



imisonTM
CERTIFIED CONSTRUCTION STANDARD

IMISON WALLING BY MARKET SECTOR







IMISON COMPARED WITH BRICK WALLS

Imison's walling technology offers a balance between environmentally sustainable materials and a high quality end-product.

Imison has gained recognition in the construction industry for offering the highest levels of insulation, strength, consistency and simplicity, whilst remaining cost effective.

(Refurbishment and New Buildings)	 imison ™ CERTIFIED CONSTRUCTION STANDARD	
WEIGHT/M2	95 kg/m2 to 105 kg/m2	250 kg/m2 to 505 kg/m2
SPEED	Minimum 30% - 50% faster than conventional brick build.	Slow, labour intensive. Additional delays where engineering and propping of the building is required.
R- VALUE	R 3.7	R 0.5
ACOUSTIC PERFORMANCE	45 dB (Rw)	36 dB (Rw)
SAVINGS ON ENERGY COST	Up to 80%.	None, energy inefficient.
WASTE	Under 5 %	Up to 15%
MATERIAL HANDLING COST	Easily/manually moved on-site without the need for heavy lifting equipment. 50% reduction in handling costs typically associated with conventional brick build.	Requires crane handling on multi-story buildings, very labour intensive if moved manually. Requires vast storage space and security to prevent shrinkage.
P&G's	50% saving in P&G's due to significant increase in speed of delivery.	P&G's for conventional brick build averages around 10% of total build cost.
STRENGTH	40kg point load. Proven to outperform conventional brick build performance under fire from large calibre bullets.	Minimal point load. Inferior performance under fire from large calibre bullets.
DURABILITY	Moisture and damp resistant, mould resistant and rodent proof.	Absorbs moisture, inconsistency in production and plaster results in damage from tenants (door handles, moving furniture, plumbing leaks and overflowing baths).
SUSTAINABILITY & JOB CREATION	Made with recycled material. Up to 95% local and un-skilled labour can be trained on site. Panels are light and allow woman to be employed on job site.	Little or no recycled material. Requires maintenance and treatment (face brick). Skilled labour for erection and installation.
EARLY OCCUPATION	Project execution can be as much as 70% faster than with conventional brick build resulting in earlier tenant occupation, accelerated returns, increased rental income and margins.	Limited to long construction build programmes.



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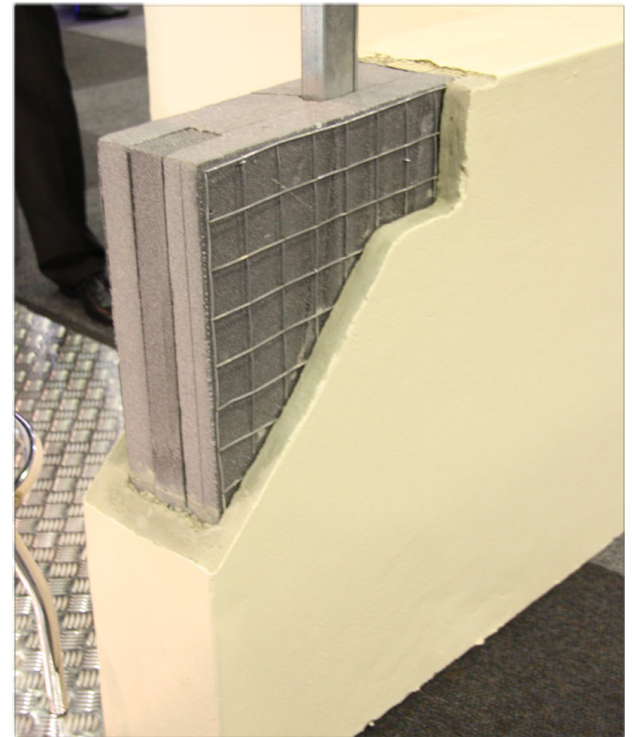
The Technology

IMISON is a walling technology, consisting primarily of Neopor or EPS, light gauge steel studs, and a high density plaster called Fibrecote. The system offers numerous advantages over conventional construction methods, including speed, superior strength, and quantifiable environmental benefits.

Lightweight materials mean that the technology can easily reach rural and underdeveloped areas that cannot be reached with conventional building materials. No specialised equipment is required for assembly of structures.

It is also possible to use a high percentage of local, unskilled labour to erect the structures, thereby making the technology community friendly, and stimulating local economies.

The system has been successfully used across all sectors of the construction industry, ranging from affordable to luxury homes, hotels, schools, police stations, banks and commercial buildings.

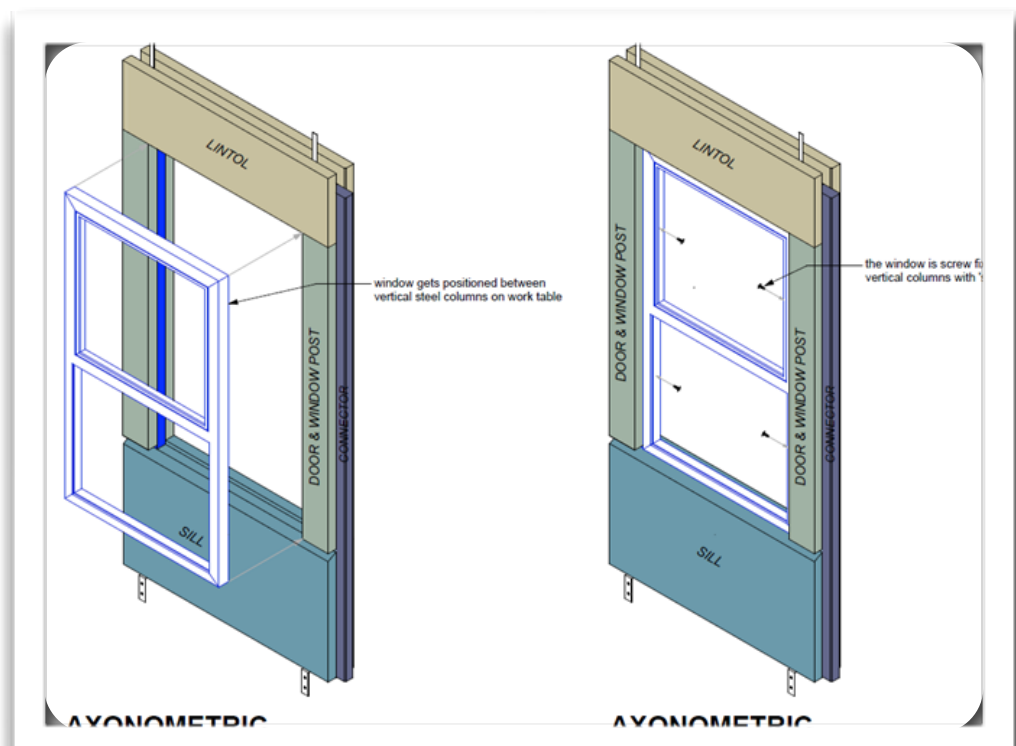
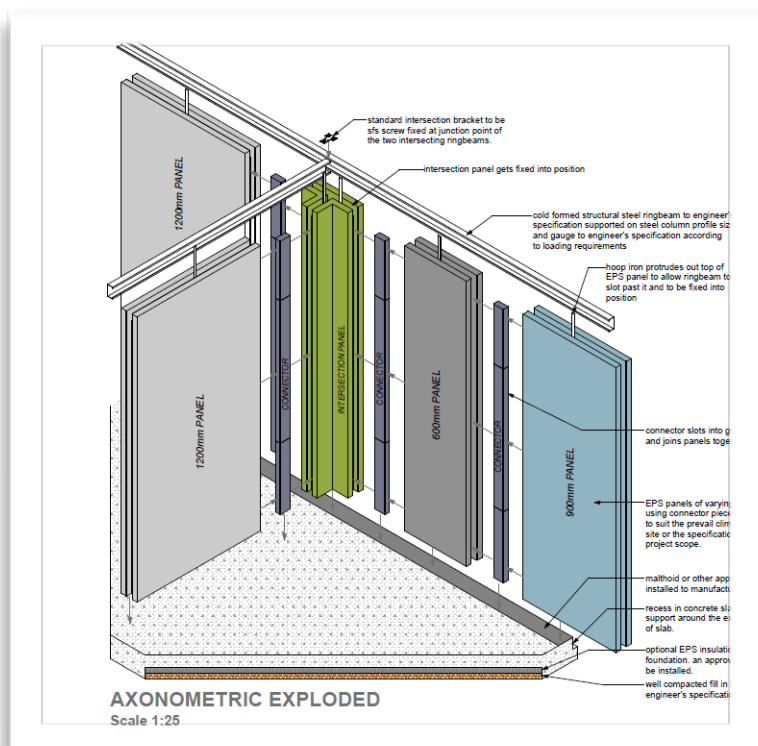


Neopor® Panels

Neopor is a patented technology invented by BASF. It is composed of graphite enhanced EPS, which is precision cut into Imison panels. Neopor® is an outstanding insulation material, which does not contain CFCs, HCFCs, or other halogenated cell gases. In stead, Neopor consists of 95% oxygen, with the remainder being carbon and hydrogen. Imison panels are light weight, moisture resistant, non-toxic and thermally superior to conventional construction materials.

Steel Studs

As illustrated below, Light gauge steel studs are inserted into Imison panels, and can be fixed to any foundation, providing support for the structure. A steel ring beam is inserted on top of the columns to carry and spread the roof load or the weight of a slab above.





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NEW BUILD - MULTI STORY PROJECTS

MDS ARCHITECTS - 4 STAR GREEN RATED BUILDING





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STUDIOS @ BURNETT - UNDER CONSTRUCTION





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INNER CITY REJUVENATION

Multi Floor: Commercial to Residential





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FRANK'S PLACE - CITY PROPERTY.





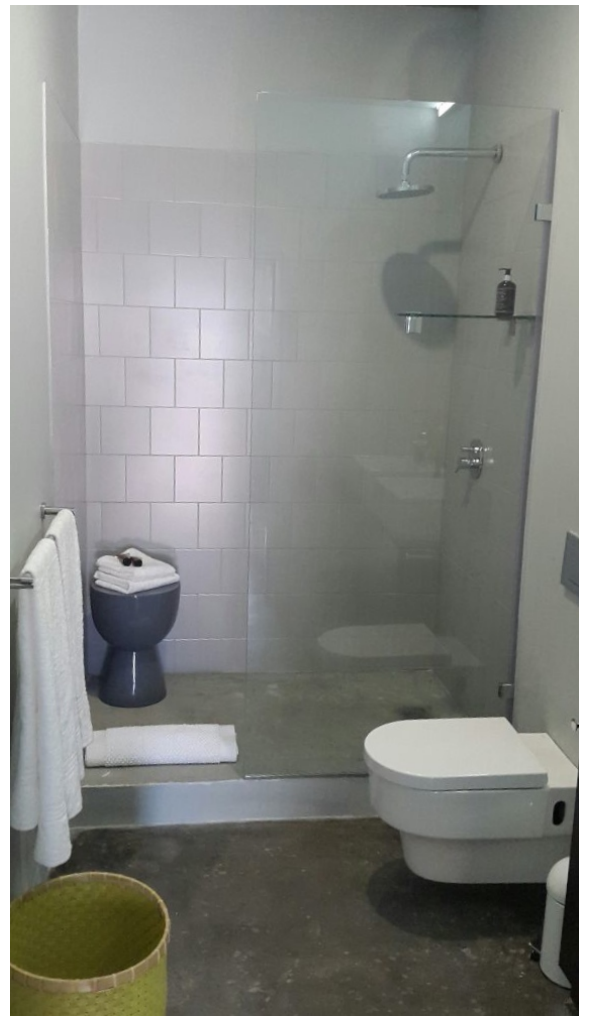
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HALLMARK TOWERS - MABONENG





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LUXURY RESIDENTIAL





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LOW COST HOMES



AFFORDABLE HOMES





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SCHOOLS - RURAL & CITY





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MINING AND REMOTE PROJECTS





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CONTINUOUS RESEARCH AND DEVELOPMENT



- Sound Performance
- Insulation & Weather Performance
- Fire characteristic categorisation

