



THE OLDEST AAC MANUFACTURER IN THE REGION

HENNER is the oldest and leading autoclaved aerated concrete (AAC) manufacturer in Malaysia and Singapore. The company commenced operations in 1995 under the Australian group CSR Ltd and in late 2011 was acquired by Saint-Gobain, a French multinational company. In 2017, the operation was acquired by Kim Hoe Thye Industries Sdn Bhd with combined capacity of 360,000m³ per year with the existing plant in Muar.

ESTABLISHED IN 1995

INTERNATIONAL QUALITY STANDARDS

As the leading manufacturer of AAC products in Malaysia, HENNER's fully automated plant in Senawang, Negeri Sembilan is capable of manufacturing AAC products such as blocks, reinforced panels, lintels, and staircase that meet local and international quality standards.

QUALITY AND INNOVATION

MAKING A TRUE DIFFERENCE

In line with our core values, we are strongly committed to an ongoing focus on quality and innovation. Through our relentless effort to deliver better products and solutions, customers can be assured of value and proven performance when building with HENNER products.

CERTIFICATION



CIDB IBS CERTIFIED
SINGAPORE GREENLABEL
SIRIM ECO-LABEL
ISO 9001:2008 QUALITY SYSTEM
ISO 14001: 2008 ENVIRONMENTAL MANAGEMENT SYSTEM
SIRIM PRODUCT CERTIFICATION
SIRIM MODULAR COORDINATION
MYHIJAU CERTIFICATION

TESTIMONIALS



TESTIMONIAL
FROM CONSTRUCTION
COMPANY

“

... we would highly recommend using HENNER AAC BLOCKS and its accessories to any company looking for IBS wall system to quickly and efficiently meet their project needs ...

”

SUIZIANA MOHD SAYUTI
LSB CONSTRUCTION SDN BHD

“

We have been using HENNER products over 5 years. We are very satisfied with the HENNER customer support, professionalism and overall.

”

RAJA NOR AZURA RAJA YUSUF
QUANTITY SURVEYOR, ARH JURUKUR BAHAN S/B



TESTIMONIAL
FROM QUANTITY
SURVEYOR

“

HENNER is a very well-known company for AAC blocks product.
 They can deliver successfully in a big or small projects. They maintain the professionalism between client and consultants ...

”

NOORAZIATI KHAIRIAH BINTI HAMZAH
DESIGN ARCHITECT, SIMPLEX ARCHITECT & ASSOCIATES



TESTIMONIAL
FROM DESIGN
ARCHITECT



Our goal is to assist our customers to make the best use of our products through effective and responsive support, active advocacy, and proactive assistance by our experienced sales and technical teams.

TECHNICAL SUPPORT 

**FROM EVERY
PERSPECTIVE** 





TECHNICAL TRAINING

HENNER is committed to providing customers with the training required to get the most out of our products.



ON-SITE TRAINING

Customers are provided with free on-site training to meet all operational and maintenance needs during installation.



TESTING FACILITY

We have state-of-the-art equipment for testing to ensure that all our products are dependable and are of the highest quality.



CERTIFICATION

Our products are certified by SIRIM and SETSCO. Our customers can be assured of value and proven performance when building with HENNER products. Quality and safety are our hallmarks.



HENNER AAC SOLUTIONS

We offer a wide range of walling solutions that are fast, superior quality, cost efficient, versatile, and environmentally friendly. In Malaysia, our walling system has been the preferred choice for many green and energy efficient projects.

5

1. ROOF PANELS

HENNER Roof Panels consist of reinforced AAC floor slab. They are load bearing and provide excellent thermal insulation.

2. LINTEL

HENNER Lintel consist of reinforced AAC. They allow uninterrupted AAC block-laying to continue over doors and windows opening.

3. FLOOR PANELS

HENNER Floor Panels consisting of reinforced AAC are ready to use as prefab slab elements which have full load-bearing capacity on delivery. Lengths up to 6 metres are available. No formwork or bracing is necessary.

4. BLOCKS

HENNER AAC Blocks are used in both internal and external applications, either as infill or load bearing walls.

5. WALL PANELS

HENNER Wall Panels can be used for external and internal infill walls. They can be installed either vertically or horizontally and consist of reinforced AAC.

6. MORTARS

A wide range of renders, skimcoats and finish can be applied to HENNER walls.

HENNER AAC

BENEFITS

AAC is essentially concrete made from fine raw materials entrained with tiny air bubbles and steam-cured under high pressure and temperature. The product has gained worldwide recognition as an innovative, green and cost efficient building material owing to its many benefits including light weight, speed of construction, excellent thermal insulation properties, and versatility in design.

COST SAVINGS IN

- ✓ Foundation : Up to 15% saving
- ✓ Structural beam & columns
- ✓ Site overheads
- ✓ Finance cost
- ✓ Waste disposal

HENNER blocks were used in the construction of Rimbun Condominium, Kuala Lumpur

FIRE RESISTANT
4
HOURS

With a thickness of 100mm, HENNER blocks are able to achieved 4 hours fire rating, the highest possible for masonry and concrete walling, thus offering a higher level of protection to lives and property. The product does not burn nor releases toxic fumes or gases when subjected to fire.

SAVE ENERGY
60%
REDUCTION

HENNER products have an inherent high thermal insulation property, and this provides greater efficiency in energy conservation in buildings, resulting in a more comfortable indoor environment at much lower cooling costs.

FASTER ASSEMBLY
2X
FASTER

Being larger and lighter than conventional bricks, HENNER products double the installation rate compared to conventional walling system.*

Installation Speed

HENNER - 22m²/worker/day

7 Bricks - 10m²/worker/day

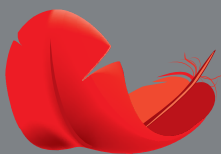
Finishes

HENNER - 75m²/worker/day

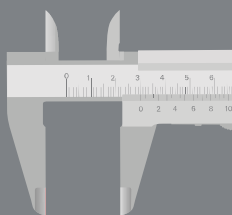
25mm plaster - 20m²/worker/day

SOUND INSULATION

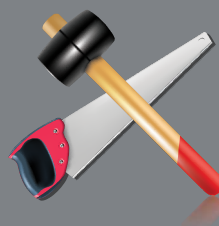
Compared with other building materials of the same weight, HENNER products offer higher sound insulation due to its closed cellular structure, thus resulting in a more comfortable indoor environment.

LIGHTER WEIGHT
50%
LIGHTER

Using HENNER products, customers can reduce foundation and structural costs by up to 15% in high-rise structures.

PRECISELY PRODUCED
±2MM

You can be assured of straighter walls and better finishes, and greater savings in wall coatings and joints whenever HENNER products are used. Dimensional accuracy is one of our top priorities.

VERSATILE

HENNER products enable better workability, thanks to the special formulation and materials of HENNER AAC, thus allowing for greater flexibility in design.

GREEN PRODUCT
20%
RECYCLED

HENNER products are ideal choice for green and energy-efficient projects, owing to the lower consumption of energy and raw material, minimal waste generation during production and installation and excellent thermal insulation properties.

* Terms & conditions apply

ROAD TO

SUSTAINABLE HABITAT

HENNER is committed to continuously improve our environment by minimizing negative impacts towards a greener and more sustainable planet. We ensure that all our manufacturing systems and process reflects this responsibility towards the earth and future generations.

building

RAW MATERIALS

AAC contains a pore content of approximately 80%. That is the reason why 4m³ of construction material can be produced out of 1m³ of raw materials. The low consumption of raw materials contributes to their conservation compare to other construction materials.

RECYCLING

By-products of AAC production such as condensate from the autoclaving, hardened AAC waste and unhardened AAC mixture can be recycled back into the production of AAC. Besides, other industrial waste like fly ash and slag can be utilized as main raw materials too.

ENERGY CONSUMPTION

AAC is autoclaved at a pressure of roughly 12 bar and 190 °C. Energy is consumed during this process. The total amount of energy consumed during the production of AAC, including conditioning energy for raw materials, internal power consumption and energy contents for raw materials which are not produce in AAC plant (e.g. lime, cement, aluminium powder), is found to be a total consumption of 2010MJ/t or 1005MJ/m at density of 500kg/m³, which is 2 or 3 times lower than other building materials such as burnt bricks.

PRODUCTION EMISSIONS

Emissions of gasses such as CO₂, CO and NO_x which originate from the steam generation while producing AAC are relatively low compared, for example, with burning processes in bricks industry.

THERMAL CONTROL

With excellent thermal insulation properties, AAC building has very good thermal resistance quality and therefore in many instances the use of supplementary insulation is unnecessary. It also takes less energy to heat or to cool an AAC building.

MOISTURE CONTROL

AAC is breathable and effective in moderating the moisture levels and maintaining the correct relative humidity to achieve a comfortable and mould-free living environment.

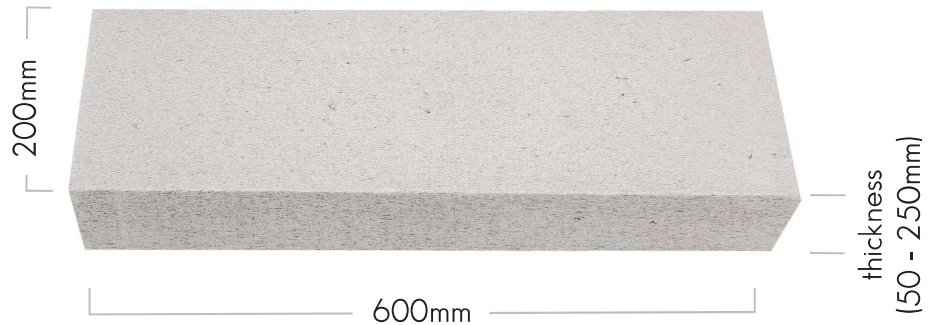
PRODUCT WEIGHT

The dry density of AAC is approximately one-quarter of normal high density concrete, resulting advantages in transportation as a good ratio of volume to weight permits full utilization of transport capacity, and means effectively 1 truck of normal materials equal to 5 trucks of AAC products.

PRODUCT BLOCKS

HENNER blocks offer a fast, convenient and versatile solution for most walling requirements. The blocks are intended for use in both internal and external applications, either as infill or load-bearing walls.

We have been offering the high strength AAC blocks in the market since 2008. With superior strength that significantly improves resistance against cracks, acoustic performance, and impact strength, HENNER blocks are widely used in numerous major projects.



PROPERTIES

Property	Henner 5	Henner 7	Units
Length	600	600	mm
Width (Thickness)	50-250	75-250	mm
Height	200	200	mm
Dimensional Tolerance On All Faces (TLMA)	± 2.0	± 2.0	mm
Dry Density	620 ± 50	670 ± 50	kg/m ³
Working Density ¹	880 ± 50	910 ± 50	kg/m ³
Mean Compressive Strength ²	5.2	7.0	MPa
Characteristic Ultimate Tensile Strength ³ , f _{mt}	0.55	0.55	MPa
Modulus of Elasticity, E ⁴	2500	2500	MPa

* All dimensions and densities are nominal. For actual details, please refer to HENNER's technical department.

* Product properties, unless otherwise stated, are based on testing conducted on conditioned samples in accordance with relevant British Standards BS EN 771-4:2001 for Autoclaved Aerated Concrete products. Field results may differ due to factors such as moisture, sample preparation, etc.

* 1 - Moisture content up to 40%, 2 - Arithmetic mean, 3 - Block beam test according to AS3700, 4 - Average Short Term E

'CLASS A' IN INDUSTRIALISED BUILDING SYSTEM (IBS)

HENNER block work and panel systems are certified as IBS systems "Class A" by CIDB Malaysia and may be used in IBS-specified projects.

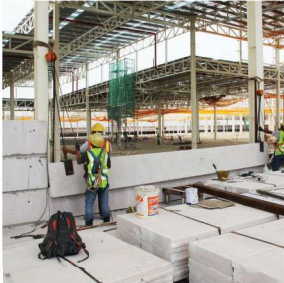
STANDARD BLOCK SIZE RANGE

Standard Nominal Length (mm)	Standard Nominal Width (Thickness) (mm)	Standard Nominal Height (mm)	Coverage per Pallet (m ²)	Quantity per Pallet
600	50*	200	43.20	360
600	75	200	28.80	240
600	100	200	21.60	180
600	125	200	17.28	144
600	150	200	14.40	120
600	175	200	11.52	96
600	200	200	10.08	84
600	225	200	8.64	72
600	250	200	8.64	72

* 50mm width (thickness) is available for Henner 5 only.

- The use of standard thicknesses is strongly recommended to facilitate quicker delivery.

PRODUCT PANELS



A range of customised reinforced HENNER panels is available for floor and wall applications in both steel and concrete framed structures. HENNER panels are easy to handle, being lighter than other concrete panel systems. Other benefits include reduced lifting requirements, simpler and faster installation, and savings on supporting structures.

The panels are especially ideal for refurbishment work where the transport of raw materials is constrained or working space for a conventional system is limited. The lower weight of the panels is especially significant as it means less load on any existing structure, thus allowing for greater flexibility in design. Standard panel width is 600 mm, with lengths up to 6 m, and thickness from 100 mm to 200 mm. The panel average working density is 900 kg/m³.



WALL PANEL PROPERTIES

Property	Value	Units
Length	6000 (max) ± 5	mm
Width / Height	300 - 600 ± 2	mm
Thickness	100 - 200 ± 2	mm
Dry Density	550 ± 50	kg/m ³
Working Density	750 - 900	kg/m ³
Compressive Strength, f'_c	3.5	MPa
Modulus of Elasticity, E	2190	MPa

** All dimensions and densities are nominal. For actual details, please refer to HENNER's technical department.*

PRODUCT LINTELS

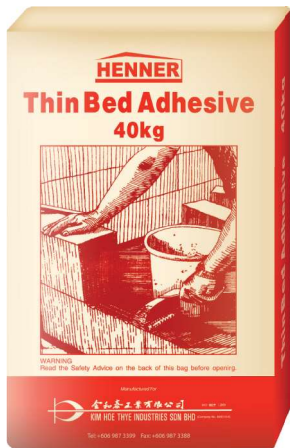
HENNER lintels are convenient supplements to HENNER blocks as they eliminate most of the work inconvenience associated with cast-in-situ concrete lintels on site. Made of the same material, HENNER lintels also allow walls to remain as homogenous units, thus reducing the risk of material incompatibility. Lintels can be manufactured to various sizes to suit most standard wall openings.





PRODUCT

THIN BED ADHESIVE (TBA)



COMPATIBILITY

HENNER Thin Bed Adhesive has been specially formulated to suit HENNER products. No other adhesive offers this degree of compatibility.

FLEXURAL STRENGTH

The flexural strength of a block wall relies on the combined performance of the block and adhesive. HENNER Thin Bed Adhesive allows the full strength of the wall to be achieved.

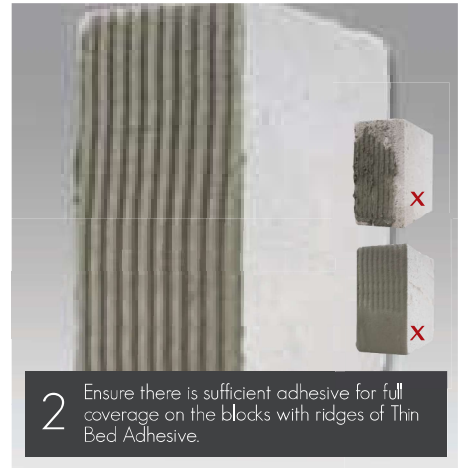
FIRE RATING

HENNER Thin Bed Adhesive and blocks have been tested as a system and will achieve up to 4-hour fire rating when used together. The required fire rating may not be achieved with the use of other adhesives.

HENNER Thin Bed Adhesive (TBA) is a high quality cementitious adhesive specifically formulated for installation of HENNER products such as blocks, panels, and lintels. Backed by extensive testing and historical performance, the use of HENNER Thin Bed Adhesive ensures optimum compatibility and performance of a completed installation, including strength and fire rating.



1 Mix HENNER Thin Bed Adhesive with an electric hand-held stirrer.



2 Ensure there is sufficient adhesive for full coverage on the blocks with ridges of Thin Bed Adhesive.



3 Apply HENNER Thin Bed Adhesive with a notched trowel.



4 Align HENNER blocks with a rubber mallet.

TECHNICAL DATA

Packaging	40kg bag
Colour	Light Grey / Off White
Mixing Ratio	12 - 14 litres water / 40kg bag
Pot Life	2 - 3 hours
Open Time	6 - 8 minutes
Coverage	Approx. 20m ² / 40kg bag for 100mm blockwork
Min. Flexural Strength	0.55 MPa
Fire Rating	Up to 4 hours when used with HENNER Blocks
Fire Hazard	Non - flammable
Toxicity	Nil

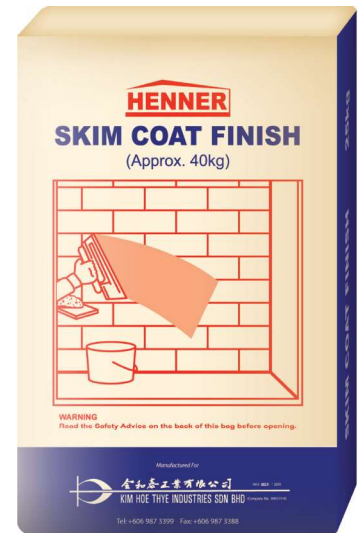
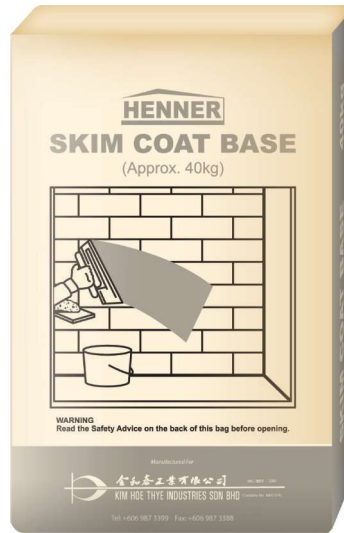
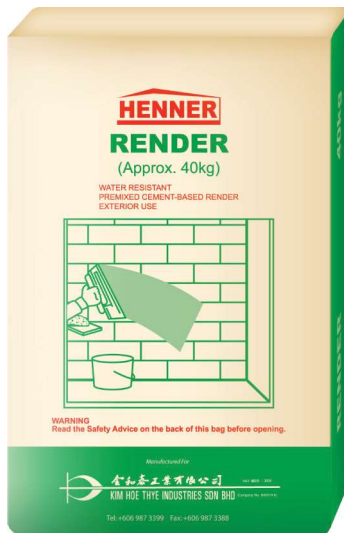
CONSISTENT QUALITY

The manufacturing process is constantly monitored to ensure the highest quality. Poor quality adhesives may cause defects and reduce the strength of walls.

PRODUCT

RENDER, SKIMCOAT

HENNER Render and Skim Coat are cement-based coatings specially formulated for use on HENNER block walls to deliver a high quality finish. HENNER render should be used for external applications where weather-resistance is required. The render may also be used when a thicker coating is needed. HENNER Skim Coat is applied as a two-coat system, designed for internal wall applications to give a smooth finish.



TECHNICAL DATA

	Render	Skim Coat Base	Skim Coat Finish
Packaging	40kg bag	40kg bag	25kg bag
Colour	Grey	Grey	Grey
Mixing Ratio	7 - 8 litres water / 40kg bag	11 - 12 litres water / 40kg bag	11 - 12 litres water /25kg bag
Pot Life	1 hour	2 hours	3 hours
Thickness	10 - 12mm minimum	2 - 4mm minimum	1 - 2mm minimum
Coverage (Approx.)	1.6kg/m ² /mm thickness 2.5m ² /40kg bag at 10mm thickness	1.4kg/m ² /mm thickness 10m ² /40kg bag at 3mm thickness	1.2kg/m ² /mm thickness 20m ² /25kg bag at 1mm thickness
Binder	OPC / Hydrated lime	OPC	OPC
Max Aggregate Size	Graded sand 2.5mm max	Graded limestone powder / sand 1.0mm	Limestone powder 0.5mm
Additives	Water soluble additives to improve workability, water retention, durability and adhesion	Water soluble polymers to improve workability, water retention, durability and adhesion	
Fire Hazard		Non-flammable	
Toxicity		Nil	

COMPATIBILITY

The coatings have been specially formulated to suit HENNER products. No other coating offers this degree of compatibility.

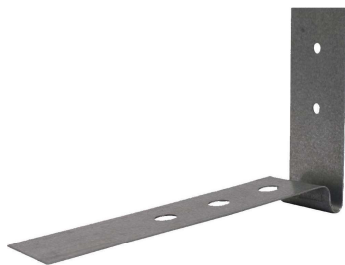
CONSISTENT QUALITY

The manufacturing process is constantly monitored to ensure the highest quality. Poor quality coatings may cause defects and decrease the strength of walls.

COST & SPEED

Cost savings for material and labour are substantial as application thickness is less than that in conventional plastering systems. The thinner coatings are also fast and easy to apply, achieving almost twice the speed over conventional systems.

HENNER BRACKETS



Steel Bracket (FB2 Tie)



FB6 Tie



FB8 Tie



V-Nail

HENNER ACCESSORIES



Fibre Mesh



Notch Trowel



Handsaw



Concrete Anchor



Spirit Level



Rubber Mallet



Trolley/Dolly



Impact Drill



Circular Saw