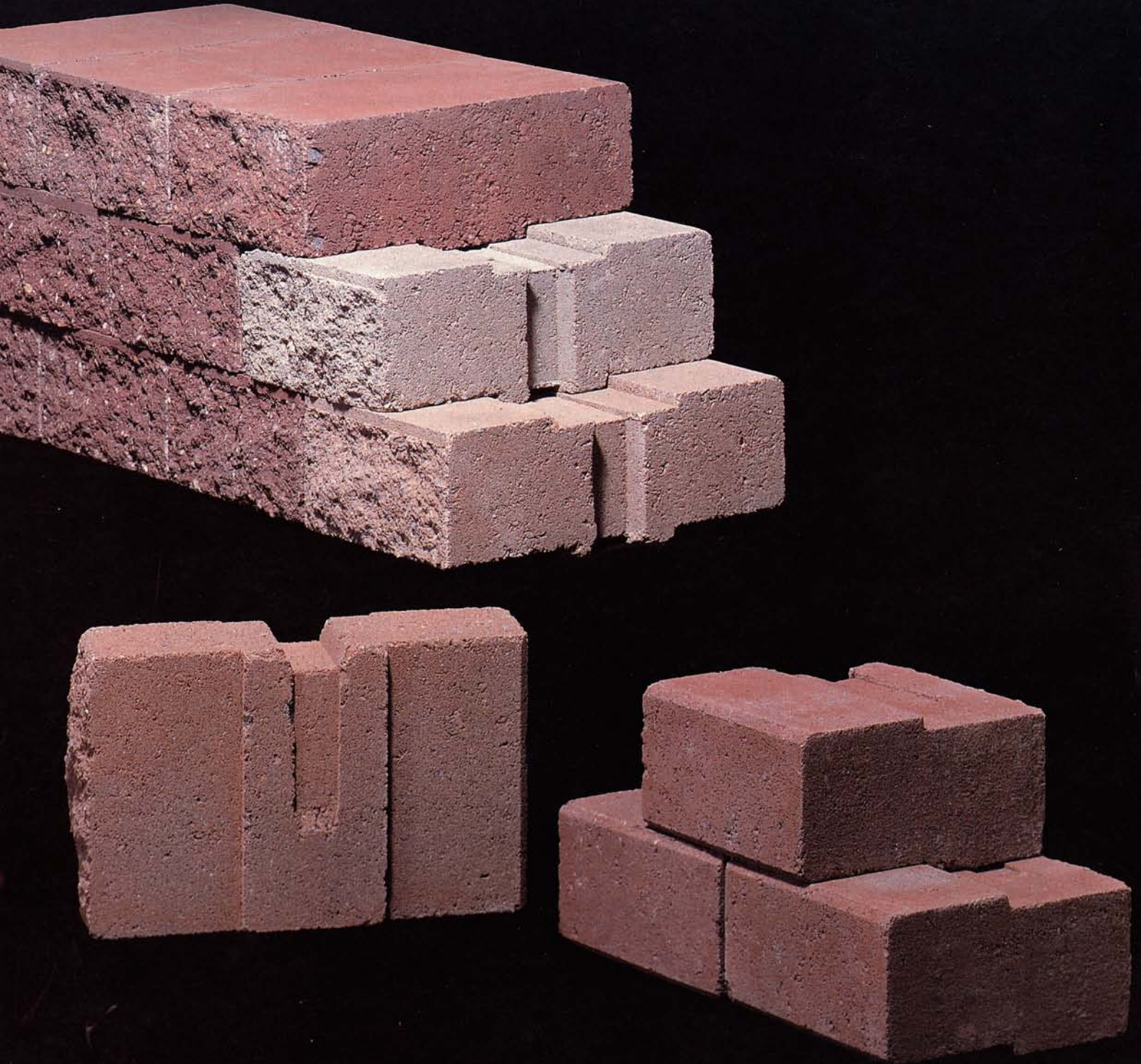


TERRASTOP™  
Patented

022761 Nat.  
Buyline 1671

## Architectural Earth Retainage and Landscaping Wall System

Another innovative product from the PDR (Product Development)  
Division of the National Concrete Masonry Association





# Easy to install Interlocking Walls for all Landscaping Applications

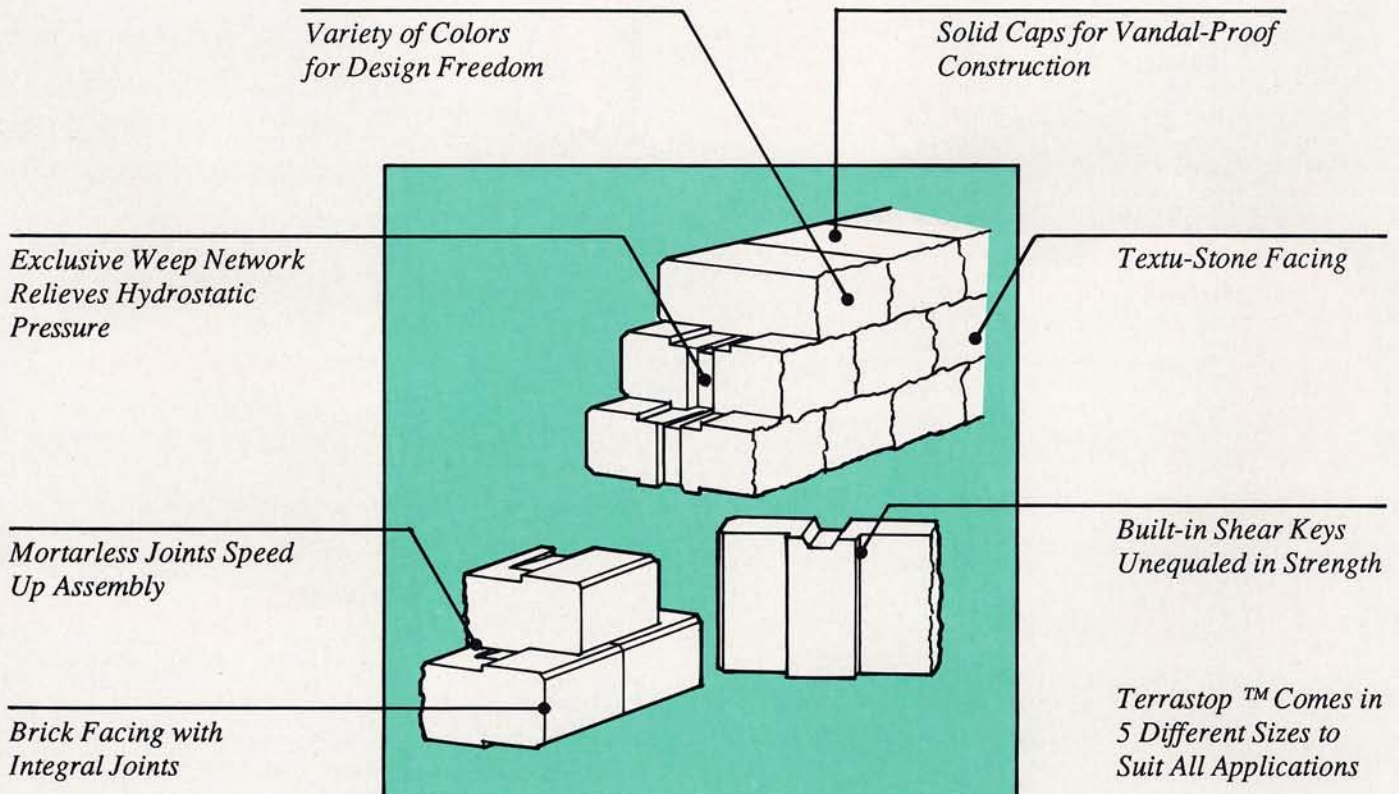
- Planters
- Terraces
- Curbs
- Fences, screens
- Steps
- Pools

## Good Looks that last

The array of unique features which make TERRASTOP™ so easy to use include: *Mortarless - No pins required - self aligning - Built-in Drainage - variable wall slope to suit conditions.*

### The TERRASTOP landscaping system:

- Replaces conventional lumber retainers which are chemically treated to retard deterioration.
- Makes it easy for everyone to obtain professional results with its light weight interlocking units which require no cutting for corners, nor pins for interlock.
- Provides architectural treatment on opposite unit faces for construction of free-standing walls, fences, screens, etc.
- Is engineered with an exclusive internal drainage network to relieve hydrostatic pressure.
- Is architecturally designed to let you create straight and curvilinear walls of different textures with a minimum of effort.
- Contains provisions for built-in piers which may be reinforced for tall wall applications.





## Easy as Pie

installation of permanent landscaping walls, curbs, fences, planters, steps, and more.

## Flexibility

to create straight and curvilinear walls - plumb or sloping - in a variety of colors, patterns & textures.

## Quick & Durable Results

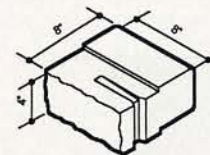
you can be proud of in no time at all; this is possible through the TERRASTOP rapid interlock feature which does away with mortar, pins, clips, and hassle.

## Use & Installation is Simple

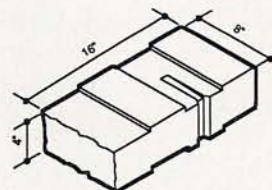
TERRASTOP allows the construction of RETAINING walls, and walls ABOVE GRADE too. With unlimited layout flexibility, straight and curving walls are a cinch; and for building 90° degree interlocked corners that do not require cutting or chiseling - in addition to steps, curbs and fences - only TERRASTOP can provide you with a single source for landscaping elements.

## Multiple Applications

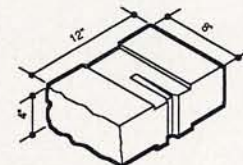
from home yards to highway walls, are possible by using one of the TERRASTOP systems best suited for each application.



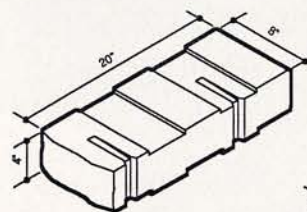
SYSTEM 1



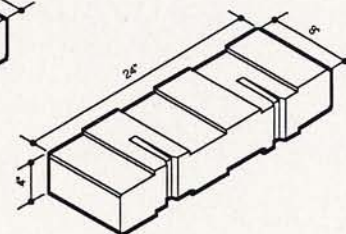
SYSTEM 3



SYSTEM 2



SYSTEM 4



SYSTEM 5

## Terrastop Unit Sizes

TERRASTOP SYSTEM	WALL ANGLE	UNREINFORCED MAX. HEIGHT *	GEOGRID ** REINFORCED	APPLICATIONS
System 1 (8" Wall Units)	0° 26°	1'-8" 2'-4"	N.A.	Residential curbs, planters, and short walls
System 2 (12" Wall Units)	0° 14° 26°	2'-8" 3'-0" 3'-8"	6' to 10' ***	Residential multipurpose unit suitable for retaining and free standing uses.
System 3 (16" Wall Units)	0° 14° 26°	3'-4" 4'-0" 4'-8"	8' to 12' ***	Commercial duty retaining walls, fences and site steps.
System 4 (20" Wall Units)	0° 14° 26°	4'-4" 5'-0" 6'-0"	12' to 14' ***	Public and institutional sitework; such as parks and street abutments.
System 5 (24" Wall Units)	0° 14° 26°	5'-0" 6'-0" 6'-8"	16' to 20' ***	Heavy duty applications such as highway and large industrial and commercial landscaping uses.

\* These retaining wall heights are for properly constructed walls with well drained provisions and level top grade without surcharge (applied loads in addition to soil). Refer to TERRASTOP Design Manual for details and specifications.

\*\* Tall walls using geogrid reinforcement require engineering analysis.

\*\*\* Depending on surcharge conditions; re: Design Manual

### CAUTION:

HEIGHT LIMITS ON ABOVE TABLE DO NOT APPLY FOR INSTALLATIONS WITH SLOPING BACKFILL OR WITH SURCHARGE OR RAIN RUNOFF; CONSULT WITH YOUR NEAREST TERRASTOP REP.



# Terrastop™ Guide Specifications

**GENERAL:** Work under this section includes furnishing and installing dry interlock concrete masonry units, together with all inserts, reinforcements and related earthwork, as shown and/or specified in the construction documents.

**MATERIALS:** Landscape walls shall be constructed of solid, interlocking concrete masonry units meeting the Standard quality control and design requirements of the "TERRASTOP SYSTEM" as established by the National Concrete Masonry Association, and conforming to the Specifications of ASTM C-90, as applicable for Grade N, Type II or Type I units, manufactured with aggregates classified as ASTM C-33. Landscaping units shall be designed with integral interlocks at every course, providing a minimum shear capacity of 3,000 lb. per foot of wall, without the use of dowels, pins, or inserts of any kind. Minimum Unit Weight attainable without the use of fills of any type, shall be 130 lb. per cu. ft. of wall.

The interlocking stretcher units shall contain vertical and horizontal drainage grooves providing a continuous network of weeping channels for moisture disposal, and shall have a maximum weight per unit as indicated on Table 1 for the System being used.

Unit interlock shall permit stepbacks in 4" increments at any course, and will be of sufficient tolerance to accommodate minimum concave and convex radii. TERRASTOP landscape masonry wall units shall be designed to permit the execution of fully interlocked 90° corners with staggered courses producing a "fingerlock effect", and without requiring the use of chisels, cutting, glueing, or preparations other than the use of corner units, such as detailed in the TERRASTOP design manual.

Wherever applicable, grout for piers shall meet requirements of ASTM-C476, and reinforcing steel those of ASTM of A615 OR A616. Integral pigments shall not exceed 10% of the cement weight in the block mix.

**CERTIFICATION:** Interlocking concrete masonry units for landscaping wall shall bear NCMA certification corresponding to a minimum compressive strength of 2800 psi and all other quality control requirements pertaining to the TERRASTOP System specifications.

Contractor shall furnish acceptable evidence that the units delivered comply with this specification, and shall present certificates to construction manager for approval, prior to material installation.

**SAMPLES:** Furnish five (5) samples for each type of interlocking wall unit to be used, in order to demonstrate final color, texture and product quality.

**EXCAVATION:** Excavate to the elevations and profiles shown on the drawings, or as required by local regulations, but not less than 12". Base for the integral footings shall be undisturbed soil, or compacted granular fill consisting of clean sand or pea gravel compacted to a minimum thickness of 4". Compaction of granular fills shall be by mechanical plate compactor to 95 Modified Proctor density.

**INSTALLATION:** Integral wall footing units shall be placed as shown on the drawings, with toe projections towards outside of the wall, and leveled to the grades specified.

Starting at end corners or piers, proceed with installation of wall units checking for level and brushing debris from bed joints to ensure that male/female interlocks are completely engaged; align each succeeding course so that the head joints coincide fully with the center of the preceding units (Running bond pattern).

Backfill using soil site at the discretion of the Engineer, and tamp in 8" increments, leaving a minimum 8" layer of granular drain fill in contact with the wall side as shown on the drawings. When using fine sand as drain fill, protect it from erosion with a geotextile filter fabric installed around its perimeter.

When using reinforced piers or bond beams, install deformed vertical bar reinforcement as called for, and fill cavity with grout between wall stepbacks. Use of brick-sized units at bond beam courses may require temporary bracing.

For installations utilizing geogrid tiebacks, refer to Geogrid Reinforced Wall section of this Specification.

Top wall with TERRASTOP cap units set in a bed of all-weather mastic adhesive. For installations receiving rain runoff, a perforated plastic drain tile must be provided at the base of the wall as shown on the drawings. Minimum drain tile diameter shall be 3", and must slope at least at 1/4" per foot towards outlets with unrestricted flow to suitable front discharge means, away from the wall and its backfill.

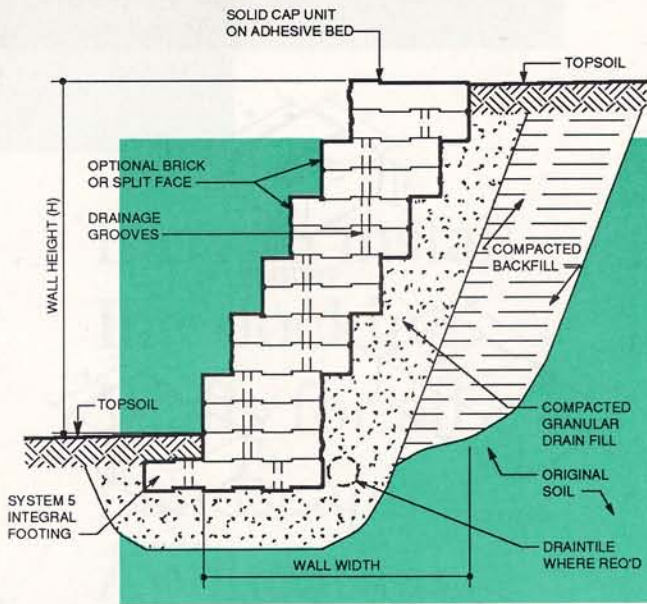
**FINISH AND CLEANUP:** After completion of backfill, inspect walls to verify that all units are fully locked in place, and that wall caps and ends are securely adhered and properly terminated as detailed in the plans.

Fine sand may be sprayed on the wall and brushed into the joints to lock all units, and the completed installation may then be cleaned of grout droppings, soil, etc.

Remove all stakes, poles, strings, and equipment; clean up debris, refuse and surplus materials.

**WORK BY OTHERS:** Planting, sodding, mulch and landscaping.

**GEOGRID REINFORCED WALLS:** (See Specification PDR 6010)



## TERRASTOP™ Pyramid

For Detail Manual illustrating recommended installations with different slope and surcharge conditions, request NCMA Publication PDR 6016.

**TABLE 1**  
PHYSICAL CHARACTERISTICS  
OF TERRASTOP UNITS

SYSTEM	UNIT THICKNESS (nominal)	STRETCHER WEIGHT (max.)	INTERLOCK STRENGTH (per course)	ALL TYPES	
				Compressive Strength	Absorption (Max. Water)
1	0' - 8"	20 lb	3000 lb/ft		
2	1' - 0"	30 lb	3000 lb/ft		
3	1' - 4"	40 lb	6000 lb/ft	3000 psi (Average 3 units)	10 lb/cf
4	1' - 8"	50 lb	6000 lb/ft		
5	2' - 0"	60 lb	9000 lb/ft		

PDR reserves the right to change product specifications at any time, in the interest of product improvement.

**TERRASTOP™**  
U.S. Pat. 4,933,206 other pats. pending

Your Local Source:

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Phone 703 471 4082 - Fax 471 4083  
www.rapidbuilding.com

PDR 6027