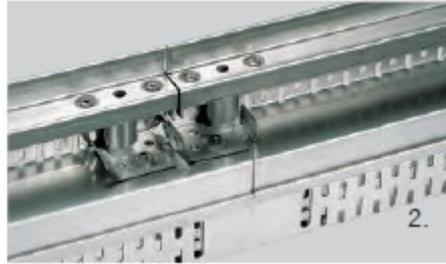


ProfiLine

The ProfiLine system is designed to be positioned above the roof or balcony membrane. It drains water directly from the pavement surface or down a façade via the grate. Perforations in the side walls of the channel allow water that has percolated through the pavement or green roof materials, to drain. It then guides this water to the roof or balcony drain.

Connecting channel lengths



Channels:

- Channels are supplied in 500mm and 1000mm lengths.
- The channel lengths simply drop and lock together using a hook and lug principle.
- Once connected, the channels can't be pulled apart.
- To separate the connection, channels must be displaced vertically.

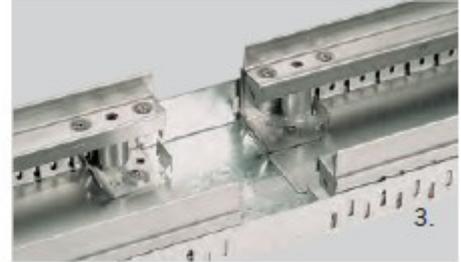
Fixing an end plate



End plates:

- End plates incorporate pressed tangs, which push-fit into slotted openings at the end of the channel.
- A lock screw allows the end plate to adjust to the correct channel height.

Setting up for length adjustment



- The adjustable length component provides up to 0.5m of adjustable span.
- Components consist of a base channel and top rail plus a spare 0.5m grating positioned last but one channel from the end of run.
- Channel ends sit in the base channel and slide adjust for difference in length of run.
- The top rail section spans the adjusted gap and sleeves between side of channel and base channel.
- After height adjustment, secure gratings with lock screws provided.
- Measure and cut down one spare 500mm grate and secure with lock screws provided.
- Protect cuts with an application of cold galvanise paint.

Note: In certain instances it may be possible to cut the end of a channel if the screw jack adjuster is sufficiently inset from the end of the channel, but this will eliminate drop and lock connection.

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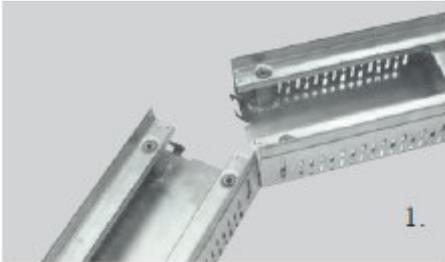
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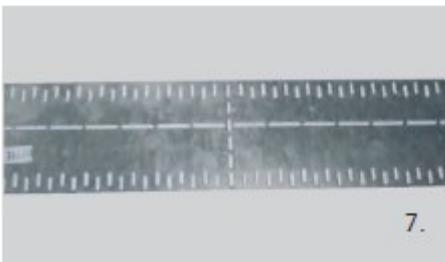
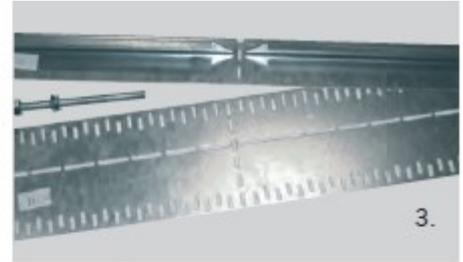
Height ranges



- Four height adjustable screw jacks are located within the channels at the either end and are top accessible for height correction.
- Before fitting the grating use a flat blade screwdriver to adjust the screw jack up or down for fine adjustment. It is possible to make adjustment for both roll and pitch if required.
- Complete adjustment to the channel run and with flat blade screwdriver secure gratings with clockwise quarter turn.



Adjustable corner



- Channels at 90° corners can be butt formed. At the point where a channel abuts the side of another channel, cut the opening to assist drainage, using an angle grinder.
- Irregular corner are formed by butting two channels.
- An adjustable corner kit makes fully supported contained corners from 91° to 179°.
- The kit consists of: a) top rail, b) gravel guard, c) height adjustable support.
- The top rail is creased and easily bends to drop onto the outer rail of the corner.
- The corner must be stabilised by fitting the adjustable support provided.
- Secure the support with fixing nuts above and below and crop off excess stud length.

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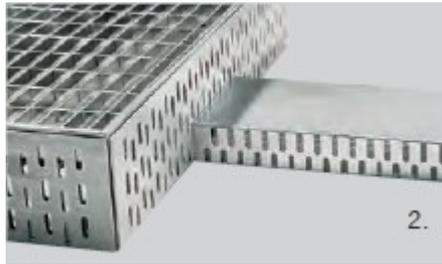
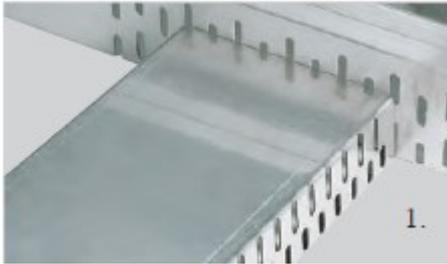
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Forming adjustable corner



- Fold the gravel guard to wrap around the angle ensuring drainage slots are along the bottom edge.
- An over-length grate must be used to form the mitred corner. Take measurements from the grate lock point to the inner and outer apexes of the corner to create an accurate mitre.
- Carefully cut the mitre and deburr.
- Apply a cold galvanise paint to the cut edges for added protection.
- Fit the grates and secure with lock screws provided.

Concealed drainage duct



- The drainage duct is a low profile duct designed for concealed drainage beneath built up and walkaway surfaces on suspended deck construction.
- Simply cut to length and the ducts are laid butt joined.

- Connect into the side of access frames.
- Protect cuts with an application of cold galvanise paint.

Rainwater outlet positions



- The access frame measuring 450mmx450mm or 250mmx250mm includes a grate, which simply lifts out for top access.

- The grate locates within an adjustable frame with perforated side slots.

- Four screw jacks are located within the frame at each corner. Each jack is independently adjustable for height correction.

Access frame extension

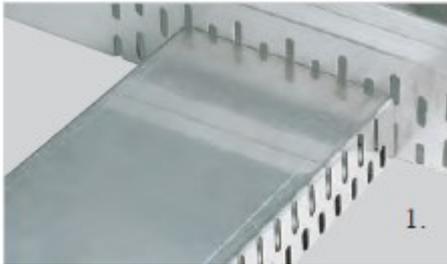


- Access frame extensions measuring 450mmx450mm and 250mmx250mm provide additional height range of 50mm or 75mm height and fit within the frame of the perforated base.
- The mesh grating is standard for both access frame and the access frame extension fittings.

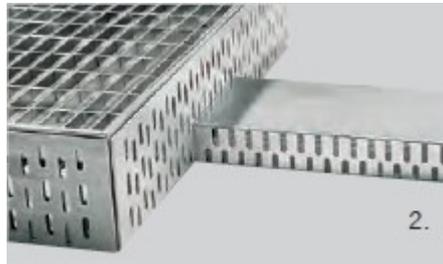


- The larger access frame is sized to allow top access to an ACO rainwater outlet fitted with a flat grate.

Cut out frame



- Channels and drainage duct sections butt up to the side of the access frame and connections will require a free drainage opening to be cut using an angle grinder.



- Protect cuts with an application of cold galvanise paint.

Setting out and installation

Example 1 — Setting out from corner

A channel system with corner where length multiple is greater than 500mm

Notes

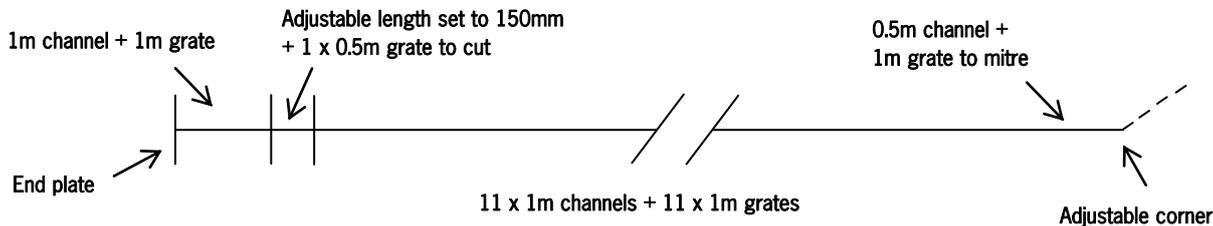
- A channel and grate system manufactured in 0.5m and 1m lengths
- Height and length adjustable.
- Requires cutting of one grate for corner and one grate for length adjustment
- Fully formed variable angles and 90° angles with mitred or butt grating (grates must be cut)

To calculate mix of channel lengths, round down metre age to nearest whole number then add for: 1x1m channel and grate, 1x adjustable length section and 0.5m grate to cut and 1x0.5m channel and 1m grate to mitre.

Materials

- 1 x End plate
- 1 x 1m channel + 1x 1m grate (to attach end plate).
- 1 x adjustable length section + 1 x 0.5m grate (to cut down and create 150mm section)
- 11 x 1m standard channels + 11 x 1m grates
- 1 x 0.5m channel + 1 x 1m grate (to mitre)
- 1 x adjustable corner element

Work sequence



1. Lay out channels only working away from corner starting with the 0.5m length, followed by the 11 x 1m lengths then adjustable length and then the remaining 1m length with end plate. (**Note:** The adjustable length compensates shortage difference in channel run.)
2. Fit adjustable length - no cutting of adjustable length or channels is necessary.
3. Adjust channels to finished height of paving.
4. Fit adjustable corner element and set to height.
5. Fit end plate.
6. Fit and screw-lock standard gratings.
7. Cut adjustable length grating maintaining screw-lock centre.
8. Mitre 1m long grating to corner unit maintaining screw-lock centre.

Note: In certain instances it may be possible to cut the end of a channel of the screw jack adjuster is sufficiently inset from the end of the channel, but this will eliminate drop and lock connection.

Setting out and installation

Example 2 — Setting out from corner

A channel system with corner where length multiple is less than 500mm

Notes

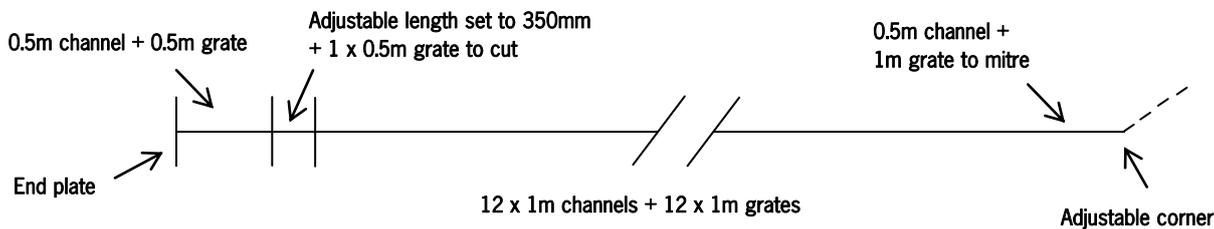
- A channel and grate system manufactured in 0.5m and 1m lengths
- Height and length adjustable.
- Requires cutting of one grate for corner and one grate for length adjustment
- Fully formed variable angles and 90° angles with mitred or butt grating (grates must be cut)

To calculate mix of channel lengths, round down metre age to nearest whole number and deduct 1 metre then: add for 1x0.5m channel and grate, 1x adjustable length section and 0.5m grate to cut and 1x0.5m channel and 1m grate.

Materials

- 1 x End plate
- 1 x 0.5m channel + 1x 0.5m grate (to attach end plate).
- 1 x adjustable length section + 1 x 0.5m grate (to cut down and create 350mm section)
- 12 x 1m standard channels + 12 x 1m grates
- 1 x 0.5m channel + 1 x 1m grate (to mitre)
- 1 x adjustable corner element

Work sequence



1. Lay out channels-only working away from corner starting with the 0.5m length followed by the 11 x 1m lengths then adjustable length and then the remaining 1m length with end plate. (**Note:** The adjustable length compensates shortage difference in channel run.)
2. Fit adjustable length - no cutting of adjustable length or channels is necessary.
3. Adjust channels to finished height of paving.
4. Fit adjustable corner element and set to height.
5. Fit end plate.
6. Fit and screw-lock standard gratings.
7. Cut adjustable length grating maintaining screw-lock centre.
8. Mitre 1m long grating to corner unit maintaining screw-lock centre.

Note: In certain instances it may be possible to cut the end of a channel of the screw jack adjuster is sufficiently inset from the end of the channel, but this will eliminate drop and lock connection.