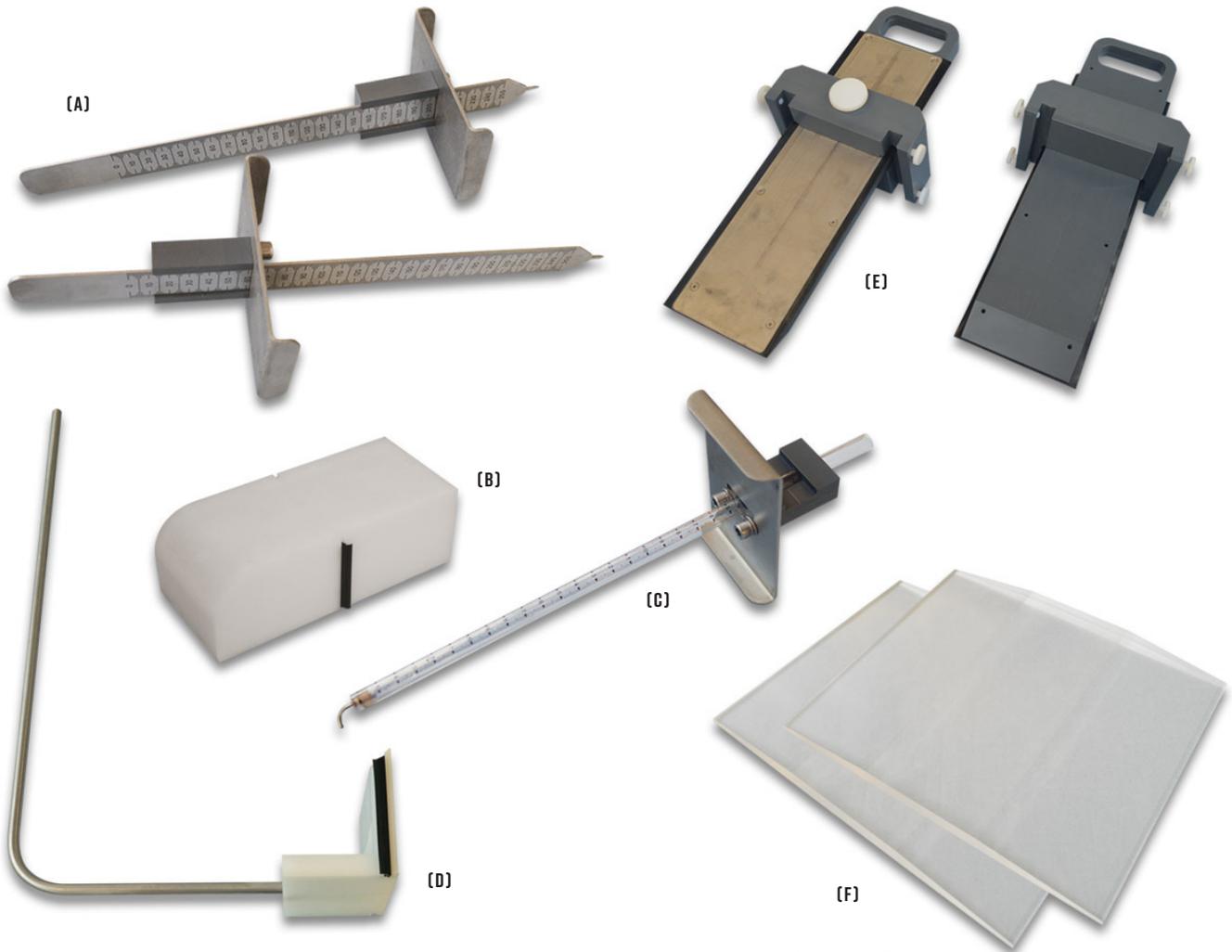


VDAS® FC80 (2.5 AND 5)

FC80 FLUME ANCILLARIES

A selection of basic and optional ancillaries for use with TecEquipment's 80 mm Flumes (FC80 range).



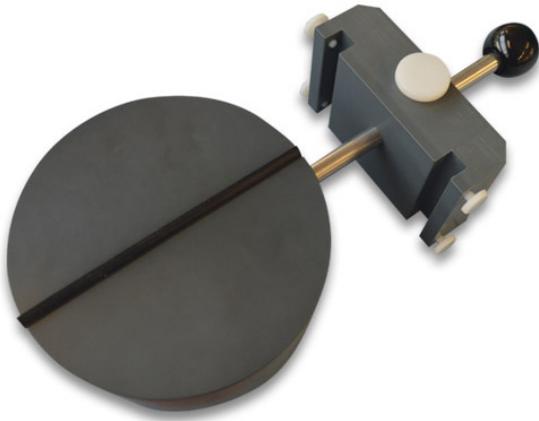
BASICS (SUPPLIED WITH THE FC80 FLUME)

- (A) 2 x Level gauges used to measure the depth of the water in the flume
- (B) Broad-crested weir to allow demonstrations and investigations into how the flow in an open channel can be measured using a broad crested weir
- (C) Pitot tube used to measure the total head at a set height in the flume
- (D) Sharp-crested weir used to measure the volumetric flow rate
- (E) 2 x Sluice gates used to control the flow rate of water for many of the experiments
- (F) Venturi flume to illustrate how flow in an open channel can be measured using the Venturi effect
- 2 x 25 kg bags of 'fine' grade sand and 2 x 25 kg bags of 'coarse' grade sand (not shown)

FC80 FLUME ANCILLARIES

CYLINDRICAL GATE (FC80A)

For studying discharge characteristics and flow through a cylindrical gate.



RADIAL SECTOR GATE (FC80B)

For studying discharge characteristics and flow through a radial sector gate. Similar to a sluice gate.



FLOW VISUALISATION (FC80DI)

A dual colour, gravity fed dye injector to enable the visualisation of flow lines around obstacles in the channel.



(FC80C)

An extra sluice gate, dye and accessories to enable further experimentation for example the study of gravity waves and ice melt.



CRUMP WEIR (FC80D)

A Crump weir to demonstrate how the flow in an open channel can be measured using a Crump weir.



FC80 FLUME ANCILLARIES

DAM SPILLWAY (FC80E)

Ogee weir with interchangeable flat apron, ski jump and toe block for the comparison of different methods of dissipating energy downstream of an Ogee weir.



STREAMLINED HUMPH (FC80G)

A streamlined hump weir to demonstrate how the flow in an open channel can be measured using a streamlined hump.



PARSHALL FLUME (FC80H)

To be used with Venturi sides (supplied) to demonstrate how the flow in an open channel can be measured using a Parshall flume.



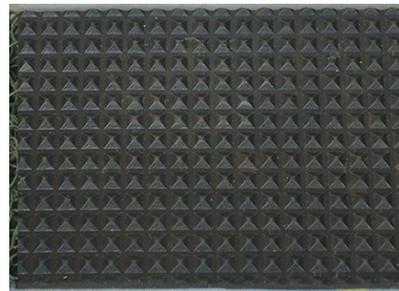
BRIDGE PIERS (FC80J)

For investigating flow around different shaped bridge piers. Also (if using sediment) for looking at sediment scour.

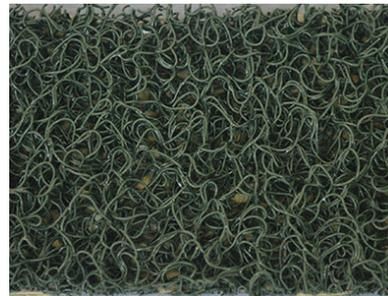


ROUGHENED BED - 2 GRADES (FC80K)

1.5 metre lengths as follows:



Allows students to determine and compare the losses in a smooth flow channel with those experienced in a channel with a roughened surface.



A roughened bed section to allow students to determine and compare the losses in a smooth flow channel with those experienced in a channel with a roughened surface.

FC80 FLUME ANCILLARIES

SIPHON SPILLWAY (FC80L)

A siphon spillway for use with flow channels to demonstrate the flow over a siphon spillway.



CULVERT MODEL (FC80P)

A culvert model for use with flow channels to provide a clear visual demonstration of the flow in circular culverts.



WAVE GENERATOR AND BEACH (FC80N)

A wave generator to allow investigations into the generation and motion of waves in an open channel.

The generator comes with two 'beach' sections, one permeable and one solid.

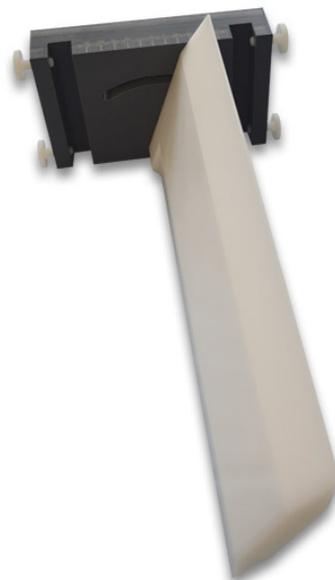
The supplied sand can be used with the wave generator for the study of dune and beach formations.

It is supplied with an ancillary cable.



FLOW SPLITTER (FC80U)

For observations and experiments on dividing water flow.



SEDIMENT FEEDER (FC80SF)

An ancillary to feed dry sediment directly into the channel flow from above. The apparatus sits on top of the channel, the hopper is filled with dry sediment (sand).

The plate below the hopper vibrates causing the sand to move along the chute from which it drops into the flow in the channel.

The rate at which the sediment falls onto the chute from the hopper is adjustable.

