

## INTRODUCTION PRODUCT / TECHNOLOGY - DETAILS

**Neither wood nor sustainable natural fiber based building materials are available worldwide which have comparable complex multifunctional properties and multi-purpose application opportunities like STROPOLY®TEC products.**

### SELECTED PROPERTIES & WORLDWIDE UNIQUE SELLING POINTS:

- S** WITH 200 UP TO 350 KG/M<sup>3</sup>: STROPOLY®TEC IS VERY LIGHT BUT STATIC AND MECHANICAL LOADABLE ⇒ STROPOLY®TEC ELEMENTS CAN BE USED AS SELF-SUPPORTING OUTSIDE WALLS
- S** WITH 0.040 – 0.044 W/MK : VERY GOOD INSULANT AND ALSO FULLY-FLEDGED BUILDING MATERIAL
- S** WITH THICKNESS SWELLING ≤ 1%: VERY GOOD MOISTURE AND WEATHER RESISTANCE
- S** VERY GOOD SORPTION PROPERTIES AND EXCELLENT FAST DRYING ABILITY
- S** GOOD THERMAL CAPACITY AND THERMAL STORAGE CAPACITY
- S** BUILDINGS CONSTRUCTED WITH STROPOLY®TEC ELEMENTS HAVE A HIGH STABILITY AND SELF-FLEXIBILITY ⇒ PREDESTINATED APPLICATION IN EARTHQUAKE-PRONE AREAS
- S** SANDWICH ELEMENTS = MANUFACTURED IN ONE PROCESS STEP AS HYBRID-MONOLITHIC MATERIAL
- S** BREATHABLE AND WATER-VAPOR PERMEABLE ⇒ TAKE CARE FOR A HEALTHY ROOM CLIMATE
- S** FREE FROM FORMALDEHYDE EMISSIONS – FORMALDEHYDE EMISSION = 0 (CLASS „EO“)
- S** MATERIAL-BORNE GOOD SOUND-ABSORBING PROPERTIES
  
- S** STROPOLY®TEC PRODUCTION PLANTS ARE VERY ENERGY-EFFICIENT AND PRODUCT-FLEXIBLE
  
- S** STANDARD MEASURES STROPOLY®TEC BASIS AND SYSTEM ELEMENTS
  - S** BOARD THICKNESSES: 80 UP TO 450 MM (BASIC) AND 120 UP TO 450 MM (SANDWICH)
  - S** LENGTH: 5,700 MM; WIDTH: 2,250 MM (BASE SIZE)

