



Aussieblock

Retaining Wall Systems Hollow Core Block

Gravity & Engineered Retaining Walls for Commercial,
Municipal & DOT Applications



Hollow Core Retaining Walls

Mass Where You Need It. Lighter Where You Don't.

AussieBlock hollow core units deliver large-format gravity wall construction with a lighter ship and set weight than solid block. The open cores can be left dry for free drainage, filled with clean aggregate for added mass, or grouted with vertical rebar to tie courses together for engineered (reinforced) walls.

Why hollow core for retaining work

- **Reduced handling weight**
350–750 lb units place faster and need lighter equipment than solid block of the same footprint.
- **Core fill flexibility**
Leave cores open for drainage, fill with aggregate for gravity mass, or grout + rebar for reinforced walls.
- **Built-in MEP / drainage chase**
Aligned cores form a continuous vertical channel for conduit, weep paths, or perforated drain pipe.
- **Non-combustible, earth-tone finish**
Earth-tone limestone aggregate with a non-combustible A1 fire class and 42 dBA sound reduction.
- **Full-pallet, spec-ready supply**
Indivisible pallets, consistent 1200 psi units, produced in San Angelo with short lead times.

ENGINEERING NOTE

Wall height, embedment, rebar size & spacing, grout, footing or leveling-pad base, drainage and surcharge capacity are project-specific and must be designed and sealed by a licensed engineer. Data herein is product information, not a substitute for geotechnical design.



Butterstick Hollow Core

Use Case: Heavy-duty hollow core gravity wall — high mass, MEP / drainage chase

- **Dimensions (L × W × H):** 48" × 18" × 18" (1220 × 460 × 460 mm)
- **Approximate Weight:** 750 lbs (340 kg)
- **Compressive Strength:** 1200 psi

*Largest hollow core unit — maximum gravity mass per course with reduced handling weight.
Cores accept aggregate fill or grout + vertical rebar for engineered walls.*





Butterstick Hollow Core

Data Sheet

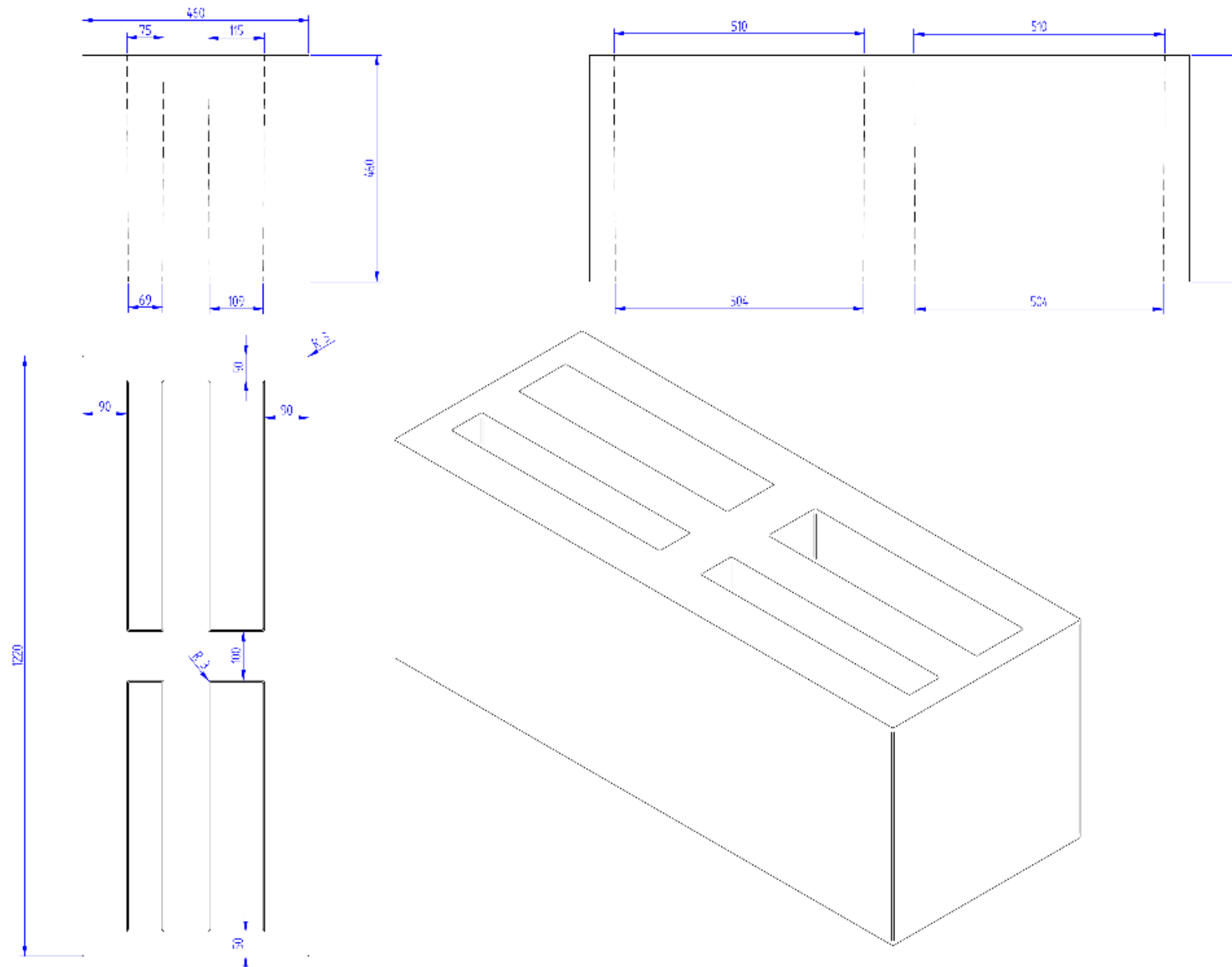
Product Name: Butterstick Hollow Core

Product Specifications	Imperial	Metric
Dimensions (L x W x H)	48 x 18 x 18 in	1220 x 460 x 460 mm
Weight	750 lbs	340 kg
Wall Thickness	18 in	460 mm
Cores	4 (4-channel)	4 (4-channel)
Corner Detail	Round arris, 3 mm radius	Round arris, 3 mm radius
Appearance	Rugged surface texture, coarse finish	Rugged texture, coarse finish
Finish	Slight surface	Slight surface
Placement	Exterior or Interior	Exterior or Interior
Color	Earth tones	Earth tones

Properties	Imperial	Metric
Density	120 lb/ft ³	1922 kg/m ³
Compression Resistance	1200 psi	8.27 N/mm ²
Moistening/Drying Cycle Resistance	Suitable	Suitable
Erosion Resistance	Suitable	Suitable
Water Absorption (Capillarity)	4.50%	4.50%
Oxidable Organic Material Content	0.06%	0.06%
Impact Resistance	> 24.6 Joules	> 24.6 Joules
Fire Resistance Class	A1 (non-combustible)	A1 (non-combustible)
Sound Reduction Index (Ra)	42 dBA	42 dBA

Packaging	Imperial	Metric
Pcs / Pallet	4 blocks/pallet	4 blocks/pallet
Pallet Dimensions	47.24 in x 47.24 in	120 x 120 cm
Weight / Pallet	3000 lbs/pallet	1361 kg
Single Block Face Area	6.04 ft ² (48 in x 18 in)	0.561 m ²
Face Coverage / Pallet	24.2 ft ²	2.25 m ²

Blocks are sold in full (indivisible) pallets only. Store in a protected area.





Regular Meter Hollow Core

Use Case: **Lighter commercial / municipal retaining** — ideal for site handling, MEP chase

- **Dimensions (L × W × H):** 40" × 14" × 14" (1000 × 350 × 350 mm)
- **Approximate Weight:** 350 lbs (159 kg)
- **Compressive Strength:** 1200 psi

*Mid-weight hollow core for faster placement and easier site handling.
Aligned cores form a continuous MEP / drainage chase up the wall.*





Regular Meter Hollow Core

Data Sheet

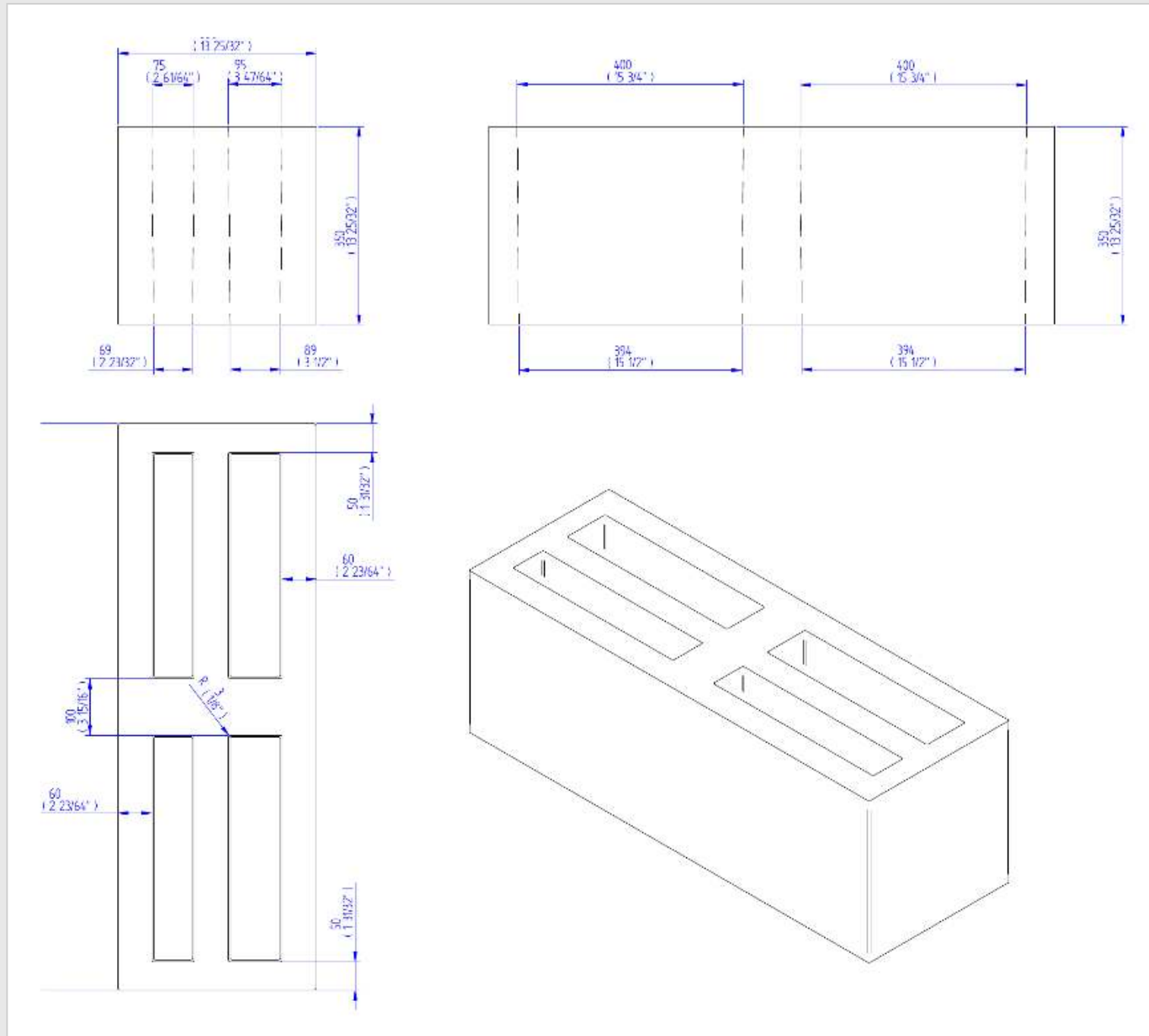
Product Name: Regular Meter Hollow Core

Product Specifications	Imperial	Metric
Dimensions (L × W × H)	40 × 14 × 14 in	1000 × 350 × 350 mm
Weight	350 lbs	159 kg
Wall Thickness	14 in	350 mm
Cores	4 (4-channel)	4 (4-channel)
Corner Detail	Round arris, 3 mm radius	Round arris, 3 mm radius
Appearance	Rugged surface texture, coarse finish	Rugged texture, coarse finish
Finish	Slight surface	Slight surface
Placement	Exterior or Interior	Exterior or Interior
Color	Earth tones	Earth tones

Properties	Imperial	Metric
Density	120 lb/ft ³	1922 kg/m ³
Compression Resistance	1200 psi	8.27 N/mm ²
Moistening/Drying Cycle Resistance	Suitable	Suitable
Erosion Resistance	Suitable	Suitable
Water Absorption (Capillarity)	4.50%	4.50%
Oxidable Organic Material Content	0.06%	0.06%
Impact Resistance	> 24.6 Joules	> 24.6 Joules
Fire Resistance Class	A1 (non-combustible)	A1 (non-combustible)
Sound Reduction Index (Ra)	42 dBA	42 dBA

Packaging	Imperial	Metric
Pcs / Pallet	9 blocks/pallet	9 blocks/pallet
Pallet Dimensions	47.24 in × 47.24 in	120 × 120 cm
Weight / Pallet	3150 lbs/pallet	1429 kg
Single Block Face Area	3.77 ft ² (40 in × 14 in)	0.35 m ²
Face Coverage / Pallet	33.9 ft ²	3.15 m ²

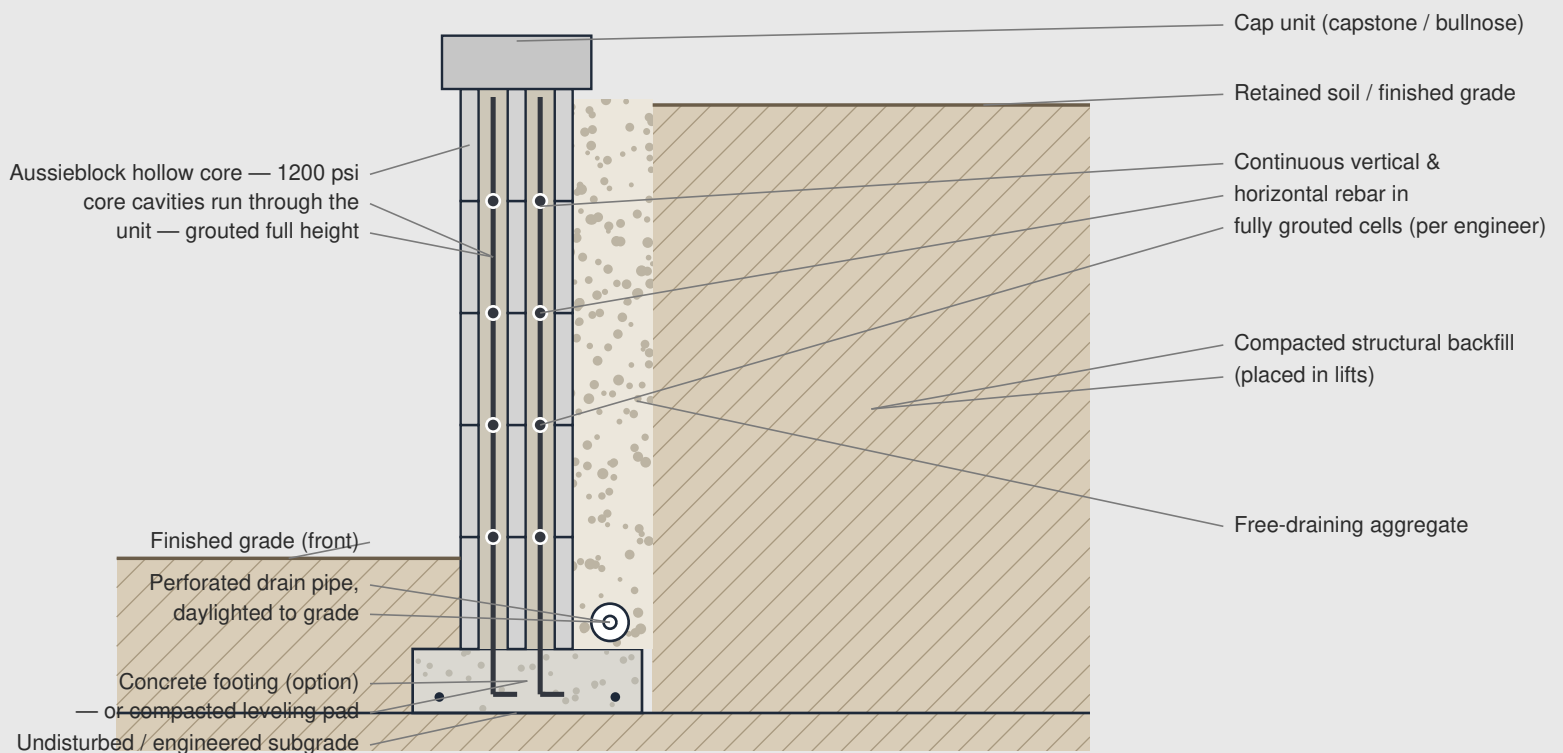
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Typical Retaining Wall Section

Reinforced (grouted) hollow core wall — illustrative



ILLUSTRATIVE — NOT FOR CONSTRUCTION

Typical arrangement only. Wall height, embedment, rebar size & spacing, grout, footing or leveling-pad base, drainage and surcharge capacity are project-specific and must be designed and sealed by a licensed engineer. Component sizes and proportions shown are not to scale.



Construction Best Practice

General guidance — final design by licensed engineer

1. Base & foundation

Excavate to undisturbed soil or engineered subgrade. Gravity walls: place and compact an open-graded crushed-stone leveling pad, screeded dead-level. Reinforced walls: set the units on a cast-in-place concrete footing with rebar dowels. A level base is the biggest driver of finished wall quality.

2. Drainage

Retaining walls fail from water, not weight. Provide a perforated drain pipe at the heel daylighted to grade, a free-draining aggregate zone behind the wall, and clear weep paths. Open or aggregate-filled cores can carry vertical drainage when aligned course to course.

3. Core fill & reinforcement

Gravity walls: leave cores open or fill with clean aggregate for added mass. Reinforced walls: set vertical rebar through aligned cores and grout solid per the engineer's schedule to tie courses into a monolithic section.

4. Batter & setback

Build with the specified batter (lean back into the retained soil). Taller or surcharged walls typically require geogrid soil reinforcement at the engineer-specified vertical spacing and embedment length.

5. Backfill & compaction

Backfill and compact in lifts as the wall rises, keeping heavy compaction equipment back from the wall face to avoid overstressing the units. Cap with the appropriate capstone or slab unit.

PAIRS WITH

Solid Butterstick (maximum gravity mass / heavy retaining), Square Edge Capstone Slab and Bullnose for wall caps and edge transitions. See the full Aussieblock product catalog for companion units.