

RASTRA is the ultimate building solution for economical and environmentally-friendly construction. RASTRA is the solution for this century to build environmentally conscious, energy efficient buildings that provide a safe and healthy living environment. **Over 9 million units in service worldwide.**

Basement Walls

Strength, fast installation and thermal performance make RASTRA the ideal solution for basement walls.

Energy Efficient

RASTRA's superior thermal performance greatly reduces heat loss and lowers energy consumption in the basement where up to 40% of the home's heat loss occurs.

Thermal Mass allows RASTRA to work in harmony with HVAC systems by storing heat and then releasing it back into the space as needed. Because standard ICF systems isolate the inner core by installing half their insulation between the wall's core and interior, the ability to take advantage of the Thermal Mass is almost eliminated.

Cost Effective

Large 12.5 square foot RASTRA panels stack up easily and quickly. Unlike poured walls, RASTRA doesn't require forms that take time to erect and tear down and must be left in place as the concrete cures. Once concrete is added to our walls work can continue within just a few hours. RASTRA also requires 1/3 less concrete than the average poured wall.

If you prefer, RASTRA can deliver pre-assembled wall panels for projects on a fast tract. An average sized basement constructed with pre-assembled walls is usually completed in less than one day.

Strength

Superior strength is expected from a wall system made of steel reinforced concrete. Dynamic shear tests found RASTRA capable of withstanding Magnitude Level 8 earthquakes

Indoor Air Quality

The unique composition of RASTRA enables better control over indoor air quality. Because RASTRA does not hold or wick water or create condensation from cold wall surfaces like poured concrete or block, RASTRA will not promote or sustain mold and mildew.

Basements present a challenge to keep dry and as a result are breeding grounds for mold. If framed walls are used to finish a basement the conditions become even worse. The interior wall cavity of wood framed walls in a basement creates ideal conditions for mold growth. RASTRA panels accept a direct layer of plaster or drywall applied directly to panels, eliminating the need for framing and wall cavities.



Environmentally Friendly

RASTRA is 85% recycled Styrofoam, which would otherwise be taken to landfills never to decompose. The use of Styrofoam waste not only provides a superior layer of insulation to the basement wall, it requires 1/3 less concrete than poured walls.

Building with RASTRA reduces energy consumption, and with energy savings comes environmental benefits. Specifically, the reduction of fossil fuels burned to create energy.

RASTRA panels are 100% recyclable.

Insects

Unlike foam panel ICFs that attract insects, the high alkaline content of RASTRA creates an undesirable environment for insects including termites and carpenter ants. There are no foam panels for insects to use as they tunnel to migrate and nest, allowing RASTRA to be used below grade.

Comfort

Being in a RASTRA basement doesn't feel like other basements. Damp air and echoes typically found in block or poured basements are eliminated. The sound absorbing feature of RASTRA makes it a ideal wall solution for media and theater rooms.

Code Compliance

RASTRA satisfies the International Code Council (ICC), Legacy Report ER-4203, ER-9955 (SBCCI), and UL classified under design U915 for commercial and residential applications.

Contact

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