Greener Building for Better Living
You’ve heard of Green Washing?

Green-washing is where a company talks about being environmentally friendly but it’s mostly eye wash for PR purposes and to increase sales.

WHY?
The person who knows **HOW** will always have a job, the person who knows **WHY** will always be the Leader.

We have to know the “**WHY** not just the **HOW**”
Can you build a house on 14” of Foam?
AFI= Air Freezing Index

IRC has SLCO and Summit CO at the same AFI index. Understanding this information saved us 2k+ in unneeded concrete.

With the proper AFI, slab on grad monolithic foundations are the best option for High Performance/Passive Homes or Buildings.
What would a perfectly square foundation do for the building process and all trades?

What if it was 14” thick?
A Square Foundation will:

- Type IV EPS R4.5 per 1” @ 14” = R 63
  - Better Framing
  - Straight Walls
  - Operable Windows and Doors
  - Straight Drywall
  - Insulation/Air tightness easier to properly seal the building
  - Finish carpenters can actually do finish work
  - Tilers can’t blame anyone else
  - Painters will have clean corners
  - Eliminate “hide it in the drywall” issues
  - etc.
How much more money is it?
DAY 1 starting at 2:45pm ending at 6:45pm

Parallels pulled and lines set.

Entire footing perimeter and field set.
Day 2: 7am - 2pm, (1hr lunch)
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Day 2: Finish guys arrived at 4. Set perimeter foam, bar and simple 2x kicker. Finished by 6pm
Day 3: 7:30 pour, 2 trucks @ 9yrd last @ 5rds.
Total Costs:

- Excavation to native soil then - 6"
  - 2 14yd exports
  - 1 12yd washed ¾ crushed @ 3", ½ compaction
  - 1 12yard washed pea gravel @ 3”. no compaction due to.
  - Graded to ~¼"

- Plumbing sub rough:
  - Bottom of ¾ is as low as they need to go
  - Roughed and pressurized in 2 ½ hours, inspection at 3pm same day

- Install Foam:
  - 3 guys
  - A new hire has never been on a construction site

- Concrete Finish guys.
  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
  - How many days for footings, walls and then pad
  - Issues with footings and walls being totally out of square
  - Finish guys are by sqft or pad area.
  - Finish guys were on site 2 hrs first night setting bar and kickers
  - 5 hrs following morning at 7:30 am

- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
- 1 Pour: 3 trucks
Total Costs:

- **Excavation to native soil then - 6”**
  - 2 14yd exports $230 a truck
  - 1 12yd washed ¾ crushed $320 @ 3”, ½ compaction $64
  - 1 12yard washed pea gravel ($300) @ 3”. no compaction due to.
  - Graded to ~¼” (2 hrs @ $128hr)

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  - Bottom of ¾ is as low as they need to go
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  - 1 12yard washed pea gravel ($300) @ 3". no compaction due to.
  - Graded to ~¼" (2 hrs @ $128hr)
- Plumbing sub rough: Permit $124. Labor and materials $1100
  - Bottom of ¾ is as low as they need to go
  - Roughed and pressurized in 2 ½ hours, inspection at 3pm same day
- Install Foam:
  - 3 guys
  - A new hire has never been on a construction site
  - 2 $15 hr guys @ 10hr each. I always work for free.
- Concrete Finish guys.
  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
  - How many days for footings, walls and then pad
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- Install Foam:
  - 3 guys, Me Free:
  - A new hire has never been on a construction site. 2nd guy Labor
  - 2 @ $15 hr guys @ 10hr each. I always work for free.

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  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
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- **Concrete Finish guys.**
  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
  - How many days for footings, walls and then pad. Interest every day of not building. We are able to start framing in 7 days npt 3 weeks.
  - Issues with footings and walls being totally out of square
  - Finish guys are by sqft or pad area.
  - Finish guys were on site 2 hrs first night setting bar and kickers
  - 5 hrs following morning at 7:30 am
- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
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- Concrete Finish guys.
  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
  - How many days for footings, walls and then pad. Interest every day of not building. We are able to start framing in 7 days npt 3 weeks.
  - Issues with footings and walls being totally out of square.
    - We were 1/16" out of square when we finished setting the foam.
  - Finish guys are by sqft or pad area.
  - Finish guys were on site 2 hrs first night setting bar and kickers
  - 5 hrs following morning at 7:30 am
- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
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  - Finish guys were on site 2 hrs first night setting bar and kickers
  - 5 hrs following morning at 7:30 am
    - Costs for finish guys, $1650

- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
- 1 Pour: 3 trucks
Total Costs:

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  - 5 hrs following morning at 7:30 am
    - Costs for finish guys, $1650
- **1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge**
  - $500
- **1 Pour: 3 trucks**
Total Costs:

- Concrete Finish guys.
  - NO Foundation/Forms onsite. All of the mess and trailers that brings.
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    - Costs for finish guys, $1650
- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
  - $500
- 1 Pour: 3 trucks
  - Mud was engineered w/ micro fibers special blend, Lue from Staker Parsons knows exact formula. $138 yrd w/ tax
  - 23 yards = $3174
Total Costs:

- Excavation
  $$3660$$
- Plumbing sub rough
  Permit $124. Labor and materials $1100= $1224
- Install Foam:
  $$300 + \text{misc.} \cdot 679 = 979$$
- Concrete Finish guys.
  $$1650$$
- 1 Pump for 2 hrs. Yard is in NSL. 1 hr drive 1 hr pour. Minimum charge
  $$500$$
- 1 Pour: 3 trucks
  $$138 \text{ yrd w/ tax @ 23 yards} = 3174$$
- Foam per home
  $$5188.68$$

Total: $$16,375.68$$
A Square Foundation will:

- Better Framing
- Straight Walls
- Operable Windows and Doors
- Straight Drywall
- Insulation/Air tightness easier to properly seal the building
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What’s next?