



**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 finished level of the concrete surround must be approx. 1/8" above the top of the channel edge.
4. Refer to ACO'S latest installation instructions for complete details.

The surface drainage system shall be polymer concrete K100S channel system with galvanized steel or stainless steel K-rails as manufactured by ACO Polymer Products, Inc., Chardon, Oh.

Channels shall be manufactured from polyester resin polymer concrete with an integrally cast-in galvanized steel or stainless steel edge rail.

The system shall be 4 inches (100mm) nominal inside width with a 6.1 in. (155mm) overall width and a built-in slope of 0.6 %. All channels shall be interlocking with a male/female joint. Each channel shall have preformed 4 in. (100mm) round and 6 in. (150mm) oval drill-outs 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.

Channel shall withstand loading to Load Class \_\_\_ \*(DIN 19 580). Grate type shall be appropriate to meet the system load class specified and intended application. Grates shall be secured by means of either a boltless locking "Quicklok" device or locking bolt and bar. Channel and grate shall be independently certified to meet the specified DIN 19580 load class.

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.  
\*Fill in as required.