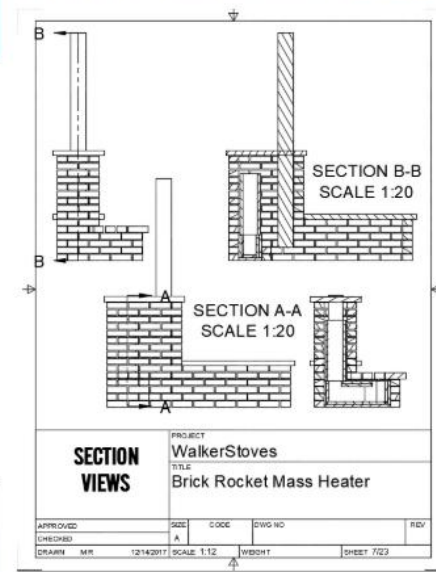
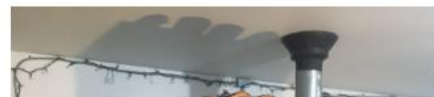
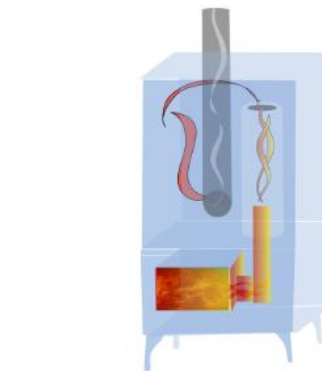
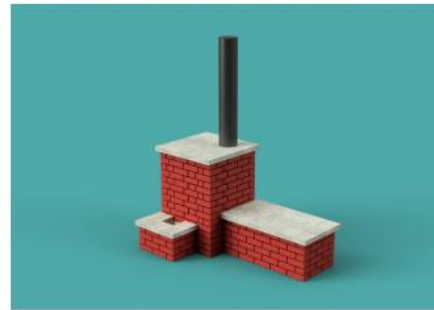


Matt Walker Ceramic core innovator in his own words

It all starts with the core. The Walker Stove® utilizes modern refractory materials and techniques to create a highly insulated burn chamber and combustion unit in a durable, modular core.

By insulating all around the burning fuel, and along the path the gasses travel beyond the fuel feed area, the heat of combustion is focused on the fuel until it is completely consumed. Rather than attempt to use heat from the combustion area to heat the space, the stove's cook top and bell, and any subsequent mass thermal storage, are downstream of the combustion areas. In this way, complete combustion is assured.

In 2015 Walker Stoves was chosen as one of 13 finalists in The Alliance for Green Heat and Popular Mechanics' Wood Stove Design Challenge. Since then, sharing these clean efficient wood burning stoves with as many as possible became the goal. With hundreds of examples in use all over the world, Walker Stoves® plans are sharing warmth.



Walker Super-Hot Shippable Rocket Stove, Rocket Mass Heater, Masonry Cook Stove Cores



are modular refractory cores that you can cut yourself using easy to follow plans. Representing not only a new approach to wood heat, but a new approach to delivering you the information you need to build the highest performance rocket stoves and mass heaters.

I have been seeking a way to share this wonderful technology with a wider audience, and have been stymied for years by various barriers. After years of testing this concept, refining the design, and working through the many roadblocks, the perfect rocket core is finally available, and can be easily built by anyone.

The Walker Super-Hot J represents the pinnacle of performance in J rockets. This design has been in development since early 2013. Time tested and proven a winner both in efficiency and durability, the Super-Hot J is constructed of highly insulated ceramic fiber board assembled simply into an inner core for your rocket stove or mass heater project. Using the non-flammable material of your choice, brick, cob, stone, backerboard and tile, aluminum, steel, etc., the core is simply surrounded and contained, creating a stove of ultimate performance and durability. Construction is simple, no special skills or tools needed. The board can be cut easily with a knife or handsaw. The firebox is lined with durable, replaceable, customer-supplied fire brick “splits”. Together these components give you the tools to create a stove or heater of incredible durability and performance with a minimum of hardware, fuss, or uncertainty.

- Matt Walker

walkerstoves.com/innovations/



Walker Super Hot Shippable Rocket Stove, Rocket Mass Heater, or Masonry Cook Stove Cores are modular refractory cores that you can cut yourself using easy to follow plans. Representing not only a new approach to wood heat, but a new approach to delivering you the information you need to build the highest performance rocket stoves and mass heaters.

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Tiny Masonry Cook Stove



кухонна плита Walker насправді набагато більше обігріває, ніж інша плита, і була розроблена

Tiny Masonry Cook Stove for Heating, Cooking, Hot Water

 broaudio
17K subscribers

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93,538 views Oct 19, 2017

Introducing the Walker Stoves Tiny Masonry Cook Stove. This wood fired stove features a stove top, oven, water heating, and space heating all in a small footprint.

This wood fired stove features:

- stove top
- oven
- water heating
- space heating all in a small footprint

youtube.com/watch?v=uajW0mzPBuk

youtube.com/watch?v=JKtyz4AKiig&t=42s

youtube.com/watch?v=JKtyz4AKiig

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Rocket Stove Build
Discussion

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Cooking on the Tiny
Cook Stove

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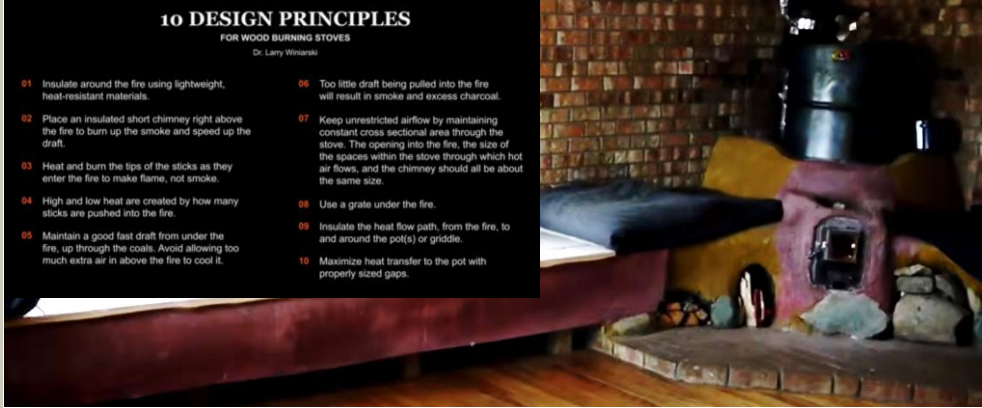
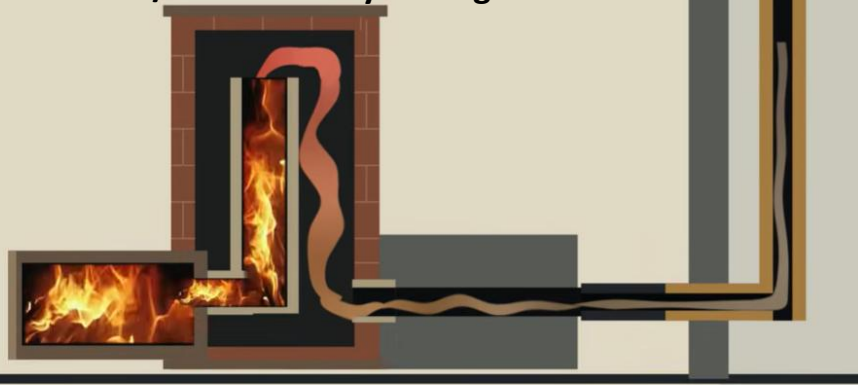


Walker Wood Fired
Masonry Cookstove
and Oven ...

broaudio

Matt Walker Looks Back

[youtube.com/watch?v=JKtyz4AKiig&t=42s](https://www.youtube.com/watch?v=JKtyz4AKiig&t=42s)



start with:
how I want to burn the fuel
where I need the heat
how the heater is going to fit into my life.
Then I can work out what shape it needs to be.

On this channel in the coming months:
What held up,
what I changed my mind about
what I'd do differently now.



The best heater
is one you can
live with

willing to question
the way we do heaters





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17K subscribers

Broaudio (Matt Walker) Discussions

Building a sauna with leftover materials

youtube.com/watch?v=b79tJKANvtY&t=174s

demonstrates building a J-Tube style sauna using scraps of ceramic fiber in a rocket stove, and build a stove to heat a sauna/shower room.

This video shows how the thermal mass can be inside the building, or part of the wall itself, with the rest of the stove outside.



CAUTION!

Working with Ceramic Fibers, Rock Wool, etc.

Handle ceramic fiber carefully.

- Use hand tools whenever possible.
- Frequently clean the work area with HEPA filtered vacuum or wet sweeping to minimize the accumulation of debris.
- Do not use compressed air for clean-up.

Wear industrial leather gloves and work clothes, which are loose fitting at the neck and wrists.

Where abnormally high dust concentrations occur, use appropriate PPE:

- As necessary, wear goggles or safety glasses with side shields
- NIOSH/FFP2 respirators should be provided for use on a voluntary basis
- For low dust concentrations Respiratory Protection is not required
- Soiled clothes should be cleaned to remove excess dust before being taken off (e.g. use vacuum cleaner, not compressed air).
- Wash work clothes separately

See Material Safety Data Sheet (MSDS)
for more safety guidelines & handling
protocols.

ceramicfiber.net/MSDSCeraTex.pdf

morganadvancedmaterials.com/media/1o4hzvnl/203-eu-english.pdf

Material Safety Data Sheet	
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name: Ceramic Fiber Textile (Cloth, Tape, Twisted Rope, Round Braid, Square Braid, Sleeve, Yarn) Chemical Name: Alumina-silica Fiber Trade Name: CeraTex	
Manufacturer's Name: Address (Number, Street), City, State, Zip, Country Emergency Telephone No. Telephone Number for Information Revision Date: 10/15/05	
2. COMPOSITION Comments: Alumina-silica Ceramic Al ₂ O ₃ 45%, SiO ₂ 55% Other components: Fiber	
3. HAZARDS IDH Route(s) of Entry: Respiratory	
Acute and Chronic Health: No increased incidence of lung cancer, lung disease, produced fibrosis, lung cancer, respiratory irritation, etc. Other Possible Effects: Irritation: If inhaled in a short duration. Eye Irritation: May cause Skin Irritation: May cause Gastrointestinal Irritation: Medical Conditions Aggravated: None	
4. PRECAUTIONS Respiratory Protection: Wear appropriate respiratory protection when working with this product. Use only when necessary for clean-up or repair work. Skin Protection: Wear protective clothing and gloves when working with this product. Eye Protection: Wear eye protection when working with this product. Other Precautions: Do not use compressed air for clean-up. Do not use open flame for clean-up. Do not use open flame for clean-up.	
5. DISPOSAL Waste Disposal: This product is not hazardous when disposed of in a landfill. Recycling: This product is not recyclable.	



broadio

17K subscribers

The Half Barrel System for Rocket Mass Heaters

youtube.com/watch?v=x3tAn3wcWkEwalkerstoves.com/innovationswalkerstoves.com

Developed around 2012, the half barrel system is a simple method of building hollow structures out of cob using half oil drums for arch forms. This is a fantastic method for bench construction, bell tops, arches, or any where curved support is desired in a cob structure.

A new way to build a rocket stove or a rocket mass heater that eliminates almost all of the expensive materials, speeds construction, and offers infinite configuration options.

I've built a pair of horizontal batch feed stoves here, a big inefficient recreational stove and a smaller, more efficient cooking stove. This technique could be used to build a traditional top feed, highly insulated, highly efficient stove as well as the big, windowed, long burning firebox



The Half Barrel System for Rocket Mass Heaters

youtube.com/watch?v=x3tAn3wcWkE
walkerstoves.com/innovations

.... put anything on top of this barrel:

- barbecue with a hole cut in the bottom
- pot of water
- cast iron pan
- small masonry oven fits on top

modular system:

- Infinitely adjustable
- easy to make
- don't need much clay.
- cheap construction materials
- builds quickly in just a few days.



I'd love to hear your ideas on this.

as cookers:

putting that hole in the top of the barrel and putting an adjustable baffle on there, you can use the heat you need to cook and then you can capture the heat you don't use.

And so for people who are taking these to other countries for humanitarian applications, I really would encourage you guys to think about this because it would allow people to get the smoky part of the burn out of the house, push a lot of the heat out of the house, but still cook over an open flame.



SuperHot J 6" Rocket Heater Core

walkerstoves.com/product/superhot-j-rocket-stove-core-plan-pdf/

What's included:

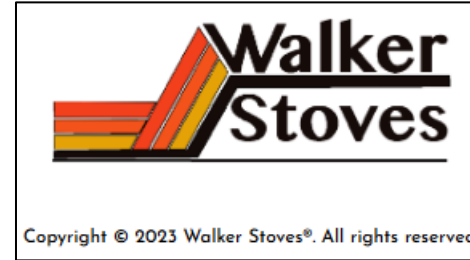
PDF Cut Plan with measurements and layout to cut Ceramic Fiber Board for a Walker Stoves SuperHot J 6" Rocket Heater Core.

\$55.00

plans cover the core only, rather than a complete stove or heater. Materials are sourced separately.

Materials required to build one complete core:

- (1.5) 1"x36"x48" Ceramic Fiber Board Sheets
- (6) Fire Brick "Splits" 9"x4.5"x1.25"



SuperHot J Eight Inch Core Cut Plan

walkerstoves.com/product/superhot-j-eight-inch-core-cut-plan/

What's included:

A PDF cutting plan with measurements and layout to cut ceramic fiber board for the SuperHot J eight-inch rocket heater core.

\$55.00

These plans cover the core only.

Materials and the surrounding stove or heater construction are separate.

Listed materials:

- (3) 1" × 24" × 36" ceramic fiber board sheets.
- (9) Fire Brick "Splits" 9" × 4.5" × 1.25"
- 26" × 24" × 1" ceramic wool.
- (1) Flue pipe or similar material, 24" long × 10" diameter.

Walker Riserless Core - 3rd year review of a Rocket Mass Heater



Futurecare Design

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427



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23,983 views Jul 31, 2022

A Rocket Mass Heater is a woodburning stove that heats up a mass of some kind during its burn time. The fire then goes out and heats you and your house from the stored energy. In this case we have a bench which acts as the 'battery', but other things have been used such as beds and walls.

<https://www.youtube.com/watch?v=A4z0u6-n4fU>

Album of our construction process:

<https://goo.gl/photos/GQMpLKVkdVKwUQws5>

Layout of the Core:

<https://goo.gl/photos/ULB5HNrv15Pt1rbh7>



це, е-е, Брахма Ван Овербейкер,
і я зроблю короткий огляд нашого

Walker Stoves: SuperHot Batch Rocket Core Plans

Use these PDF plans to lay out and cut ceramic fiber board for a Batch Rocket Heater core based on Peter van den Berg's design.

What's included

- Core cutting layout.
- Measurements for the ceramic fiber board components.

Listed materials

Three 1" × 36" × 48" ceramic fiber board sheets.

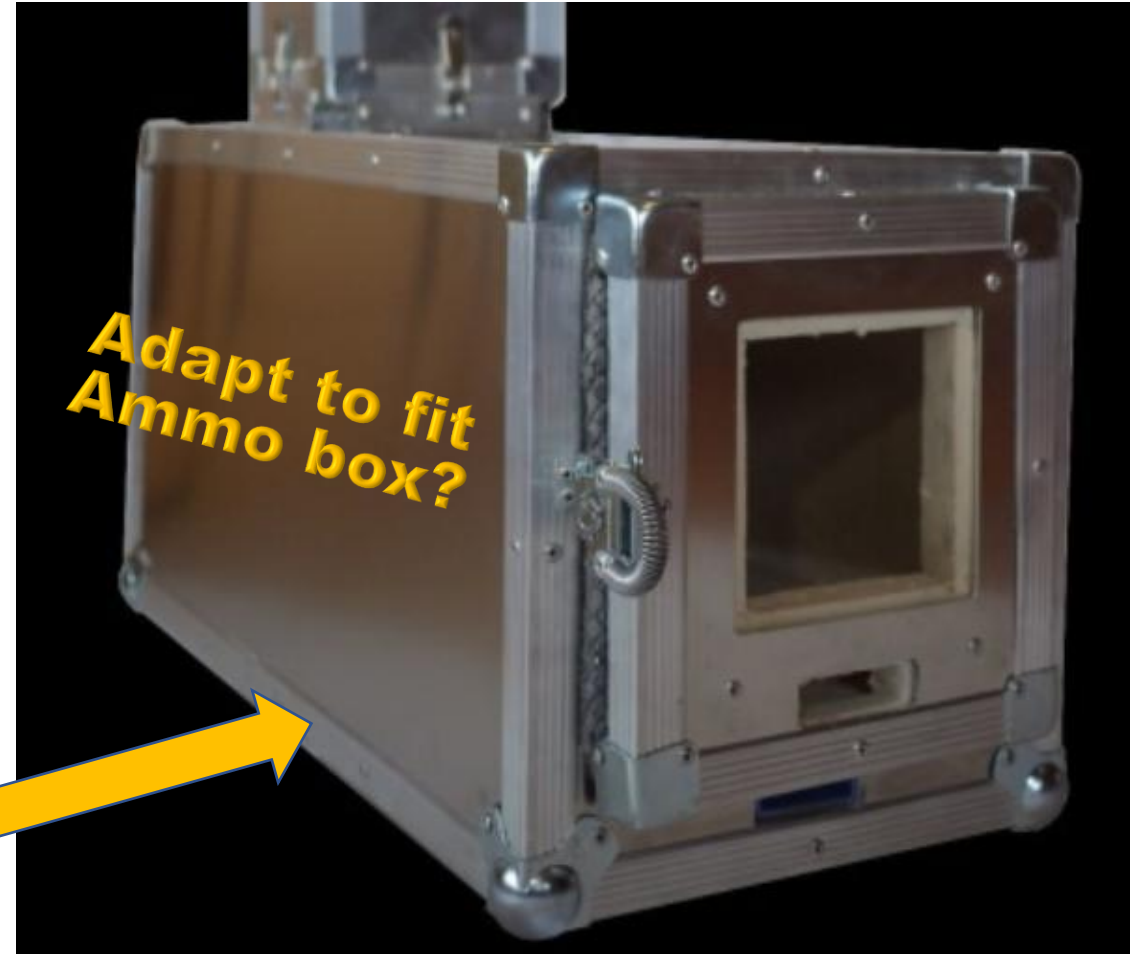
These plans cover the core only, rather than a complete stove or heater.

Materials are sourced separately.



J Tube and Batch Box Rocket Stove Comparison

youtube.com/watch?v=8zlrM_Ebggl&t=91s



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Assembling a J style rocket stove core



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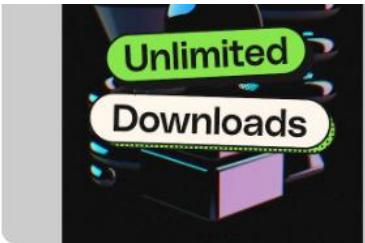
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11,763 views Apr 6, 2020
Please visit rocketstovecores.com for more information and to purchase a rocket stove core. For more of Matt's designs visit walkerstoves.com.
Thanks for watching!

youtube.com/watch?v=u_-kYGaRrpM&t=516s



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Rocket Kiln
Smokeless Firing
with Lisa Orr and ...
Building With Stoic
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Rocket Mass Heater
Batchbox First Test
Burn From Cold
BatchRocketProject
▷ 39K 8y ago



an indoor wood
cookstove made of
bricks and mud
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