Drywalls Partition Systems

Regular Partition Systems

SYSTEM COMPONENTS
ASSEMBLY & FINISHING



SYSTEM (ZW 200)

BRINGING
PLASTERBOARD
TO LIFE



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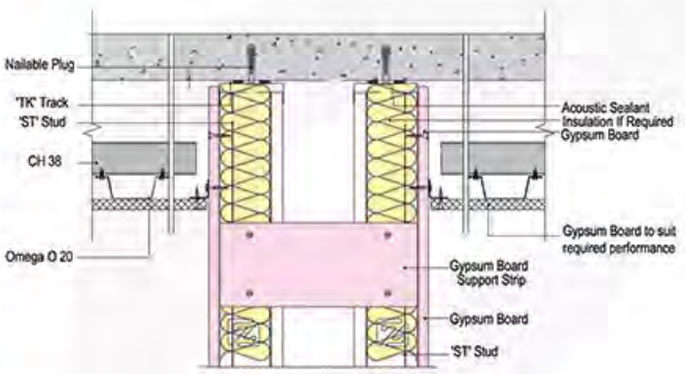
INSTALLATION

Laying Out

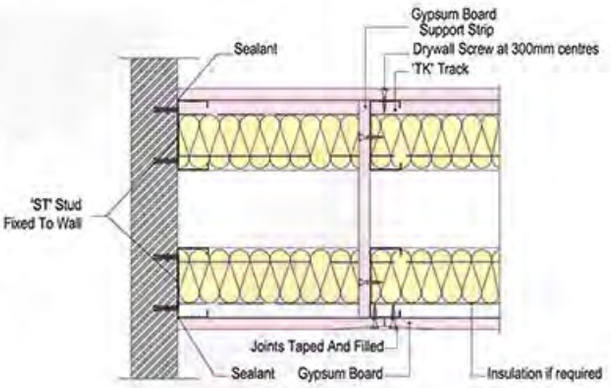
- Partition layouts should be marked accurately.
- Always check individual measurements against overall site dimensions.
- Define the partition width and gap between frames to define the frame width and connector between studs.
- Align the top and bottom tracks of the partition accurately according to the plan layout.

Framing Installation

- Attach the Tracks (TK) at ceiling and floor to structural elements, keeping a suitable distances in between for building the desired partition.
- Use suitable fasteners for anchoring the partition wall at the base and head.
- Locate fasteners at 50mm from each end and spaced at maximum 600mm centers along each track cut stud (ST) to be 5mm shorter than floor to ceiling height, located into each track TK install studs (ST) to be positioned at maximum 600mm centers for Board.
- Fix the distance between studs in both frames with Track bracing or slid from gypsum boards centers at 800mm. (As in Figure A)
- Studs in fire rated partitions are not to be fastened to top &bottom tracks except boxed studs facing fire door openings, in which case the boxed studs are screwed to the tracks.



Partition to ceiling (Plan Detail)



Wall Abatement (Section Detail)



(Figure A)

Single Layer Application

- If no deflection requirement exists, cut Plasterboard to provide full-length floor-to-ceiling sheets, allowing for 10mm maximum gap at floor and ceiling.

First Side

- Screw fasten Plasterboard vertically to studs at edges and intermediate studs only, centering abutting edges on stud flanges. Sheets should be installed by advancing in the direction of the stud web where one sheet only is to be applied to each side, screws should be minimum 25mm long.
- Space at 200mm centers on sheet edges and at 300mm centers on intermediate studs.
- Fasten screws 10mm minimum - 16mm maximum from sheet edges.

Second Side

- Cut the first sheet of Plasterboard 600mm wide only. This creates a stagger with the joints of the sheets applied on the opposite side of the partition.
- Screw fasten this sheet and all subsequent full width sheets to studs, Screws should be 25mm long.
- Space at 200mm centers on sheet edges and at 300mm centers on intermediate studs.

Note:

- Keep wall lining at least 20cm apart .
- Ensure the insulation cover whole wall area and fired together tightly.
- Ensure that all cavity stops (losers) are fixed to one frame only.
- Stagger joints dry wall the avoid path seal all joints in outer layer with tape or caulk with sealant

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INSTALLATION (CONT.)

Fastener Spacing

- Fasten Plasterboard to stud flanges with 25mm or 32mm screws for first layer, and 45mm screws for second layer.
- Face sheet only:- Space screws at 200mm centres on vertically a butting edges or ends, staggering screws in adjacent boards 100mm.
- Locate screws no closer than 10mm or more than 16mm from board edges and ends.
- Space screws at 300mm centres around openings and on intermediate studs in the field of the board.

Insulation

Any type of insulation and thickness to achieve required performance is tightly installed in a continuous layer crossing behind studs. Where insulation may be expected to slump, suspend it from Insulation Hold strips at 150mm from top of wall, and at 1200mm from vertical centers. 10mm clear gap must be maintained between the substrate and insulation.

Taping and Jointing

Taping and Jointing is a 3 stage process:

1- The plasterboard joints are normally first taped with self-adhesive fibre tape .
2- 1st coat of Joint Filler applied. After the Joint Filler sets (usually within 90 minutes) apply 2 coats of Joint .
3- When the 2nd coat of Joint is completely dry (this usually takes 24 hours depending on site) sand it down with Vacuum Sanders to minimize the dust in building site. After sanding, the Taping and Joining can be painted in the same way as traditional plastering.
4- Corner beads or a metal tape will be applied to all external corners and then taped and jointed with a 3 coats process described above. and L bead will be applied on the bottom edge of boards . (See more details in page 45)

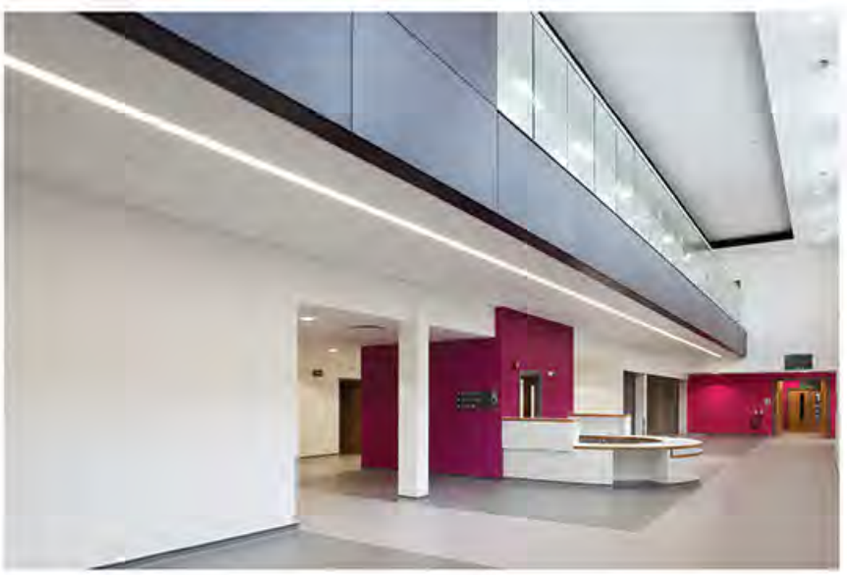
Caulking

Caulk all perimeter gaps in fire rated walls with fire Sealant.

Nogging and Trimmers

Nogging is required as headers above doorways and borrowed light frames, for reinforcement behind fixture attachments, and where special circumstances require additional stiffening of the frame.
Nogging is formed from lengths of steel track, approximately 150mm longer than the stud spacing.

- Cut the track flanges at approximately 45 degrees and bend the track ends at right angles to fit between studs.
- Position and fasten with suitable screws, or with pop rivets for Fire door application.

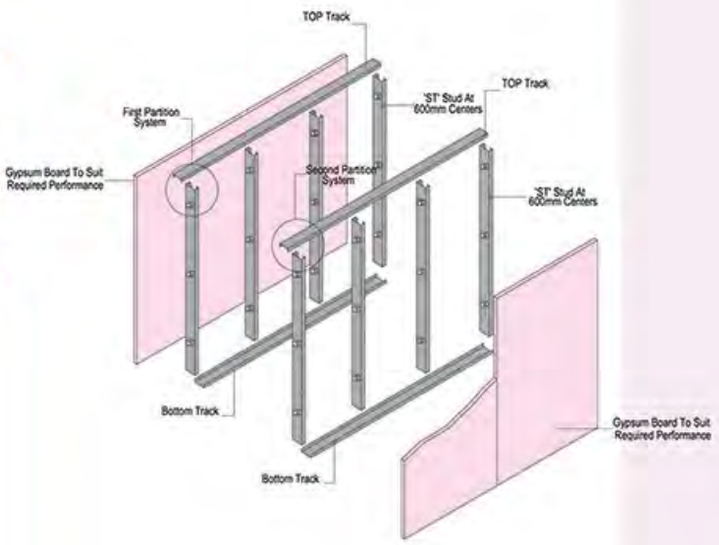




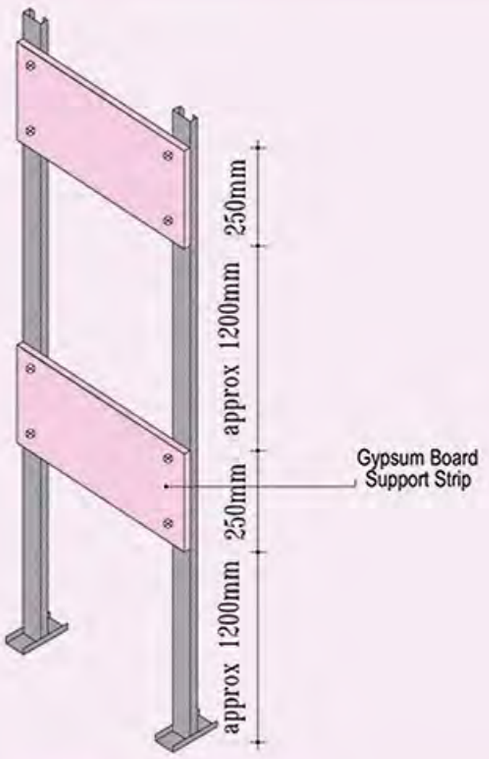
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WALLS SYSTEM (ZW 200)

GENERAL DETAILS

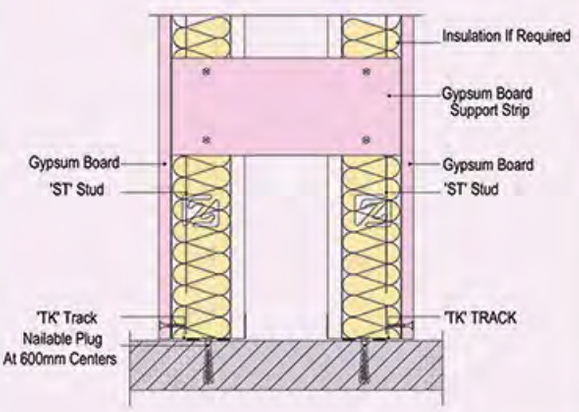


PARTITION DRY WALL SYSTEM

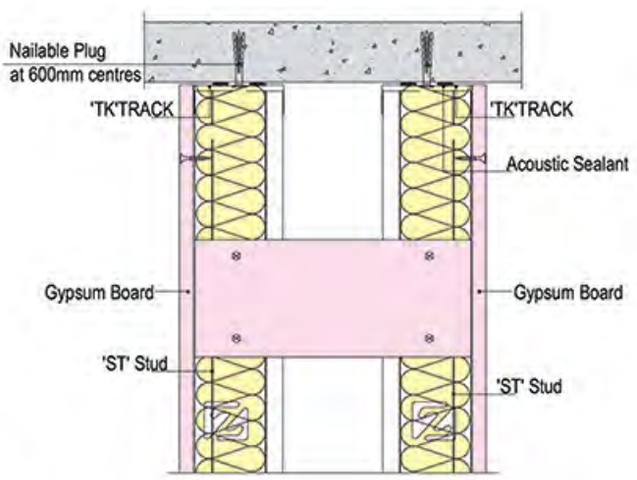


STUD REINFORCEMENT

FLOOR TRACK



HEAD TRACK



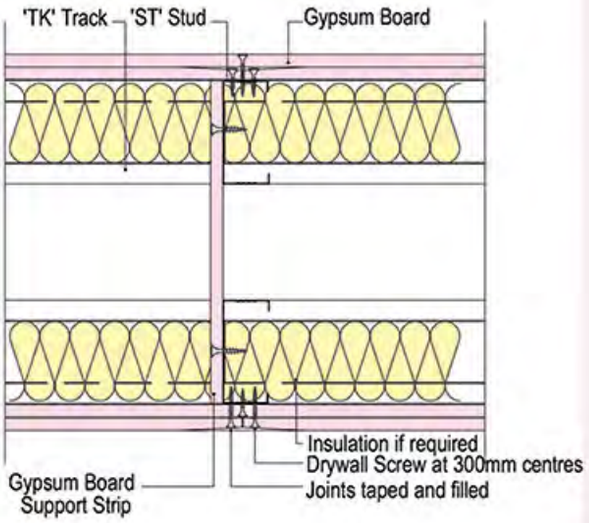


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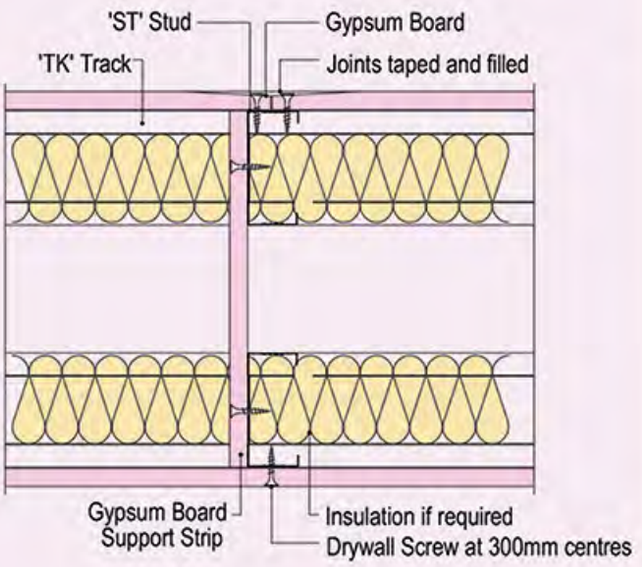
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GENERAL DETAILS

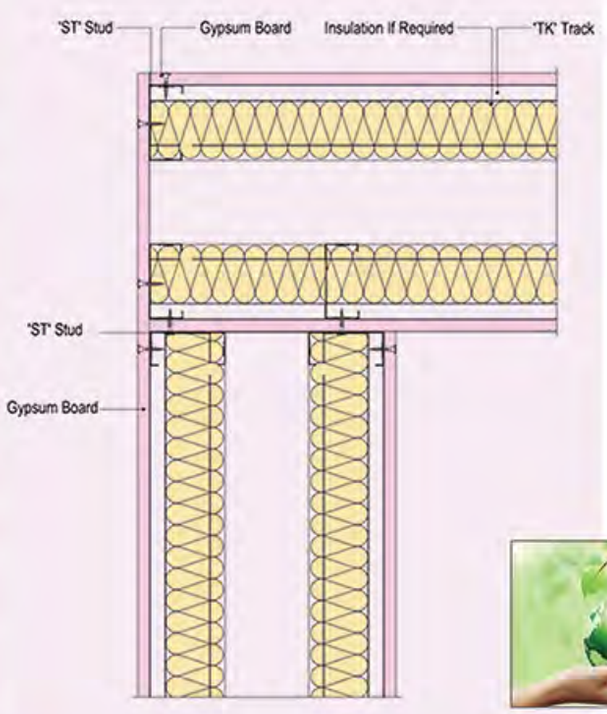
"ST" STUD DOUBLE LAYER



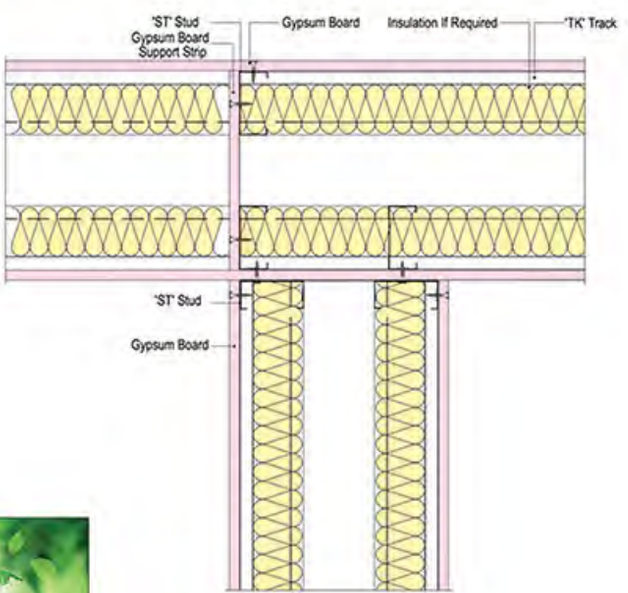
"ST" STUD SINGLE LAYER



CORNER DETAILS



T - JUNCTION (SINGLE LAYER)





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