

High-intake Slots (40% Open Area)

Abrasion-resistant Surface

Monolithic Build

Interconnecting End Profiles

Directional Arrows for Install

High Strength Polymer Concrete

Exceeds AASHTO HS-25 Requirements

Profiled Side Walls

4" Internal Width Trench

Compatible with ACO Installation Devices

Catch Basin Outlet Connections

MonoBloc HD 100

Sloped Monolithic Trench Drain
4" Internal Width

Heavy-Duty Durable Drainage

MonoBloc is designed to address the drainage demands of areas with fast, heavy traffic in urban and rural applications, including highways and interstates (DOT approved in most US states).

The monolithic construction provides many benefits over fully grated systems, especially in applications where the drainage cannot be positioned outside the flow of traffic.



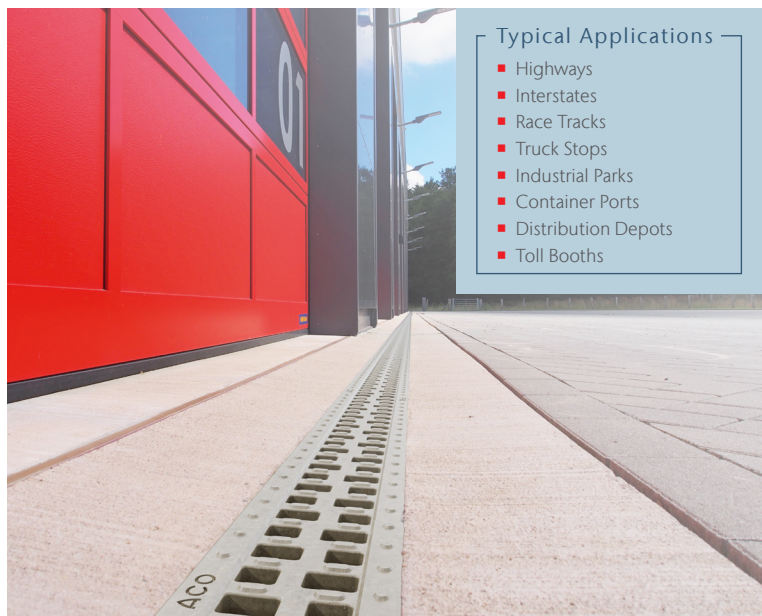
EN1433 Load Class F
202,328 lbs – 4,177 psi



FAA Airside
200K lb Proof Load

Typical Applications

- Highways
- Interstates
- Race Tracks
- Truck Stops
- Industrial Parks
- Container Ports
- Distribution Depots
- Toll Booths

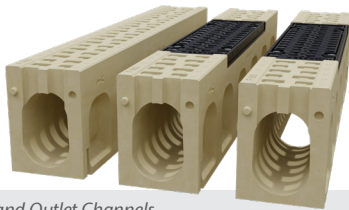


Monolithic Ingenuity

HD 100's single-piece construction provides unique benefits over removable-grate systems, especially in applications where the drainage cannot be positioned outside the flow of traffic:

- Solid build
- High structural strength
- Excellent load and hydraulic capacities
- No loosening from vibrations
- No grates outside of access/outlet channels
- Bolted grate for access channel
- Quick installation reduces road closures
- More economical than grated systems

Channel Options



Neutral, Access and Outlet Channels

NEUTRAL CHANNEL

- 1 m length
- 5 depths

SLOPED CHANNEL

- 1 m length
- 40 m system

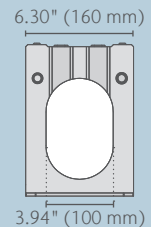
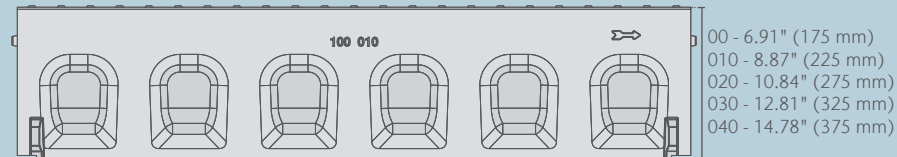
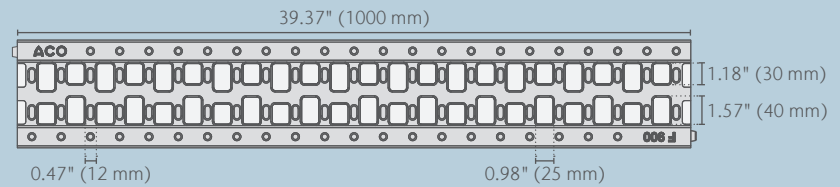
ACCESS CHANNEL

- provides access for maintenance via grated opening
- 1 m length
- 5 depths
- 19.69" (0.5 m) ductile iron, 4-bolt grate

CATCH BASIN ACCESS CHANNEL

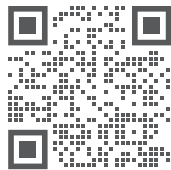
- high-capacity evacuation of system via catch basin connection
- 1 m length
- 5 depths
- 19.69" (0.5 m) ductile iron, 4-bolt grate
- 928–2,867 GPM

HD 100 Channel



HD 100 Channels	Invert Depth, in (mm)	Weight, lbs
Neutral	5.91 (150)	77.4
	7.87 (200)	86.1
	9.84 (250)	94.8
	11.81 (300)	103.4
	13.78 (350)	109.4
Sloped*	6.10 (155) – 13.94 (354)	77.7 – 112.6
Access	5.91 (150)	85.2
	7.87 (200)	93.9
	9.84 (250)	102.7
	11.81 (300)	111.2
	13.78 (350)	113.6
Catch Basin Access	5.91 (150)	76.2
	7.87 (200)	85.9
	9.84 (250)	94.6
	11.81 (300)	103.2
	13.78 (350)	111.5

*Sloped channels fit between neutral channels to give continuous 0.5% slope across 125' (40 m).



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ACO. we care for water

