

# Materials

Materials and finish of Wade floor gullies and access covers, 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.

## Stainless Steel – Austenitic Grade 304 and 316

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

A corrosion-resistant metal containing significant amounts of nickel and chromium.

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.

## Nickel Bronze – BS 1400

Used with satin finish for gratings, funnels and access covers.

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.

## Polished Bronze – BS 1400 (Gunmetal)

Used for gratings, funnels and access covers.

A cast alloy suited for finished floors where the rich, bronze colour complements the decor. The "mirror" finish is produced by polishing. If left alone polished bronze will gradually tarnish. To restore lustre, use metal polish and buff with a cloth. The mirror finish must not be treated with any abrasive cleaning material otherwise the surface will be permanently scratched.

## Ductile Iron – BS EN 1563 + 1564

Used only 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 galvanising or sherardizing.

## Cast Iron – BS EN 1561

Used for bodies, membrane clamping collars, spigot adaptors and accessories such as extensions.

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 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 galvanising or sherardizing.

## Polypropylene

Used for the removable trap in stainless steel gullies.

## ABS

Used for bodies, dip tubes, extensions and spigot adaptors.

A cost-effective, fire-resistant material.

## Nylon 6

Used for bottle trap and filter bucket.

Chosen for its toughness and durability.

## ACCESS COVER

Removable, solid cover set in a frame at finished floor level to enable access to pipework or services without disturbing the floor finish; most versions are sealed.

## ADAPTOR

Component used to connect one item to another.

## APERTURES

Openings in a GRATING which may be holes or slots.

## AUXILIARY INLET

See SIDE INLET

## BACK INLET

See SIDE INLET

## BACKWATER VALVE

Non-return valve fitted to a GRATING or BODY which prevents the flow of foul water back into a drained area.

## BELL TRAP

TRAP with vertical inlet and OUTLET on the same axis.

## BODY

Bowl-like part of a GULLY, fitted below or in the floor, on which the GRATING is generally fitted and to which pipework is connected; may be trapped or non-trapped.

## BODY COLLAR

See MEMBRANE CLAMPING COLLAR

## BUCKET

Removable receptacle fitted within a GULLY to intercept solids, debris etc.

## CAULK

Traditional method of jointing a BODY to pipework. Tarred hemp yarn is placed in the caulking recess followed by molten lead or lead wool. The lead is compacted into place with a caulking iron to form a waterproof joint. Cold caulk compounds may also be used.

## CHANNEL GRATING

Long, narrow gratings fitted in a channel, or frame, to provide linear drainage.

## CLAMP COLLAR/RING

See MEMBRANE CLAMPING COLLAR

## CLAMPING DEVICE

See MEMBRANE CLAMPING COLLAR

## CLEANOUT

See ACCESS COVER

## COVER

See ACCESS COVER

## DAMP-PROOF MEMBRANE (DPM)

Protective covering generally laid on top of a structural slab in a ground floor to prevent damp from entering the building. When a GULLY is fitted in such a floor, the membrane is dressed on the FLANGE, into the mouth of the BODY, and clamped with a MEMBRANE CLAMPING COLLAR to ensure a watertight joint.

## DEEP SEAL

WATER SEAL of 75mm or more.

## DIRECT CONNECTION

Version of BODY/GRATING/COVER, outlet of which is machined to enable direct connection to pipework.

## EXTENSION

Accessory used to increase the effective height of a GRATING or COVER above a BODY.

## FILTER BUCKET

See BUCKET

## FFL

FINISHED FLOOR LEVEL.

## FINISHED FLOOR

Floor covered with asphalt, carpet, ceramic tiles, flexible sheet, marble, paviers, resin, terrazzo, vinyl, or wood etc.

## FLANGE

Part of the BODY leading to the mouth, over which the DAMP-PROOF MEMBRANE is laid.

## FLOOR DRAIN

See GULLY

## FLOW RATE

Maximum amount of liquid (litres/sec.) that can be drained, at a given HEAD OF WATER. See page 2 Design Considerations.

## FRAME

Support for a GRATING or COVER which is connected to a BODY either directly or by means of a MEMBRANE CLAMPING COLLAR.

## FUNNEL

Accessory to receive waste pipes, condensate lines or discharges from sinks, refrigeration units, boiling pans etc.

## GRATE

See GRATING

## GRATING

Removable component of a GULLY fitted at floor level; upper surface contains APERTURES to receive waste water; generally fitted in a FRAME; most versions are HEIGHT ADJUSTABLE (VARI-LEVEL or MULTI-LEVEL) and can be increased in height by means of an EXTENSION; versions available for DIRECT CONNECTION to pipework.

## GRATING FREE AREA

Area of APERTURES in a GRATING, expressed in cm<sup>2</sup>.

## GULLY

Discharge fitting, the top of which is a GRATING or COVER, capable of installation at floor level, intended to receive waste water either through APERTURES in a GRATING and/or from pipes connected to the BODY of the gully, may be trapped or non-trapped.

## HEAD OF WATER

Height of water above the GRATING, used to determine FLOW RATE.

## HEIGHT ADJUSTABILITY

Facility to adjust the height of a GRATING or COVER above the FLANGE to suit floor level.

## I.D.

Internal diameter.

## INTERNAL CAULK

See CAULK

# Glossary

## K3

LOAD RATING class, see page 2 for details.

## L15

LOAD RATING class, see page 2 for details.

## LOAD RATING

Capability to withstand loads, expressed in classes, or N/mm<sup>2</sup>. (see page 2 for details).

## M125

LOAD RATING class, see page 2 for details.

## MEMBRANE CLAMPING COLLAR

Used to clamp a DAMP-PROOF MEMBRANE to a BODY; is a required component with some Series to connect GRATING to BODY, but on others it is an option.

## M.J.

Mechanical joint.

## MULTI-LEVEL

Range of gullies in which the height of a GRATING may be adjusted to suit floor level, using a 'peg and cam' principle.

## O.D.

Outside diameter.

## OUTLET

Part of BODY through which waste water is discharged into connecting pipework.

## 'P' TRAP

TRAP with a vertical inlet, and an OUTLET inclined slightly below the horizontal.

## PLANT ROOM

Part of premises housing machinery and/or services.

## PLANTING AREAS

Gardens, shrubberies etc., may be located on a roof.

## 'Q' TRAP

TRAP with a vertical inlet, and an outlet inclined at 45° below the horizontal.

## RAISING PIECE

See EXTENSION

## RODDING EYE/POINT

See ACCESS COVER

## 'S' TRAP

TRAP with a vertical inlet and an offset OUTLET parallel to it.

## SEAL

See WATER SEAL

## SHEET FLOOR COVERING

Flexible watertight finished layer for floors, affixed to the FLANGE by means of a CLAMPING COLLAR; requires GRATINGS and COVERS to suit.

## SIDE INLET

Permits the underfloor connection of other fixtures (sinks, wash basins etc) into a GULLY

## SPIGOT ADAPTOR

Converts threaded outlet BODY to a spigot outlet allowing connection to pipework using a proprietary coupling.

## STRAINER

Meshed accessory used to intercept debris. (term is sometimes used by others to denote GRATING).

## SUMP

Bowl of BODY; large sump enables sudden surges of waste water to be retained, thereby controlling flow through the GULLY.

## SUPERSEAL

Range of quick-release, double-sealed ACCESS COVERS.

## THREAD

Four standard types are used in Wade GULLIES:

**BSP** (British Standard Pipe) - outlet thread of a BODY, connection to SIDE INLET;

**BSPT** (British Standard Pipe, Tapered) - thread on screw-in SPIGOT ADAPTORS;

**NPSM** (National Pipe Straight Mechanical) - thread on GRATINGS allowing easy height adjustment when installed with BODY, MEMBRANE CLAMPING COLLAR, or ADAPTOR;

**Metric-I.S.O.** - thread used for all fixing screws, studs etc.

## TRAP

Removable or integral part of a BODY which prevents, by means of a WATER SEAL, the passage of foul air from the OUTLET to the inlet.

## TRAP SEAL

See WATER SEAL

## TUNDISH

See FUNNEL

## UNFINISHED FLOOR

Generally, bare concrete.

## UNI-LEVEL

Range of gullies with non-height ADJUSTABLE grating.

## VARI-LEVEL

Range of gullies comprising various BODIES which accept various GRATINGS and COVERS which are HEIGHT ADJUSTABLE with a fine thread to enable accurate installation at FINISHED FLOOR LEVEL.

## VINYL

A form of flexible sheet floor covering; requires GRATINGS and COVERS to suit.

## WATER SEAL

Effective height of water (min. 50mm) in a TRAP which prevents the passage of foul air.

## WEEPHOLES

(Optional) holes located in a MEMBRANE CLAMPING COLLAR or a BODY which provide supplementary drainage at membrane level.

# Spec. Code Index

Code		Code		Code		Code		Code	
B1-2	5B ntc1 1	K2701	5G nb 1	K5801	5V ci	L2893	6G nb 2	N405	6G nb 3
B5	5B ntc1 3	K2791	6G nb 2	K5891	6V ci	L2901	5G ss	N409	6V nb 2
C2, 3	5B ntc1 1	K2801	5G ss	L1941	6G nb 4	L2902	5G ss	N410	6G nb 3
C5	5B ntc1 2	K2891	6G ss	L2041	6G nb 4	L2991	6G ss	P3	11M 1
D2, 4	5B ntc1 2	K2901	5G ss	L2101	5G nb 2	L2992	6G ss	P4	11M 2
D6-8	5B ntc1 3	K2941	6G ss	L2102	5G nb 2	L3001	5G nb 2	P5	11M 1
D10-12	5B ntc1bm	K2991	6G ss	L2103	5G nb 2	L3091	6G nb 4	P8-10	11P
E2, 4, 5	8.2	K3001	5G nb 1	L2104	5G nb 2	L3101	5G ss	P14	11S
F2-3	8.3	K3091	6G nb 1	L2105	5G ss	L3102	5G ss	Q1-5	11L 1
G1-3	5B tci 1	K3101	5G nb 1	L2106	5G ss	L3191	6G ss	Q6-8	11L 2
G5, 6	5B tci 2	K3191	6G nb 1	L2141	6G nb 4	L3192	6G ss	Q10	4B 3
G8	5B tci 1	K32	11o	L2191	6G nb 4	L5101	5V nb	Q10V	4SF
G10	5B tci 2	K3301	5G nb 1	L2192	6G nb 4	L5103	5V nb	Q11	11L 2
GC	5B tci 4	K3302	5G nb 1	L2193	6G nb 4	L5191	6V nb 1	Q12, 13	4B 1
GD	5B tci 5	K3391	6G nb 2	L2194	6G nb 4	L5193	6V nb 1	Q12V	4SF
GP	5B TP	K3401	5G nb1	L2196	6G ss	L5201	5V nb	Q14	4B 3
GV5	11SF 2	K3402	5G nb 1	L2201	5G nb 2	L5291	6V nb 1	Q14V	4SF
GV6	11SF3	K3407	5G ss	L2202	5G nb 2	L5301	5G nb 2	Q21	4B 1
H1-3	5B tci 3	K3491	6G nb 2	L2241	6G nb 4	L5391	6G nb 4	Q22	4B 2
J2	5B tci 3	K3492	6G nb 2	L2291	6G nb 4	L5307	5G ss	Q23	4B 1
K1807	5Gss	K3497	6G ss	L2292	6G nb 4	L5397	6V ss	Q24	4B 2
K1897	6Gss	K5101	5V nb	L2301	5G nb 2	L5401	5G nb 2	Q27	4B 1
K1941	6Gnb 1	K5102	5V nb	L2391	6G nb 4	L5491	6G nb 4	Q28	4B 2
K2041	6Gnb 1	K5103	5V nb	L2402	5G nb 2	L5501	5V nb	Q41-93	4G
K2101	5G nb 1	K5107	5V ss	L2403	5G nb 2	L5507	5V ss	R1	11SF 1
K2102	5G nb 1	K5192	6V nb 2	L2404	5G nb 2	L5591	6V nb 1	R3-6, 8	11V
K2103	5G nb 1	K5197	6V ss	L2406	5G nb 2	L5597	6V ss	T1-6	10
K2103 Cl	5G ci	K5201	5V nb	L2407	5G nb 2	L5601	5V nb	T7-9	5X 2
K2106	5G ss	K5202	5V nb	L2408	5G nb 2	L5691	6V nb 1	T11, 12	10
K2142	6G nb 1	K5203	5V nb	L2409	5G nb 2	L5701	5V ci	T13, 14	5X 2
K2191	6G nb 1	K5206	5V ss	L2442	6G nb 5	L5791	6V ci	T15-17	10
K2192	6G nb 1	K5241	6V nb 1	L2444	6G nb 5	L5807	5V ss	TP7	5X 2
K2193	6G nb 1	K5291	6V nb 1	L2447	6G nb 5	L5897	6V ss	U1-2	5X 2
K2193 Cl	6G ci	K5292	6V nb 1	L2492	6G nb 5	M1	8.1	U3	8.1
K2196	6G ss	K5293	6V nb 1	L2493	6G nb 5	M3, 4	8.2	U4	8.2
K2201	5G nb 1	K5296	6V ss	L2494	6G nb 5	N1	6G nb 3	U5, 6, 9	5X 1
K2291	6G nb 1	K5301	5V nb	L2496	6G nb 5	N211	6G nb 3	U11	5X 2
K2301	5G nb 1	K5307	5V ss	L2497	6G nb 5	N212	6V nb 2	U12-14	5X 1
K2302	5G nb 1	K5391	6V nb 1	L2498	6G nb 5	N213	6G nb 3	U15-16	5X 3
K2303	5G nb 1	K5397	6V ss	L2499	6G nb 5	N214	6V nb 2	UP1	5X 2
K2307	5G ss	K5401	5V nb	L2501	5G nb 2	N215	6G nb 3	UP7	5X 1
K2392	6G nb 3	K5491	6V nb 1	L2501 Cl	5G ci	N216	6V nb 2	WB3	7.1
K2397	6G ss	K5501	5V nb	L2591	6G nb 4	N217	6G nb 3	WB5	7.2
K2401	5G nb 1	K5507	5V ss	L2591 Cl	6G ci	N218	6V nb 2	WD2-6	8.4
K2407	5G ss	K5591	6V nb 1	L2601	5G ci	N301	6G nb 3	WD7	8.5
K2491	6G nb 1	K5597	6V ss	L2691	6G ci	N302	6V nb 2	WP	WP
K2497	6G ss	K5601	5V nb	L2701	5G ss	N303	6G nb 3		
K2501	5G ci	K5607	5V ss	L2791	6G ss	N304	6V nb 2		
K2591	6G ci	K5697	6V ss	L2801	5G nb 1	N305	6G nb 3		
K2601	5G nb 1	K5701	5V nb	L2803	5G nb 1	N306	6V nb 2		
K2691	6G nb 2	K5791	6V nb 1	L2891	6G nb 2	N404	6V nb 2		



### Information Technology from Wade

Wade literature is available on CD ROM, accessible on an IBM compatible PC with a CD ROM drive and Windows 95 or above. The CD also includes WADE-CAD - a selection of drawings in both Autocad and DXF format, accessible on PC or Apple Mac. Our website also contains product information, price list and CAD files.



### Other Wade Literature



### Service

Product Information and technical advice are available from the Wade Technical Services Department at Halstead, Essex, from Wade Technical Consultants located throughout the U.K. and from selected distributors throughout the world. A computer-aided design service is available free of charge for layouts and assemblies of Wade products.

### Warranty

The Company warrants its products to be free from defects in material and workmanship for a period of 12 months from the date of delivery.

The Company's obligation under this warranty is limited, at its option, to the repair or replacement, free of charge, or refund of the net invoiced price of any part found to be defective, and which, in the Company's opinion, has not been subject to undue wear and tear, accident, alteration, abuse or misuse. Consequential damages are expressly disclaimed.

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In line with the Company's policy of continual research and development, product specifications and availability are subject to change or withdrawal without prior notice.

### Dimensions

In line with general practice all dimensions shown are nominal.



QUALITY BY TRADITION



PERFORMANCE BY DESIGN

Wade International Ltd • Third Avenue • Halstead • Essex • CO9 2SX • UK

Tel: +44(0)1787 475151 Fax: +44(0)1787 475579 E-mail: [tech@wadedrainage.co.uk](mailto:tech@wadedrainage.co.uk) Web: [www.wadedrainage.co.uk](http://www.wadedrainage.co.uk)

