### Utility Management

System

# ACO Construction & Building Products





## ACO UTILITYDUCT

### **Ducting System for Surface Level Utilities**

Modular ducting channels with solid covers



### **The ACO Group**

Established in 1946, the ACO Group has been a major manufacturer of products for the construction and building industry for almost 70 years.

The Group operates on a global basis and has companies in more than 40 countries with manufacturing on 4 continents.

ACO employs more than 3,800 people and has sales in excess of \$850 million.

ACO has been present in the USA since 1978 and has offices and manufacturing facilities nationwide.





### **ACO UtilityDuct**

Developed from the industry leading modular surface drainage system ACO Drain, ACO Utility gives the same versatile 'plug and play' approach to surface ducting.

A surface ducting system is designed to protect cables, pipes etc. against external influences. The duct also acts as a shield to prevent its potentially hazardous contents from causing damage or injury to maintenance workers, passing pedestrians and nearby property. A duct allows continual access along a cable/pipe route via removable covers.

Polymer concrete is an ideal material for electrical ducts as it offers excellent insulation properties - electrical resistivity rating of  $1x108 \Omega/sq$ .

### ACO UTILITYDUCT

### **DK100 Ducting**

#### Features

- 4" (100mm) internal width
- Choice of 3 neutral depths
- Excellent material dielectric properties
- Resistant to chemicals and oils
- Cost effective and easy installation
- Light to medium duty system capable of withstanding up to Class E (134,800lbs/2,788psi) loading
- Choice of removable covers provide continuous duct access to lay down, or access cables, pipes etc.

Keyhole to allow removal of covers with grate removal tool



Plastic end cap - fits all channels

Galvanized steel solid cover Load Class C - up to (56,200lbs/1,162psi)

Ductile iron solid cover Load Class E - up to (134,800lbs/2,788psi)

1 meter (39.37") long polymer concrete modular ducting channel



DrainLok boltless locking holds covers in place without locking bars

Integrally cast-in galvanized steel edge rail

Interlocking male and female joints



### **DK100 Ducting Parts List**

|                                       | Part  | Invert Depth | Length       | Weight |  |  |
|---------------------------------------|-------|--------------|--------------|--------|--|--|
| Description                           | No.   | inches (mm)  | inches (mm)  | (lbs)  |  |  |
| DK010 polymer concrete duct           | 99320 | 6.96 (177)   | 39.37 (1000) | 36.8   |  |  |
| DK020 polymer concrete duct           | 99321 | 9.33 (237)   | 39.37 (1000) | 46.0   |  |  |
| DK030 polymer concrete duct           | 99322 | 11.69 (297)  | 39.37 (1000) | 55.8   |  |  |
| DK100 End cap                         | 96825 | -            | -            | 0.4    |  |  |
| Cover Options                         |       |              |              |        |  |  |
| Type 416 Galvanized steel solid cover | 98947 | -            | 39.37 (1000) | 12.1   |  |  |
| Type 456 Ductile iron solid cover     | 12672 | -            | 19.69 (500)  | 9.9    |  |  |

#### Notes:

1. Units are sold as channel and covers separately - add weights for total unit weight.





#### **DS100 Ducting**

#### Features

- 4" (100mm) internal width
- Choice of 3 neutral depths
- Excellent material dielectric properties
- Resistant to chemicals and oils
- Heavy duty system capable of withstanding up to Class F (202,320lbs/4,182psi) loading
- Continuous access when covers removed



### **DS200 Ducting**

#### Features

- 8" (200mm) internal width
- 1 neutral depth
- Excellent material dielectric properties
- Resistant to chemicals and oils
- Heavy duty system capable of withstanding up to Class E (134,800lbs/2,323psi) loading
- Continuous access when covers removed



### **DS300 Ducting**

#### Features

- 12" (300mm) internal width
- Choice of 4 neutral depths
- Excellent material dielectric properties
- Resistant to chemicals and oils
- Heavy duty system capable of withstanding
- - Continuous access when covers removed



#### **DS100 Ducting Parts List**

|                                     | Part Invert Depth Leng |             | Length       | h Weight (lbs) |                    |
|-------------------------------------|------------------------|-------------|--------------|----------------|--------------------|
| Description                         | No.                    | inches (mm) | inches (mm)  | Total          | Cover <sup>2</sup> |
| DS010 duct with ductile iron covers | 99266                  | 6.77 (172)  | 39.37 (1000) | 83.9           | 15.4               |
| DS020 duct with ductile iron covers | 99267                  | 9.13 (232)  | 39.37 (1000) | 99.9           | 15.4               |
| DS030 duct with ductile iron covers | 99268                  | 11.50 (292) | 39.37 (1000) | 110.9          | 15.4               |
| DS100 End cap                       | 95063                  |             | -            | 0.             | 4                  |

#### Notes:

1. Units are sold complete (polymer concrete channel and 2 ductile iron covers) - total weight is complete unit. 2. Cover weights are provided as lifting weight information (individual covers only).





### **DS200 Ducting Parts List**

|                                      | Part  | Invert Depth | Length       | Weight (lbs)<br>Total <sup>,</sup> Cover |      |
|--------------------------------------|-------|--------------|--------------|--|------|
| Description                          | No.   | inches (mm)  | inches (mm)  |  |      |
| DS2000 duct with ductile iron covers | 76537 | 10.24 (260)  | 39.37 (1000) | 180.0                                    | 33.0 |
| DS200 End cap                        | 99256 | -            | -            | 0.7                                      |      |

#### 1. Units are sold complete (polymer concrete channel and 2 ductile iron covers) - total weight is complete unit. 2. Cover weights are provided as lifting weight information (individual covers only).







### **DS300 Ducting Parts List**

#### Description

DS300 01 duct with ductile iron co DS300 010 duct with ductile iron co DS300 020 duct with ductile iron co DS300 030 duct with ductile iron c DS300 End cap

### Notes:

39.37" (1 meter)



Notes:



up to Class E (134,800lbs/2,323psi) loading

-Load Class E - up to (134,800lbs/2,323psi) M10 high tensile

steel bolts with

friction grip washers

Ductile iron solid cover

Plastic end cap - fits all . channels

1 meter (39.37") long polymer concrete modular ducting channel

Integrally cast-in ductile iron edge rail

Interlocking male and female joints

|        | Part  | Invert Depth | vert Depth Length |                    | Weight (lbs)       |  |  |
|--------|-------|--------------|-------------------|--------------------|--------------------|--|--|
|        | No.   | inches (mm)  | inches (mm)       | Total <sup>,</sup> | Cover <sup>2</sup> |  |  |
| overs  | 99258 | 11.89" (302) | 39.37 (1000)      | 216.6              | 48.4               |  |  |
| covers | 99260 | 14.25" (362) | 39.37 (1000)      | 229.6              | 48.4               |  |  |
| covers | 99261 | 16.61" (422) | 39.37 (1000)      | 242.6              | 48.4               |  |  |
| covers | 99262 | 18.98" (482) | 39.37 (1000)      | 254.6              | 48.4               |  |  |
|        | 99257 | -            | -                 | 3.4                |                    |  |  |
|        |       |              |                   |                    |                    |  |  |

1. Units are sold complete (polymer concrete channel and 2 ductile iron covers) - total weight is complete unit. 2. Cover weights are provided as lifting weight information (individual covers only).



13.07" (332mm), 15.43" (392mm). 17.79" (452mm), or 20.15" (512mm)



12.00" (300mm)

#### **Other ACO product lines**



#### World's leading modular trench drain system for commercial, industrial and landscape applications.

#### ACO SPORT

ACO DRAIN

A range of drainage and building accessories for track & field, used at Olympic sites since 1972.

#### ACO INFRASTRUCTURE

Surface drainage for highways, urban roads and bridges.

#### ACO STORMBRIXX

A unique, patented plastic geocellular stormwater management system.

#### ACO ENVIRONMENT

Oil water separator and spill containment systems.

#### ACO WILDLIFE

Tunnel and fence system designed to guide amphibians and other small creatures safely across roads.

#### ACO MARKANT

Simple plastic and polymer concrete trench units for use around the home, garden and office.

#### QUARTZ BY ACO

Stainless steel shower drains and accessories for tiled showers.

#### ACO Polymer Products, Inc.

#### Northeast Sales Office

P.O. Box 245 Chardon, OH 44024 Tel: (440) 285-7000 Toll free: (800) 543-4764 Fax: (440) 285-7005

#### West Sales Office

P.O. Box 12067 Casa Grande, AZ 85130 Tel: (520) 421-9988 Toll Free: (888) 490-9552 Fax: (520) 421-9899

#### **Southeast Sales Office**

4211 Pleasant Road Fort Mill, SC 29708 Toll free: (800) 543-4764 Fax: (803) 802-1063



Electronic Contact: info@acousa.com www.acousa.com

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