



Providing
Sustainable
Elements for the
Modern Economy



Our Mission

Native Build Group is a forward-thinking sustainable materials company grounded in respect for the land, Indigenous knowledge, and the ingenuity of Native peoples.

We leverage ancestral knowledge and cutting-edge science to offer a range of products and services focused on regenerative agriculture, environmental remediation, sustainable construction, and clean energy.

Harnessing the power of plants and the scale of regenerative, industrial agriculture, we supply advanced bio-based materials for construction, marine, and aerospace applications.

NBG operates with a regional and reliable presence, distributing throughout North America. We collaborate with Tribal Nations, leading research institutions, and global experts to continually test, refine, and expand the capabilities of these materials.

Construction and agriculture together account for more than 50% of global carbon emissions. Without practical, scalable alternatives to conventional materials, no country or company can truly meet its climate goals.

1247+ Acres of operations

052 States and Countries served

500+ Happy Customers

007 World Changing Technologies





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"We have used [FREPOXY] with great success as a flat roof sealant, in warehouses, pedestrian walkways, and garage floors. This product has a rapid curing time and superb adhesion to most substrates. The fact that it is VOC-free also adds to its appeal with our customers in North America, Central America and the Caribbean."

Frank Ruiz

President, Reflect A Seal
LLC

"The Team at NBG delivered a consistent, uniform and commercial grade product for our hempcrete cabin overlooking the Brazos River. I look forward to them supplying many future projects for us."

Andrew Hancock

President, LimeLife
Construction



HempCrete

Renewably sourced, Carbon-Negative,
biobased concrete and insulation alternative



- The concrete industry and built world account for roughly 25% of global carbon emissions.
- Hempcrete is a fast-emerging construction solution that sequesters carbon, grows rapidly and has superior insulation properties.
- Reducing energy consumption over its life, improving indoor air quality, excellent moisture and climate control.
- Hempcrete construction is approved for International Residential Code: RB316-22



Limelife Construction

Brazos Overlook Cabin

Pricing/Lb

Contact us for pricing in your area



www.Hempitecture.com

Minka



Worked with Axel
Vorvoodt Architects.



Supplied material for
+17 homes in 6 states



FiberLite TM



MADE IN USA

FiberLite TM, is a non-structural replacement for traditional timber MDF. Created using the fast growing hemp plant with patented adhesives and processes. MDF is commonly used in furniture, internal cladding and interior features.

- Stronger and lighter than traditional MDF
- Direct replacement for traditional MDF
- Hemp grows up to 16x faster than trees
- Carbon Negative
- Cost competitive
- Fully Domestic Supply chain
- VOC-free plant based adhesives
- Vertically integrated



**Grown and manufactured
in America**



**Pricing:
Available Upon Request**



FiberGrass SoilsaverTM



**Biodegradable erosion control, weed control,
non-slip mats.**

**For use in earthworks, horticulture and home
gardening and more.**



Preventing soil loss, supporting American farmers, replacing plastic in soil stabilization, weed control and horticultural operations. Every year the US loses 11 tons/acre/year

This is Native Build Group's favorite product, a drop-in replacement for plastic weed tape and erosion Mats, using all natural hemp / jute fibers which are durable and %100 biodegradable.

Pricing

Save %5 when you buy a full roll!

FiberGrass Soilsaver	Per Sq Ft.	1 Roll (1,756 sq ft.)
Cost	\$1.25	\$2,107.20



TREBAR™

NON-CORROSIVE, RENEWABLY SOURCED

2X STRONGER, 4X LIGHTER THAN STEEL REBAR

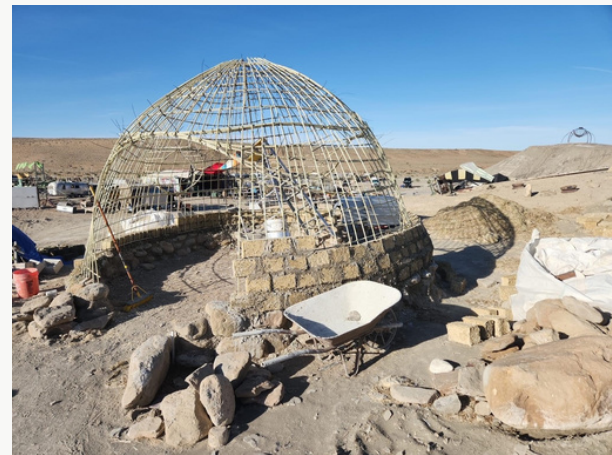
Steel reinforcing members were invented in the early 1900s, the technology has not improved much since.

NBG's Bio-based FRP Rebar is a great leap forward in efficiency, strength, durability, and material sourcing.

By utilizing, glass, basalt, and natural fibers bound with a plant-based matrix specially designed for optimal properties AND comparable in cost, the choice is clear.

TREBAR Properties

- Non-Corrosive/Long Lifespan
- Non-Conductive, Data usage
- 4x Lighter
- Transportation and worker safety
- Made in America
- 2x stronger tensile
- Maintenance Free
- ASTM D7957/D7957M-17



***Contact Us for Pricing**



FREPOXY™

VOC free plant-based Epoxy

By identifying and maximizing the inherent properties of plant molecules we have developed a VOC-free, renewable epoxy.

Perfect for use in corrosive environments, composite materials, paints, moldings, and much more.

Our chemistry team can tailor specific properties for your desired use.

FREPOXY Applications

- Floor/roof coating
- Art and Jewelry
- Paint, Primer substrate
- Weather-proofing of wood, concrete and steel
- Composite material matrix
- Anchoring and adhesives
- Customizable properties
- MSDS sheet upon request



Pricing:

- 18 oz - \$30
- 1.5 gal - \$85
- +5 gal - \$65/gal



FiberGrass SiltSocks

TM



Biodegradable erosion control socks, rapid terracing solution
For use in earthworks, horticulture, home gardening and more.

Every year the US loses about 11 tons/acre of soil. Fibergrass SiltSocks are an excellent and biobased solution to solve that problem.

With use in earthworks construction, city storm drain filtration and rapid terracing to capture water and allow it to soak into the soil and aquifer.

Other applications include oil and chemical absorption, floating booms for water protection and boundary lines for industrial sites. Every oil or chemical operation should have these on hand.



FiberGrass Silt Socks	Per Unit (10')	Pallet (350')
4" Silt Socks	\$15.50	\$515.38
6" Silt Socks	\$17.50	\$581.88
8" Silt Socks	\$19.50	\$648.38



MicroPoz

Micropoz® Mineral Catalyst is a special mineral blend to be used to formulate a fast setting and high pozzolanic activity lime binder.

Micropoz® Compound is used in the preparation of different hempcretes.

- In-situ walls (non-structural)
- Floor slabs
- Screens
- Roof insulation.
- Pre-cast members



Delivered in an easy to handle ready-mix bag or purchased in bulk



MicroPoz is used to repair the Meso-American pyramids and structures.

Pricing/55lb Bags:

Ready-Mix: \$50

Mineral Catalyst: \$90



FiberGrass™

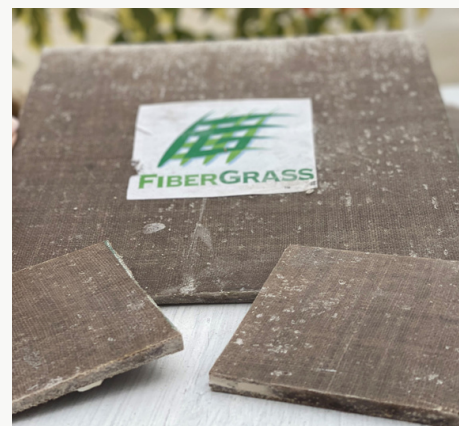


A natural woven fiber and bio-polymer matrix alternative to fiberglass -rigid materials- with superior properties, renewably sourced.

- Glass fibers were discovered on accident in the 1930s, and since countless hands, lungs and environments have been stuck with the impacts
- NBG's **FiberGrass** composite's are a revolution in healthy durable goods, strength, weight reduction, and material sourcing.
 - Kayaks
 - Furniture
 - Reusable, Weatherproof Panels etc.
- By combining our FREPOXY with natural fibers such as hemp. Designed for optimal properties from abundant supplies.



**Custom
Applications:**
\$750 minimum
order



Panel Pricing:
1/4" x 1 sq. ft: \$19
1/2" x 1 sq. ft: \$29
3/4" x 1 sq ft: \$39



Hemp Hurd (Shiv)



Hemp Hurd is the woody core of the hemp plant, can be sized for the desired use. Pricing listed below. Top Applications include:

1-5 cm "Construction Grade Hurd" (see 9.1)

-Hempcrete construction (concrete aggregate)

-Animal Bedding

-Absorbents (oil, industrial fluids etc)

-Jobsite mud mitigation, applied and compacted to wet or muddy job sites to prevent tracking.

>1 cm to 100 microns "micronized hurd" (see 9.2)

-Injection Molding

-3D printing construction

-Plaster additive

-Plastic substrate

-Absorbents



Ex. 9.1



Ex. 9.2

.5-2.5cm Pricing/Lb

0-700 lbs: \$1.00

701-1800 lbs: \$.85

1801- +5000lbs: \$.70

Micronized Pricing/LB

0-100 lbs: \$3.50

101-500 lbs: \$3.00

+500: \$2.75



HempWool™



MADE IN USA

HempWool® is a healthy and non-toxic insulation, a direct replacement for fiberglass batt insulation

The making of fiberglass insulation is an energy-intensive process — up to 10 times more so than eco-friendly alternatives.

- Mold and fungus resistant
- Easy to work with
- Chemical free
- Affordable
- Highly Insulative
- Carbon Negative



**Grown and manufactured
in America**

Pricing:

Reach out for pricing, by the pallet and sq. ft.



HempWood™



HempWood® Natural Flooring is the most sustainable flooring product on the market.

Through our unique process and adhesives, we are able to offer a flooring product strong enough to handle daily foot traffic without emitting VOCs into the atmosphere.

- Stronger and lighter than Oak
- Comes in finished or several options
- Carbon Negative
- Rapidly produced
- Fully Domestic Supply chain



**Grown and manufactured
in America**

Pricing:

Reach out for pricing



FiberPly TM

FiberPly TM, is a structural replacement for traditional timber OSB. Created using the fast growing hemp plant and patented adhesives and processes.

- Stronger and lighter than traditional OSB
- Direct replacement for traditional OSB
- Hemp grows up to 16x faster than trees
- Carbon Negative
- Cost competitive
- Fully Domestic Supply chain
- VOC-free plant based adhesives
- Vertically integrated



**Grown and manufactured
in America**



**Pricing:
Available Q4 2025**



Construx Shells TM

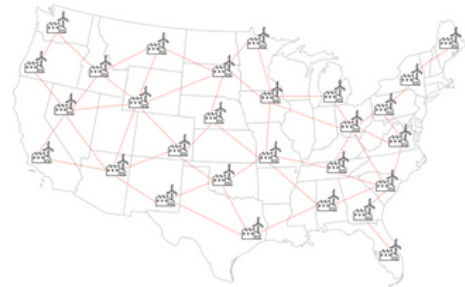


Construx Shells TM uses automated machinery to precision cut low-cost plywood components in a controlled factory environment, delivering a predictable, consistent, and repeatable result with accuracy and quality that outperform traditional construction

- Precision engineered.
- 4x faster construction
- No concrete, limited site work
- Hurricane Resistance
- 95% less waste
- Carbon Negative
- Customizable options

Decentralized Manufacturing

Utilizing an existing network of CNC manufacturers across the United States, Construx strategically expands its reach to new geographic regions. These eco-factories foster rapid market penetration while promoting local job creation.



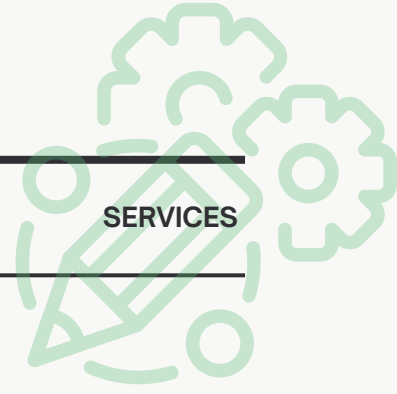
**Robot CNC machines
work at max efficiency.**



Pricing:
Reach out for pricing



Design



In close collaboration with **Biobuild Studio** we identify local materials, environmental conditions and client request. Applying bio-agency and bio-regional principals to design, fabricate and deliver appropriate, sustainable and high performing buildings.

BIOBUILD

web: Biobuild.studio

Texas Farm Outhouse: Incorporating E3 Hempcrete, TREBAR, and passive design to give the client a comfortable, long lasting bathroom experience. Did we mention its mobile?



Entheogenic Temple: Biobuild Designed and E3 supplied Hempcrete ceremonial temple, located in Blanco Texas.



Breezeway House: Designed by Biobuild Studio for a client interested in sustainable construction, historical Texas influence.



Prototyping and Mock-ups

E3's team of world class scientist, craftsmen and top tier facilities allow us to design, tailor and fabricate specific technologies and systems for companies and clients.



Custom Hempcrete Panel incorporating TREBAR to be precast either onsite or delivered from our facility to a company looking to add plant-based building materials into their portfolio.



E3 was contracted to develop a lightweight, bulletproof plate that can be used in military, police and protection services



E3 was contacted by a builder looking to design and build TREBAR columns for a pool bar



University, 3rd party Testing, ASTM, Codes and designation

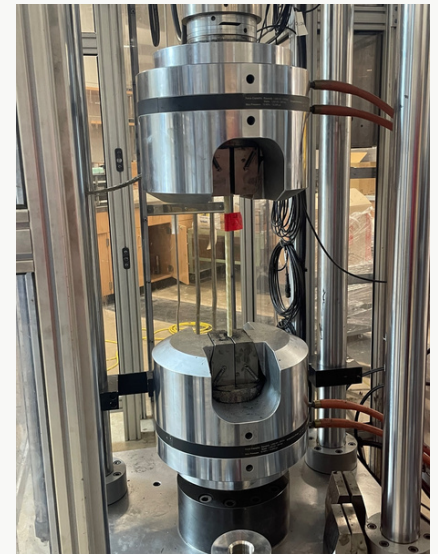
13.1 TREBAR

Tested by the University of Miami (see 13.1.A) , 3rd Party Testing Lab in Georgia, MTS (see 13.1.B).

Currently Being Tested by Texas Department of Transportation (see 13.1.C) and Texas A&M Center for Infrastructure Renewal with expected testing completed by the end of 2023.

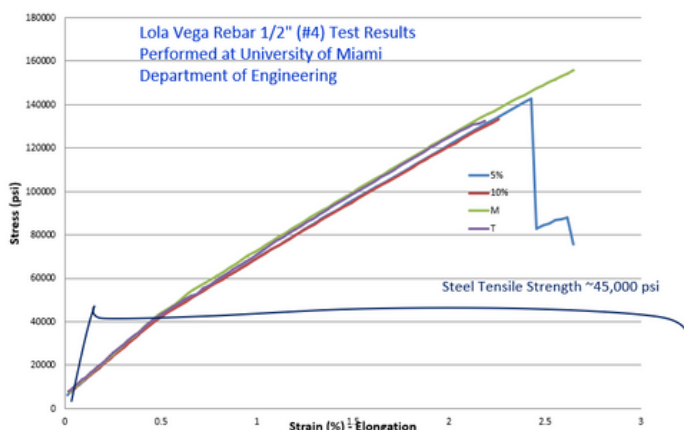
ASTM Designation: D7957/D7957M-17

Engineering Specifics: ACI-440.1R-06 Guide for the Design and Construction of Structural Concrete Reinforced with FRP Bars



Ex. 13.1.C

Stress (psi) - Strain (%) Graphs #4 Rebars



Ex. 13.1.A

LVG_#4_TNS - ASTM D7205 Summary of Results

Size	Lot	Test Rep.	SPECIMEN ID	Peak Load P _{max}	DATA W/ NOMINAL AREA							% deviation of P _{max} from Average
					Nominal Area A _{nom}	Tensile Strength F _u nom	Modulus of Elasticity E*	Strain ε _u				
#	#	#		kN lbs	mm ² in ²	MPa ksi	GPa Msi					
4	NA	1	LVG_#4_TNS_M-001	131.62	29589	1039.5	150.8	52.01	7.54	1.95	-0.8	
		2	LVG_#4_TNS_M-002	133.78	30075	1056.6	153.2	51.09	7.41	1.98	0.8	
		Average			132.7	29832	1048.1	152.0	51.6	7.5	2.0	
		S _u			1.5	343	12.1	1.8	0.7	0.1	0.0	
		CVI (%)			1.2	1.2	1.2	1.2	1.3	1.3	1.2	
		Guaranteed Properties*			128.1	28902	1011.9	146.8				
		3	LVG_#4_TNS_20-001	133.49	30010	1054.3	152.9	NA	NA	1.93		1.1
		4	LVG_#4_TNS_20-002	130.58	29356	1031.3	149.6	52.23	7.57	1.88		-1.1
		Average			132.0	29683	1042.8	151.2	52.2	7.6	1.9	
		S _u			2.1	463	16.3	2.4	NA	NA	0.0	
		CVI (%)			1.6	1.6	1.6	1.6	NA	NA	1.6	
		Guaranteed Properties*			125.9	28294	994.1	144.2				
		5	LVG_#4_TNS_05-001	129.91	29206	1026.1	148.8	51.93	7.53	1.97		-1.6
		6	LVG_#4_TNS_05-002	130.50	29339	1030.7	149.5	51.41	7.46	1.98		-1.2
		Average			130.2	29272	1028.4	149.2	51.7	7.5	2.0	
		S _u			0.4	94	3.3	0.5	0.4	0.1	0.0	
CVI (%)			0.3	0.3	0.3	0.3	0.7	0.7	0.3			
Guaranteed Properties*			129.0	28990	1018.5	147.7						
7	LVG_#4_TNS_203-001	79.60	17695	625.7	91.2	49.59	7.19	1.00		-3.4		
8	LVG_#4_TNS_203-002	74.41	16728	587.7	85.2	50.11	7.27	1.00		-3.4		
Average			77.0	17312	608.2	88.2	49.9	7.2	1.0			
S _u			3.7	825	29.0	4.2	0.4	0.1	0.1			
CVI (%)			4.8	4.8	4.8	4.8	0.7	0.7	5.6			
Guaranteed Properties*			66.9	14836	521.2	75.6						
*Minimum Guaranteed (ICC-ES AC454)				21400	759.8	110.2	44.8	6.5		max 15%		
*Minimum Guaranteed (FDOT Std. 932)					758.4	110	44.8	6.5				

Note 1: For Specimen #3 data was compromised with the exception of peak load.
Note 2: Only nominal area values were used at testing and for calculations as measured values were not available.
Note 3: Specimens #7 and #8 (in yellow) showed pronounced low peak values.

Ex. 13.1.B



Testing Continued

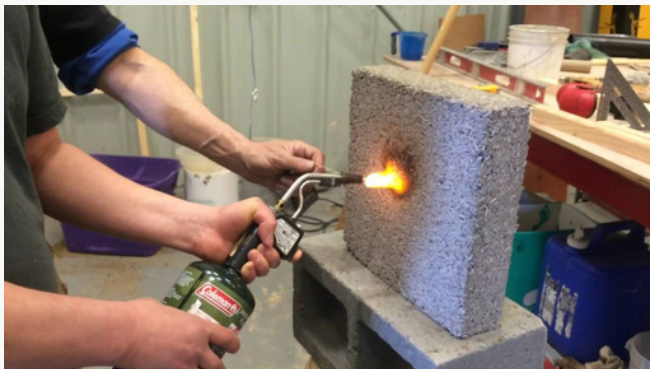
14.1 Hempcrete

Has been tested and approved by multiple universities and independent laboratories and is currently approved by the IRC. Hemp is considered load bearing in Europe but used widely as a insulating wall system (see 14.1.C)

International Residential Code: RB316-22 (see 14.1.A)

Fire Rating Test: ASTM E 84-19B receiving a perfect score of 0, 0 to 450. (see 14.1.B)

Standardization News: <https://sn.astm.org/features/green-building-hempcrete-ma20.html>

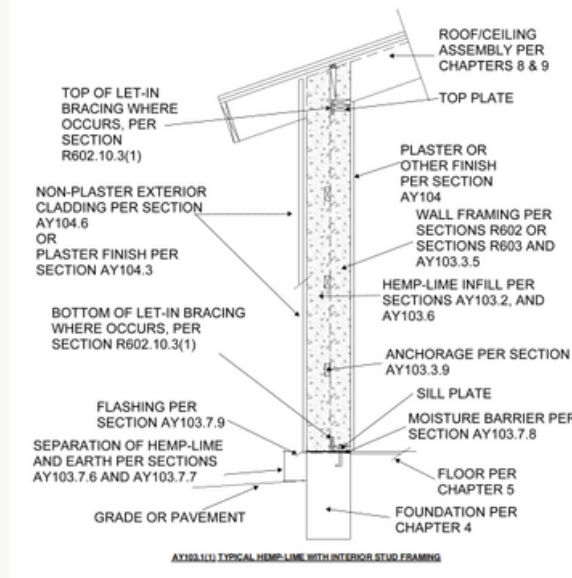


Ex. 14.1.B

**density (self-bearing, load-bearing)
mechanical strength versus thermal conductivity**

Application	Shiv: Binder proportions (by mass)	Target density [kg.m ⁻³]	Typical ultimate compressive strength [N.mm ⁻²]	Typical thermal conductivity λ [Wm ⁻¹ K ⁻¹]
Roof Insulation	1:1	220	0.05	0.06
Wall Construction	1:1.5	275	0.11	0.06-0.09
Wall Construction	1:2	330	0.22	0.09-0.115
Wall Construction	1:2 (compressed)	440	0.35	0.115
Floor	1:3	500	0.8	0.13
Floor	1:4	600	1.15	0.14
Pre-cast Structural	1:4 (compressed)	600-1000	2-6	0.14-0.27

Ex. 14.1.C

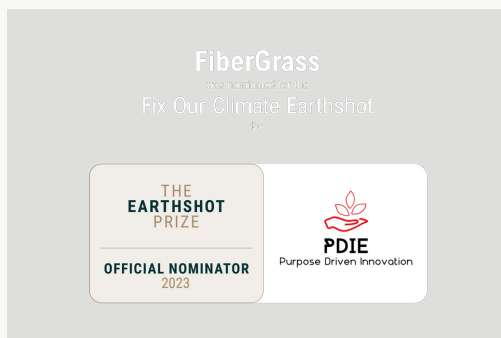


Ex. 14.1.B



Accolades and Support

- NBG has been recognized by the British Royal Family's Earthshot Prize Challenge for our FiberGrass™ product line which includes our plant-based composites, TREBAR and Panelized materials. (see 15.1)
- The Earthshot Prize is a global competition to identify solutions which will halt and reverse the destruction of our planet by 2030.
- NBG works in close collaboration with Texas A&M to test, improve and approve of our plant-based building materials. (See 15.2)
- NBG has also engaged with Frostburg State University to conduct full panel Life Cycle Analysis of our plant-based products.
- NBG is members of ASTM international, USGBC and USHBA



Ex. 15.1



Ex 15.2

