

SMARTFORM Installation Guidelines

1 SMARTFORM COMPOSITION

Smartform is a rolled six-sheet laminate consisting of a creped aluminium top sheet with 100% butyl adhesive backing.

Available widths (mm): 200 / 300 / 450

Available lengths (m): 5m only

Approximate weight: 1.6 kg/m²

Colours: Lead Grey / Black / Terracotta

Stretch: 60% in length

Laminate layers:

- 1) Colour Coating on aluminium foil
- 2) Aluminium foil
- 3) PET foil
- 4) PET Fleece
- 5) Self-adhesive butyl later, 100% coverage
- 6) HDPE Protective foil

2 BASIC LAYING PROCEDURE

The following installation guide is provided as general information only. The responsibility of the roofing contractor or builder and must be performed in accordance with the building codes.

TIP 1: Smartform can be installed in complete 5m lengths.

TIP 2: 100mm overlap with last 2cm turned back on itself to join two rolls. See diagram on roll label.

TIP 3: Smartform has a 2 section perforated protective HDPE backing.

TIP 4: Smartform can be painted with a suitable outdoor acrylic.

TIP 5: The recommended sealant for Smartform other than butyl is Sikaflex Pro.

- **MUST** always be build/chased into brickwork. Over-flashed by cladding or mechanically fixed at rising building structure.
- **ALWAYS** clean mortar and paint debris from the surface immediately.
- **DO NOT** pierce or puncture the surface.

- 1) Ensure Smartform is laid on a dry and dust/oil/silicon and moisture free surface.
- 2) Ensure, that a non-supported gap between tiles and any rising building wall is less than 50mm.
- 3) Measure and cut the appropriate length of flashing.
- 4) Fold and crease to the appropriate dimensions down the length of the flashing using a straight edge, relevant to the angle of installation.
- 5) Remove the first (top) section of backing paper, steadily applying pressure to the Smartform to firmly affix to the wall structure or framework. Must be built-in, chased-in or over-flashed.
- 6) If Smartform is built into brick-work, apply firmly to course of bricks, leaving enough internal material to create a cavity tray.
- 7) Remove the lower, remaining protective backing sheet and dress firmly by hand or wallpaper roller to the roof profile by stretching the creped aluminium. Ensure tight fit to the substructure with no cavities or air spaces to ensure a watertight seal.
- 8) To join rolls/pieces, ensure a 10cm overlap with end 2cm of the underlying roll upturned (See diagram on product label).

3 RETRO-FIT

- **NOT REMOVING EXISTING LEAD**

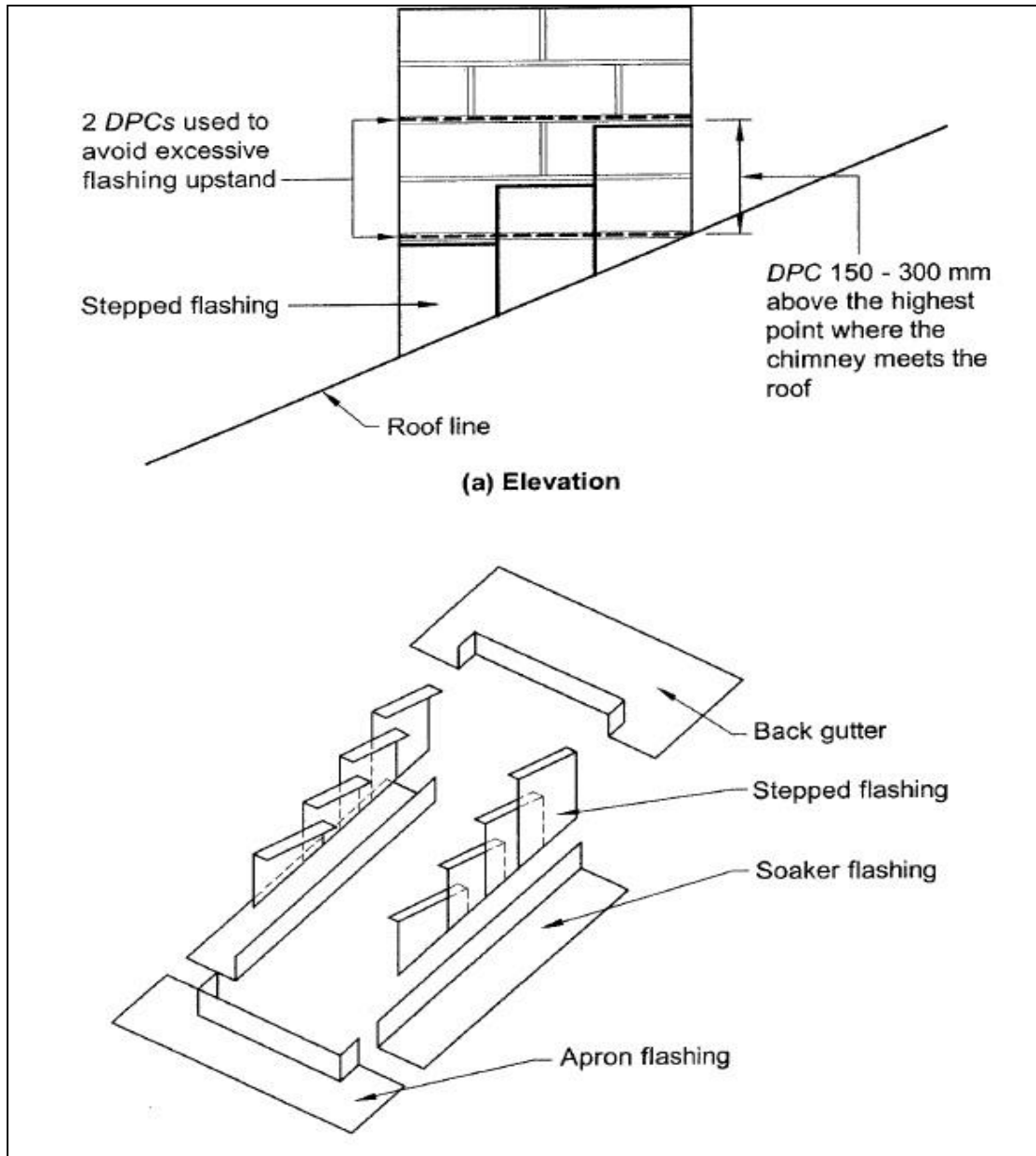
1. Lift existing lead flashing up vertically as much as possible exposing the underlying junction between the roof and wall structure.
2. Removing the top white section of HDPE protective foil and adhere Smartform against the brickwork as close as possible to the existing protruding lead flashing.
3. Using a small roller or hands, apply firm pressure along Smartform to gain the best adhesion against the brick surface. Dress to the beginning of the roof surface.
4. Remove the lower section of HDPE foil exposing the lower butyl strip and make sure the Smartform roll is evenly bridged across the peaks of the tile or metal roof profile. Press down on these peaks only to ensure a good adhesive seal as achieved.
5. Starting roughly in the middle of the flashing section, dress down the first 3 inches (7.5 cm) of Smartform into the trough of the roof profile ensuring the Butyl adhesive has a firm contact with the roof surface. You will need to use your thumbs quite firmly to do this and you should feel the creped aluminium top-sheet stretch, this is normal and required to achieve a tight watertight seal. Continue along the flashing.
6. If there are any overlaps, ensure they are a minimum of 100mm and press down firmly to create a tight bond. A 2 cm upturn is required on the bottom flashing (see diagram on Smartform label)
7. Dress the existing lead flashing back down over the top of Smartform. You can also trim back the old existing lead, a minimum of 50mm must be left to be dressed down over the top section of Smartform.

- **REMOVING EXISTING LEAD**

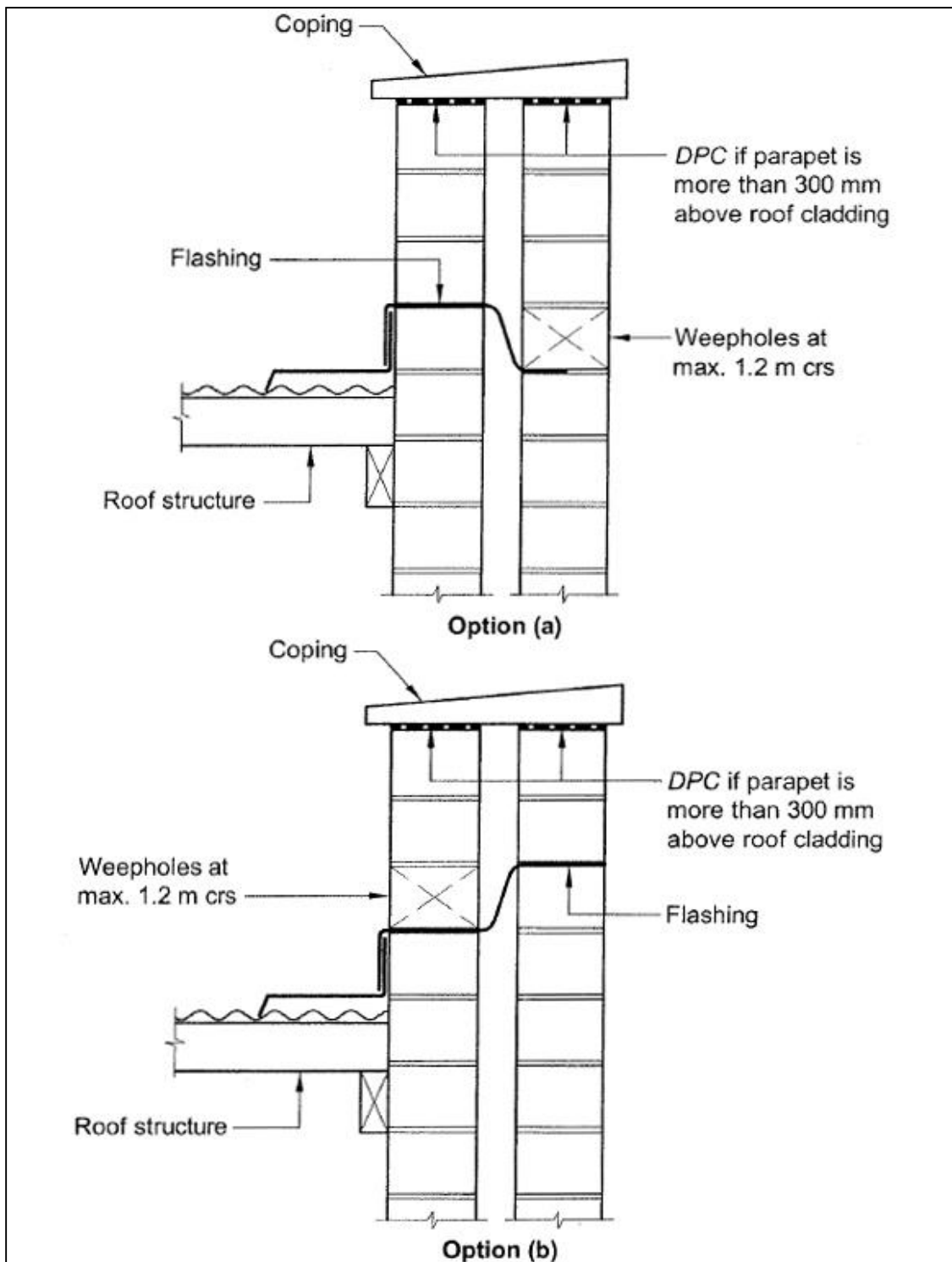
1. Cut away any existing lead with metal snips as close to the wall face as possible. Smooth down the edges or recess onto the wall using an angle grinder.
2. Either... reinstall Smartform into the newly recessed brick course and back fill using cement, butyl strip or Sikaflex Pro, then dress down to brickwork and roof as directed above.

- Or... Using an angle grinder chase a recess into the cement between the brick course above or below the existing lead flashing level. Install Smartform into the recess and follow the process in the point above.

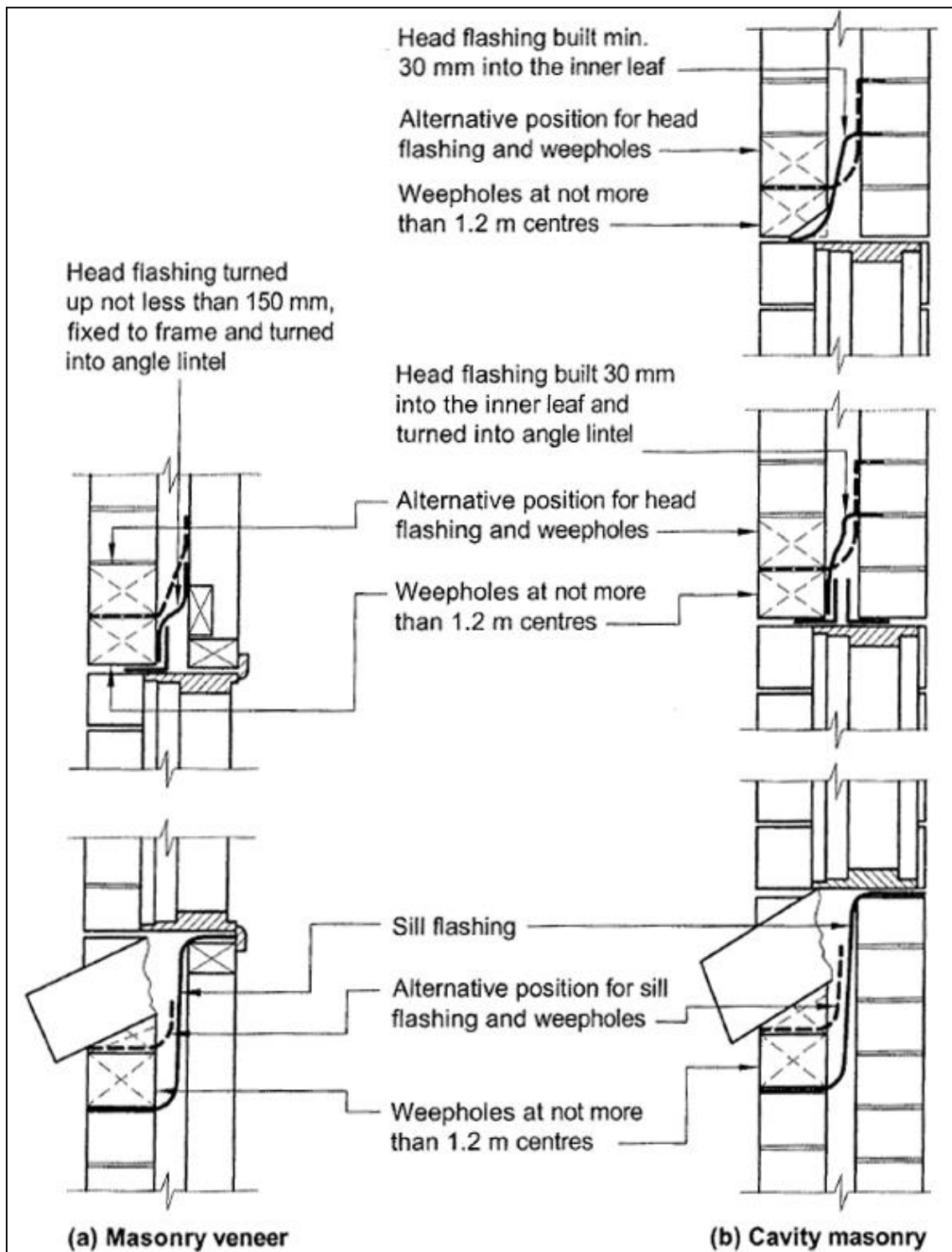
4 CHIMNEYS



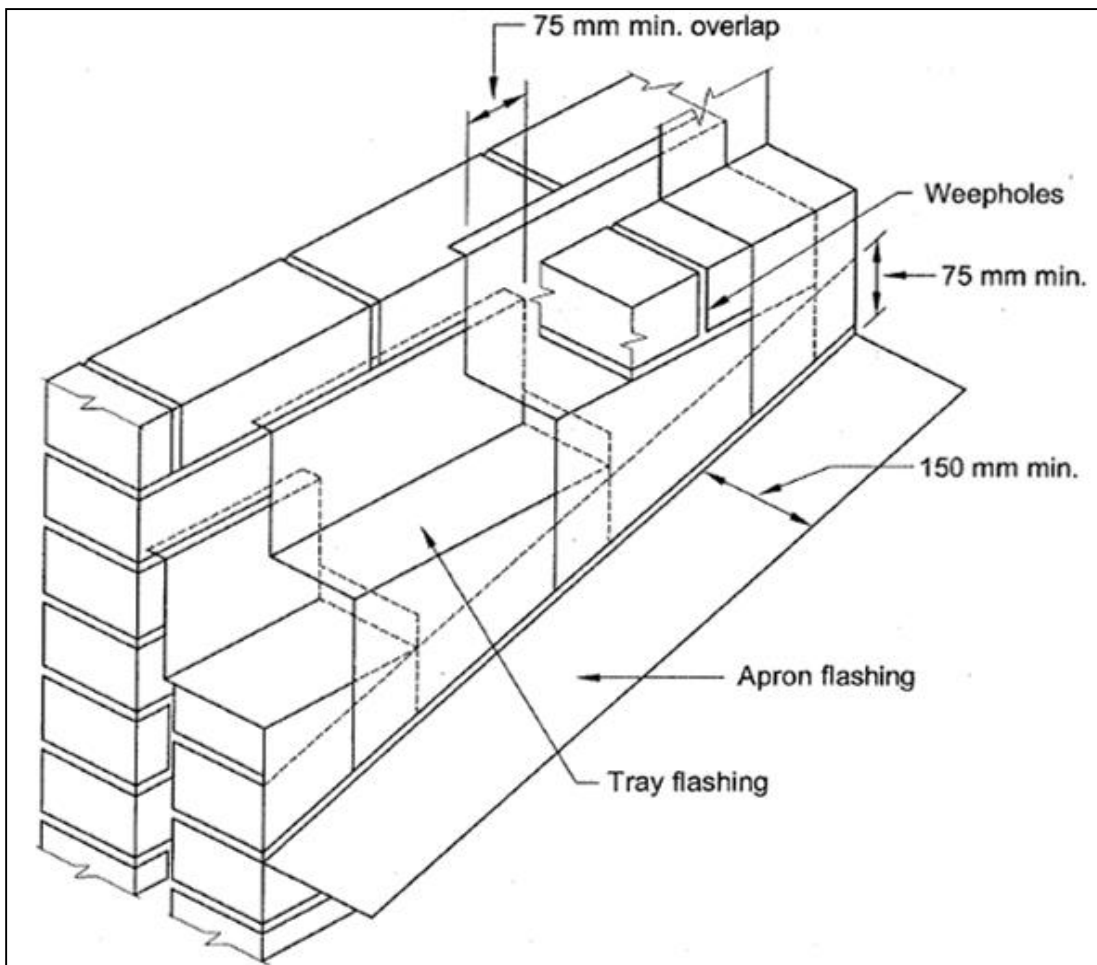
5 ABUTMENTS & PARAPET WALLS



6 SILL & HEAD FLASHINGS



7 ROOF / WALL JUNCTIONS



8 STEPPED CAVITY FLASHINGS

