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A Subsidiary of the International Code Council®

CSI: DIVISION: 22 00 00—PLUMBING Section: 22 40 00—Plumbing Fixtures Section: 22 14 13—Facility Storm Drainage Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

- Product: Trench Drain Systems
- Listee: ACO Inc. 825 W. Beechcraft Street Cas Grande, AZ 85122 www.aco.com

Compliance with the following codes:

2024, 2021, 2018, 2015, and 2012 International Residential Code<sup>®</sup> (IRC) 2024, 2021, 2018, 2015, and 2012 International Plumbing Code<sup>®</sup> (IPC) 2024, 2021, 2018, 2015, and 2012 Uniform Plumbing Code<sup>®</sup> (UPC)\* 2022, 2019, 2016 and 2013 California Plumbing Code (CPC) 2023, 2020 and 2017 City of Los Angeles Plumbing Code 2020, 2015, 2010, and 2005 National Plumbing Code of Canada (NPC)\*\* \* Copyrighted publication of the International Association of Plumbing and Mechanical Officials \*\* Copyrighted publication of the National Research Council Canada

Compliance with the following standards:

ASME A112.6.3-2019, Floor and Trench Drains CSA B79-2008 (R2018), Commercial and Residential Drains and Cleanouts ASME A112.6.8/CSA B79.8-2022, Trench Drains

Identification:

The trench drains shall be marked with the manufacturer's name or trademark. Markings shall be permanent, legible, and visible after installation. The ICC-ES PMG listing mark shall be on the packaging.

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.



Installation:

The trench drains recognized in this report must be installed in accordance with the manufacturer's published instructions and the applicable codes.

These drains may be used to discharge corrosive chemicals in accordance with the manufacturer's recommendations and printed specifications. An industrial waste permit shall be obtained for systems that discharge chemical wastes.

Models:

### CONCRETE DRAINS

#### CHANNELS:

NW100 - sloping 1m channels 1 through 30, neutral 1m channels 02, 010, 020, 030, neutral half meter channels 0103, 0203, 0303

K/KS100 - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

K/KS200 - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

K/KS300 - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

S1OOK - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

S200K - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

S300K - sloping 1m channels 1 through 40, neutral 1m channels 00, 010, 020, 030, 040, neutral half meter channels 0103, 0203, 0303, 0403

K/KSSO - 1m neutral channels

SLABDRAIN - H100-8, H100-10, H100K-8, H100KS-8, H200K-13, H200KS-13, H300K-13, H300KS-13, H100SK-10, H200SK-13, H300SK-13 neutral 1m channels

### END CAPS:

NW100 - N306 polymer concrete closing end cap, N104-4, N204-4, N304-4, N204-6, N304-6 polymer concrete inlet end caps, N108-4, N208-4, N308-4, N208-6, N308-6 polymer concrete outlet end caps

K/KS100 - K1-304-6, K1-404-6 polymer concrete inlet end caps, K1-308-6, K1-408-6 polymer concrete outlet end caps, K1 Universal plastic end cap

K/KS200 - K2 Universal plastic end cap

K/KS300 - K3 Universal plastic end cap

S100K - SK1-304-6, SK1-404-6 polymer concrete inlet end caps, SK1-308-6, SK1-408-6 polymer concrete outlet end caps, SK1 Universal plastic end cap S200K - SK2 Universal plastic end cap

S300K - SK3 Universal plastic end cap

K/KS50 - K/KS50 closing end caps

SLABDRAIN - H100-8, H100-10, H100K-8, H100KS-8, H200K-13, H200KS-13, H300K-13, H300KS-13, H100SK-10, H200SK-13, H300SK-13 closing end caps

# CATCH BASINS:

<ul> <li>NW100 - N900 inline catch basin</li> <li>K/KS100 - K1-901 G/S Inline Catch Basin, K1-621 G/S Catch Basin, K1- 631 G/S Catch Basin</li> <li>K/KS 200 - K2-902 G/S In Line Catch Bsin. K2-621 G/S Catch Basin, K2-631 G/S Catch Basin</li> <li>K/KS 300 - K3-903 G/S In Line Catch Basin, K3-904 G/S In Line Catch Basin</li> <li>S100K SK1-901D In Line Catch Basin, SK1-621D Catch Basin, SK1-631D Catch Basin</li> <li>S200K SK2-902D Inline Catch Basin, SK2-621D Catch Basin SK2-631 D Catch Basin</li> <li>S300K - SK3-903D, SK3-904D inline catch basin</li> </ul>			
<u>GRATINGS:</u>			
K/KS 100 SYSTEM:	4940, 4950, 4200 , 4210 , 4500 , 4520 , 4100 , 4120 , 4510, 4530, 4470, 4480, 4920, 4250, 4260, 4550 , 4570, 4110, 4130, 4650, 4660, 4050, 4060, 4300, 4310, 4800, 4810, 4790, 4610 ,4350, 4360, 4900, 4930, 4780, BrickSlot		
K/KS 200 SYSTEM:	70, 6480, 6110, 6130, 6650, 6660, 6050, 6060, 6300, 6310, 6800, 6810, 90, 6780, 6610		
K/KS 300 SYSTEM:	8470, 8480, 8110, 8130, 8650 8660, 8050, 8300, 8800, 8810, 8790, 8780, 8610		
S100K SYSTEM: S200K System: S300K System: K/KS 50 System:	SK1- slotted grate, sk1-longitudinal SK2- slotted grate, sk2- longitudinal SK3 slotted grate, SK3 longitudinal grate galvanized steel perforated, stainless steel perforated, galvanized steel slotted, stainless steel slotted, plastic mosaic, stainless steel longitudinal, ductile iron longitudinal		
ACCESSORIES:			
K/KS 100 System:	catch basin riser, catch basin foul air trap, debris strainer, 4" to 6" oval outlet adapter, installation device, grate removal tool, quicklock locking bar		
K/KS 200 System:	catch basin riser, catch basin foul air trap, debris strainer, 4" to 6" oval outlet adapter, installation device, grate removal tool, quicklock locking bar		
K/KS 300 System:	catch basin riser, catch basin foul air trap, installation device, grate removal tool, quicklock locking bar		
S100K System:	catch basin riser, catch basin foul air trap, debris strainer, 4" to 6" oval outlet adapter, installation device, grate removal tool		
S200K System:	S200K System: catch basin riser, catch basin foul air trap, debris strainer, 4" to 6" oval ou adapter, installation device, grate removal tool		
S300K System:	catch basin riser, catch basin foul air trap, debris strainer, 4" to 6" oval outlet adapter, installation device, grate removal tool		
Universal Accessorie	es: channel hanger, shovel head, Aco seal flexible joint sealant, Aco bond polymer concrete repair kit (1&5 gallons), Aco bond vinylester polymer concrete repair kit, Aco fiberglass repair kit		

## FIRE RATING:

Polymer Concrete material have been found to have the following ratings and are certified under UL File No. R26474

Flame Spread	Smoke Developed	Test Standard	Thickness
0	20	UL 723	4 in. max.
5	150	CAN/ULC-S102.2	12.5 mm – 100 mm

# GRATES:

Type 494Q         0.5m Black plastic longitudinal grate         A15           Type 495Q         0.5m Grey plastic longitudinal grate         A15           Type 420Q         1m galvanized slotted grate         A15           Type 420Q         0.5m galvanized slotted grate         A15           Type 45QQ         0.5m galvanized slotted grate         A15           Type 45QQ         0.5m galvanized perforated grate         A15           Type 41QQ         0.5m galvanized perforated grate         A15           Type 41QQ         0.5m stainless steel perforated grate         A15           Type 44QQ         0.5m stainless steel longitudinal grate         8125           Type 44QQ         0.5m stainless steel longitudinal grate         8125           Type 44QQ         0.5m galvanized slotted grate         C250           Type 44QQ         0.5m galvanized perforated grate         C250           Type 443Q         0.5m stainless steel slotted grate         C250           Type 4410         1m galvanized perforated grate         C250           Type 4450         1m stainless steel perforated grate         C250           Type 4460         0.5m stainless steel perforated grate         C250           Type 44130         0.5m stainless steel perforated grate         C250           <	MODEL NO.	DESCRIPTION	LOAD CLASS
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	Type 878Q	0.5m ductile iron longitudinal grate	C250

Type 861Q	0.5m ductile iron slotted grate	E600
SK1 Slotted	0.5m ductile iron slotted grate	F900
SK1 Longitudinal	0.5m ductile iron longitudinal grate	F900
SK2 Slotted	0.5m ductile iron slotted grate	F900
SK2 Longitudinal	0.5m ductile iron longitudinal grate	E600
SK3 Slotted	0.5m ductile iron slotted grate	F900
SK3 Longitudinal	0.5m ductile iron longitudinal grate	E600
K50 Galv Perf.	1m galvanized perforated grate	A15
K50 S/S Perf.	1m stainless steel perforated grate	A15
K50 Galv Slotted	1m galvanized slotted grate	A1S
K50 S/S Slotted	1m stainless steel slotted grate	A1S
K50 Plastic Mosaic	0.5m plastic mosaic grate	A15
K50 S/S Long	1m stainless steel longitudinal grate	A15
K50 D.I Long	0.5m ductile iron longitudinal grate	C250

#### KEY TO LOAD RATINGS:

Class A 15: Applicable for areas which can only be used by pedestrians and cyclists.

Class 8125: Applicable for walkways, pedestrian areas and comparable areas, private car parks or parking decks.

Class C250: Applicable for curbsides and non-trafficked areas of hard shoulders or similar areas.

Class E600: Applicable for areas subjected to high wheel loads, ie ports, dock sides, etc.

Class F900: Applicable for areas subjected to especially high wheel loads, ie aircraft pavements, etc

#### POLYMER DRAINS

#### FG 100

#### COMPONENTS OF TRENCH DRAIN SYSTEM

#### CHANNELS:

#401 through #402, including neutral channels #401N, #408N, #416N and #424N

### END/OUTLET CAPS:

Closing end caps, Outlet end cap 4" PVC, Outlet adaptor

### CATCH BASIN:

#880 Catch Basin

#### GRATES:

#410, #420, #430, #440, #450, #411, #416, #425, #485, #455, #465, #460, #456C, #477C, #461, #456D, #477D

#### FG 200

### COMPONENTS OF TRENCH DRAIN SYSTEM

#### CHANNELS:

#801 through #816, including neutral channels, #801N, #806N, #811N and #815N Wall extensions #850

#### END/OUTLET CAPS:

#860 Closing end caps, #861 Outlet end cap, Flumed bottom outlet

### CATCH BASIN:

#880 Catch Basin

### **GRATES:**

Group 1 Ductile iron grate

Group 5 Fiberglass mesh grate

# DESCRIPTION AND APPLICATION OF ACO GRATES FOR FG 100

MODEL NO .	DESCRIPTION	LOAD RATINGS	APPLICATIONS
410	Perforated Galvanized Steel 1/4" holes	A	Automobile / light truck or foot traffic
420	Slotted Galvanized Steel Medium duty	В	Slow speed pneumatic tire traffic / resistant to bicycle and wheelchair tires
430	Mesh Galvanized Steel	В	High flow areas with no pedestrian traffic. Large intake cross section.
440	Vinylester Fiberglass	В	High chemical resistance or non-conductivity
450	Slotted Stainless Steel Medium Duty	В	Food and beverage processing areas. High-corrosion resistance
411	Perforated Galvanized Steel 1/4" holes Heavy duty	С	Heavy loads and frequent traffic
416	Solid Galvanized Steel Heavy duty	С	Heavy loads and frequent traffic
425	Slotted Galvanized Steel Heavy duty	С	Heavy loads and frequent traffic
455	Slotted Stainless Steel Heavy duty	С	Heavy loads and frequent traffic High corrosion resistance
456	Solid Cast Iron Heavy duty	С	Heavy loads and frequent traffic
456	Slotted Cast Iron Heavy duty	С	Heavy loads and frequent traffic
460	Perforated Stainless Steel 1/4" holes Heavy duty	С	Heavy loads and frequent traffic
477C	Longitudinal Slotted Cast Iron	С	Heavy loads and frequent traffic Horizontal slots for increased intake capacity
485	Perforated Brass 1/4" holes Heavy duty	С	Heavy loads and frequent traffic Decorative appearance
461	Slotted Ductile Iron Grate	E	Dynamic loads and hard wheel forklift traffic
477D	Longitudinal Slotted Ductile Iron Extra heavy duty	E	Dynamic loads and hard wheel forklift traffic. Horizontal slots for increased intake capacity
456D	Solid Ductile Iron Extra heavy duty	E	Dynamic loads and hard wheel forklift traffic

MODEL <u>NO</u> .	DESCRIPTION	LOAD RATINGS	APPLICATIONS
Group 1	Slotted Ductile Iron Extra heavy duty	E	Dynamic loads and hard wheel forklift traffic
Group 2	Slotted Cast Iron Heavy duty	С	Heavy loads and frequent traffic
Group 3	Mesh Galvanized Steel Heavy duty	С	Heavy loads and frequent traffic
Group 4	Mesh Stainless Steel Heavy duty	С	Heavy loads and frequent traffic High corrosion resistant
Group 5	Vinylester Fiberglass Heavy duty	С	High chemical resistance or non-conductivity

### DESCRIPTION AND APPLICATION OF ACO GRATES FOR FG 200

Key to Load Ratings:

- Class A: Light Duty Pneumatic Tires only. Light truck and auto traffic.
- Class B: Medium Duty Twenty ton gross vehicle weight, 5 ton wheel load or less.
- Class C: Heavy Duty Heavy loads to 60 ton gross vehicle weight. 10 ton wheel load at slow to moderate speed
- Class E: Extra Heavy Duty Sixty ton gross vehicle weight. 10 ton wheel load including solid tire forklift traffic.

Conditions of Listing:

- 1. The trench drains recognized in this report shall be installed in accordance with manufacturer's published installation instructions.
- 2. These drains may be used to discharge corrosive chemicals in accordance with the manufacturer's recommendations and printed specifications. An industrial waste permit shall be obtained for systems that discharge chemical wastes.
- 3. The trench drains recognized in this report are under a quality control program with annual inspection by ICC-ES.