

Knauf Isolator

Installation Procedures

Knauf Isolator partitions are designed to be simple and fast to install. Knauf Technical Services are on hand should you have any questions or unusual situations to deal with.

General

Knauf Isolator partitions must be installed in accordance with Knauf's recommendations and the recommendations of BS 8212: 1995 and BS 8000: Part 8: 1994.

Perimeter Framing 1,2

Knauf 'U' Channels should be used for the head and base of the partition. Knauf 'C' Studs should be used to form any abutments and to frame openings. Bed each section on two continuous beads of Knauf Sealant and secure with Knauf Nailable Plugs or suitable fixings at maximum 600mm centres and 50mm from ends of channels or studs. Separate studs and channels forming the perimeter need not be joined, but should be tightly butted together. Replace Knauf 'U' Channel with Knauf Deep Flange 'U' Channel when forming a deflection head.

Partitions should always run full height up to the structural soffit.

Vertical Studs 3

Studs should be positioned within the channels to coincide with the abutments of the boards, which will be fixed later. The centres (either 300, 400 or 600mm) depend on the performance requirements. The studs of the separate frames may require bracing using Knauf Fixing Channel, and acoustic bracing (by others), at maximum 1500mm centres, depending on the height of the partition – please check with Knauf Technical Services.

Knauf 'C' Studs should be trimmed to within 5mm of the slab to soffit height. For deflection heads only: studs should be cut short to allow for the required clearance within Knauf Deep Flange 'U' Channel. This should be no more than half the flange length of the Deep Flange 'U' Channel.

Knauf 'C' Studs can be extended by forming an overlap, boxing them at that point and securing them with Knauf Wafer Head Jackpoint Screws. The overlap must be at least 600mm.

Insulation 4

Once the studs have been located in the Knauf 'U' Channels and one side has been boarded, the specified Knauf insulation can be inserted between the studs horizontally. Care should be taken to ensure that the insulation is fitted neatly without gaps at abutments or horizontally between different rolls.

Support for Horizontal Joints in Facings

To back horizontal joints in outer board layers, Knauf Fixing Channel or Knauf Flat Fixing Plate should be fitted across the face of all studs, secured with 2 Knauf Wafer Head Jackpoint Screws per stud to both faces.

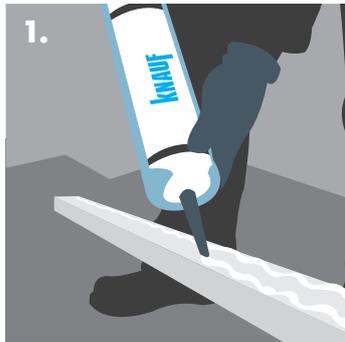
Doorways

The head is formed with Knauf Deep Flange 'U' Channel, bent back and screw-fixed with Knauf Wafer Head Jackpoint Screws to the studs.

Boarding 5,6,7,8

All boards should be offered up to the frame with the face of the board outwards, and secured with Knauf Screws at 300mm centres. Fixing centres should be reduced to 200mm at corners.

Boarding should commence at one end and work across the partition. At head, foot and abutments, board edges should be bedded onto continuous beads of Knauf Sealant. Board joints in multiple layers should be staggered both vertically and horizontally by 600mm. Tape and joint for a seamless finish, and finish using Knauf Plaster.



1. Applying continuous beads of Knauf Sealant to perimeter framing.



2. After fixing the head track, the floor track should be positioned by using a vertical stud and a spirit level.



3. Bracing Knauf 'C' Studs with Knauf Fixing Channel at maximum 1500mm vertical centres (if required).



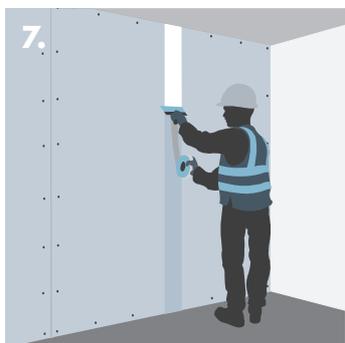
4. Inserting Knauf insulation quilt between the Knauf 'C' or 'I' Studs.



5. Fixing Knauf Plasterboard to the Knauf 'C' or 'I' Studs.



6. Stagger the boards, to ensure all joints overlap.



7. Taping and jointing for a seamless finish.



8. Finishing using Knauf plaster.

