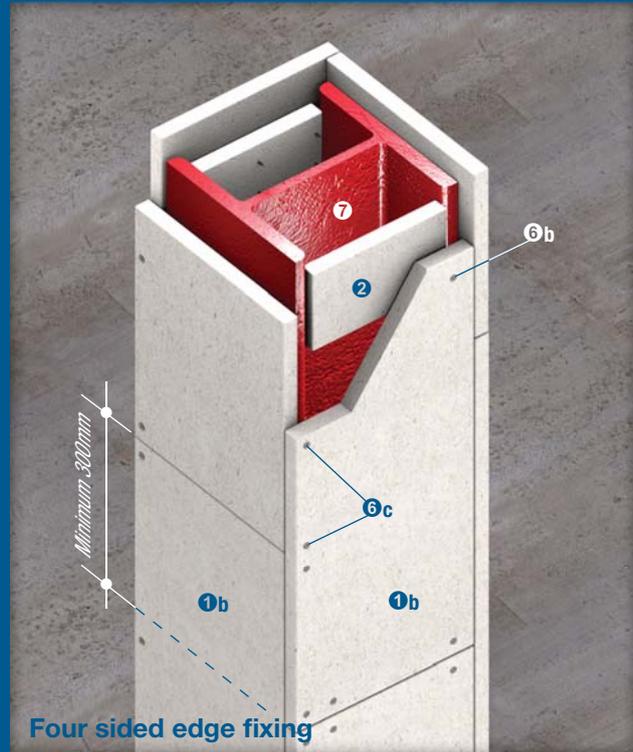


Four sided channel fixing



Four sided edge fixing



Three sided channel fixing

Up to 120/- fire resistance in accordance with the requirements of BS 476: Part 21: 1987 and AS 1530: Part 4: 2005, and up to 180/- fire resistance in accordance with the requirements of ASTM E119: 2007

①a PROMATECT®-H board, thickness in accordance with the Hp/A Ratio tables on page 25

①b PROMATECT®-H board, $\geq 15\text{mm}$ of thickness in accordance with the Hp/A Ratio tables on page 25

② PROMATECT®-H soldiers 100mm wide, minimum thickness similar to the board thickness of ①b

③ Continuous galvanised steel channel 19mm x 38mm x 19mm x 1.6mm thick or similar, leg of each channel is located against inner surface of flange

④a Continuous galvanised steel angles minimum 32mm x 19mm x 0.9mm thick or similar fixed to the wall using non combustible proprietary anchors at nominal 500mm centres

④b Continuous galvanised steel angles minimum 32mm x 19mm x 0.9mm thick or similar fixed to the flange using Teks screws, shot fired nails or welding. Secure edges of side boards at 200mm centres

⑤ Horizontal joints in adjacent board sides to be staggered at minimum 300mm

For wide columns, it is advisable to include a PROMATECT®-H cover strip behind the joints within the web of the steel column to provide additional impact resistance

⑥a Self-drilling or self-tapping drywall screws fixed to channel/angle at nominal 200mm centres. Screw length should be additional 20mm of the board thickness

⑥b Self-drilling or self-tapping drywall screws fixed to soldiers at nominal 100mm centres. Screw length should be additional 20mm of the board thickness

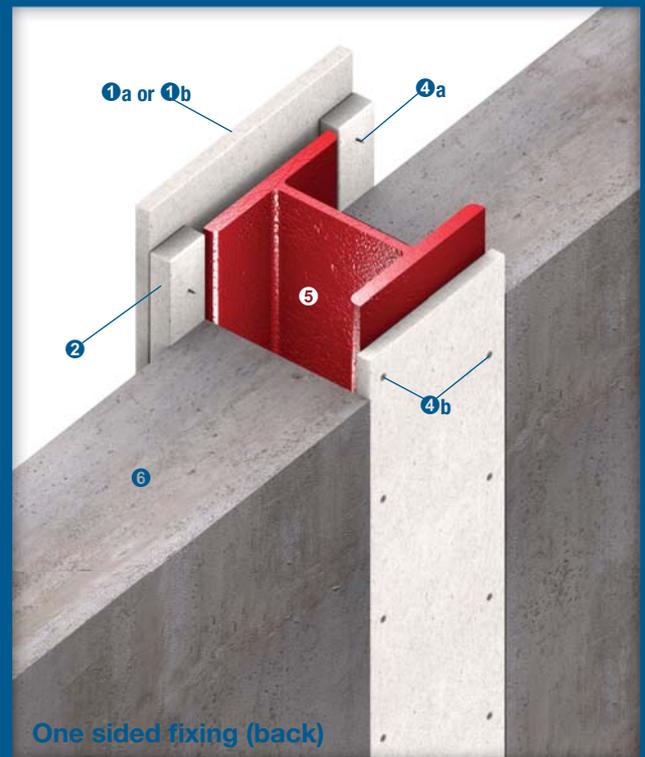
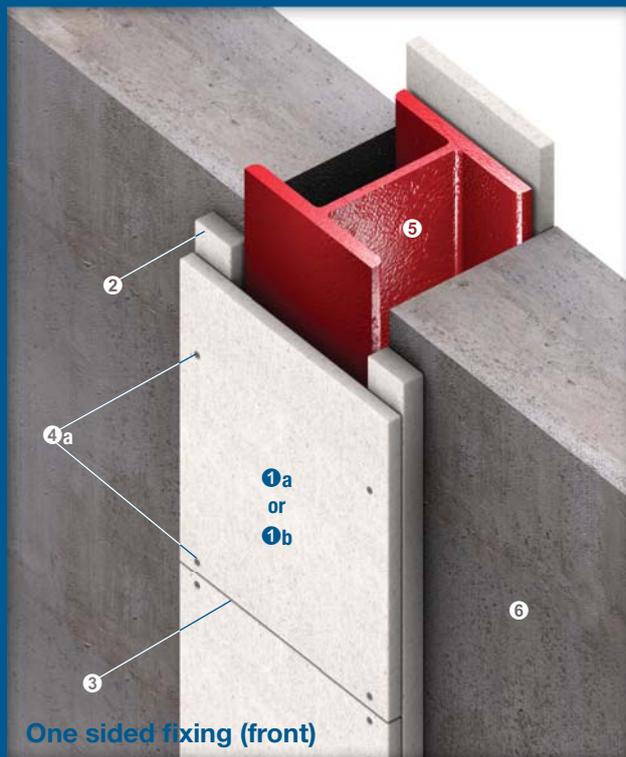
⑥c Fixings in accordance with table below. Care should be taken not to overtighten the screws. When edge fixing it is advisable to drill pilot holes, particularly with 15mm thick boards

PROMATECT®-H board thickness	Deep threaded drywall screws preferably with ribbed heads at 200mm centres	Steel wire staples at 100mm centres
15mm	No. 6 x 40mm	44/10/1mm
20mm	No. 10 x 55mm	50/10/1mm
25mm	No. 10 x 60mm	50/10/1mm

NOTE: <15mm thick boards cannot be edge fixed. Please consult Promat for further guidance on steel wire staple fixing

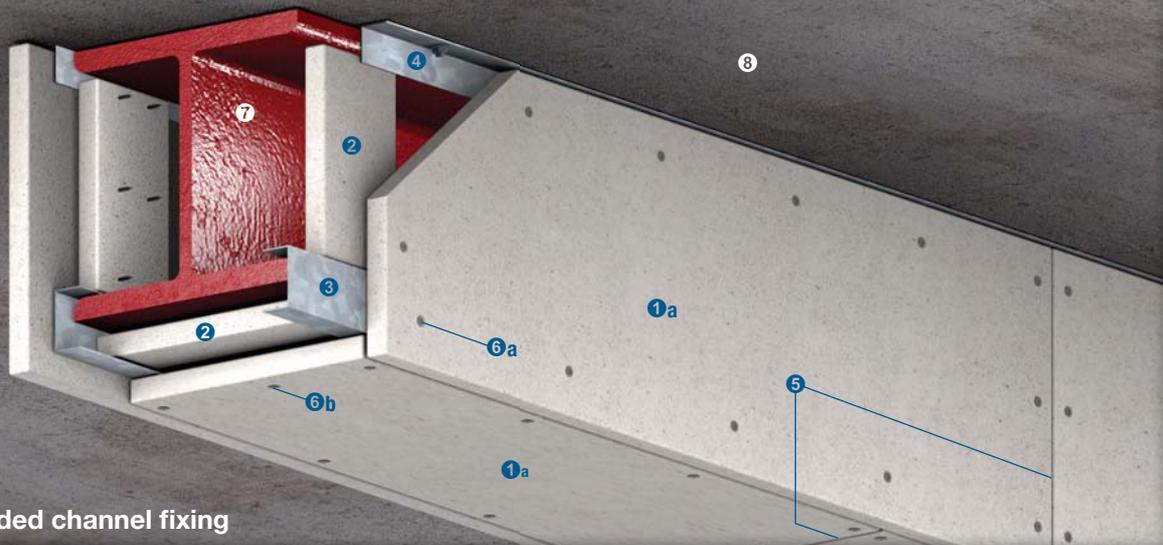
⑦ Structural steel column

⑧ Concrete wall substrate

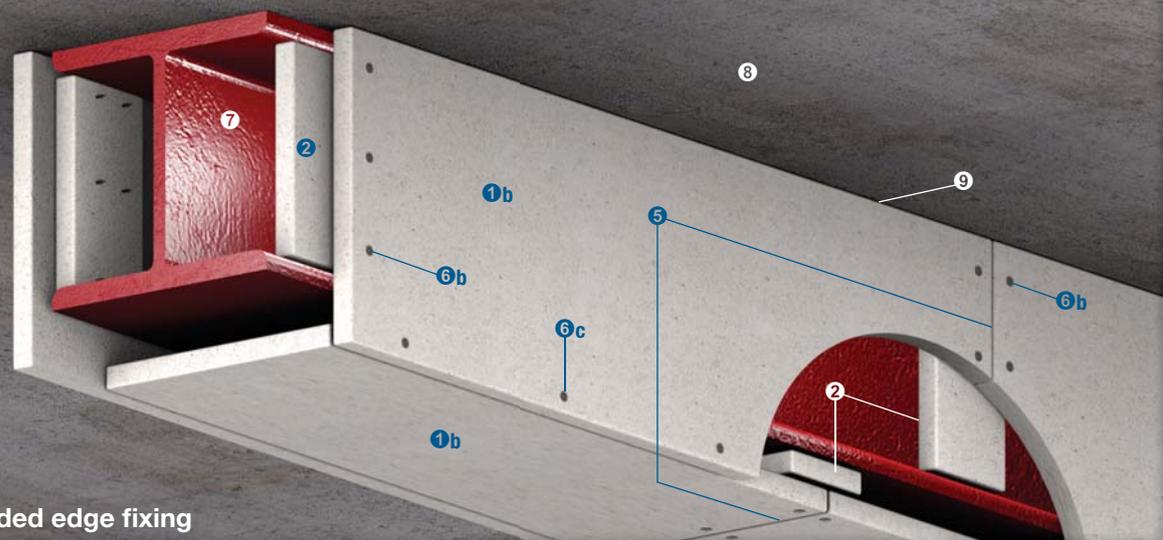


Up to 120/-/- fire resistance in accordance with the requirements of BS 476: Part 21: 1987 and AS 1530: Part 4: 2005, and up to 180/-/- fire resistance in accordance with the requirements of ASTM E119: 2007

- ①a PROMATECT®-H board, thickness in accordance with the Hp/A Ratio tables on page 25
- ①b PROMATECT®-H board, ≥ 15 mm of thickness in accordance with the Hp/A Ratio tables on page 25
- ② PROMATECT®-H spacer strips, fixed to substrate using non combustible proprietary anchors at 300mm centres with minimum 50mm overlap to either side of steel section
- ③ Horizontal joints in adjacent board sides to be staggered at minimum 300mm
For wide columns, it is advisable to include a PROMATECT®-H cover strip behind the joints within the web of the steel column to provide additional impact resistance
- ④a Self-drilling or self-tapping screws at 200mm centres or steel wire staples at 100mm centres, fixed the main PROMATECT®-H board onto the spacer strips
- ④b Two rows of self-drilling, self-tapping Teks screws fixed to steel column at nominal 300mm staggered centres
- ⑤ Structural steel column
- ⑥ Concrete wall substrate



Three sided channel fixing

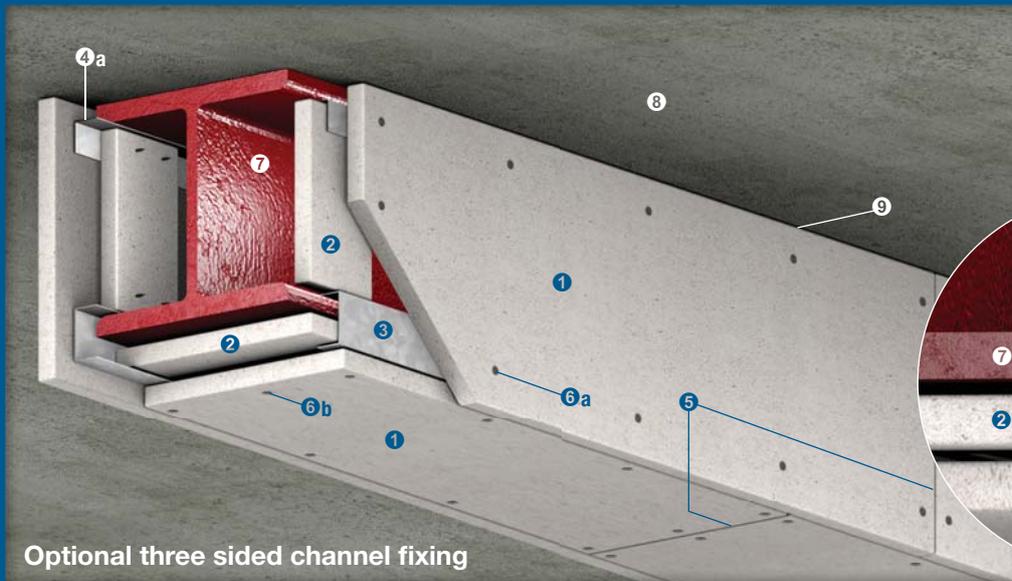


Three sided edge fixing

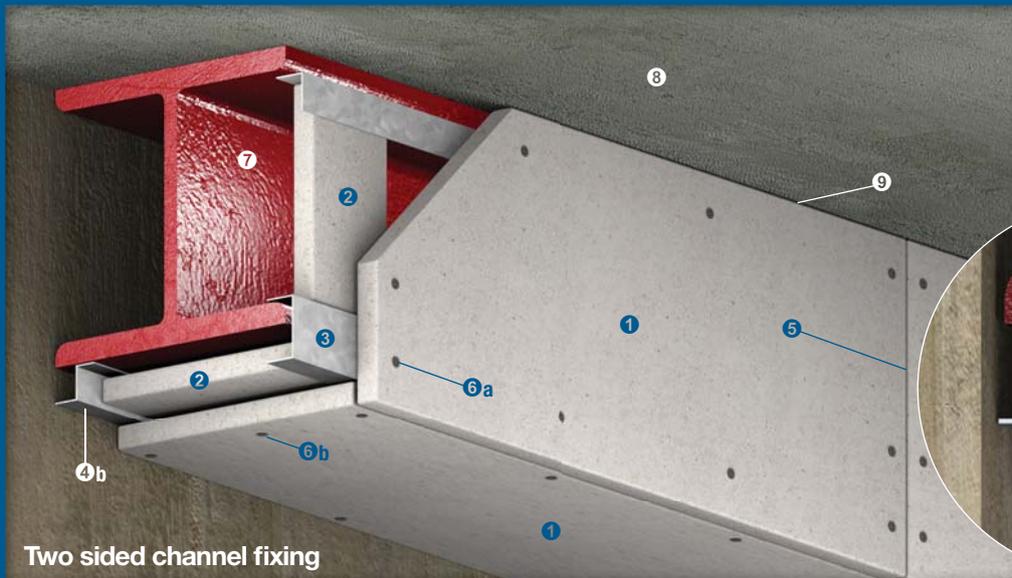
Up to 120/-/- fire resistance in accordance with the requirements of BS 476: Part 21: 1987 and AS 1530: Part 4: 2005, and up to 180/-/- fire resistance in accordance with the requirements of ASTM E119: 2007

- ①a PROMATECT®-H board, thickness in accordance with the Hp/A ratio tables on page 25
- ①b PROMATECT®-H board, ≥ 15 mm of thickness in accordance with the Hp/A ratio tables on page 25
- ② PROMATECT®-H soldiers 100mm wide, minimum thickness similar to the board thickness of ①b, fixed within the web of the steel beam at maximum 1220mm centres behind the board joints using screws at 100mm centres or staples at 50mm centres
For deep beams clad with thicker boards for greater fire resistance, it is advisable to fix the soldiers at nominal 600mm centres in order to reduce the load on the soldiers. For steel beams greater than 600mm deep, a T-section soldier should be used to provide a stronger support
- ③ Continuous galvanised steel channel 19mm x 38mm x 19mm x 1.6mm thick or similar located at the bottom flange, leg of each channel is facing inner surface of the flange
- ④ Continuous galvanised steel angles minimum 32mm x 19mm x 0.9mm thick or similar beneath the upper flange OR fixed to the floor slab using non combustible proprietary anchors at nominal 500mm centres

- ⑤ Vertical and horizontal joints in adjacent board sides to be staggered at minimum 300mm
- ⑥a Self-drilling or self-tapping drywall screws fixed to channel/angle at nominal 200mm centres. Screw length should be additional 20mm of the board thickness
- ⑥b Self-drilling or self-tapping drywall screws fixed to soldiers at nominal 100mm centres. Screw length should be additional 20mm of the board thickness
- ⑥c Fixings in accordance with the table on page 20. Care should be taken not to overtighten the screws. When edge fixing it is advisable to drill pilot holes, particularly with 15mm thick boards
NOTE: <15mm thick boards cannot be edge fixed
- ⑦ Structural steel beam
- ⑧ Floor slab
- ⑨ Caulk all edges between the board and the floor slab with PROMASEAL®-A Acrylic Sealant, depth in accordance with the required board thickness



Optional three sided channel fixing



Two sided channel fixing

Up to 120/-/- fire resistance in accordance with the requirements of BS 476: Part 21: 1987 and AS 1530: Part 4: 2005, and up to 180/-/- fire resistance in accordance with the requirements of ASTM E119: 2007

- ① PROMATECT®-H board, thickness in accordance with the Hp/A ratio tables on page 25
- ② PROMATECT®-H soldiers 100mm wide, minimum thickness similar to the board thickness of ①, fixed within the web of the steel beam at maximum 1220mm centres behind the board joints using screws at 100mm centres or staples at 50mm centres
For deep beams clad with thicker boards for greater fire resistance, it is advisable to fix the soldiers at nominal 600mm centres in order to reduce the load on the soldiers. For steel beams greater than 600mm deep, a T-section soldier should be used to provide a stronger support
- ③ Continuous galvanised steel channel 19mm x 38mm x 19mm x 1.6mm thick or similar located at the bottom flange, leg of each channel is facing inner surface of the flange
- ④a Continuous galvanised steel angles minimum 32mm x 19mm x 0.9mm thick or similar beneath the upper flange OR fixed to the floor slab using non combustible proprietary anchors at nominal 500mm centres

- ④b Continuous galvanised steel Z-section fixed to the bottom flange using non combustible proprietary anchors at nominal 200mm centres AND on the PROMATECT®-H soldier/soffit board without mechanical fixing for differential movement allowance. Caulk all edges between the board and the substrate with PROMASEAL®-A Acrylic Sealant
- ⑤ Vertical and horizontal joints in adjacent board sides to be staggered at minimum 300mm
- ⑥a Self-drilling or self-tapping drywall screws fixed to channel/angle at nominal 200mm centres. Screw length should be additional 20mm of the board thickness
- ⑥b Self-drilling or self-tapping drywall screws fixed to soldiers at nominal 100mm centres. Screw length should be additional 20mm of the board thickness
- ⑦ Structural steel beam
- ⑧ Floor slab
- ⑨ Caulk all edges between the board and the floor slab with PROMASEAL®-A Acrylic Sealant, depth in accordance with the required board thickness