

# Polymer Concrete Channel Drain

# TELLAM

## Civil Products

ABN : 23 764 280 802

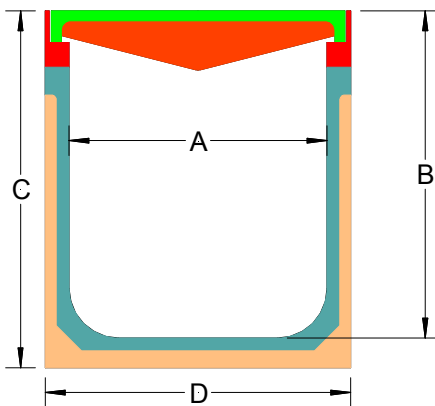
**"Number 1 in Civil"**

**Introducing TellamChannel Polymer Concrete Channel Drain**



- More economical than cast insitu channel
- Quick and easy to handle and install
- Better water flow than cast insitu channel
- Grates are bolted to the channel
- Class D load rated\*
- Available in 3 sizes– 150mm, 200mm & 300mm channel openings

\* Must be installed strictly as per the TCP installation instructions overleaf.



Nominal Size	Part Number	A	B	C	D
150mm	24B21150	150	178	200	210
200mm	24B21200	200	220	250	270
300mm	24B21300	294	240	300	360

Units are sold and supplied in 1000mm lengths

*Dimensions shown are in mm and are subject to change without notice*



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**Tellam Civil Products have the solutions!**



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## TellamChannel Installation Guidelines

### Important notes prior to installing:

**Concrete encasement** around the base and sides of the channel shall be a minimum compressive strength of **25MPa**.

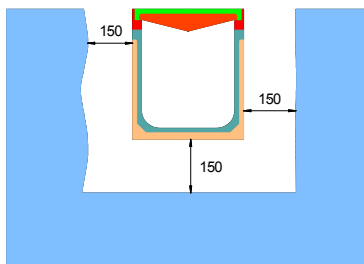
Good concreting practices should be followed to ensure the complete encasement of the channel leaving no voids or holes.

The finished surface of the concrete surround should finish 3 - 5mm above the top edge of the channel.

The channel should be laid using a string line to ensure the channel is installed in a true and straight manner.

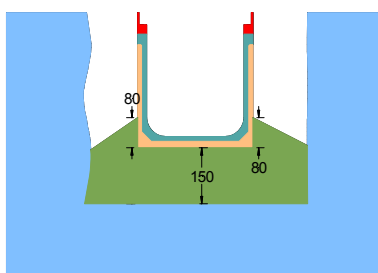
### 1.. The excavation.

A trench must be excavated to allow a minimum 150mm of concrete to be placed under and around the sides of the channel. (This may need to be increased depending on specific ground and loading conditions)



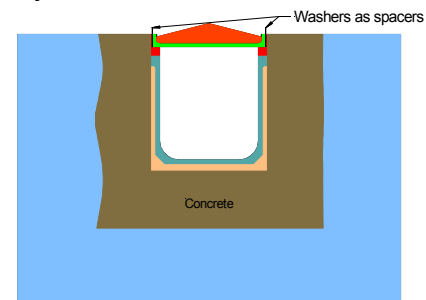
### 2. Layout the channel.

Place concrete in the base of the trench to a depth 20mm deeper than the minimum required and compact to ensure all air has been removed. Place the initial piece of channel, settling the channel base into the required position and at the correct height in the wet concrete. Ensure the channel base is well bedded in the concrete. With the aid of a string line, place the remaining pieces of channel required to complete the trench run in the same manner. When all the channel has been placed, work the concrete into a haunch 80mm high all the way along both sides of the placed channel, ensuring the channel remains in the correct height and position.



### 3. Installing grates and completing the pour

Allow the concrete haunch to cure sufficiently to ensure the channel is well located so it will not move during the grate placement or the concrete pour. Turn the channel grates upside down to reduce to opportunity for concrete spillage on them (wrap in plastic if in doubt) . Place the grates into the seat area on the channel. Also ensure a small spacer is placed between the edge of the grate and the edge of the channel. This will allow enough movement to remove the grates easily at the completion of the job. (Galvanised washers work well for this task!). With the grates in place, complete the concrete pour ensuring good compaction of the concrete during this process. The finished height of the concrete **must be 3–5 mm higher** than the edge of the channel. **Do not pour the concrete around the channel without the grates in place as they may not fit back into the channel if this is done!**



### 4. Completing the installation.

Once the concrete has cured, remove the spacers and the grates from the seat area of the channel. Clean down any loose debris on the channel seat area ensuring loose material does not enter the threaded holes for the bolts. Clean out any material remaining in the channel. Clean down the grates. Fill any gaps in channel with sealant if required. With this done the grates can now be replaced and bolted to the channel with the bolts provided. Care should be taken to ensure the concrete surround and channel is not damaged by any heavy machinery during the completion of the construction phase.

