



For FRL of 120 minutes Integrity only (Duct A & B) in accordance with BS476: Part 24: 1987

- ① Mild steel ventilation duct in accordance with DW144 or SMACNA construction requirements.
- ② Etching primer.
- ③ PROMAPAIN[®] FD intumescent coating, minimum 505µm DFT over pre-coated etch primer, minimum 75µm DFT.
- ④ Ceramic fibre 25mm thick x 96kg/m³, or equivalent, for wall penetration collar. The fibre is fixed to duct face using steel pin (item ⑥) and glued against wall using high temperature resistant silicate based adhesive.
- ⑤ Ceramic fibre 96kg/m³ or equivalent tightly packed into aperture of the wall or floor penetration between substrate and the surface of the steel duct.
- ⑥ Steel pin.
- ⑦ M8 bolts and nuts fixing, with spring washers, at nominal 200mm centres all around.
- ⑧ Duct hanger system, maximum permitted stress <10N/mm². Please contact Promat for details of stress calculation.
- ⑨ P1000T Unistrut sections or similar minimum 41mm x 41mm x 2.5mm thick, or equivalent according to duct weight and size and maximum permitted stress levels.

The above construction of fire resistant coating around steel ducts is up to 3000mm wide x 1500mm high in accordance with the criteria of BS476: Part 24: 1987, exposed to external and internal fire. For larger dimensions of duct, please consult Promat Technical Department.