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Foxfire's TerraBuilt<sup>J</sup> Construction System brings the time honored adobe building tradition into the 21<sup>st</sup> century. TerraBuilt<sup>J</sup> structures are high quality, affordable and environmentally sustainable buildings ... a practical, cost-effective construction alternative that is superior in many ways to current building materials and methodologies. Homes, medical clinics, schools, libraries, farm and ranch buildings etc. can be constructed with the TerraBuilt<sup>J</sup> technology.

Central to the TerraBuilt<sup>J</sup> construction concept is the ability to rapidly produce on-site a dimensionally precise (within 1/64" tolerance) tongue and groove structural block. The 20 pound block consists of 2/3<sup>rd</sup> sand, 1/3<sup>rd</sup> clay, and 3-8% cement. Blocks are produced at a rate of 3 per minute and are ready for immediate use. The dimensional precision of these structural blocks enables dry stack construction, largely eliminating the use of mortar and need for skilled labor. The TerraBuilt<sup>J</sup> Technology System reduces construction costs by using abundantly available local material and labor, and by eliminating time consuming construction processes familiar to other construction methodologies. Most transportation and storage problems are eliminated.

Further, by using local labor and maintaining project decision-making at a regional level there is the economic benefit of keeping a larger percentage of the project capital within the region, allowing the cash to circulate within the community. In the end, there is superior product built with environmentally friendly and readily available materials at very competitive prices employing the local labor pool. Houses are structurally strong, durable, thermally and acoustically efficient ... all providing a comfortable living or working environment.



# GreenMachine™

From Foxfire Associates

Creators of the  
**TERRABUILT™**  
Building System

## GreenMachine™ Specifications

**Dimensions:** 55" x 70" x 81" (H x W x L)  
**Track Width:** 70"  
**Road Clearance:** 8 ¼" – 15 ¼"  
**Weight:** 2040 lbs.  
**Engine:** Honda 8 hp gas or diesel powered  
**Hydraulic Pump:** Barnes 2-stage 11 GPM  
**Production:** 3 blocks /minute; 180 blocks/hour

## TerraBuilt™ Block Specifications

**Block Dimensions:** 4" x 8" x 10" (H x W x L)  
**Tolerances:** 1/64<sup>th</sup> inch all sides  
**Block Type:** Tongue and Groove  
**Construction Method:** Dry-Stack w/o mortar  
**Compressive Strength:** 900 psi to 2240 psi  
**Modulus of Rupture:** 150 psi w/5% cement content  
**Block Weight:** 20 lbs  
**Material:** Sub soil mixed with 5-8% cement

## GreenMachine™ Patent Rights

**Patent:** # 6,302,675; further patent pending

## Test Results of TerraBuilt™ Wall

**Compressive Strength:** 200,000 pounds or more  
**Lateral Load:** 120 mph wind load w/o failure  
**Shear Strength:** no movement up to design load  
**Thermal Performance:** superior to comparable wood frame wall by average factor of 1.84

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Photographs courtesy of Almost Heaven  
Habitat for Humanity Inc, Franklin, West  
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