

# BOLT-ON HOLD ATTACHMENT METHODS

Bolt-on holds have a single countersink hole to accommodate a 10 mm countersink bolt. Some bolt-on holds also include a second hole. This hole is intended to take a wood screw in order to prevent any possibility of the bolt-on hold spinning. It should only be used on wood surface.

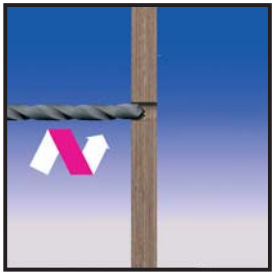
Each bolt-on hold requires a female fixing (set in the wall) and a male fixing (the countersink bolt). Different wall types require different fixing systems.

## WOOD SURFACES (18mm plywood or equivalent)

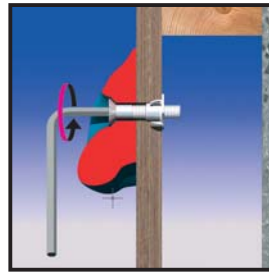
### Fixings required per bolt-on hold:-

1 x T-nut

1 x countersink bolt (length depending on thickness of wood)



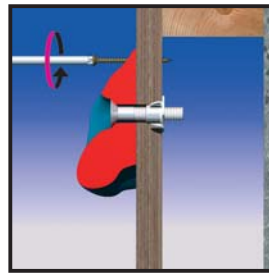
1. A 12.5 mm diameter hole is drilled through the wood surface. If a painted finish is preferred this should be done now before fitting T-nuts.



3. Position the bolt-on hold in the preferred orientation, fix to the wall with the 50 mm countersink bolt, which retains the bolt-on hold. The bolt should be hand tightened with a 6 mm Allen Key.



2. The T-nut is hammered into place on the back of the wood surface before the wood panels are screwed to a support structure. There needs to be at least 20 mm space behind the wood surface as the bolts protrude through the T-nuts.



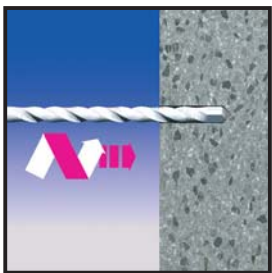
4. If required an anti rotation screw should be fitted through the second fixing hole to prevent any possibility of rotation

## SOLID MASONRY / BRICK / BLOCK / CONCRETE

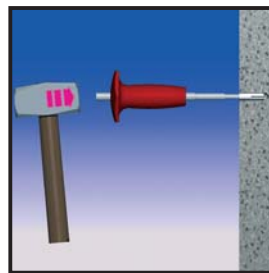
### Fixings required per bolt-on hold:-

1 X HKD expansion anchor 10mm

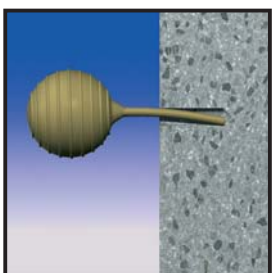
1 x 35mm x 10mm countersink bolt



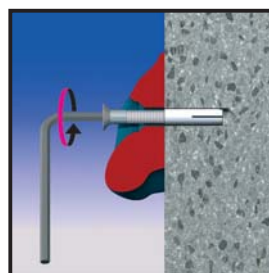
1. Drill a 12 mm hole to a depth of 44 mm in the centre of the brick or block.



3. Push the HKD anchor into the hole ensuring that the top of the anchor is flush with the face of the block or brick. Then use the fitting tool to punch the cone to the end of the anchor. If any cracks appear in the brick or block the anchor should not be used.



2. Blow or brush out the hole to ensure that a sound key may be obtained between the anchor and the block / brick.



4. The 35 mm countersink bolt, retaining the bolt-on hold in the required orientation, should be hand tightened with a 6mm Allen Key.

N.B. This system is not appropriate for bricks or blocks with cavities or for very soft or brittle materials.