

## Materials/care and maintenance

Materials and finish of Wade gratings and channel, described below, are selected to provide lasting performance and to blend with surroundings. The products require the minimum of maintenance, but periodic inspection should be carried out to ensure absence of matter which could impede drainage. Measures set out below will sustain appearance and prolong service life.

### Cast aluminium – BS EN 1706

#### Used for gratings

An alloy chosen for its chemical resistance and durability.

### Cast iron – BS EN 1561

#### Used for gratings and gullies

A widely used metal in the drainage industry, its resistance to corrosion permits extended use under extreme conditions. Castings are coated with a high grade lacquer paint, applied by full immersion dip, to provide internal and external surface coverage. Paint will gradually wear off and is replaceable; oxidation (surface rusting) is a natural process which does not weaken the material. A zinc anti-corrosion coating is applied to certain castings by sherardizing.

### Ductile iron – BS EN 1563 and 1564

#### Used for gratings

A casting with the ductility of steel, yet with more than twice the tensile strength of cast iron. A zinc anti-corrosion coating is applied by sherardizing.

### Neoprene

Used for gaskets and seals. Maximum continuous operating temperature of 100°C.

### Nickel bronze – BS EN 1982 satin finish

#### Used for gratings

A cast alloy with a fine grain effect which blends well with most floor finishes. The satin finish is generally maintained by the slight abrasive action of passing traffic. In unused

areas the material will gradually tarnish. To restore lustre, apply a plain nylon scouring pad (not soap-filled) in the direction of the grain.

### Nylon 6

#### Used for filter bucket and removable bottle trap

Chosen for its toughness and durability. Maximum continuous operating temperature of 180°C.

### Polypropylene

Used for the removable trap in stainless steel gullies. Maximum continuous operating temperature of 100°C.

### Silicone rubber

Used in O-ring in removable bottle trap. Maximum continuous operating temperature of 180°C.

### Stainless steel – grade 304 and 316

#### Used for bodies, channels, gratings, funnels, access covers, filter buckets and fixings

A corrosion-resistant metal containing significant amounts of nickel and chromium; AISI grade 304 stainless steel is used as standard, which is suitable for general use in and around buildings including most coastal locations. In applications such as swimming pools or having an aggressive atmosphere, grade 316 is recommended and is available on request. An even higher grade may be required for applications in highly corrosive environments including where exposure to seawater may be anticipated.

Clean with soap and warm water rinse and wipe dry. Gratings may also be cleaned in certain dishwashers.

Under no circumstances treat with metal scouring pads, metal scrapers or wire wool as these will contaminate surfaces leaving rust spots.

## Load rating class

This catalogue shows the load rating class for each product based on BS EN 1433 as follows:

- A 15** Areas which can be used only by pedestrians and pedal cyclists.
- B 125** Footways, pedestrian and comparable areas, private car parks and car parking decks.
- C 250** Kerbsides – maximum of 0.5 m into the carriage way and a maximum of 0.2m into the footway.
- D 400** Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

Channel load ratings are as tested when cast in concrete grade C30/37 up to finished floor level. Channels installed in other types of floor construction may not meet the same load class if they are not fully supported.

Where grating and channel within an assembly are different load classes the lower class is applicable to that assembly.

The selection of the appropriate class is the responsibility of the designer; where there is any doubt the stronger class should be used.

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