

ACO GRATINGS & COVERS

1. Product & Company Identification

Product name (not exclusive): CivicDrain; DrainMat; Eyeleds; HexDrain; LightPoint; MultiDrain; MultiDrain PPD; Q-Cepton; Qmax; Qmax Access Chambers; Rain-Cepton; RainDrain; S Range; Sport ranges; StormBrixx; StormTank; Universal Gully

Approved Use:

ACO surface drainage systems are intended for the collection and conveyance of surface water from areas subject to pedestrian and/or vehicular traffic. Rainwater forms the main application of these systems.

Supplier:

ACO Technologies plc
ACO Business Park
Hitchin Road
Shefford
Beds
SG17 5TE

Telephone: 01462 816666
Fax: 01462 815895

2. Composition/Information on Ingredients

Technical Name: Gratings and covers for use with ACO surface water drainage systems.

Composition: ACO gratings and covers are supplied in a range of materials to suit the particular application. The main types are as follows:

CAST IRON: Manufactured from either grey or spheroidal graphite cast iron. These will generally have a surface coating to protect the iron from corrosion.

ROLLED STEEL: Manufactured from fabricated steel sections, assembled by pressing, welding, riveting etc or from solid sections produced by cutting, grinding etc. These may have a painted, galvanised, or other surface finish depending upon the requirement or in some cases may be manufactured from stainless steel.

COMPOSITE: Manufactured from polyester, vinylester, or other resin containing reinforcement materials such as glass fibre etc depending upon the requirement.

3. Hazards Identification

Hazard Category: Non-Hazardous

Means of entering the body:-

Inhalation:	Yes
Skin/Eye:	Yes
Swallowed:	No
Injected:	No

Exposure Risk:

The products are non-hazardous in normal use. Cutting or grinding operations may give rise to respirable dust which, if inhaled in excessive quantities, could become a long term health hazard. During such operations there is also the possibility of dust or fragments being ejected at high speed which could result in impact damage, particularly to the eyes. A dust mask and suitable eye protection should therefore always be worn whenever grinding or cutting takes place.

Cutting or grinding operations should not be carried out in the vicinity of flammable or explosive materials to avoid any risk of ignition by sparks.

Some of the products in the range may be comparatively heavy and good manual handling techniques should always be practised in order to prevent problems such as back strain etc. In the case of the heavier products (> 23kg) suitable mechanical lifting equipment should be employed wherever possible.

Handling products could cause abrasive damage to the hands or skin, so suitable protective gloves are recommended.

4. First Aid Measures

There is no immediate medical risk associated with the use of ACO's polymer concrete products.

INHALATION OF DUST:

Remove the person to fresh air and seek medical assistance in the case of breathing difficulties.

CUTS AND ABRASIONS DO THE SKIN:

Clean any wound thoroughly and apply a sterile dressing. Seek medical assistance if bleeding or irritation persists.

EYES:

In the event of dust or fragments entering the eye, avoid rubbing the eye. Flush out with copious quantities of clean water or saline eye-wash solution. Seek medical assistance if any irritation persists.

5. Fire Fighting Measures

Fire Risk:

Metal gratings and covers are not flammable and do not present a fire risk.

Although the material used for the manufacture of composite gratings will burn if the temperature becomes sufficiently high, the material is generally self-extinguishing and is not considered to be a particular fire risk.

Fire Fighting Procedures:

In a fire composite gratings could generate black smoke and/or toxic fumes. In such a situation the use of self-contained breathing apparatus is recommended.

Extinguishing media: Water Spray, CO₂, Dry Powder, Foam, Sand.

6. Accidental Release Measures

Not Applicable.

7. Handling & Storage

HANDLING

The use of protective gloves and safety footwear is recommended whenever the product is handled manually. Suitable lifting equipment should be used when handling heavier items.

STORAGE

The product is normally supplied on pallets.

Care should be taken to ensure that pallets are stacked on level ground and that the weight of the product is taken into account to ensure stable stacking.

Container: Pallet

Where Stored: No special requirements

8. Exposure Controls/Personal Protection

Wear protective gloves and safety footwear during manual handling.

Use lifting equipment for heavier products.

Always wear dust mask and eye protection during cutting or grinding operations.

Ensure stability of stacks during storage.

9. Physical & Chemical Properties

Appearance & Odour: Depends on type and material.

Other Physical Properties: None.

10. Stability & Reactivity

Stable under normal conditions.

11. Toxicological Information

Not toxic when used for intended purpose.

12. Ecological Information

No known effects.

13. Disposal Considerations

May be disposed of in accordance with local regulations.

14. Transport Information

Not classified.

15. Regulatory Information

Not applicable.

RISK/SAFETY CODE	DESCRIPTION
S22	Do not breathe dust.
S37	Wear suitable gloves.
S38	Wear eye/face protection.

16. Other Information

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ACO PLASTIC PRODUCTS

1. Product & Company Identification

Product name (not exclusive): BorderGuard; Doorway Drain; Eyeleds; Foul Air Traps; GroundGuard; HexDrain; HexDrain Brickslot; HexDrain Pro; MultiDrain PPD; One-Way fencing; Pipe Unions; Q-Ceptor; Qmax; Qmax access chambers; Rain-Ceptor; Stabilisation Fabric; StormBrixx; StormTank; Universal Gully

Approved Use:

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Supplier:

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2. Composition/Information on Ingredients

Composition: These products are manufactured primarily from plastic materials mainly referred to as Polypropylene (PP), Polyethylene (PE), Polyvinylchloride (PVC) or Polyvinylchloride unplasticised (PVC-u). They may be supplied complete with galvanised, mild, or stainless steel, cast grey or ductile iron, aluminium, composite, rubber, or plastic components.

3. Hazards Identification

Hazard Category:	Non-Hazardous
Means of entering the body:-	
Inhalation:	No
Skin/Eye:	No
Swallowed:	No
Injected:	No

Exposure Risk:

The products are non-hazardous in normal use.

4. First Aid Measures

There is no immediate medical risk associated with the use of ACO's plastic products.

5. Fire Fighting Measures

Fire Risk:

Although the material will burn if the temperature becomes sufficiently high, the material is generally self-extinguishing and is not considered to be a particular fire risk.

Fire Fighting Procedures:

In a fire black smoke and/or toxic fumes may be generated. In such a situation the use of self-contained breathing apparatus is recommended.

Extinguishing media: Water Spray, CO₂, Foam, Sand.

6. Accidental Release Measures

Not Applicable.

7. Handling & Storage

HANDLING

The use of protective gloves and safety footwear is recommended whenever the product is handled manually.

Suitable lifting equipment should be used when handling heavier items.

STORAGE

The product is normally supplied on pallets.

Care should be taken to ensure that pallets are stacked on level ground and that the weight of the product is taken into account to ensure stable stacking.

Care should be taken to ensure that stacked products do not become unstable when any plastic wrap packaging is removed.

When long term storage is envisaged (greater than 6 weeks), products must be protected from direct sunlight and consideration given to the effects of daily exposure to sunlight. Protect from prolonged sub-zero temperatures.

Do not allow heavy materials to be stacked on or against products.

Container: Pallet

Where Stored: No special requirements

8. Exposure Controls/Personal Protection

Wear protective gloves and safety footwear during manual handling.

Use lifting equipment for heavier products.

Ensure stability of stacks during storage.

9. Physical & Chemical Properties

Appearance & Odour: Black, Grey or White; generally odourless.

Other Physical Properties: None.

10. Stability & Reactivity

Stable under normal conditions.

11. Toxicological Information

Not toxic when used for intended purpose.

12. Ecological Information

No known effects.

13. Disposal Considerations

May be disposed of in accordance with local regulations.

14. Transport Information

Not classified.

15. Regulatory Information

Not applicable.

16. Other Information

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ACO POLYMER CONCRETE PRODUCTS

1. Product & Company Identification

Product name (not exclusive): CivicDrain; DrainMat; KerbDrain; MultiDrain; ParkDrain; RainDrain; RoadDrain; S Range; Slimline; Sport Ranges (1000; 1500; 6000; 7100; 7400; 8400); Wildlife Ranges (Bat Box; Climate Tunnel System; Guide Wall; Nest Box; Wildlife Kerb; Wildlife Refuges)

Approved Use:

ACO surface water management systems consist of channel and/or kerb sections and ancillaries e.g. end caps, sump units etc. ACO surface water management systems are intended for the collection and conveyance of surface water from areas subject to pedestrian and/or vehicular traffic. Rainwater forms the main application of these systems.

ACO Wildlife ranges are for the protection and guidance of various types of fauna.

Supplier:

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2. Composition/Information on Ingredients

Technical Name: Syntolit polymer concrete, Polyester polymer concrete or Vienite®.

Composition: ACO polymer concrete products are manufactured primarily from Syntolit polymer concrete, Polyester polymer concrete or Vienite®. They may be supplied complete with galvanised, mild, or stainless steel, cast grey or ductile iron, aluminium, composite, rubber, or plastic gratings and components.

ACO's polymer concrete consists of a mixture of various naturally occurring aggregate materials in conjunction with an unsaturated polyester or vinylester resin which when fully cured acts as a binder.

3. Hazards Identification

Hazard Category: Non-Hazardous

Means of entering the body:-

Inhalation: Yes

Skin/Eye: Yes

Swallowed: No

Injected: No

Exposure Risk:

The products are non-hazardous in normal use. Cutting or grinding operations may give rise to respirable dust which, if inhaled in excessive quantities, could become a long term health hazard. During such operations there is also the possibility of dust or fragments being ejected at high speed, which could result in impact damage particularly to the eyes. A dust mask and suitable eye protection should therefore always be worn whenever grinding or cutting is taking place

Cutting or grinding operations should not be carried out in the vicinity of flammable or explosive materials to avoid any risk of ignition by sparks.

Some of the products in the range may be comparatively heavy and good manual handling techniques should always be practised in order to prevent problems such as back strain etc.

In the case of the heavier products (> 23kg) suitable mechanical lifting equipment should be employed wherever possible.

Handling products could cause abrasive damage to the hands or skin and suitable protective gloves are recommended.

4. First Aid Measures

There is no immediate medical risk associated with the use of ACO's polymer concrete products.

INHALATION OF DUST:

Remove the person to fresh air and seek medical assistance in the case of breathing difficulties.

CUTS AND ABRASIONS DO THE SKIN:

Clean any wound thoroughly and apply a sterile dressing. Seek medical assistance if bleeding or irritation persists.

EYES:

In the event of dust or fragments entering the eye, avoid rubbing the eye. Flush out with copious quantities of clean water or saline eye-wash solution. Seek medical assistance if any irritation persists.

5. Fire Fighting Measures

Fire Risk:

Although the material will burn if the temperature becomes sufficiently high, the material is generally self-extinguishing and is not considered to be a particular fire risk.

Fire Fighting Procedures:

In a fire black smoke and/or toxic fumes may be generated. In such a situation the use of self-contained breathing apparatus is recommended.

Extinguishing media: Water Spray, CO₂, Dry Powder, Foam, Sand.

6. Accidental Release Measures

Not Applicable.

7. Handling & Storage

HANDLING

The use of protective gloves and safety footwear is recommended whenever the product is handled manually.

Suitable lifting equipment should be used when handling heavier items.

STORAGE

The product is normally supplied on pallets.

Care should be taken to ensure that pallets are stacked on level ground and that the weight of the product is taken into account to ensure stable stacking.

Container: Pallet

Where Stored: No special requirements

8. Exposure Controls/Personal Protection

Wear protective gloves and safety footwear during manual handling.

Use lifting equipment for heavier products.

Always wear dust mask and eye protection during cutting or grinding operations.

Ensure stability of stacks during storage.

9. Physical & Chemical Properties

Appearance & Odour: Beige coloured solid (some products may be pigmented); generally odourless.
 Other Physical Properties: None.

10. Stability & Reactivity

Stable under normal conditions.

11. Toxicological Information

Not toxic when used for intended purpose.

12. Ecological Information

No known effects.

13. Disposal Considerations

May be disposed of in accordance with local regulations.

14. Transport Information

Not classified.

15. Regulatory Information

Not applicable.

RISK/SAFETY CODE	DESCRIPTION
S22	Do not breathe dust
S37	Wear suitable gloves
S38	Wear eye/face protection

16. Other Information

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ACO STAINLESS STEEL PRODUCTS

1. Product & Company Identification

Product name (not exclusive): ACO Gully; AS301 Bespoke Solutions; Eurogully; Modular 125; Q-Brake; Q-Brake Vortex flow control system; Shower Channel; StepDrain.

Approved Use:

The intended use of these products is for the collection and conveyance of surface water from areas subject to pedestrian and/or vehicular traffic. Rainwater forms the main application of these systems.

Supplier:

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2. Composition/Information on Ingredients

Composition: These products are manufactured from stainless steel, referred to as Stainless Steel grade 304 or 316, which forms the bulk of the product. They may be supplied with components made of rubber or plastic material.

Stainless steels are iron based alloys containing a minimum of 10.5% Chromium. The stainless properties are due to the formation of an invisible and adherent chromium rich oxide film at the surface.

ACO Stainless fabrications are manufactured in both 304 and 316 stainless steels depending upon the application.

AISI 304 – Fe/CR18/Ni10

AISI 316 – Fe/CR18/Ni10/Mo3.

3. Hazards Identification

Hazard Category: Non-Hazardous

Means of entering the body:-

Inhalation: No

Skin/Eye: No

Swallowed: No

Injected: No

Exposure Risk:

The products are non-hazardous in normal use.

Stainless steel fabrications may present sharp edges and corners which could cause cuts to the hands during handling. Also since the surface may be smooth or polished it may not be easy to grip securely.

Cuttings, grinding, drilling or similar operations may give rise to respirable dust which, if inhaled in excessive quantities over an extended period, could present a health risk. These operations could also cause particles to be projected at speed which could cause impact damage to the eyes.

The possibility of the generation of sparks during grinding operations could be hazardous in the presence of flammable materials.

4. First Aid Measures

There is no immediate medical risk associated with the use of stainless steel products.

INHALATION OF DUST:

Remove the person to fresh air and seek medical assistance in the case of breathing difficulties.

CUTS AND ABRASIONS DO THE SKIN:

Clean any wound thoroughly and apply a sterile dressing. Seek medical assistance if bleeding or irritation persists.

EYES:

In the event of dust or fragments entering the eye, avoid rubbing the eye. Flush out with copious quantities of clean water or saline eye-wash solution. Seek medical assistance if any irritation persists.

5. Fire Fighting Measures

Fire Risk:

Stainless steel products are non-flammable.

Fire Fighting Procedures:

Any fire fighting procedures should take into account the nature of any surrounding materials.

Extinguishing media: According to surrounding material.

6. Accidental Release Measures

Not Applicable.

7. Handling & Storage

HANDLING

The use of cut-resistant gloves and safety footwear is recommended whenever the products are handled manually.

Good manual handling techniques should always be practised to avoid problems such as back and shoulder strains when lifting.

In the case of heavier products suitable mechanical lifting equipment should be employed wherever possible.

Eye protection together with suitable dust masks or other respiratory protection should be worn whenever cutting or grinding operations are necessary.

STORAGE

Care should be taken to ensure that stacks are stored on level ground and that the weight and shape of the product is taken into account to ensure stable stacking.

8. Exposure Controls/Personal Protection

Wear protective gloves and footwear during manual handling.

Wear dust mask and eye protection during cutting or grinding operations.

Use lifting equipment for heavier items.

9. Physical & Chemical Properties

Appearance & Odour: Shiny silver coloured metal; generally odourless.

Other Physical Properties: Density (kg/l): 7.95
Melting Point (°C): ~1400

10. Stability & Reactivity

Stable under normal conditions.

Articles fabricated from stainless steel may not be suitable for use in contact with some mineral acids or other chemical materials. Its chemical resistance should always be checked before specifying its use.

11. Toxicological Information

No reactions known.

12. Ecological Information

No known effects.

13. Disposal Considerations

May be disposed of in accordance with local regulations. Ideally it should be treated as scrap for reclamation.

14. Transport Information

Not classified.

15. Regulatory Information

Not classified.

16. Other Information

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