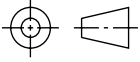
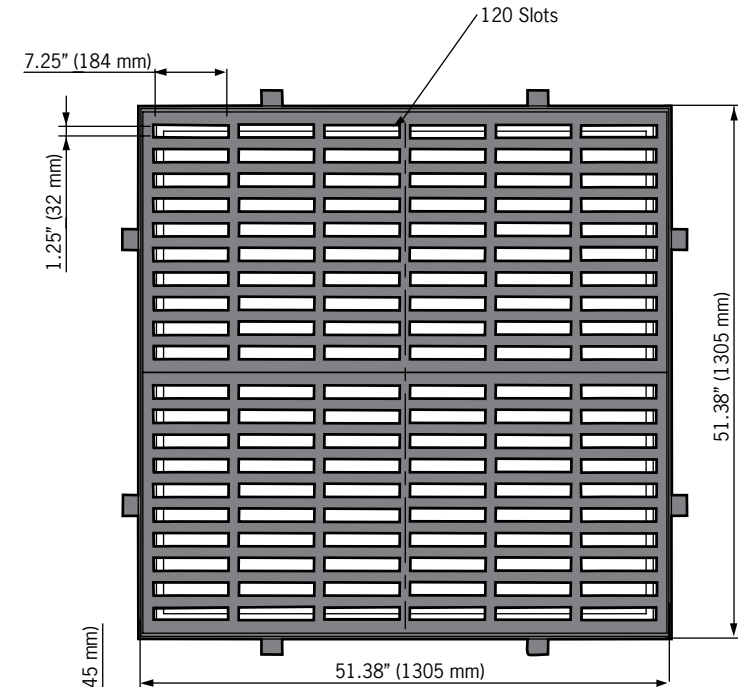


4x4 Catch Basin



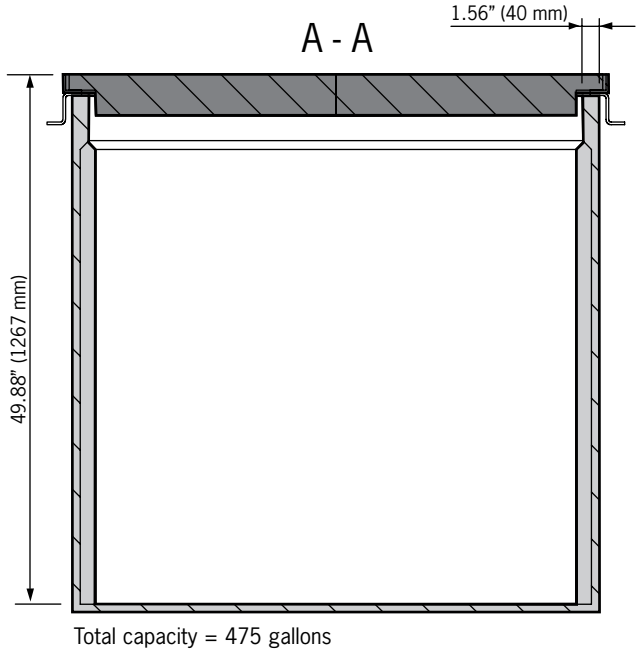
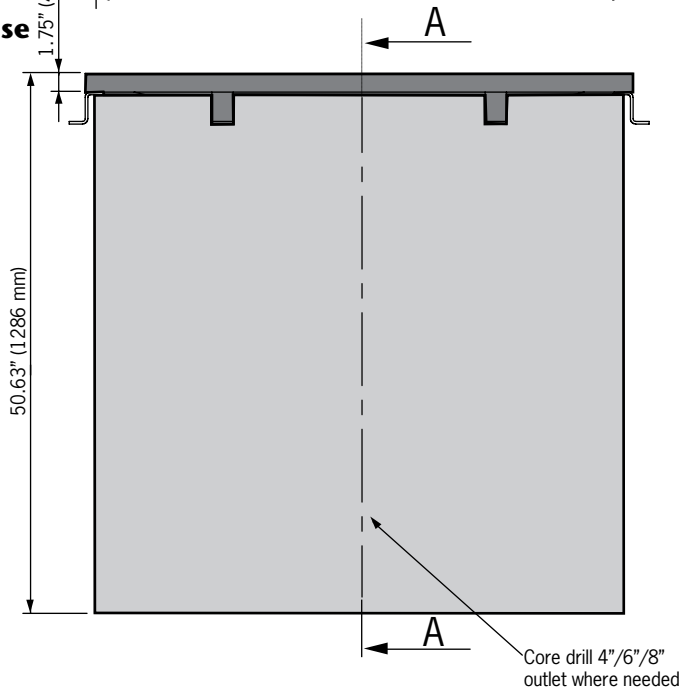
Grate



- Grate is classified as 'Heavy Duty' and meets the requirements of AASHTO M306*.
- Grate provides 41% open area - 1,087 sq. in.

*AASHTO M306 requires that castings bear a minimum of 40,000 pounds on a 9" x 9" area. This represents a 2.5 safety factor over the 16,000 pound requirement of H20 and HS20. This load designation is appropriate for general traffic applications. Loading criteria is 40,000 — 100,000 pounds.

Base



ACO Specification Information



4x4 Catch Basin

Part Table

Description	Part No.	Invert Depth		Weight lbs.
		inches	mm	
4x4 Catch Basin - Polyester polymer concrete	05714	49.88	1267	808.0
Grey iron frame & 2-part slot grate	05978	-	-	1220.0

Part I - General	Part II - Product	Part III - Installation
<p>1.1 Related Work - Work specified in other sections includes but is not limited to: Excavation and backfill, cast-in-place concrete, and mechanical equipment.</p> <p>1.2 System Description - 4 x 4 Catch basin manufactured from polymer concrete, complete with gray iron slotted grate.</p> <p>1.3 Submittals - Manufacturer will submit, when required, shop drawings showing schematic plan of total drainage system listing all parts being provided with exact center-line dimensions suitable for installation. Copies of the manufacturer's recommended method of installation shall be submitted for review.</p> <p>1.4 Project History - Manufacturer shall submit a list of installed projects, if required.</p> <p>1.5 Warranty - ACO provides a limited product warranty of one year based on installation according to manufacturer's installation instruction data.</p>	<p>2.1 Products - Manufacturer shall be ACO Polymer Products, Inc.</p> <p>2.2 Physical & Mechanical Characteristics</p> <ul style="list-style-type: none"> • Overall width - 51.38 inches (1305mm) • Overall length - 51.38 inches (1305mm) • Overall depth - 50.63 inches (1286mm) • Invert depth - 49.88 inches (1267mm) • Compressive strength - 14,000 psi • Flexural strength - 4,000 psi • Water absorption rate - <0.1% by weight <p>2.3 Box Profile - Pre-cast units with minimum wall thickness of 0.75" (19mm).</p> <p>2.4 Grates - Grates are slotted gray iron and are supplied as 2-part units. After removal of grates there shall be uninterrupted access to the catch basin to aid maintenance.</p>	<p>3.1 Excavation - Identify area for install. If trafficked by vehicles, a full concrete encasement is required. Excavate area large enough to fit catch basin plus a minimum of 10" of concrete on all four sides and base. Engineering advice should be sought as ground conditions may require additional concrete support.</p> <p>3.2 Outlet Connections - Openings for pipe connection can be positioned where required</p> <p>3.3 Connection of channels: Catch basin can be used within a channel run. Remove sidewall to suit channel profile.</p> <p>3.4 Back Fill - Haunch around catch basin & backfill with concrete of 4,000 psi minimum strength. Finish concrete to 1/8" above required grate height.</p> <p>3.5 Install in strict accordance with manufacturer's recommendations & drawings. Details available at www.acousa.com/install_drawings_drain.htm</p>

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