

## The new System 2000

- Formwork elements in expanded polystyrene (fire retardent material).
- Suitable for all walls where thermal insulation is required.
- k-values (rate of heat transmission):  
 25 cm-Internal wall element  
 31 cm-External wall element  
 37 cm-Thick wall element  
 43 cm-Super thick wall element
- Energy-saving - and a world beater in conservation for solid wall construction.
- 37 cm and 43 cm - walls suitable for Passive Houses (i.e. Housing without Heating).
- Perfect, fully developed product range:  
 Elements with insulated bridges and wire bridges  
 18.75, 25, 31.25, 37.5 and 43.75 cm wall thicknesses available.  
 Components eliminating thermal bridging for corbels, floor perimeters, roller shutters, bay windows, round corners, curves and similars available.  
 Complimentary systems for Stairs-, Floors-, Underfloor Heating - and Roof Insulation panels.
- For structures up to 10 storeys.

**ISOROST**  
 Energiebewußte Bausysteme.

# The Building Process



1. The lightweight isorast-elements simply fit together in a modular grid of 6.25 cm.



2. With the isorast saw or hot wire cutter, components are easily cut to size.



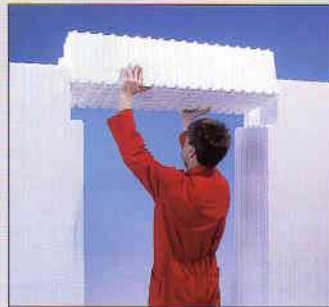
3. Openings at wall ends, corners and T-junctions are closed with end pieces.



4. 135° corners fit together without thermal bridging using the isorast corner block.



5. Curved walls in any radius and in all thicknesses are possible with isorast curved blocks.



6. The isorast lintel or roller shutter is placed over window or door openings.



7. The insulation detail at windows reduces heat loss through the window frame.



8. Arches: The shape of the opening is cut and a metal sheet inserted to act as a curved shutter.



9. Stairs: isorast stair trays are inset into the wall and concreted when the wall is filled.



10. The isorast floor edge block eliminates thermal bridging.



11. With the isorast prop and screw support system, the wall is held in the vertical position.



12. Concreting with the isorast nozzle and ready-mix concrete or dry concrete from the silo.



13. Floors: isorast lightweight beams and insulation infill panels are covered with a concrete topping.



14. isorast roof insulation panels are nailed on to rafters and then tiles overlaid. U-values up to 0.1w/m<sup>2</sup>K are possible.



15. Basement external wall: trowel applied bitumen compounds; plaster (render).



16. Forming service chases in minutes is possible with the isorast hot wire cutter.



17. Lightweight fixings with the Isodübel plug into insulation foam; heavyweight fixings into concrete.



18. Interior tile fixing without prior plastering; applied directly to the isorast wall.

**Isorast 2000 - EPS Building**  
[www.isorast2000.com](http://www.isorast2000.com)

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