

## Glossary of Terms

### **Austenitic**

A non-magnetic grade of stainless steel ideal for hygiene and corrosion resistant applications as particles are not attracted to the stainless steel which could result in bacterial contamination or corrosion.

### **Electro-polishing**

Components are immersed in a bath of electrolyte containing phosphoric acid where the component becomes the anode of a direct current electrical circuit. The process causes the component to shed any upstanding roughness which results in a uniform highly reflective, smooth surface. The process is effectively electro-plating in reverse.

Electro-polishing is often required in pharmaceutical and food processing industries as bacterial resistance is greatly improved.

### **Pickle Passivation**

A two-phase process performed after metal fabrication and welding. The pickling part of the process involves submerging parts in a bath of nitric and hydrofluoric acids to remove the bluish oxide film and chromium depleted layer resulting from welding. Passivation involves submerging the part in a bath of nitric acid only, which removes any impurities embedded in the surface during cutting, folding and grinding, this restores the chromium rich surface which gives stainless steel its corrosion resistance properties.

### **Side Inlet**

Optional pipes fitted to the side of the gully to allow additional pipes to drain into the gully from the side, which can act as charging units.

### **Stainless Steel**

A grade of steel with enhanced corrosion resistance over conventional mild and alloy steels.

### **Trap**

A bent section of pipe where a level of liquid is maintained to prevent the back flow of gases/odours.

## Flow Rates

Flow rates are influenced by two factors: the capacity of the gully and the intake capacity of the grate. Usually the intake of the grate controls the flow capacity of the gully unless the side inlets are used or a down pipe is taken directly into the gully. The following table provides the flow rates of both the gully and the grates.

Gully bodies	l/s
EG150 V or H with FAT* fitted	1.3
EG150V with vertical outlet	9.6
EG150H with horizontal outlet	4.0

Grates	l/s
Perforated grate	1.1
Mesh grate	6.3

\* FAT = Foul Air Trap

## Technical Support

ACO's team of in-house engineers can provide assistance with:

- Pipe hydraulic calculations
- Pipe and seal material selection
- General installation and design advice

## Specification Clause

ACO STAINLESS EG150 stainless steel waste water floor gullies as supplied by ACO Stainless (a division of ACO Polycrete Pty Ltd.), 185 Briens Road, Northmead NSW 2152.

All components to be manufactured from austenitic grades 304\*/316\* stainless steel to BS EN 10088 and to be pickle passivated and where appropriate, electro-polished.

The gully shall have a 110mm vertical outlet\* / 75mm horizontal outlet\* and where appropriate, 3 side inlets.

The gully shall be suitable for use with cementitious\*/vinyl\*/membrane\* flooring.

All components used within the scope of this system are shown on Drawing No. \_\_\_\_\_\* and all work shall be carried out strictly in accordance with the manufacturer's instructions and the installation details set out on Drawing No. \_\_\_\_\_\*.

\* Please delete or complete as appropriate.