

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 sold worldwide.**

PanelCrete™

PanelCrete™ is an extension of the RASTRA product offering and heart of the RASTRA Exterior Finish System. Flat panels made of polystyrene (EPS) concrete are engineered into panels that create a proprietary exterior wall system. PanelCrete solves the problems associated with exterior wall construction of today's state of the art designs and historical buildings of all ages.

PanelCrete provides superior wind and fire resistance, offers tremendous flexibility in design, can be pre-fabricated to exact specifications or shaped in the field to meet virtually any requirement using common woodworking tools. Polystyrene concrete is also puncture/vermin resistant.

This is the first exterior wall system to solve the drainage problem associated with virtually all other wall systems. Polystyrene concrete does not hold or wick water, quickly and completely self drains and is not affected by freeze-thaw cycles.

PanelCrete utilizes a waterproof membrane, which is applied directly to a cement-based sheathing. Should the finish on the face of a panel become damaged or window or other openings leak, all water entering the polystyrene concrete is quickly drained through a weep system built into this substrate, preventing water from reaching the building. The PanelCrete substrate has a porous structure making it an "open rain screen" and avoids buildup of any differential pressure in the wall system.

With an R-value of almost 2 per inch of thickness, R-values in excess of 20 for common framed walls are achieved by insulating the cavity of the wall assembly.

Practically any finish or cladding can be applied to PanelCrete. It can also be made to look like pre-cast concrete, wood, brick, stone or stucco with a wide variety of finishes from which to choose. And since it is made from real concrete with polystyrene aggregate instead of stone, PanelCrete is lightweight.



Millwork

There are unlimited applications for decorative panels and millwork made of EPS concrete due to the outstanding workability of the raw material. The end result is a decorative product which is non combustible, freeze resistant, dimensionally stable, accepts all types of stucco, does not age, and is easy to install.

Almost any shape can be milled from standard blank components allowing RASTRA to produce orders quickly and cost effectively. There is no need for



expensive molds and only minimal tooling costs.



Decorative units come in many forms - either in structured panels to be mounted on frames, brick walls, concrete or

other substructures, ornaments in straight or round ledgers or other forms to fit the design perfectly.

PanelCrete millwork has been used extensively in new construction as well as to restore deteriorating and war damaged historic buildings throughout Europe including Berlin, Prague, Moscow, Budapest and London.

RASTRA is an ecological sound building material, consuming recycled raw materials, taking them permanently out of the waste stream and producing a healthy living environment.