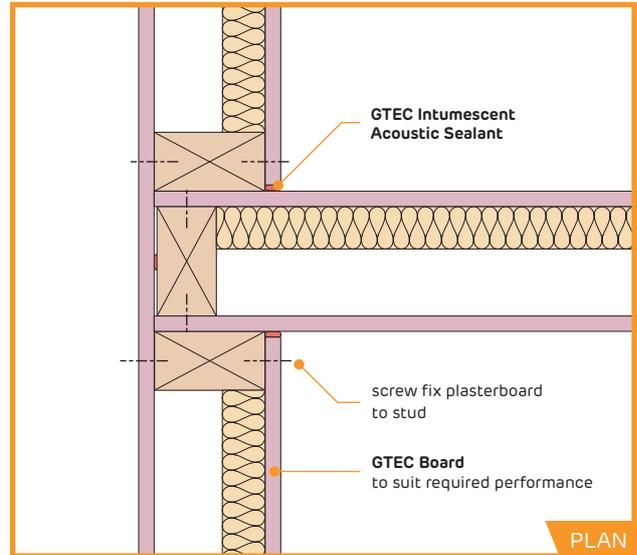
- ▶ Form door openings following guidance in Construction Detail Drawings to suit door weights.

CORNERS AND JUNCTIONS

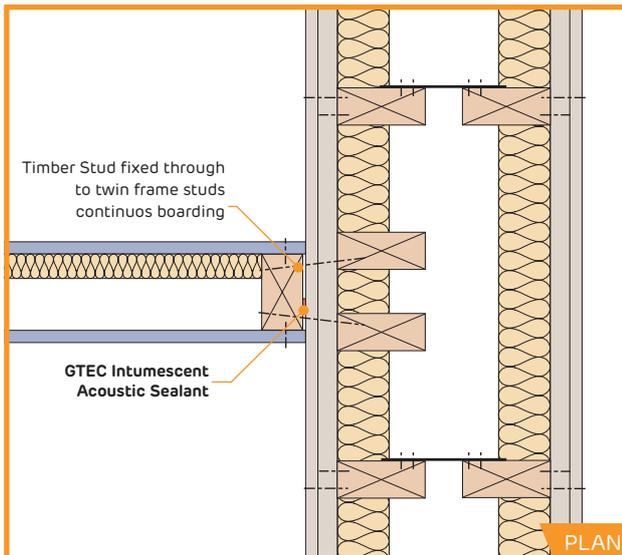
PT-TS-501P-Corner Detail



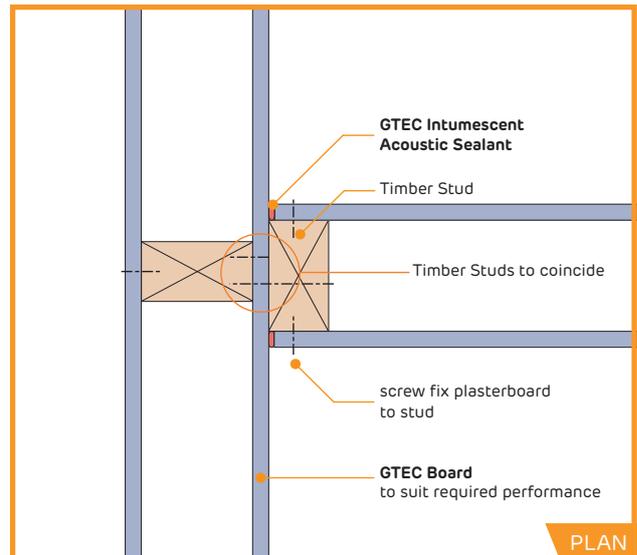
PT-TS-502P-Acoustic T-junction



PT-TS-503P-Junction of Twin and Single partition (LB)



PT-TS-504P-Non-rated T-junction



- ▶ Abutting partitions to coincide with studs, install additional intermediate 'pick-up' stud if required.
- ▶ Additional studs to be installed where required to provide fixing substrate for boards.

- ▶ See Construction Details Drawings for further guidance on arrangement and fixing.

HEAD DEFLECTION

- ▶ Timber stud partitions are not generally compatible with deflection head requirements.

PENETRATIONS

- ▶ M&E runs and other penetrating services to be pre-planned to minimise or eliminate penetrations through rated partitions.
- ▶ Any penetrations must be fully sealed with GTEC Intumescent Acoustic Sealant or other fire resisting material as specified in Construction Detail Drawings.
- ▶ Protect all electrical cables in cavity with conduit.

SYSTEM CONTINUITY

- ▶ Bead of GTEC Intumescent Acoustic Sealant to be applied to perimeter of all runs and in all other locations specified in Construction Detail Drawings.
- ▶ GTEC Intumescent Acoustic Sealant to seal all other acoustic or air paths to prevent fire/ smoke spread and acoustic transmission.
- ▶ Full, imperforate system continuity to be maintained to achieve rated performances.

FIXTURES

- ▶ See guidance on p63-33 for further information.

FINISHING

- ▶ All board joints to be taped, jointed or finished according to guidance in Finishing section (p262-275) to achieve system performances.
- ▶ GTEC Finish materials appropriate to board type to be used.