Team Tiny House Materials List

We are a female founded 501(c)(3) non-profit engineering (STEM) team composed of students from Thomas Jefferson High School for Science and Technology. After realizing the positive impact tiny houses can have on the environment by being 100% sustainable, we created Team Tiny House to:

- Build tiny houses on wheels to demonstrate that sustainable and affordable housing is possible for everyone
- Create a world where everyone has access to sustainable and affordable housing.

By supporting us through in kind donations or direct tax-exempt donations, here are the benefits you will receive:

Benefits	Diamond $10,000+	Platinum $6,000 - $9,999	Gold $1,000 - $5,999	Silver $500 - $999	Bronze $100 - $499
Name/Company on our Website	✔	✔	✔	✔	✔
Name/Company mentions on Social Media Posts (YouTube, Tik Tok, Instagram, LinkedIn, Facebook)	✔	✔	✔ all social media	✔ only Instagram	
Name/Company on TTH merchandise	✔	✔			
Name/Company publicity in TTH Events	✔	✔			
Name/Company "thank you" on front page of published How-To Guide	✔				
Name/Company plaque with logo in the house	✔				

Email: teamtinyhouse.org@gmail.com   Website: teamtinyhouse.org

Information Packet: tinyurl.com/tthInfoPacket   Sample Draft: tinyurl.com/TTHSystems

Electric and Water Systems

Access Shed

Material(Amount)	*Estimated Cost*
Alkaline Filter	*42*
Bulkhead Tank Fittings(4)	*24*
Gravity Fresh Water Fill Hatch with Overflow & City Inlet	*48*
ID Hose 0.5"	*46*
ID Hose 1.25"	*11*
Micron Filter 0.5"	*13*
NPT Female 1.25" x NPT Fitting Male 0.5"	*3*
NPT Male 0.5" to Barbed Hose 0.5"	*52*
NPT Male 1.25" x Barb (4)	*13*
NPT Male 1" x NPT Reducer Female 0.5"	*8*
PEX One-Way Valve Crimp Fitting (4)	*13*
Piano Hinges	*24*
Screws 3" of 8 or 9 gauge. (200)	*35*
Shurflo Pump	*72*
UV Purifier	*62*
Water Heater	*194*
Water Tank - 30 Gallon	*114*
Water Tank - 65 Gallon	*180*

Bathroom Appliances

Baskets 2x	24
Cement Board 0.25"x3'x5' (7)	84
Cement Quickcrete	7
Corner Braces	7
Curtain Rod Fastener	11

Diverter	63
Drop Ear	9
FPT 1.5" x Slip Adapter	7
Hand Washer Dryer	55
MPT 3" x Slip Adapter	8
Non-Modified Thinset Mortar 10lbs	6
NPT Female 1.5" x PVC Adapter 1.5"	5
NPT Female 3" x Bulkhead Tank Fitting	32
NPT Male 1.5" x Bulkhead Tank Fitting	14
Plastic Gallon Bucket	10
Plastic Gallon Jug	20
PVC 3" x Slip Adapter	13
PVC Shower Liner/Membrane (5'x6')	44
Shower Arm & Flange	10
Shower Drain	20
Shower Head	26
Shower Mixer	40
Slip Joint Extension Tube	1
Toilet Seat	38
Valterra Single RV Waste Valve	63
Waterproof Peel-N-Stick Vinyl Tiles (60 sq. ft)	84

Electrical Roughing

Breaker Box	*30*
Cable Clamps	*7*
Circuit Breaker- AFCI/GFCI (6)	*77*
Drywall Anchors	*3*
Electrical Boxes 1-Gang (10)	*8*
GE Bonding Screw (2)	*2*
LED Canless Lights with Junction Box (6)	*79*
Load Center Ground Bar - PK7GTA Square D	*32*
Outlet Receptacles (10)	*40*

Plastic Nail-in Staples 3/4"	*3*
Protection Plates (50)	*31*
Romex Cable 25' 12/2	*26*
Romex Cable 50' 14/2	*42*
Wire Push Connectors (20)	*8*

HVAC

Air Exchanger	*1174*
Cooper & Hunter 9,000 BTU, 115V, 25 SEER, Mini Split AC/Heating system	*1200*
Dehumidifier	*110*
Rockwool 5.5" Insulation	*1600*

Piping, Tools, General Sealants

Fiber Mesh Tape	*5*
Liquid Nails	*3*
Nails 2" (75)	*14*
NPT Female Threaded Adapters Crimp Fittings 0.5" - to 0.5" PEX(10)	*19*
NPT Male Threaded Adapter Crimp Fittings 0.5" - to PEX 0.5" (10)	*20*
PEX 90 Degree Elbow Crimp Fitting (10)	*19*
PEX Crimp Rings 0.5" (50)	*16*
Pipe Strap Clamp 0.5" (10)	*8*
Pipes PEX Red and PEX Blue 0.5" with Cutter (100ft)	*63*
PVC 90 Degree Elbow 1.5"	*3*
PVC Pipe 3" (1')	*22*
PVC pipes 1.5"	*13*
PVC Purple Primer & PVC Cement Pack	*13*
PVC Wye 1.5"	*6*
Silicone Caulking (2)	*20*
Teflon	*1*

Rainwater Collection

Block with PVC Funnel Reducer	*11*

Flashing	*40*
Galvanized Roofing Nails	*8*
Garden Hose Tee	*7*
PEX 0.5" x FPT 0.5"	*10*
PEX 0.5" x Garden Hose Fitting 0.5"	*9*
Roof Sealant-Cement	*6*

Sink

Air Admittance Valve DFU	*24*
Basket Drain	*11*
Faucet	*30*
P-Trap 1.5"	*17*
P-Trap 1.5" (Swivel)	*9*
Pex Stops (2)	*8*
PVC Sanitary Tee 1.5"	*8*
Sink Bowl	*38*
Tail Piece	*4*
Wood Oil	*10*

Solar Panel System

Lithium Battery	*640*
Pure Sine Wave Inverter Charger 2000W	*580*
Solar Panel Z - Mounting Brackets (8)	*120*
Solar Panels 100W 500 Wh (12)	*800*
Solar Panels 800W 500 Wh (8) with Charge Controller	*1300*

Interior Furniture

*We are hoping to get these materials as in-kind donations, or second hand

Material	*Estimated Cost*
Barn Door 1.5" x 30" x 80"	*
Cabinet 1.5' x 2' x 3' (3)	*

Cabinet 1.5' x 2' x 2.5' (3)	*
Cabinet Handles 5" x 1.5" (8)	*
Cabinets Pocket Hole Screws 1.25"	*
Fridge 2.5' x 1.5' x 5'	*
Microwave Oven	*
Plywood 0.75" Thick (250 sq ft)	*
Plywood 0.25" Thick (60 sq ft)	*
Pull-Out Couch 3' x 7'	*
Stone Countertop 50" x 30"	*
Stools 2' (2)	*
Stove Plate	*
Window 1' x 4' x 10" (2)	*
Wood Kitchen Island 2" x 4" x 10' (8)	*

Structural Materials

Doors

Materials	*Estimated Cost*
Door Hinge (6)	*26*
Entry Door Knob (2)	*22*
Front Door Slab (2)	*328*

Exterior Walls

2x4 - 16' (4)	*36*
2x4 - 8' (65)	*218*
2x6 - 8' (6)	*42*
CDX Plywood (384 sq ft)	*317*
Galvanized Roofing Nails 1.25" (226)	*76*
Hardie Siding (594 sq ft)	*957*
Nail 10D (50)	*24*
Nail 16D (100)	*11*

Nail 8D (350)	*31*
Red Thermo - Ply Foil Poly Structural Sheathing (384 sq ft)	*167*
Strapping 1x3 (2)	*45*

Floor

Bralton Oak Vinyl (120 sq ft)	*398*
Underlayment (120 sq ft)	*178*

Subfloor

2x4 - 8' (22)	*269*
Flashing (140 sq ft)	*153*
Self tapping screws (226)	*52*
Sheathing (128 sq ft)	*97*

Interior Walls

2x4 - 8' (10)	*123*
CDX Plywood (128 sq ft)	*106*

Roof

2x6 - 10' (4)	*38*
2x8 - 12' (12)	*256*
Anti-rust Coating	*30*
Metal Roof Standing Seam (5)	*500*
Plywood Sheathing (192 sq ft)	*196*
Polyiso (192 sq ft)	*239*
Red Thermo-Ply Foil Poly Structural Sheathing (192 sq ft)	*84*
Roofing Nails (500)	*60*
Sheathing Clips	*38*

Flashing

Roll Flashing (80 sq ft)	*100*

Step Flashing (192 sq ft)	39
Tape Flashing (50 sq ft)	59
Windows	
Casement windows	3600
Trailer	
Flatbed Trailer (8.5'x16')	6550