

TECHO—BLOC

SYSTEMA COLLECTION

& CUSTOM FEATURES



CONTENTS

01. PRODUCTS	STEP	4
	WALL	6
02. CUSTOM FEATURES	FIRE PIT	8
	PLANTER	12
	BENCH	16
	GRILL ISLAND	20

SYSTEMA COLLECTION

VERSATILITY. PRECISION. PERFORMANCE.

The Systema Collection combines Systema Wall and Systema Step to deliver a clean, modern system for walls, steps, entrances, raised patios, and outdoor living spaces. Designed with smart details and coordinated finishes, it helps contractors build faster while giving designers a polished architectural look.

SYSTEMA WALL

A versatile wall system built for clean design and easier installation.

- Freestanding, double-sided, seating, privacy, and SRW applications.
- Integrated corner units on every pallet.
- Cored lightweight blocks make for easy installation.
- Patent-pending manufacturing process resulting in no height issues.
- Pairs with Systema Step and Industria Slab.

SYSTEMA STEP

A premium floating-step look with built-in lighting potential.

- Recessed undercut creates a true floating-step appearance.
- Built-in $\frac{3}{4}$ " (19 mm) light-ready channel allows for easy LED integration.
- Large-format single unit: $42 \times 16 \frac{3}{4} \times 7 \frac{1}{16}$ in.
- De-icing salt resistant for harsh winter climates.
- Pairs seamlessly with Systema Wall for cohesive modern projects.

Together, Systema Wall and Systema Step create a complete landscape system that is **smart to stock, simple to install, and built to perform.**



Discover the New
Systema Collection

STEP

SYSTEMA Lighting Ready Step* (Lights not included.)

D



DRY CAST
COLLECTION

DE-ICING SALT
RESISTANT

DIMENSIONS (L × D × H)

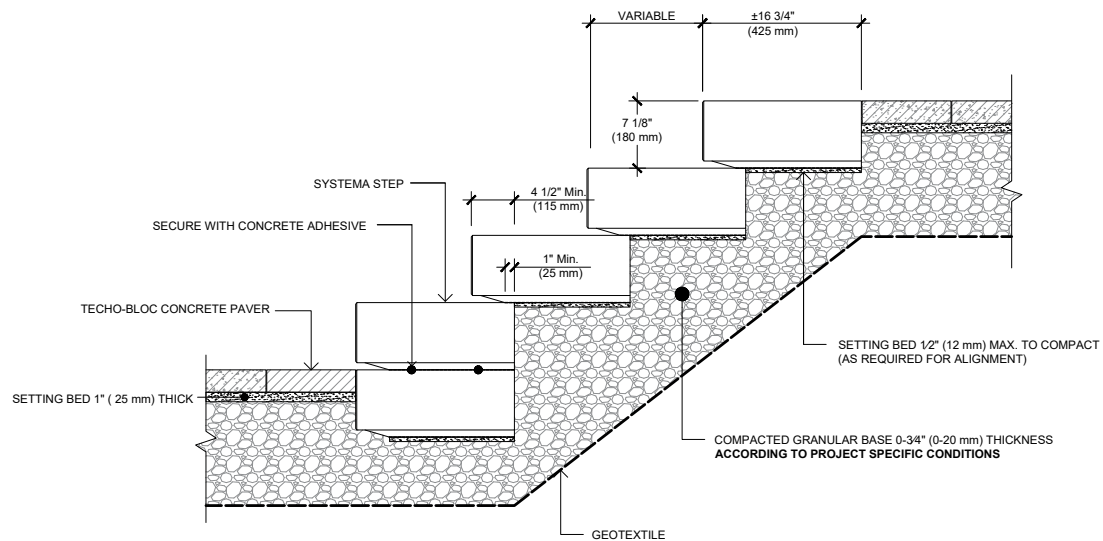


42 × 16 3/4 × 7 1/16 in
1067 × 425 × 180 mm

APPLICATIONS

Patio & Terrace
Entrance
Garden

INSTALLATION GUIDE



*Designed for easy integration of lighting with a 19 mm height recessed channel under the step.

COLORS Texture: Smooth

Chestnut Brown

Caffè Crema

Beige Cream

Greyed Nickel

Shale Grey

Onyx Black



See p. 256 of the Techo-Spec for more information on the Systema Step.



Greyed Nickel - without lights



Greyed Nickel - with lights



Beige Cream

WALL SYSTEMA

D

DRY CAST
COLLECTION



DE-ICING SALT
RESISTANT

P

PATENT
PENDING

DIMENSIONS (L × D × H)



180 mm

14 × 10 × 7 1/16 in
356 × 254 × 180 mm

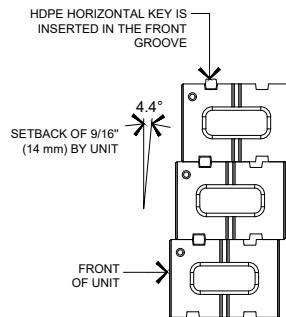
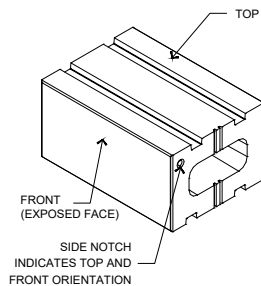
Corner

14 × 10 × 7 1/16 in
356 × 254 × 180 mm

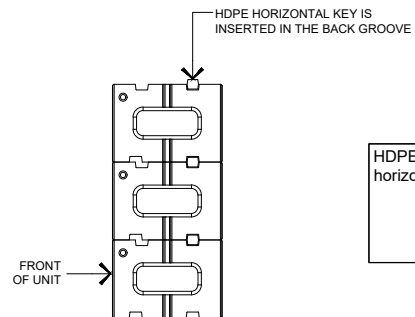
APPLICATIONS

Double-Sided Wall
Patio & Terrace
Decorative Wall
Garden

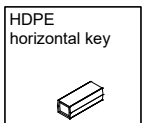
ANCHORING SYSTEMS



INCLINED WALL



VERTICAL WALL



Corner units can also be used as coping, creating a clean, finished top without the need for a separate cap product.

However, those same corner units are also used to build **wall ends and 90° corners**, so the number available for coping depends on your wall layout.

Planning tip:

Each pallet includes **8 corner units**. First, calculate how many are needed for the structure of the wall:

- **Number of ends and 90° corners × number of courses = corner units needed**
- Any corner units left over from the 8 included in the pallet can be used as coping.

To confirm if you have enough, divide your wall length by the corner unit length:

- **Wall length ÷ 14 in = number of coping units needed**

COLORS Texture: Smooth

Chestnut Brown



Caffè Crema



Beige Cream



Greyed Nickel



Shale Grey



Onyx Black



Systema walls are recommended for geogrid-reinforced applications up to 6 ft (1.8 m); taller reinforced walls (up to 10 ft [3.0 m]) may be feasible when designed by a qualified engineer based on site-specific conditions and project requirements.

See p. 239 of the Techo-Spec for more information on the Systema Wall.



SYSTEMA FIRE PIT

The Systema fire pit is a refined outdoor feature showcasing a clean, double-sided finish, designed to deliver a striking focal point from every angle while combining contemporary style with durable, easy-to-install construction.



BUILD TIME	1-1.5 HRS
STAFF	2
TOTAL LABOR HOURS	2-3 HRS

**Excludes base construction*

	MATERIAL CHECKLIST	UNIT COST	QUANTITY	TOTAL COST
☐	ASTM #57			
☐	ASTM #8			
☐	Geotextile			
☐	1 Pallet of Systema Wall			
☐	6 PCS of Raffinato Caps			
☐	Heat-resistant construction adhesive (Gator Block Bond XP)			
☐	If wood burning: fire brick or heat-resistant steel sleeve/insert (to line interior walls)*			
☐	1 Burner and supporting pan (omit if wood-burning)			
☐	2 vents (omit if wood-burning)			
☐	1 windscreen (optional)			
☐	Decorative media (omit if wood-burning)			

* If natural gas or liquid propane: ventilation grills as specified by burner supplier

Total Materials Cost: _____

	STAFF TYPE	LABOR COST	LABOR HOURS	TOTAL COST
☐	Hardscaper 1			
☐	Hardscaper 2			

Total Labor Cost: _____

Grand Total Cost: _____



SYSTEMA FIRE PIT

STEP-BY-STEP

	STEP-BY-STEP CHECKLIST	
1	Run conduits for gas and electrical.	☐
2	With a certified, bonded gas technician, run a propane or natural gas line *omit if wood-burning.	☐
3	Install heat-resistant drain *if required.	☐
4	Appropriate inspector must approve installation prior to backfilling trench *omit if wood-burning.	☐
5	Classify, Amend & Compact soil subgrade. Final surface should not have greater variation than +/- 3/8" over 10'.	☐
6	Install appropriate geotextile (extended up sides of excavation and shingled with flow of water).	☐
7	Install base (open-graded base: ASTM #57 or dense-graded base: ASTM C-2940) minimum 4"-6" thickness.	☐
8	Install 1" leveling bed (open-graded: ASTM #8 or dense-graded: ASTM C-33) *optional.	☐
9	Install Concrete Paving Slabs for embedment *best practice.	☐
10	Assemble fire feature using Systema Wall block, mark and cut blocks to accommodate manufacturer-recommended cross-ventilation *omit if wood-burning.	☐
11	Apply high-temperature-resistant construction adhesive (Gator Block Bond XP) between units (apply perpendicular to the wall face).	☐
12	Trial fit of burner in fire feature opening, evaluate need for internal burner supports (block supports or metal brackets) *omit if wood-burning.	☐
13	Insert a Techo-Bloc heat-resistant steel liner or fire brick if wood-burning.	☐
14	With a certified, bonded gas technician, connect the burner to the gas line *omit if wood-burning.	☐
15	Install Techo-Bloc windscreen (optional) and decorative media (lava rock, glass, etc.) *omit if wood-burning.	☐

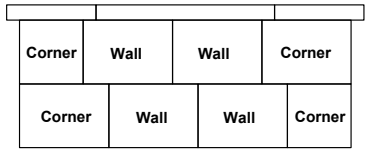
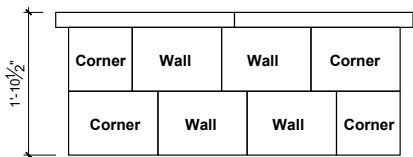
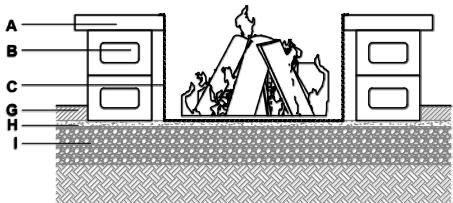
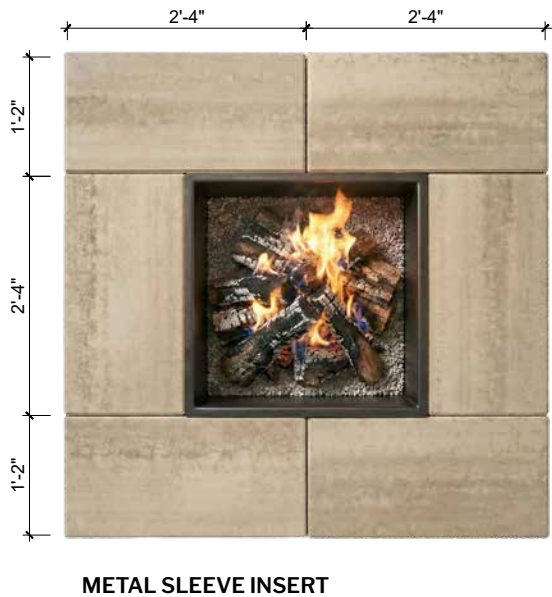
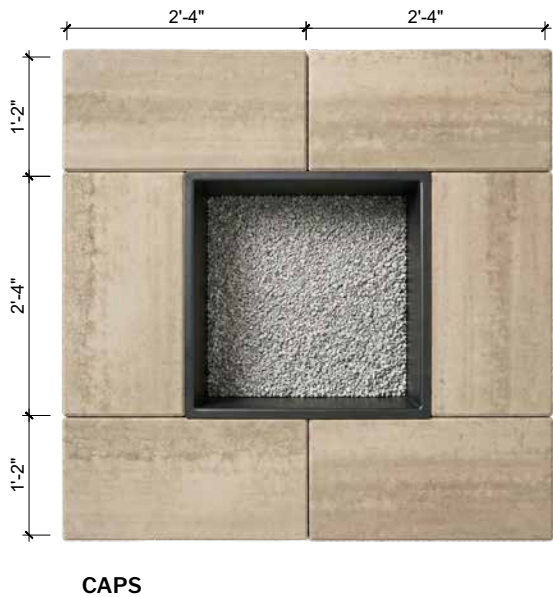
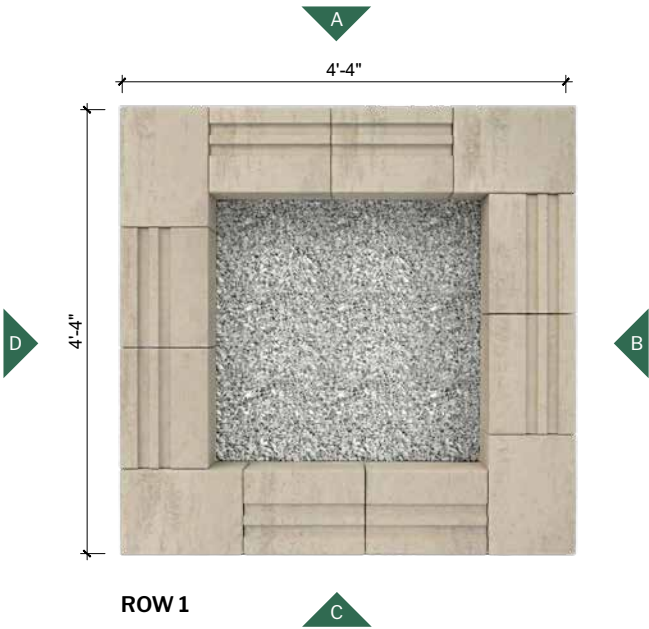
- A. RAFFINATO CAP 60 mm
 B. SYSTEMA WALL UNIT
 C. STEEL BOX INSERT FOR WOOD BURNING APPLICATION
 D. TECO-BLOC PAVERS OR SLABS
 E. SETTING BED 1" (25 mm)
 F. COMPACTED GRANULAR 3/4" (0-20 mm)

NOTE: Secure the blocks using a heat resistant concrete adhesive.

The installer must ensure that the installation and use of the fire pit comply with local regulations and code requirements.

QUANTITY OF MATERIALS REQUIRED

SYSTEMA WALL: 1 PALLET
RAFFINATO CAPS: 6 PIECES



SYSTEMA PLANTER

A planter built with the Systema Wall is a sleek, architectural garden feature showcasing smooth, double-sided surfaces, designed to frame greenery with clean lines while combining modern elegance with durable concrete construction for a cohesive and long-lasting landscape element.

BUILD TIME	1-1.5 HRS
STAFF	2
TOTAL LABOR HOURS	2-3 HRS

**Excludes base construction*

	MATERIAL CHECKLIST	UNIT COST	QUANTITY	TOTAL COST
☐	ASTM #57			
☐	ASTM #8			
☐	4" Outside diameter perforated pipe			
☐	1 Pallet of Systema Wall			
☐	6 PCS of Raffinato Caps			
☐	Gator Block Bond XP adhesive			
☐	Non-Woven geotextile			
☐	Garden soil			

Total Materials Cost: _____

	STAFF TYPE	LABOR COST	LABOR HOURS	TOTAL COST
☐	Hardscaper 1			
☐	Hardscaper 2			

Total Labor Cost: _____

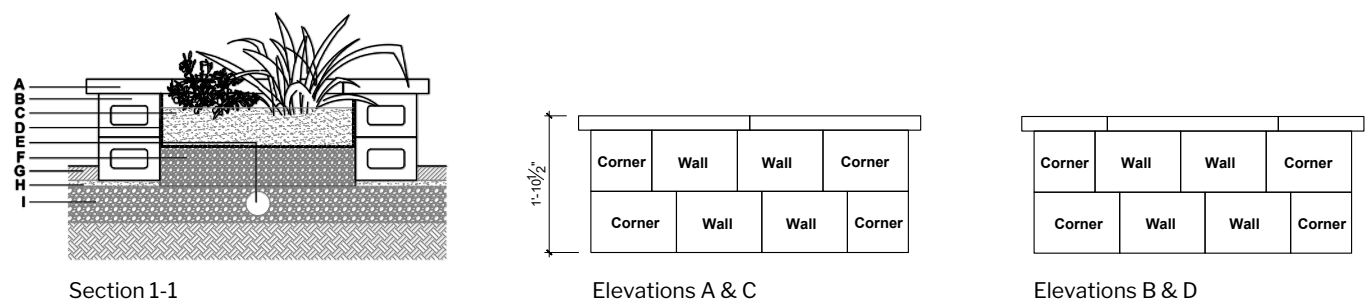
Grand Total Cost: _____



SYSTEMA PLANTER

STEP-BY-STEP

	STEP-BY-STEP CHECKLIST	
1	Run conduits for low-voltage cable for lighting and irrigation system (optional).	☐
2	Install appropriate geotextile (extended up sides of excavation and shingled with the flow of water).	☐
3	Install base (open-graded: ASTM #57) 6" thickness, include 4" outside diameter perforated pipe for drainage.	☐
4	Screed optional 1" bedding layer (open-graded: ASTM #8 or dense-graded: ASTM C-33).	☐
5	Install Systema wall units as per the plan.	☐
6	Use Gator Block Bond XP adhesive (apply perpendicular to the wall face).	☐
7	Backfill with ASTM 57 (minimum 6").	☐
8	Install a layer of non-woven geotextile as a separation fabric.	☐
9	Backfill with garden soil.	☐
10	Install light fixtures (optional).	☐



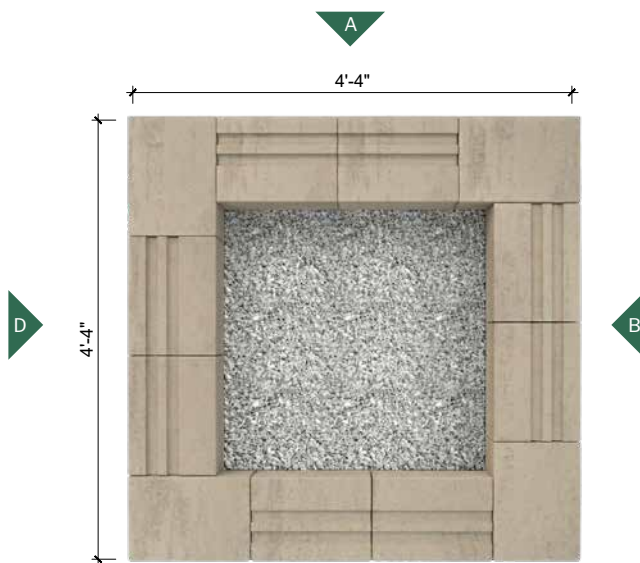
- A. RAFFINATO CAP 60 mm
 - B. SYSTEMA WALL UNIT
 - C. GARDEN SOIL
 - D. NON WOVEN GEOTEXTILE FABRIC
 - E. 4" PERFORATED DRAINAGE PIPE (HOLES DOWN)
 - F. FREE DRAINING FILL No. 57 STONE (3/4" CLEAR CRUSHED STONE)
 - G. TECHO-BLOC PAVERS OR SLABS
 - H. SETTING BED 1" (25 mm)
 - I. COMPACTED GRANULAR 3/4" (0-20 mm)
- NOTE:** Secure the blocks using a concrete adhesive.



FOUNDATION & DRAINAGE

QUANTITY OF MATERIALS REQUIRED

SYSTEMA WALL: 1 PALLET
RAFFINATO CAPS: 6 PIECES



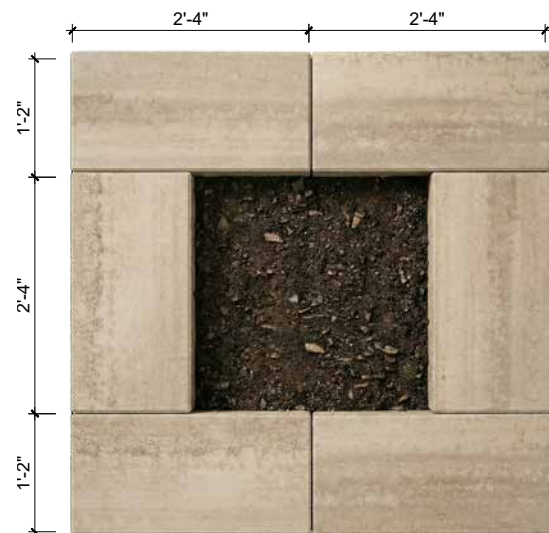
ROW 1



ROW 2



SEPARATION FABRIC & GARDEN SOIL



CAPS

SYSTEMA BENCH

A bench built with the Systema Wall is a contemporary outdoor seating feature designed to create a welcoming gathering space while combining clean architectural lines with durable, easy-to-install construction for lasting comfort and style.

BUILD TIME	1-1.5 HRS
STAFF	2
TOTAL LABOR HOURS	3-4 HRS

**Excludes base construction*

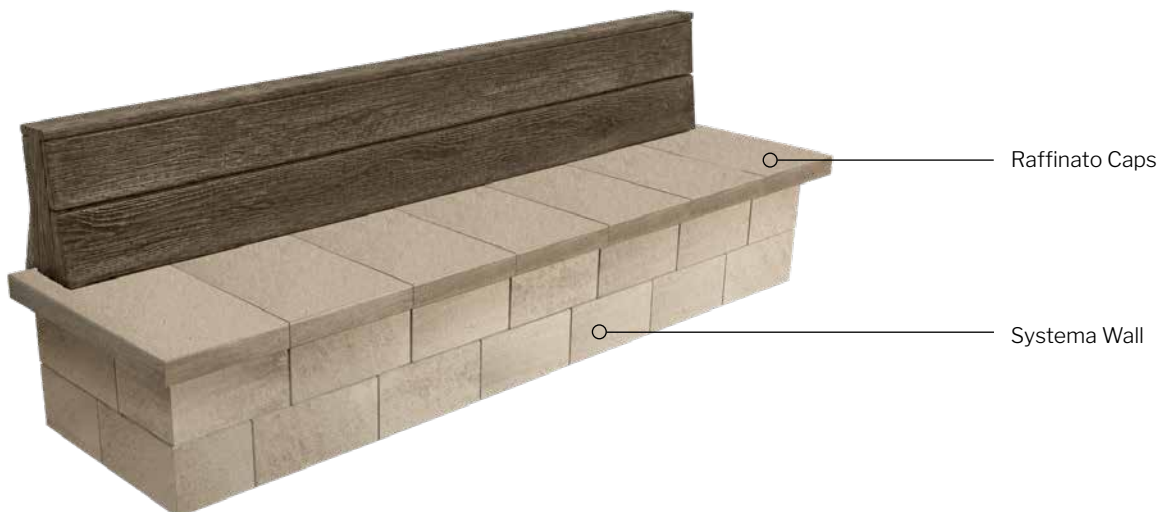
	MATERIAL CHECKLIST	UNIT COST	QUANTITY	TOTAL COST
☐	ASTM #57 or ASTM C-2940			
☐	ASTM #8 or ASTM C-33			
☐	1 Pallet - Systema Wall			
☐	7 Pieces - Raffinato Cap			
☐	Gator Block Bond XP adhesive			
☐	Backrest (optional)			

Total Materials Cost: _____

	STAFF TYPE	LABOR COST	LABOR HOURS	TOTAL COST
☐	Hardscaper 1			
☐	Hardscaper 2			

Total Labor Cost: _____

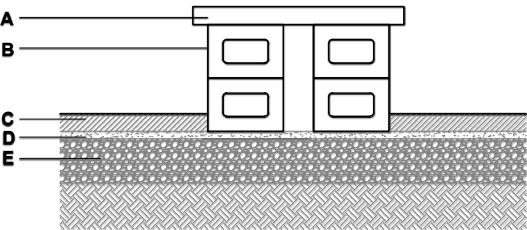
Grand Total Cost: _____



SYSTEMA BENCH

STEP-BY-STEP

	STEP-BY-STEP CHECKLIST	
1	Run conduits for low-voltage cable for lighting (optional).	☐
2	Install appropriate geotextile (extended up sides of excavation and shingled with flow of water).	☐
3	Install base (open-graded base: ASTM #57 or dense-graded base: ASTM C-2940) minimum 4"-6" thickness.	☐
4	Screed optional 1" bedding layer (open-graded: ASTM #8 or dense-graded: ASTM C-33).	☐
5	Install Systema Wall units as per the plan.	☐
6	Use Gator Block Bond XP adhesive (apply perpendicular to the wall face).	☐
7	Install light fixtures (optional).	☐
8	Install Raffinato caps.	☐
9	Install backrest (optional).	☐



Section 1-1

- A. RAFFINATO CAP 60 mm
- B. SYSTEMA WALL UNIT
- C. TECHO-BLOC PAVERS OR SLABS
- D. SETTING BED 1" (25 mm)
- E. COMPACTED GRANULAR ¾" (0-20 mm)
- F. BACKREST (Optional)

NOTE: Secure the blocks using a concrete adhesive.

QUANTITY OF MATERIALS REQUIRED

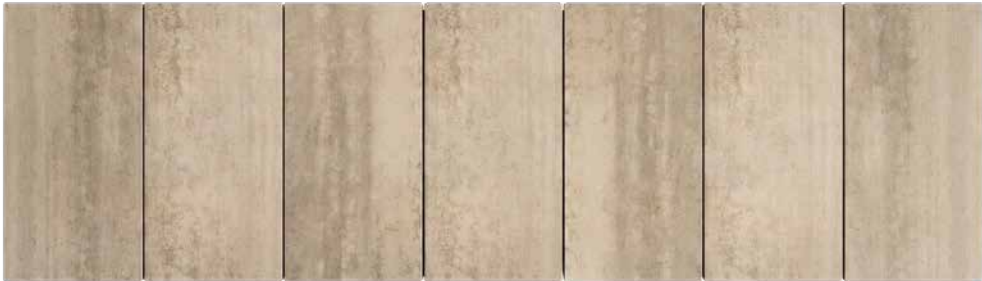
SYSTEMA WALL: 1 PALLET
RAFFINATO CAPS: 7 PIECES



ROW 1



ROW 2



CAPS

1'-10 1/2"	Corner	Wall	Wall	Wall	Wall	Wall	Corner
	Corner	Wall	Wall	Wall	Wall	Wall	Corner

Elevation A

Corner	Wall	Wall	Wall	Wall	Wall	Corner
Corner	Wall	Wall	Wall	Wall	Wall	Corner

Elevation C

Corner	Corner
Corner	Corner

Elevations B & D

SYSTEMA GRILL ISLAND

A grill island built with Systema Wall makes it easy for you to deliver an outdoor space homeowners actually live in. Its clean finish creates a polished centerpiece that flows naturally into dining areas, turning any patio into a place where people gather and sit down together.

BUILD TIME	3-4 HRS
STAFF	2
TOTAL LABOR HOURS	6-8 HRS

**Excludes base construction*

	MATERIAL CHECKLIST	UNIT COST	QUANTITY	TOTAL COST
☐	ASTM #57 or ASTM C-2940			
☐	ASTM #8 or ASTM C-33			
☐	Geotextile			
☐	Concrete Forms			
☐	Ready-mix or Porous Concrete			
☐	3 pallets of Systema Wall			
☐	Countertop			
☐	Gator Block Bond XP adhesive			
☐	2 Cross-vent grates			
☐	Grill, access panels, or drawers			
☐	Lighting (optional)			

Total Materials Cost: _____

	STAFF TYPE	LABOR COST	LABOR HOURS	TOTAL COST
☐	Hardscaper 1			
☐	Hardscaper 2			

Total Labor Cost: _____

Grand Total Cost: _____



Systema Wall

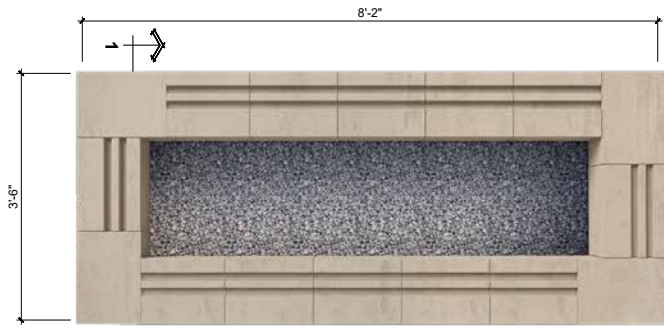
SYSTEMA GRILL ISLAND

STEP-BY-STEP

	STEP-BY-STEP CHECKLIST	
1	Determine the location of the feature and excavate as required.	☐
2	Run conduits for electricity (optional lighting or GFI outlet) and plumbing, as required.	☐
3	An appropriate inspector must approve the installation prior to backfilling the trench (consult local bylaw).	☐
4	Classify, amend and compact soil subgrade — final surface should not have variation greater than +/- 3/8" over 10'.	☐
5	Install appropriate geotextile (extended up sides of excavation and shingled with the flow of water).	☐
6	Install sub-base (open-graded: ASTM #57) minimum 4"-6" thickness.	☐
7	Form and pour Ready-Mix or Porous Concrete (PC) pad, recommended min. 4" (fibre-reinforcement, if required).	☐
8	Cover with a plastic sheet and allow a minimum 6 hour cure time.	☐
9	Remove grade pins and concrete forms.	☐
10	Install skim coat levelling bed (ASTM #8 or ASTM C-33) as required.	☐
11	Install Systema Wall units, as per plan.	☐
12	Mark and cut Systema Wall units to accommodate cross-vent grates, grill, access panels, doors or drawers.	☐
13	Trial fit the grill to assess the required supports.	☐
14	Use Gator Block Bond XP adhesive (apply perpendicular to final courses).	☐
15	With a certified, bonded gas technician connect grill to gas line and pressure test.	☐
16	Install optional under-cap lighting.	☐
17	Install a custom counter top.	☐

- A. CUSTOM COUNTER TOP
- B. SYSTEMA WALL UNIT
- C. TECHO-BLOC PAVERS OR SLABS
- D. SETTING BED 1" (25 mm)
- E. 6" CONCRETE SLAB
- F. COMPACTED GRANULAR 3/4" (0-20 mm)

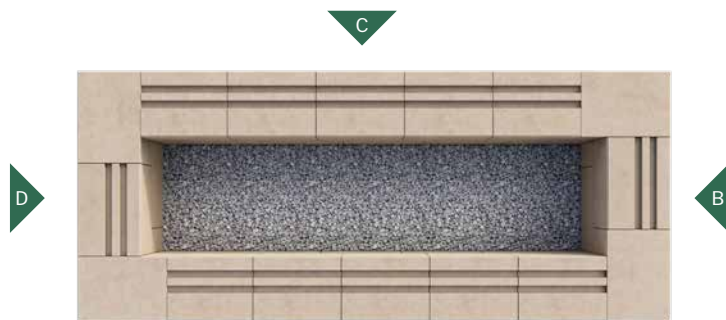
NOTE: Secure the blocks using a concrete adhesive.



ROW 1

QUANTITY OF MATERIALS REQUIRED

SYSTEMA WALL: 3 PALLETS
COUNTER TOP



ROW 2



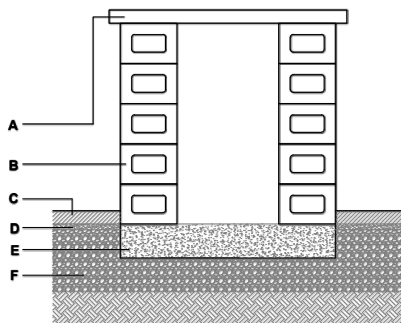
ROW 3



ROW 4



ROW 5



Section 1-1

Corner	Wall	Wall	Wall	Wall	Wall	Corner
Corner	Wall	Wall	Wall	Wall	Wall	Corner
Corner	Wall	Wall	Wall	Wall	Wall	Corner
Corner	Wall	Wall	Wall	Wall	Wall	Corner
Corner	Wall	Wall	Wall	Wall	Wall	Corner

Elevations A & C

Corner	Wall	Corner
Corner	Wall	Corner
Corner	Wall	Corner
Corner	Wall	Corner
Corner	Wall	Corner

Elevations B & D

TECHO—BLOC