INSTALLATION GUIDANCE:

GROUND PREPARATION:

Preparation of substrate: CC will conform closely to the underlying surface contours of the ditch profile, therefore any vegetation and sharp or protruding rocks should be removed. The ditch should have a uniform profile for ease of future maintenance. If installing on soft ground, a compacted layer of granular fill can be placed in the invert to create a solid substrate.

Anchor trench: IMPORTANT NOTE: CC requires an anchor trench to prevent undermining from surface water run off and provide a neat edge termination.

INSTALLATION

Unpacking: Remove the packaging and unroll CC into the ditch profile ensuring the fibrous top surface faces upwards, with the PVC membrane in contact with the ground.

Laying: For projects requiring a transverse layup, tuck the leading edge of the CC into the anchor trench before cutting to length.

Cutting: Use a 'snap-off blade' utility knife for cutting CC before it is hydrated or set. Allow 15-20mm from the cut edge due to potential loss of fill. A powered disc-cutter or angle grinder can be used for repeated cutting.

Positioning and fixing: Ensure there is at least a 100mm overlap between CC layers.

IMPORTANT NOTE: Care should be taken to position the overlap in the direction of water flow (like shingled roof tiles). Peg the CC along the anchor trench, through each overlap joint. Hydrate the material under the overlapped sections of the CC.

Jointing: Insert stainless screws at 200mm centres, 30 - 50mm from the edge of the joint. Impermeability of joints can be improved by applying Adhesive Sealant between the layers, prior to screwing.

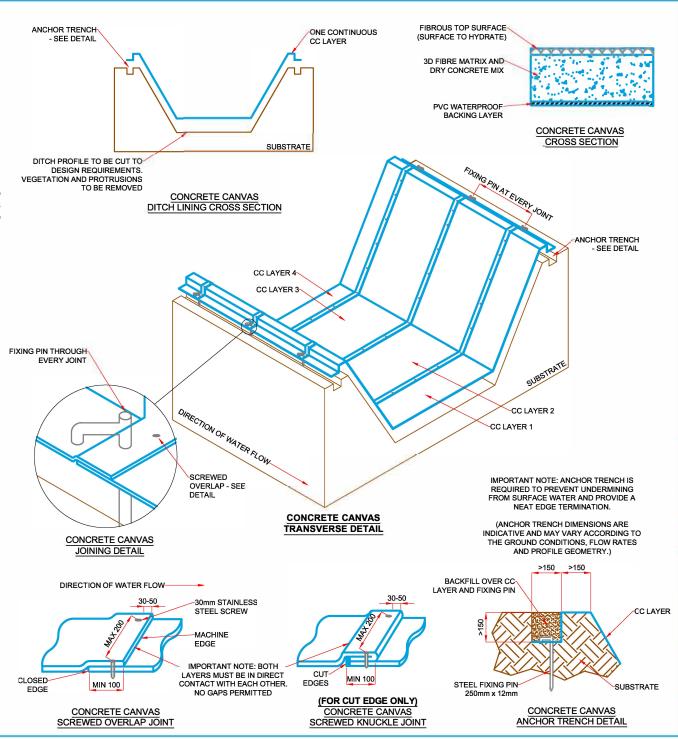
IMPORTANT NOTE: it is essential that CC layers are in direct contact with each other. To prevent CC layers from separating, joints can be weighed with sandbags during setting or additional screws can be used.

Hydration: Spray the fibre surface with water until it feels wet to touch for several minutes after spraying. CC cannot be over hydrated and an excess of water is always recommended. Minimum ratio of water:CC is 1:2 by weight. Do not jet high pressure water directly onto the surface as this may wash a channel in the material. Once hydrated, the material remains workable for 1 to 2 hours. Do not rely on rainfall to hydrate CC.

Setting: CC hardens to 80% strength in 24 hours and is ready for use.

FOR INSTALLATION SEE:

CLICK TO SEE DITCH LINING ANIMATION
CLICK TO SEE BEST PRACTICE INSTALL
CLICK TO SEE REQUIRED EQUIPMENT LIST



Ditch liner to be Concrete Canvas

Geosynthetic Cementitious

Composite Mat (CC).

SPECIFICATION:

CC Type: CC8

40MPa

Thickness: 8mm

Dry density: 12kg/m²

Compressive strength

Abrasion resistance

Manning's value

(DIN 52108): Max 0.1g/cm2

(ASTM D6460): n=0.011

Acid, Alkaline, Hydrocarbon, Sulphate resistance (BS EN

14414): CC to pass minimum

Age testing - Freeze-Thaw, Soak-Dry, Heat-rain, Water

minimum requirements

(BS EN 12467:2004) CC to pass

CONCRETE CANVAS

DITCH LINING

TRANSVERSE DETAIL

CC-L-DLT-001-REV2

VM

REVISION:

PRODUCED:

DRAWING NUMBER:

CONCRETE CANVAS LTD UNIT 3: BLOCK A22, SEVERN RD,

TREFOREST INDUSTRIAL ESTATE

TEL: +44 (0)345 680 1908 EMAIL:INFO@CONRETECANVAS.COM

UK-CC-GEN-SDL-001 REV 0

DRAWING NUMBER:

01 JAN 2017 2

Chemical resistance

requirements

Impermeability

TITLE:

DATE:

SCALE:

N.T.S.

(ASTM C109 - 02 (initial crack)):