Autoclaved Aerated Concrete (AAC) Blocks

Proudly made for the Philippines

Edition 2020
Foreword & Disclaimer

MABUHAY!!! Thank you for choosing Leichtbric AAC Blocks for your project in the Philippines.

In this product guide, we use the terms Leichtbric, Autoclaved Aerated Concrete (AAC) and Autoclaved Lightweight Concrete (ALC) interchangeably to define and describe the Product and its general specification.

Leichtbric is made of German technology from Wehrhahn GmbH. Founded in 2005 Leichtbric is the oldest and most established brand in Indonesia, Singapore and Malaysia, with an output capacity of 30,000m2 per day. We have exported over 4 million square meter to the regional countries.

Amongst its many features and general product specifications, Leichtbric can be supplied in several dimensions and density classes. Leichtbric is tested and certified to relevant Standards called out by mandatory Code of Practice and Common Industry practices. Please verify the product specifications against your requirements to determine the suitability of Leichtbric for your intended applications.

We also provide Project References and technical support on applications and recommended use. Method Statement is found in our Installation Guide, and is made available upon request.
Product Characteristics

- Most Tested & Certified AAC brand
- Genuine Lightweight Density @ 500-700 kg/m³
- Genuine “Precision Blocks”,
  ✓ +/- 1mm tolerance
- Fire Rating
  ✓ Up to 240 minutes @ 100 mm thickness bare wall built up
- Superior U value for energy-efficient buildings.
  ✓ 10 times more insulating than clay and concrete.
- Full Green Certification
  ✓ Green Certificate (3 ticks), Green Label, ISO 14001, Emission & Leaching tests.
Product Benefits

- Fire Safety
- Noise Reduction
- Great Thermal U-Value
- Fast Built Up
- Better Worksite Safety
- Environmentally Friendly
- Lightweight Density
## PRODUCT SPECIFICATION

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Test Standard</th>
<th>Standard Density, S3 Class</th>
<th>High Density, S5 Class</th>
<th>Ultra Density, S7 Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>S3 (D480)</td>
<td>S5 (D600)</td>
<td>S7 (D650)</td>
</tr>
<tr>
<td>Dry Density (kg/m³)</td>
<td>(BS EN 772-13)</td>
<td>&gt; 500</td>
<td>&gt; 600</td>
<td>&gt; 650</td>
</tr>
<tr>
<td>Compressive Strength (N/mm²)</td>
<td>(BS EN 772-1) /  (ASTM C1693)</td>
<td>&gt; 3.0</td>
<td>&gt; 5.0</td>
<td>&gt; 6.5</td>
</tr>
<tr>
<td>Dimensional Tolerance (mm)</td>
<td>(BS EN 771-4)</td>
<td>+/- 1</td>
<td>+/- 1</td>
<td>+/- 1</td>
</tr>
<tr>
<td>Water Absorption (%)</td>
<td>(SS271-1983)</td>
<td>11%</td>
<td>11%</td>
<td></td>
</tr>
<tr>
<td>Drying Shrinkage (mm/m)</td>
<td>(BS EN 680)</td>
<td>0.97</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>Flexural Strength (N/mm²)</td>
<td>(BS EN 1351)</td>
<td>&gt; 0.5</td>
<td>&gt; 1.0</td>
<td></td>
</tr>
<tr>
<td>Thermal Conductivity (W/m.k)</td>
<td>(ASTM C518)</td>
<td>0.18</td>
<td>0.22</td>
<td></td>
</tr>
<tr>
<td>Fire Rating</td>
<td>(BS 476 22)</td>
<td>4 H</td>
<td>4 H</td>
<td></td>
</tr>
<tr>
<td>Strength &amp; Robustness</td>
<td>(SS492)</td>
<td>Severe Duty</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pull Out - Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pull Down - Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wash Basin - Up to 1500N</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cabinets - Up to 4000N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Test Description
- **Severe Duty**
  - Pull Out - Pass
  - Pull Down - Pass
  - Wash Basin - Up to 1500N
  - Cabinets - Up to 4000N

**Recommended Use:**
- For all typical applications
- For better STC >42-45
- For better STC >48-50

---

**Standards:** BS EN, BS, SS, MS, AS/NZS, ASTM.

*** Above values are based on Manufacturer’s declaration, backed by tests done in-house and by 3rd party laboratories.

### The Manufacturer reserves the full right to alter the technical specs of the products. Please check with our sales and technical team before placing an order.

---

[Image: LeichtBric Premium AAC]

**Product ID:** 022-038-0300
022-038-3000
**ECO-FRIENDLY BUILDING MATERIAL / MINIMUM 20% RECYCLED CONTENT**

**CERT NO.: 2014 - 0597**
ISO 14001 : 2015

[Images: Green Seal, TÜV SUD, MS, SIRIM]
# Product Information

## REGULAR BLOCKS

<table>
<thead>
<tr>
<th>Dimension and Size</th>
<th>Volume Cbm</th>
<th>in pallet pc Per pallet</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>Width (mm)</td>
<td>Thickness(mm)</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>100</td>
<td>0.012</td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>150</td>
<td>0.018</td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>200</td>
<td>0.024</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>100</td>
<td>0.030</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>150</td>
<td>0.045</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>200</td>
<td>0.060</td>
</tr>
</tbody>
</table>

## INTERLOCKING BLOCKS

<table>
<thead>
<tr>
<th>Dimension and Size</th>
<th>Tongue and Groove</th>
<th>Volume Cbm</th>
<th>in pallet pc Per pallet</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>Width (mm)</td>
<td>Thickness(mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>150</td>
<td>Yes</td>
<td>0.018</td>
</tr>
<tr>
<td>600</td>
<td>200</td>
<td>200</td>
<td>Yes</td>
<td>0.024</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>150</td>
<td>Yes</td>
<td>0.045</td>
</tr>
<tr>
<td>600</td>
<td>500</td>
<td>200</td>
<td>Yes</td>
<td>0.060</td>
</tr>
</tbody>
</table>
Block Work at a Glance

1. Sweep ground of all debris, and remove all obstacles around marked area for block work.

2. Mix thoroughly the Bonding Agent in clean container. Use only Thin Bed Adhesive for AAC material.

3. Apply grout (thick bed base plaster) of at least 30mm to ground or slab.

4. Lay the base (first) course of Blocks. Use tungsten tip saw to cut to size Blocks for proper alignment and position. Recommended to allow at least 12 hours for base course to set.

5. Continue with subsequent courses of Blocks to be laid. Apply only 3-5 mm thickness of Thin Bed Adhesive. Ensure proper alignment and level for each course while being built up.

6. Remove all excess Thin Bed Adhesive. Ensure any gap found between Blocks to be filled with Thin Bed Adhesive. Allow at least 3 days for built up AAC Wall to properly set before applying secondary scope of works (plastering or M&E).

***Notes: Detailed Method Statement is found in our Installation Guide. Available upon request.***
Typical Wall Built Up And Applications

AAC wall in wet area with waterproofing and services pipes.

Typical AAC wall using jumbo size block in dry area.

Typical AAC wall using regular blocks and jumbo blocks, external and common areas.

AAC wall bare wall finish with door opening.

Skim Coat Finish 3-4 mm. Trade Demonstration to Government Consultants.

AAC wall with columns.

AAC wall, externally applied with plastering and paint.

AAC wall with concealed M&E services.

AAC wall with large M&E items. Lintel provided in openings.
PROJECT REFERENCES

CENTURY SQUARE (TAMPINES)
ASCENDAS ASCENT (Science Park II)
OUE DOWNTOWN (Shenton Way)
CHANGI GENERAL HOSPITAL (Simei Street)

SINGPOST EUNOS (Eunos Road)
NTU ACADEMIC (Nanyang Crescent)
ROBINSON TOWER (Robinson Road)
GEM Residences (Toa Payoh)

CLUNY PARK RESIDENCE (Cluny Park Road)
LE GROVE (Orange Grove)
GRAMERCY PARK (Grange Road)
FRASERS TOWER (Cecil Street)

INTAN COLLEGE (Kuching)
CALVARY CHURCH (Tawau)
SYARIAH COURT (Kuching)
MENARA HUP SENG (Kota Kinabalu)
 OTHER PUBLICATIONS

AAC Blocks Brochure
(For The Philippines)

AAC Blocks Brochure

1M Eco Panel Brochure

Wall Panel Brochure

General Product Portfolio

Installation Guide
AAC Blocks

Installation Guide
AAC Panels

Safe Handling of Panels at worksite.

Remarks: * available only in hard copy

Download for Softcopy.

Exclusive Distributor and Technical Office:

ArkhiTekton Asia Corporation (AAC)
Mobile Number: +639178491971
Block 26 Lot 9 Neva St., Parkway Settings
Nuvali, Canlubang, Calamba City, Laguna 4027.
Email Address: philip@aac-ph.com
Website: www.aac-ph.com

Product and Technical Support:
Morris Schaefer Asia Pacific Pte Ltd

PT BROCO AERATED CONCRETE INDUSTRY (www.brocoindustries.com)
JALAN RAYA SERANG CIKANDE, BANTEN INDONESIA
***© 2020 PT Broco Aerated Concrete Industry & Morris Schaefer Asia Pacific Pte Ltd. Any part of information in this publication is subject to change without prior notice. Information correct at the time of print.