



Introducing:

PAVACAST™ – Insulated Structural Walling System



Natural  
Building  
Technologies

# INTRODUCTION



Founded 1997 in Oxfordshire, Natural Building Technologies are now part of the Soprema Building Products Group.

NBT are the UK marketing and distribution business of the Pavatex wood fibre insulation business that was bought by Soprema in June 2016.



# WATERPROOFING & INSULATION SOLUTIONS FOR THE BUILDING ENVELOPE



**SOPREMA**  
GROUP



**1** WORLDWIDE LOCATION



**59**  
MANUFACTURING PLANTS

**13** RESEARCH & DEVELOPMENT CENTRES



**7 187** EMPLOYEES  
all over THE WORLD

**2.63**

BILLIONS EURO  
OF CONSOLIDATED TURNOVER  
IN 2017

A presence in  
90 countries

**22**  
TRAINING CENTERS  
IN 5 COUNTRIES

**90** subsidiaries

**22**  
WATERPROOFING FACTORIES

**1** GEOTEXTILE FACTORY



**6** WORKSHOPS THAT MANUFACTURE STEEL FRAMES

more than  
**4 000**  
distributors

**19**  
INSULATION FACTORIES



**1**  
MASTIC AND ADHESIVES FACTORY

**9**  
SMOKE EXTRACTOR FACTORIES

# OUR OFFERING.....

- Combination of:
  - Technical expertise in structures and thermal performance
  - Construction experience
  - Distribution and logistics capabilities
  - Marketing expertise
- Complimentary products for longevity of building life and maximised thermal performance
- Marketed and sold through NBT in UK – Soprema Group Internationally.
- BBA Approved systems for structure and external finishes
- Supply and fix of whole superstructure including:
  - Foundations and External Walls
  - Internal loadbearing walls and mid floors
  - Roof, windows, external insulation and finishes

# Introducing Pavacast™ System - Structure

Patented technology

Simple, fast and economical

Compatible with any design, low and high rise projects and architectural requirements

Panels produced in factory conditions

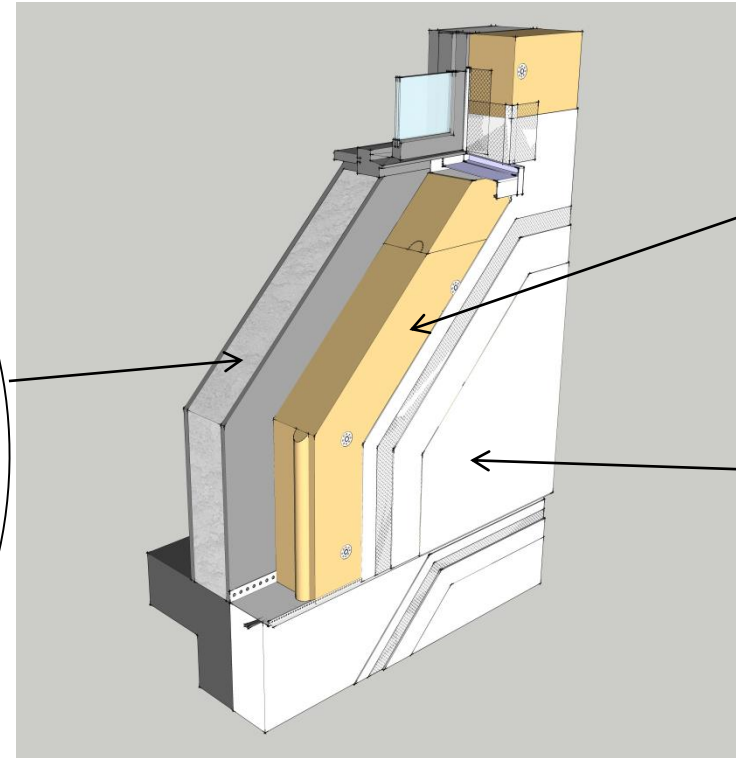
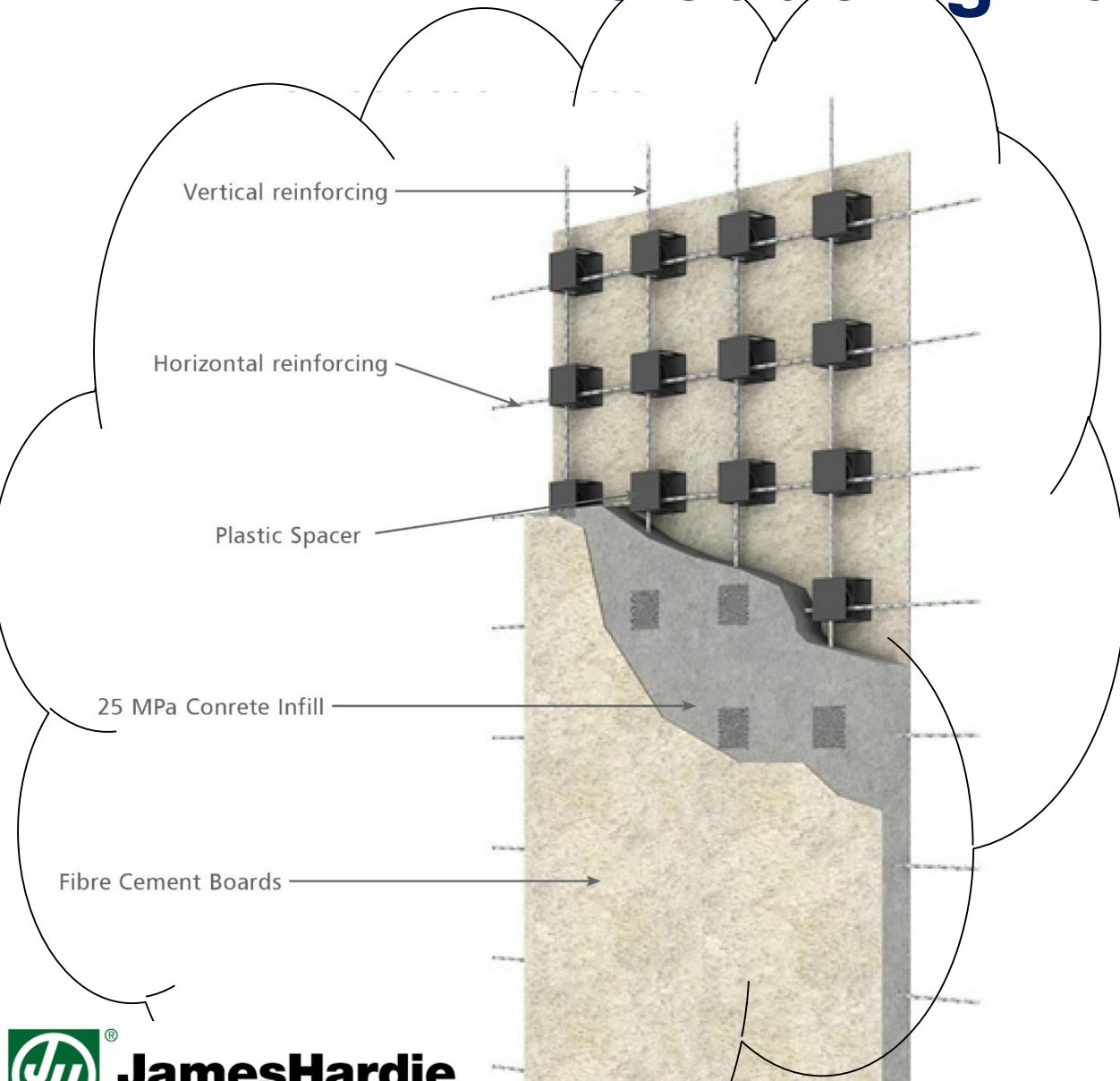
Pre-fabricated modular system forming load bearing & non-load bearing walls

Remote progress monitoring via bar code system

Erected on site forming a pre-decorated wall



# Introducing Pavacast™ System



# Introducing Pavacast™ System - Thermal

Natural Insulation – “Nature Plus” approved

Wood fibre insulation manufactured from wood chippings

BBA Approved insulation and render system – Class A Fire rated finish

Tongue and groove board edges to avoid heat loss

High density insulation increases sound performance, mitigates summertime overheating and enhances building robustness

Moisture active insulation allows speedy construction drying and negates condensation risks



# Introducing Pavacast™ System Quality Assurance

Supply and fix by trained operatives

Ongoing supervision and inspection during site operations

Bar code system to ensure correct location of wall panels

Post pour inspection to ensure reinforcement and compaction

Sign off process by Pavacast™ at conclusion of each stage of installation

System longevity - lifetime performance





# Associated Systems

Insulated Raft Foundations – EPS/XPS



**EFYOS**  
by SOPREMA

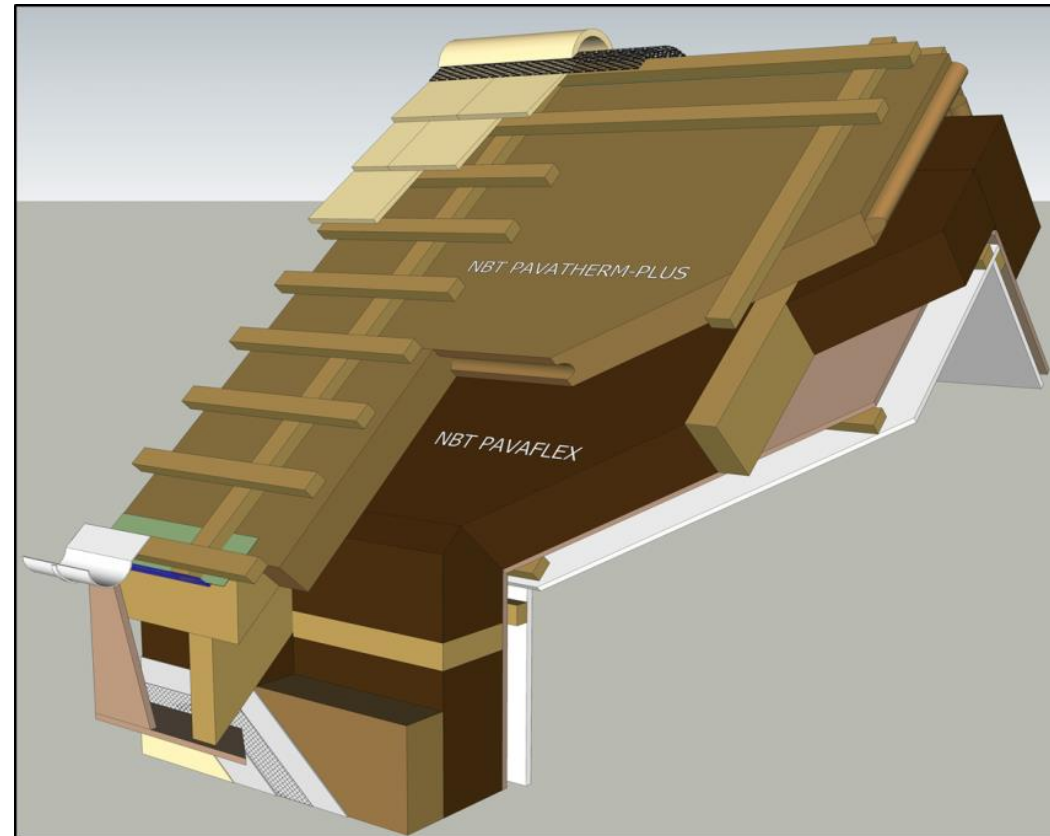
# Associated Systems

Pavacast™ mid floors



# Associated Systems

Timber truss roof – externally insulated with wood fibre for optional room in the roof



# Typical Construction Package

Insulated Raft/Strip Foundations

External Walls

Internal Loadbearing Walls

Mid Floor

Roof

Windows

External Wall Insulation & finish (render/brick slip/timber etc.)

Internal Drylining and finish

# Benefits to Client/Developer

Reduced requirement for skilled labour.

Wet Trades eliminated, Minimal Wastage.

Straight-to-finish internal and external walls.

Speed of construction

High quality durable finish

Demonstrable primary energy requirement (£0.47/day based on SAP)

BBA Approved systems for structure and EWI

# Conclusion

An innovative design and build system merging concrete strength and durability and CO<sub>2</sub> reducing insulation

Advanced construction process, rooms ready for first fix M&E.

High thermal performance reducing fuel poverty – as built as well as designed

Scalable in terms of performance - easy to improve further

Robust – difficult to damage

Requiring minimal maintenance

Speed of construction

Easily adaptable with established construction programmes