



**NOTES:**

1. It is necessary to ensure the minimum dimensions shown are suitable for the existing ground conditions. *Engineering advice may be required.*
2. A minimum concrete strength of 3000 PSI is recommended. The concrete should be vibrated to eliminate air pockets.
3. The paver course adjacent to the channel edge must be fully bonded to the concrete surround.
4. The finished level of the concrete surround must be approx. 1/8" above the top of the channel edge.
5. Refer to ACO'S latest installation instructions for complete details.

The surface drainage system shall be polymer concrete S100K channel system with ductile iron rail and grate as manufactured by ACO Polymer Products, Inc., Chardon, Oh.

Channels will be manufactured from polyester resin polymer concrete with an integrally cast in ductile iron rail and supplied with ductile iron grates.

The system shall be 4 inches (100mm) nominal inside width with a 6.3 in. (160mm) overall width and a built-in slope of 0.6 %. All channels shall be interlocking with a male/female joint. Each channel shall have a 4.5 in. (114mm) schedule 40 and 6 in. (150mm) oval drill-out on the bottom for vertical connection with underground piping.

The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

The channel system shall be independantly certified to withstand loadings to load class F (DIN19580). Grates shall be secured using 'Powerlok' Boltless locking system. Grate and Locking system shall be fully removable from channel.

Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi; flexural strength between 3600-4500 psi; tensile strength of 1500 psi. The material water absorption rate shall not exceed 0.1 % by weight and shall be resistant to prolonged salt exposure, repetitive frost cycles and chemically resistant to dilute acids and alkalis.

The system shall be installed in accordance with the manufacturer's instructions and recommendations.