

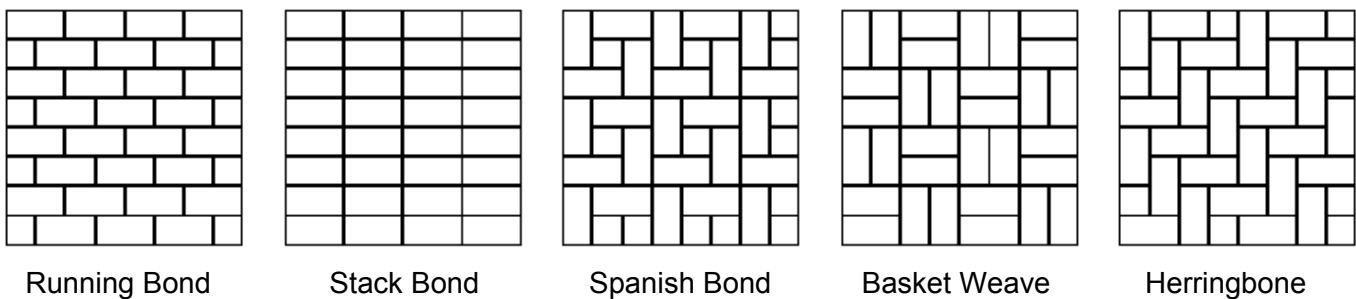
Clay pavers are strong, durable, and color safe (non-fading), and provide a value added option on any project.

Accessibility

Clay pavers comply with ADA requirements for slip resistance, surface level and vibration levels.

Bond Patterns

A wide variety of bond patterns is possible. For vehicular applications the Herringbone pattern is recommended.



ASTM Specifications

General Shale pavers comply with the following ASTM Specifications.
 1-1/4" and 2-1/4" pavers comply with ASTM C 902 Standard Specification for Pedestrian and Light Traffic Paving Brick; for use in rigid and flexible base applications.
 2-1/4" pavers comply with ASTM C 1272 Standard Specification for Heavy Vehicular Paving Brick; for use in rigid base applications only.

Physical Property Requirements

	<u>ASTM C 902</u>	<u>ASTM C 1272</u>
Compressive Strength	Class SX 8,000 psi	Type R: 8,000 psi Type F: 10,000 psi
Cold Water Absorption	8%	6%
Modules of Rupture Requirement (MOR)	None	Type R: 1,200 psi Type F: 1,500 psi

Dimensional Tolerances (8" Dimension)

<u>C 902</u>	<u>C 1272</u>
PS ± 1/4"	PS ± 1/4"
PX ± 1/8"	PX (Flexible Only) ± 1/8"
PA No Limit	PA No Limit

General Shale Pavers conform to PS (straight edge pavers) or PA (tumbled pavers) tolerances.

Abrasion Requirements

- Type I – Wire Cut
 - Public sidewalks and driveways
- Type II – Mud, Slurry, Heavily Textured
 - Heavily traveled residential walkways and driveways
- Type III – Sand Coated
 - Single family residential floors and patios

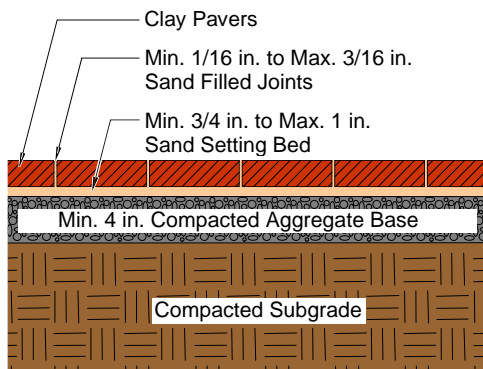
Vehicular Applications

In most applications C 902 pavers are acceptable. C 1272 are only required for heavy vehicles **AND** heavy traffic volume (Refer to General Shale Technical Bulletin Vehicular Paver Specification.doc).

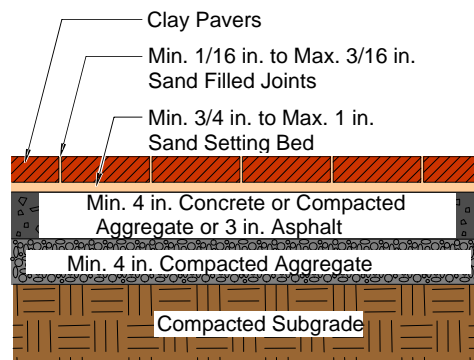
General Thickness Requirements

Unit / Base	Residential			Commercial				
	Patio	Walks	Drives	Patio	Walks	Drives	Parking	Streets
1-1/4" Flexible Base	X	X						
1-1/4" Rigid Base	X	X	X	X	X			
2-1/4" Flexible Base	X	X	X	X	X	X		
2-1/4" Rigid Base						X	X	X

Recommended Paving Design Sections



Typical Residential Patio or Walkway



Typical Residential Driveway

(Note: For more applications / details visit the General Shale website www.generalshale.com Technical Resource section.)

Aggregates

Base Stone
ASTM D 2940
DOT Road Base

Sand – Setting Base
ASTM C 33
Course Concrete Sand

Sand - Jointing
ASTM C 144
Masonry Sand
(Use after initial compaction
with concrete sand)

Drainage

Slope surface a minimum of 1/4" per foot (2% slope) for adequate water run-off and drainage.

Geotextile

Prevents aggregates from mixing or migrating into base. Recommended for soft clay base materials.

Cutting Pavers

Wet saw is recommended; splitters are okay for smaller jobs. Do not use concrete blades, use a soft matrix blade specifically intended for clay pavers.

Mortared Pavers

Use Type – S mortar. Latex additives can help improve bond strength, workability and durability. Tool joints when "thumb print" hard using a concave jointing tool.

Estimating Materials

Pavers

4.5 Pavers per sq. ft. Figure approximately 5% for waste and breakage.

Sub Base Aggregate

3/4" crusher run. For every 100 sq. ft. of area figure 2 tons material for 4" thick base.

Setting Sand / Bed Sand

For every 125 sq. ft. of area figure 1 ton of sand for jointing and 1" thick setting bed.