HIGH-TEMPERATURE RESISTANT GEOPOLYMER PIZZA OVEN

Jason Learned

Geopolymer Camp 2015









...be surrounded by beautiful women





...have son



...build pizza oven

AND I STILL HAVE THEM AND MAKE THEM HAPPEN



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 I wanted to build more interesting and multifunctional pizza oven than the standard shown here



OVEN REQUIREMENTS

- · more than one way to heat the pizza oven
- utilisation of the smoke
- built in fireplace
- lighting
- long term cooking

WHY GEOPOLYMER?

- ease of use
- space requirements
- durability
- heat resistence
- density

- České lupkové závody a. s.
 - Baucis L 160 combined with KOH and water glass
- high silica sand (1/2 fine, 1/2 coarse)





· forms are painted with wax and sealed for one week





- · firebrick and insulation are separated from geopolymer with cling film
- brick base has sand foundation





- · walls and door are geopolymer
- vault is firebrick for replacability



- unmolded with electrical conduit installed
- thermal mass cap in place





- aluminum insulation layer
- tall form required extra bracing





- outer surround form
- putting in rockwool and perlit insulation



ready for steel





welding flue and base





- test firing
- after diamond sanding

COOKING





- pizza with coals
- roast beef in cleaned oven

IMPROVEMENTS



- precasting internal pizza oven bricks that fit together like LEGO's
- replacable plug directly above rocket stove
- wider hood

QUESTIONS?



THANK YOU!

