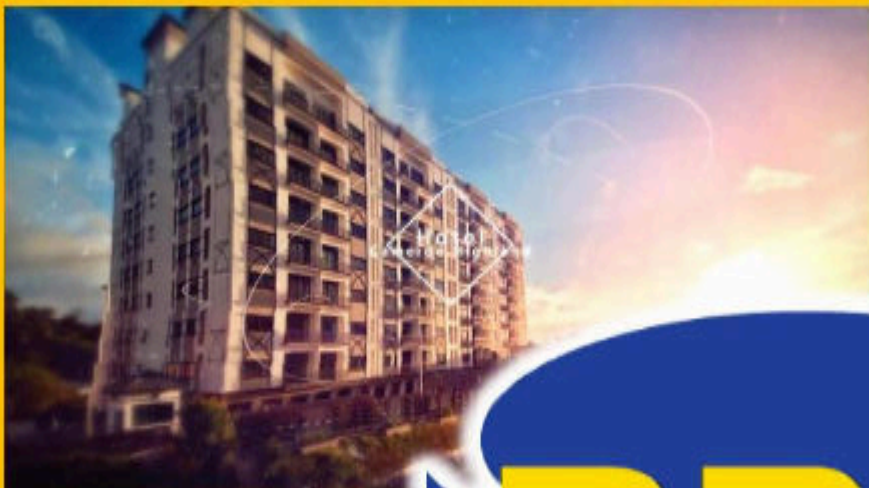


# IBS

**INDUSTRIALISE  
BUILDING  
SYSTEM**



**RBM**



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## 1.0 PROJECT REFERENCE



**LOCATION: TUARAN, SABAH, MALAYSIA**

**TYPE: 431 UNITS, DOUBLE STOREY TERRACE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: TUARAN, SABAH, MALAYSIA**

**TYPE: 418 UNITS, 18 STOREYS APARTMENT**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + SHEAR WALL SYSTEM**





**LOCATION: GUA MUSANG, KELANTAN, MALAYSIA**

**TYPE: SINGLE STOREY TERRACE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: GUA MUSANG, KELANTAN, MALAYSIA**

**TYPE: DOUBLE STOREY SEMI-D**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: LAHAD DATU, SABAH, MALAYSIA**

**TYPE: 2000 UNITS, SINGLE STOREY TERRACE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: KEDAH, MALAYSIA**

**TYPE: DOUBLE STOREY SEMI-D**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: PAHANG, MALAYSIA**

**TYPE: DOUBLE STOREY CLUSTER**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: PHILIPPINES**

**TYPE: SINGLE STOREY SEMI-D**

**BUILDING SYSTEM: RBM BUILDING SYSTEM +LIGHTWEIGHT STEEL STRUCTURE**





**LOCATION: TANJUNG KARANG, MALAYSIA**

**TYPE: SINGLE STOREY BUNGALOW**

**BUILDING SYSTEM: RBM BUILDING SYSTEM +LIGHTWEIGHT STEEL STRUCTURE**





**LOCATION: TERENGGANU, MALAYSIA**

**TYPE: SINGLE STOREY BUNGALOW**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: TERENGGANU, MALAYSIA**

**TYPE: DOUBLE STOREY TERRACE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: KUNAK, MALAYSIA**

**TYPE: 54 UNITS, SINGLE STOREY CLASSROOM**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: CAPE TOWN, SOUTH AFRICA**

**TYPE: SINGLE STOREY HOUSE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: SABAH, MALAYSIA**

**TYPE: SINGLE STOREY TERRACE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: SAUDI ARABIA**

**TYPE: DOUBLE STOREY BUNGALOW**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: PUTRAJAYA, MALAYSIA**

**TYPE: 3 STOREYS SUPERLINK HOUSE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: CAMERON HIGHLAND, MALAYSIA**

**TYPE: HIGHRISE BUILDING HOTEL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: SARAWAK, MALAYSIA**

**TYPE: DOUBLE & SEMI-D HOUSING**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: SABAH, MALAYSIA**

**TYPE: HIGHRISE BUILDING HOTEL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**



**LOCATION: MEDAN CITY, INDONESIA**

**TYPE: HIGHRISE SHOPPING MALL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: METRO MANILA, PHILIPPINES**

**TYPE: SCHOOL FOR MINISTER**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + BRC STRUCTURAL WALL**





**LOCATION: BRUNEI**

**TYPE: HIGHRISE BUILDING HOTEL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: MEDAN CITY, INDONESIA**

**TYPE: SHOPLOT**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: PHILIPPINES**

**TYPE: TOWNHOUSE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM + RC STRUCTURE**





**LOCATION: MALAYSIA**  
**TYPE: WATER TANK**  
**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: KUALA LUMPUR, MALAYSIA**  
**TYPE: HIGHRISE BUILDING**  
**BUILDING SYSTEM: RBM PLASTERING SYSTEM**





**LOCATION: MEDAN, INDONESIA**

**TYPE: HOSPITAL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: KUALA LUMPUR, MALAYSIA**  
**TYPE: HIGHRISE BUILDING**  
**BUILDING SYSTEM: RBM PLASTERING SYSTEM**





**LOCATION: PUTRAJAYA, MALAYSIA**

**TYPE: OFFICE BUILDING**

**BUILDING SYSTEM: RBM PLASTERING SYSTEM**





**LOCATION: KUALA LUMPUR, MALAYSIA**

**TYPE: SHOPPING MALL**

**BUILDING SYSTEM: RBM PLASTERING SYSTEM**





**LOCATION: KELANTAN, MALAYSIA**  
**TYPE: MOSQUE**  
**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: PUTRAJAYA, MALAYSIA**

**TYPE: SHOPPING MALL**

**BUILDING SYSTEM: RBM PLASTERING SYSTEM**





**LOCATION: JOHOR BAHRU, MALAYSIA**  
**TYPE: HIGHRISE APARTMENT**  
**BUILDING SYSTEM: RBM BUILDING SYSTEM**

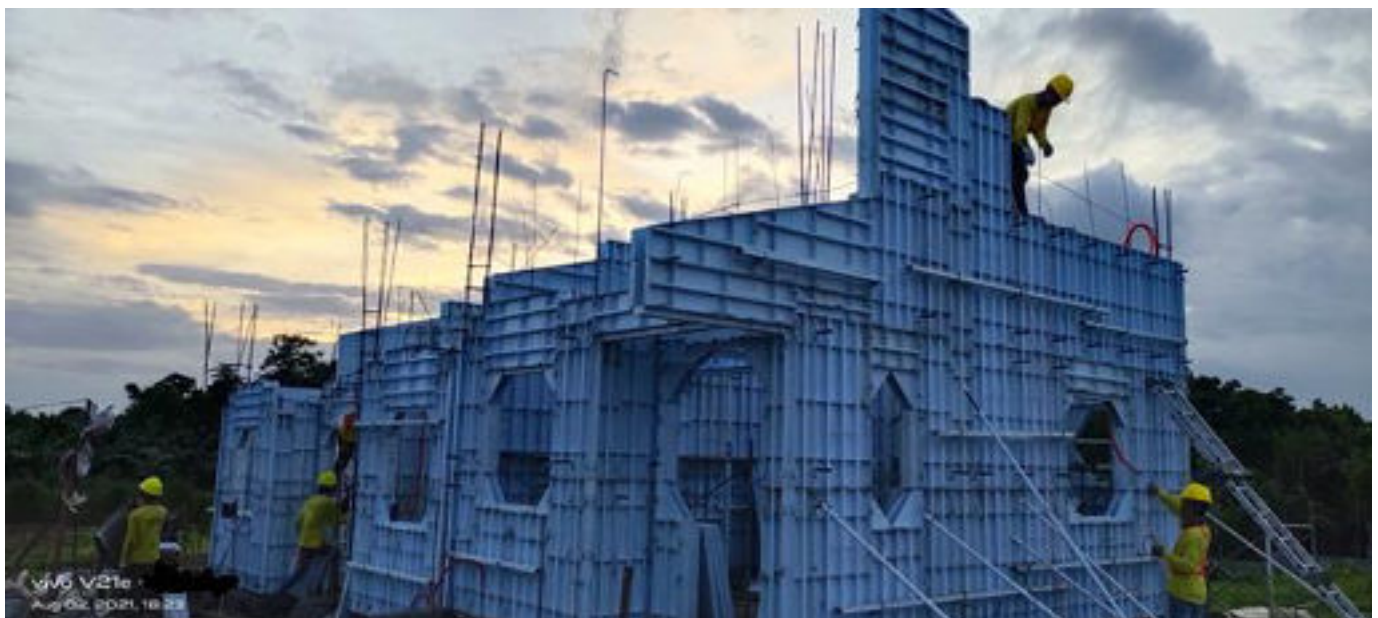




**LOCATION: PHILLIPINES**

**TYPE: SINGLE STOREY TERRACE HOUSE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: PHUKET, THAILAND**

**TYPE: SINGLE STOREY HOUSE**

**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: NEGERI SEMBILAN, MALAYSIA**

**TYPE: FACTORY WALL**

**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: TERENGGANU, MALAYSIA**  
**TYPE: SINGLE STOREY TERRACE**  
**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION: TERENGGANU, MALAYSIA**  
**TYPE: SINGLE STOREY TERRACE**  
**BUILDING SYSTEM: RBM BUILDING SYSTEM**





**LOCATION:KOTA KINABALU, SABAH**

**TYPE: ART GALLERY**

**BUILDING SYSTEM: RBM BUILDING SYSTEM**



## 2.0 PRODUCTS

### 2.1 INTEGRATED CONCRETE MACHINE (MODEL: RBM-3000)



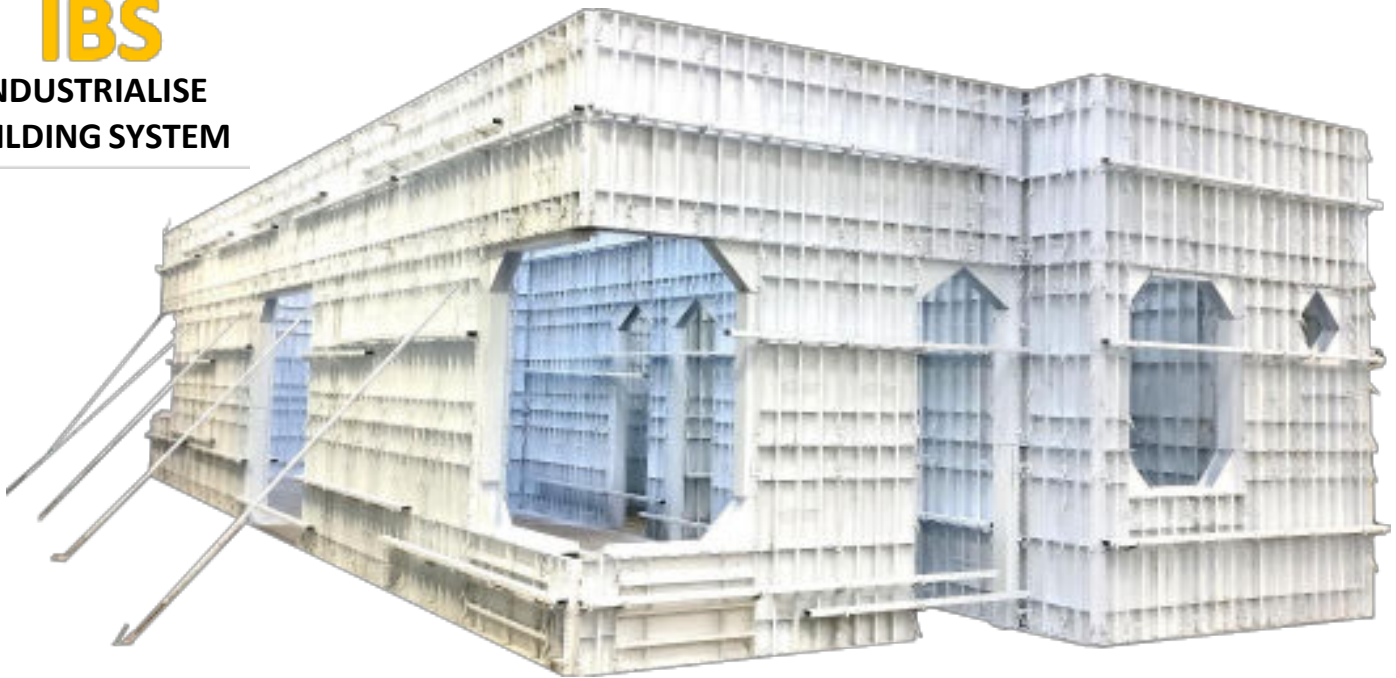
**PATENT GRANTED**  
MY-133290-A  
MY-149328-A  
MY-187368-A

RBM Integrated Concrete Machine, model: RBM-3000 (Patent Granted: MY-133290-A, MY-149328-A and MY-187368-A) is a multi-function machine that integrated with **SMART & INNOVATIVE** technologies for different type of application & comply with building requirement in Green, Systematic and Energy Efficient way.

The machine is built in with the foam generator with an amazing capacity that generate 1085 litres of foam per minute, there also two conveyor to deliver raw material for processing concrete. **RBM-3000** special design with an auto weighing scaling system to control all the material require automatically according to the formulation setting. **RBM-3000** has a powerful mixer which meets different type of concrete mixing needs and a high-tech pumping system that can deliver concrete up to higher floor with the pumping output of 0-20m<sup>3</sup>/hour.

## 2.2 RBM FORMWORK SYSTEM (IBS SYSTEM)

**IBS**  
INDUSTRIALISE  
BUILDING SYSTEM



RBM Formwork System is made from metal and is able to recycle the usage for cast structures and wall that resemble conventional plastered brick structures. The system involves the pre-designed according to the architectural drawing, i.e. wall, column, beam, slab, staircase and window/door.

As planning on coordinate the set of formwork in-situ, this able to solve the problem of deflection to increase the installation job to the fastest limit.

Formwork panels are produced by high accuracy machine after dimension of panels is given, which allow high production of exact quality standards. Due to the production process, number of sets of formwork can be produced in any country at any time. Individual panels also can be produce based on the architectural/ site requirement. The largest panel only weight 18kg, therefore can easily be handled and transported.

The formwork system infuse with clip-lock system where every panel can be easily be connect and dismantle. Having 2 ties between every formwork panel that able to hold the load of concrete about the maximum height of 3.6m. (Special fabricated formwork can up to 6m height). The numbers of components are modular, making adjustments in dimension is simple. It has a long life span, and after its usage the panel are recyclable. Produce a smooth concrete surface off-the mould surface which does not require thick plastering.

## 2.3 RBM SKIM PLASTER SPRAY MACHINE



RBM Skim Plaster Spray Machine (SP42), able to spray for application such as internal walling, external walling texture and tile bedding by using different nozzle provided. The spraying/pumping is remote controlled, speed of output also able to control depending on user requirements. Made of stainless steel equipped with hot-dip zinc coated and screw pump that driven by electric motor (220V).

**INTERNAL WALL**

**EXTERNAL WALL**

**TILE BEDDING**



## 3.0 RBM CONCRETE TECHNOLOGY



RBM Concrete Technology can be your **BEST BUILDING MATERIAL**. It categories into two type, one is Lightweight Concrete (Foam Concrete), and the other is Reinforcement Concrete (Load-bearing Concrete). Each have different physical properties that is more advance than conventional concrete. The

**BENEFIT** of RBM Concrete able to reduce the **dead load** of the building structure where tons of rebar and steel can be reduce. It also can be manufactured to **precise specifications** of strength and densities require by every country buildings requirement. It had **excellent workability** where no vibration were require. The casted wall can be **nail, planed drilled, wall plug** and **sawn**. Provides **excellent insulation** against heat/cold and acoustic. The technology of our concrete can reach **4 hour fire rating** that underwent British Standard and American standard by our SIRIM, Standard and Industrial Research Institute of Malaysia and BOMBA, Fire and Rescue Department of Malaysia approval.

### ROI EFFICIENCY

- >50 Units

### TRAINING & TECHNICAL BACKUP

- Set-up, Operation & Installation

### DELIVERY

- 7-30 Working Days Period

### PAYMENT

- Loan / Leasing

### CERTIFICATE & APPROVAL

- SIRIM, BOMBA & CIDB (CLASS A)
- PATENT GRANTED & COPYRIGHT
- ISO 9001:2015

NOTE:

## 4.0 SPECIFICATION

Sample

Item	Description	Unit	Qty	Rate	Amount	
					RM	sen
A	<p><b><u>ELEMENT NO.</u></b></p> <p><u>Vibrated Reinforced Concrete Grade with manufacturer additive as specified including all moulds finished fair on all exposed surfaced, stored, pumping, hoisting and fixed in position as described in</u></p> <p>___ mm Thick suspended slab (water tank slab)</p> <p><b>Concrete Structural Specification</b></p> <p><u>“RBM CONCRETE 2.1” for concrete structure only</u>  Proprietary System : 100mm thickness “RBM WALL SYSTEM 2.1” load bearing, Compressive Strength : Grade 30.0N/mm<sup>2</sup>@28days ;Density 2,100kg/m<sup>3</sup> as SIRIM 2013FE0352, 2013CBD135, 2018FE0041 &amp; 2018CBD007, 2hours fire rated with BOMBA approval BS 476:PART 22:1987 &amp; ASTM E2226-10 or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer's instructions.</p>	m <sup>3</sup>				
B	<p><b>Wall Specification</b></p> <p><u>“RBM CONCRETE G25” for external and internal wall only</u>  Proprietary System : 100mm thickness “RBM WALL SYSTEM G25” load bearing, Compressive Strength : Grade 25N/mm<sup>2</sup>@28days as SIRIM 2021FE0042 &amp; 2021CBD0001, 2hours fire rated with BOMBA approval BS 476:PART 21:1987 &amp; ASTM E2226-10 or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer's instructions.</p>	m <sup>3</sup>				

<p>II</p>	<p><u>“RBM WALL SYSTEM G20” for external &amp; internal wall only</u>  Proprietary System : 100mm thickness “RBM WALL SYSTEM G20” load bearing, Compressive Strength : Grade 20.0N/mm<sup>2</sup>@28days; Density 1,926 kg/m<sup>3</sup> as SIRIM 2021FE0041 &amp; 2020CBD0066, 2hours fire rated with BOMBA approval BS 476:PART 21:1987, MS EN 12390-3: 2012 &amp; MS EN 12390-7: 2012 or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer’s instructions.</p>	<p>m<sup>3</sup></p>				
<p>III</p>	<p><u>“RBM WALL SYSTEM 2.1” for external &amp; internal wall only</u>  Proprietary System : 100mm thickness “RBM WALL SYSTEM 2.1” load bearing, Compressive Strength : Grade 30.0N/mm<sup>2</sup>@28days ;Density 2,100kg/m<sup>3</sup> as SIRIM 2013FE0352, 2013CBD135, 2018FE0041 &amp; 2018CBD007, 2hours fire rated with BOMBA approval BS 476:PART 22:1987 &amp; ASTM E2226-10 or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer’s instructions.</p>	<p>m<sup>3</sup></p>				
<p>IV</p>	<p><u>“RBM WALL SYSTEM 1.8” for external &amp; internal wall only</u>  Proprietary System : 100mm thickness “RBM WALL SYSTEM 1.8” load &amp; non-load bearing, Compressive Strength : Grade 12.0 N/mm<sup>2</sup>@28days; Density 1,800kg/m<sup>3</sup> as SIRIM 2018FE0862 &amp; 2018CBD0187 (Load bearing) and SIRIM 2018FE0863 (Non-Load Bearing), 2hours fire rated with BOMBA approval BS 476:PART 21:1987 &amp; ASTM E2226-10 (Load bearing) and BS 476:PART 22:1987 (Non Load Bearing) or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer’s instructions.</p>	<p>m<sup>3</sup></p>				

V	<p><u>“RBM WALL SYSTEM 1.6” for external &amp; internal wall only</u></p> <p>Proprietary System : 100mm thickness “RBM WALL SYSTEM 1.6” non-load bearing, Compressive Strength : Grade 7N/mm<sup>2</sup>@28days; Density 1,600kg/m<sup>3</sup> as SIRIM 2019FE0187-S1 &amp; 2019CBD0047, 2hours fire rated with BOMBA approval BS 476:PART 22:1987 &amp; ASTM E2226-10 or approved equivalent wall system ; including IBS reusable steel formwork installation accordance to MS1064, forming opening, placing rebar lintel on opening, bedded horizontal damp proof course ,steel fabric reinforcement to engr. details(if any),etc all in accordance with manufacturer’s instructions.</p>	m <sup>3</sup>				
VI	<p><u>“RBM WALL SYSTEM 1.2” for internal wall only</u></p> <p>Proprietary System : 100mm thickness “RBM WALL SYSTEM 1.2” non-load bearing, Compressive Strength : Grade 3.0 N/mm<sup>2</sup>@; Density 1,200kg/m<sup>3</sup> as SIRIM 2021FE0496-S1, 2021FE0496, 2021CBD0022-S1 &amp; 2021CBD0022, 4hours fire rated with BOMBA approval BS 476:PART 22:1987; ASTM E2226-10 or approved equivalent wall system; including IBS reusable steel formwork installation accordance to MS 1064, forming opening , placing rebar lintel on opening, bedded horizontal damp proof course, steel fabric reinforcement to engr. details(if any), etc all in accordance with manufacturer’s instructions.</p>	m <sup>3</sup>				
C	<p><b>Skim Coat/Tile Adhesive Specification</b></p> <p>I <u>Internal: “RBM Skim Coat” for Finishing work only</u>  Proprietary System: Applied 2mm “RBM Skim Coat” coating both side for building finishing with smooth surface or approved equivalent finishing, all in accordance to manufacturer specification details.</p> <p>II <u>External: “RBM Skim Coat” for Finishing work only</u>  Proprietary System: Applied 3mm “RBM Skim Coat” coating both side for building finishing with texture, pattern or approved equivalent finishing, all in accordance to manufacturer specification details.</p> <p>III <u>Tile Adhesive:“RBM Tile Adhesive” for Finishing work only</u></p>	m <sup>2</sup>				

C1	<p>Proprietary System: Applied 5mm “RBM Tile Adhesive” bedded coating pattern for tiles, mosaic or approved equivalent finishing, all in accordance to manufacturer specification details.</p> <p>Prepare and apply ___ coats of ‘Coral’ or other equal and approved cementitious waterproofing compound including 45° angle fillet between slab and wall and a layer ___ mm thick cement and sand (1:3) as specified protective screed and forming channel for scupper drain all as per manufacturer’s specifications and to the satisfactions of the S.O. (measured net – no allowance made for laps) to</p>	m <sup>2</sup>				
D	<p><u>Supply and fix the following approved natural anodized aluminium/metal casement window complete with frames, couplings, transoms, mullions, concealed top and bottom bolts, push/pull handle, stays, glazing beads and all other fittings and accessories including building in or cutting and pinning lugs, beading frames in waterproofed cement and sand (1:3) mortar pointing; including ___ mm thick ___ % tinted glass as specified glazing to aluminium/metal frame all accordance to manufacturer’s recommendation and architect’s approval</u></p>	No.				

## 5.0 PRODUCT CERTIFICATE APPROVAL

### 5.1 RBM WALL SYSTEM DENSITY 1200

#### 5.1.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1200

No. Fail: JBPM.IP.RNP:700-7225-111 ( 3 )  
(BAHARU)

# SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

**Jabatan Bomba dan Penyelamat Malaysia**  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
heresby certify

**WALL SYSTEM  
(NON-LOADBEARING)**  
**BRAND: RBM; PRODUCT: RBM Wall System  
(RBM Lightweight Concrete 1.2)**  
**THICKNESS: 100mm (4)**  
**4 JAM INTEGRITI DAN INSULASI**

Berdasarkan Piawaran  
Complying with  
**BS 476: Part 22:1987 & ASTM Standard E2226-10**

Syarikat Berdaftar  
Registered company  
**RBM BUILDING MACHINERY SDN BHD (subsidi of  
Lot 107-108, Lorong Senawang 4/3,  
Senawang Industrial Estate,  
70450 Seremban,  
Negeri Sembilan.**

Tempoh sah perakuan: 12/04/2022 hingga 12/04/2024

(PKPJ) KAMARUZAMAN MALIK ABDULLAH  
Pegawai  
Bahagian Perancangan dan Penyelidikan,  
b.p. Ketua Pengarah  
Jabatan Bomba dan Penyelamat Malaysia.  
Tarikh: 09 April 2022

**\*\* Peringatan:  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1**

LAMPIRAN A1

7225-111 ( 3 )

**WALL SYSTEM  
4 JAM (NON-LOADBEARING)**

**BRAND: RBM  
PRODUCT: RBM Wall System (RBM Lightweight Concrete  
1.2)**  
**THICKNESS: 100mm (4)**  
**NOMINAL DENSITY: 1200kg/m<sup>3</sup>**  
**INSTALLATION: R10 steel reinforcement (top side, bottom  
side and vertical side)**

**RBM BUILDING MACHINERY SDN BHD**

**INTEGRITI 240 MINIT & INSULASI 240 MINIT**

**SIRIM 2021FE0496-S1 (21/1/2021), 2021FE0496  
(30/11/2021), 2021CB00022-S1 (30/11/2021) &  
2021CB00022 (24/11/2021)**

**\*\* PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI  
UJIAN, UBBL 1984 DAN PERLU MEMATUHI SYARAT-  
SYARAT TAMBAHAN SEPERTI DI LAMPIRAN A2 & A3.**

perakuan: 12/04/2022 hingga 12/04/2024

5.1.2 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 1200

**REPORT NO:** 2017-02200

**DATE:** 7/08/14

**PROJECT:** 1200 WALL SYSTEM

**CLIENT:** RBM (M) SDN BHD

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST NO:** 050029

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST NO:** 050030

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST NO:** 050031

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST NO:** 050029

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST NO:** 050030

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST NO:** 050031

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

**TEST TYPE:** 3TH REPORT FOR CONCRETE CURE TEST

**TEST NO:** 050032

**TEST DATE:** 07/08/14

**TEST TIME:** 09:00 AM

**TEST LOCATION:** RBM (M) SDN BHD

5.2 RBM WALL SYSTEM DENSITY 1600

5.2.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1600

No. Fail: JBPMP/IRNP:700-7/2/25-80 ( 6 )  
(PEMBAHARUAN: KEDUA)

**SIJIL PEPASANGAN  
KESELAMATAN KEBAKARAN**  
APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
heraby certify

**WALL SYSTEM**  
(RBM)MODEL : RBM FOAM CONCRETE 1.6)  
INTEGIRTI DAN INSULASI : 2 JAM (NON-LOAD BEARING)

Berdasarkan Piawaian  
Complying with  
BS 476 PART 22: 1987 & ASTM STD E2226-10

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY SDN BHD** (1105555-0)  
Lot 108, Lorong Senawang 4/3,  
Senawang Industrial Estate,  
70450, Seremban  
Negeri Sembilan


Tempoh sah perakuan: 24/07/2021 hingga 23/07/2022

(PKPJ) KAMARUZZAMAN MALIK ABDULLAH)  
Pegawai  
Bahagian Perancangan dan Penyelidikan  
t.p. Ketua Pengarah  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 23 Junai 2021

\*\* Peringatan:  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

LAMPIRAN A1



WALL SYSTEM  
RBM FOAM CONCRETE WALL SYSTEM 1.6  
2 JAM NON-LOAD BEARING  
MEASURED DENSITY : 1600 kg/m<sup>3</sup>  
Thickness: 100 mm  
RBM BUILDING MACHINERY SDN BHD  
INTEGIRTI 120 MINIT & INSULASI 120 MINIT  
Average Strength: 7.6 N/mm<sup>2</sup>  
SIRIM 2019FE0187-S1 (12/04/2019), & 2019CB00047  
(29/03/2019)

PEMASANGAN PERLU MEMATUHI UJBL 1984,  
SPESEIKASI UJIAN SERTA SYARAT-SYARAT TAMBAHAN  
SEPERTI DI LAMPIRAN A2.

Tempoh sah perakuan: 24/07/2021 hingga 23/07/2022  
Pembaharuan perakuan sivil sila rujuk Lampiran A2.



5.3 RBM WALL SYSTEM DENSITY 1800

5.3.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1800 (LOAD BEARING)

No. Fst. JBPM.IP.RNF: 700-7/2/25-72 (9)  
(PENGHAJARAN: KETIGA)

## SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
her-by certify

**SISTEM DINDING / WALL SYSTEM**  
(MODEL: RBM WALL SYSTEM 1.8)

Berdasarkan Piawain  
Complying with

BS 476: PART 21: 1987 & ASTM E2226-10

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY SDN BHD** (19999-0)  
Lot 107-108, Lorong Senawang 4/3  
Senawang Industrial Estate  
70450 Seremban  
Negeri Sembilan Darul Khusus

Tempoh sah diperakui: 25/03/2022 hingga 25/03/2024

(PKPJIB KAMARULZAMAN MALIK ABDULLAH)  
Pegawai  
Bahagian Perancangan dan Penyelidikan  
b.p. Kesua Pengarah  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 8 Februari 2022

LAMPIRAN A1

700-7/2/25-72 (9)  
919 (P3)

SISTEM DINDING / WALL SYSTEM  
(LOAD BEARING) (2 JAM)

MODEL : RBM WALL SYSTEM 1.8  
TOTAL THICKNESS : 100 mm  
MASS PER UNIT AREA : 178 kg/m<sup>2</sup>  
INTEGRITI : 120 MINIT  
INSULASI : 120 MINIT

RBM BUILDING MACHINERY SDN BHD (19999-0)  
SIRIM 2018FE0862 (15/12/2018) & SIRIM 2018CBC0187  
(20/12/2018)

PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI  
SEPERTIMANA DALAM LAPORAN UJIAN DAN UBSL 1984  
SERTA PERLU MEMATUHI SYARAT-SYARAT TAMBAHAN  
SEPERTI DI LAMPIRAN A2 & A3.

sah diperakui: 25/03/2022 hingga 25/03/2024



**\*\* Peringatan:**  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

**5.3.2 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 1800 (LOAD BEARING)**

**SIRIM QAS INTERNATIONAL**  
 101, Persiaran Damansara, Section 2, PJ, 47810 PETALING  
 JAYA, Selangor Darul Ehsan, Malaysia  
 Tel: 03-55444023  
 Fax: 03-55444022  
 www.sirim.qas.com.my

**SIRIM QAS INTERNATIONAL**  
 101, Persiaran Damansara, Section 2, PJ, 47810 PETALING  
 JAYA, Selangor Darul Ehsan, Malaysia  
 Tel: 03-55444023  
 Fax: 03-55444022  
 www.sirim.qas.com.my

**TEST REPORT**

REPORT NO.: 2018FE0082      PAGE : 1 OF 18

This Test Report refers only to the samples submitted for the specified test. SIRIM QAS International (SIRIM QAS) is not liable for any errors or omissions in the Test Report. This Test Report may not be reproduced, copied, printed and distributed to any person for any reasons or purposes without the prior written consent of SIRIM QAS International. SIRIM QAS International shall not be held responsible for any errors or omissions in the Test Report. SIRIM QAS International shall not be held responsible for any errors or omissions in the Test Report.

**THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY**

**Applicant:**  
 RBM BUILDING MACHINERY SDN. BHD.  
 Lot 1281, Leaning, Seksyen 7/3,  
 Senawang Industrial Estate,  
 70450 Seremban,  
 Negeri Sembilan.  
 (Attn: Mr. Seng Beng)

**Product:**  
 RBM Wall System 1.8 (Load Bearing)

**Reference Standard:**  
 BS 476: Part 21: 1987

**Method of test:**  
 Methods for determination of the fire resistance of load bearing elements of construction  
 Cause 8 – Determination of the fire resistance of walls  
 Hose Stream test utilizing the test methodology given in ASTM Standard E2226-10: Standard Practice for Application of Hose Stream.

**Description of test specimen:**  
 Trademark: RBM

**Date Received:**  
 08 AUGUST 2018

**Job No.:**  
 /20181440608

**Overall test result:**  
 Fire Resistance Test : 120 minutes  
 Load bearing Capacity (150%) Integrity : 120 minutes  
 Insulation : 120 minutes

**Hose Stream Test**  
 The test specimen meets with the requirements.

**Approved Signatory:**  
  
 (SHARIFAH NURF BADARIAH)  
 Senior Testing Executive

**Head of Fire Protection Section:**  
  
 AZMI YUSOFF  
 Head  
 Fire Protection Section  
 Testing Services Department

**SIRIM QAS INTERNATIONAL**  
 101, Persiaran Damansara, Section 2, PJ, 47810 PETALING  
 JAYA, Selangor Darul Ehsan, Malaysia  
 Tel: 03-55444023  
 Fax: 03-55444022  
 www.sirim.qas.com.my

**LAB (Seremban) SDN. BHD.** (Reg. No.: 263805-K)  
 In. Soil & Concrete Specialist.  
 No. 1, Jalan Duta Utama,  
 70100 Seremban,  
 Negeri Sembilan.  
 Tel: 07-7333111  
 Fax: 07-7333112  
 Website: www.geddes-sdn-bhd.com

**CUSTOMER COPY**  
 No: 028185

**STRENGTH REPORT FOR CONCRETE CUBE TEST**

JKS 5:1991 - Part 116 - 1993

**VERY TRADING SB**

Cube Size: 150mm x 150mm x 150mm

Water Cement Ratio: 0.45

Type of Concrete: Plain

Form: Cast in situ

Curing: Standard

Age at Test: 28 days

Concrete Cube Prepared by: ID MACHINERY (TRADING SB)

Area	Area	Area	Area	Area	Area
Top	Bottom	Left	Right	Front	Back
24,01.14	81	1886	8.4	458.7	20.38
AVERAGE: 20.38					

Signature & Stamp:

**TEST REPORT**

REPORT NO.: 2018FE0082      PAGE : 1 OF 18

This Test Report refers only to the samples submitted for the specified test. SIRIM QAS International (SIRIM QAS) is not liable for any errors or omissions in the Test Report. This Test Report may not be reproduced, copied, printed and distributed to any person for any reasons or purposes without the prior written consent of SIRIM QAS International. SIRIM QAS International shall not be held responsible for any errors or omissions in the Test Report. SIRIM QAS International shall not be held responsible for any errors or omissions in the Test Report.

**THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY**

**Applicant:**  
 RBM BUILDING MACHINERY SDN. BHD.  
 Lot 1281, Leaning, Seksyen 7/3,  
 Senawang Industrial Estate,  
 70450 Seremban,  
 Negeri Sembilan.  
 (Attn: Mr. Seng Beng)

**Product:**  
 RBM Wall System 1.8 (Load Bearing)

**Reference Standard:**  
 BS 476: Part 21: 1987

**Method of test:**  
 Methods for determination of the fire resistance of load bearing elements of construction  
 Cause 8 – Determination of the fire resistance of walls  
 Hose Stream test utilizing the test methodology given in ASTM Standard E2226-10: Standard Practice for Application of Hose Stream.

**Description of test specimen:**  
 Trademark: RBM

**Date Received:**  
 08 AUGUST 2018

**Job No.:**  
 /20181440608

**Overall test result:**  
 Fire Resistance Test : 120 minutes  
 Load bearing Capacity (150%) Integrity : 120 minutes  
 Insulation : 120 minutes

**Hose Stream Test**  
 The test specimen meets with the requirements.

**Approved Signatory:**  
  
 (SHARIFAH NURF BADARIAH)  
 Senior Testing Executive

**Head of Fire Protection Section:**  
  
 AZMI YUSOFF  
 Head  
 Fire Protection Section  
 Testing Services Department

**5.3.3 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1800 (NON-LOAD BEARING)**

No. Fail. JBPMMP/RMP.700-7/25-75 ( 8 )  
(PEMBAHARUAN- KEDUA)

**SIJIL PEPASANGAN  
KESELAMATAN KEBAKARAN**  
APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
herely certify

**WALL SYSTEM**  
(RBM/MODEL: RBM WALL SYSTEM 1.6)  
INTEGRITI & INSULASI 2 JAM (NON-LOAD BEARING)

Berdasarkan Piawatan  
Complying with  
BS 476: PART 22: 1987

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY SDN BHD** (105024-P)  
Lot 108, Lorong Senawang 4/3,  
Senawang Industrial Estate,  
70450 Seremban,  
Negeri Sembilan Darul Khusus.

Tempoh sah perakuan: 28/12/2021 hingga 27/12/2023

(PKPJ B KAMARULZAMAN MALIK ABDULLAH)  
Pengerah  
Bahagian Perancangan dan Penyelidikan  
b.p. Ketua Pengerah  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 18 Disember 2021

**\*\* Peringatan:**  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

LAMPIRAN A1

**WALL SYSTEM**

RBM/MODEL: RBM WALL SYSTEM 1.6  
2 JAM (NON-LOAD BEARING)  
Total thickness : 100mm (Compressive strength:  
13.8N/mm<sup>2</sup>)

RBM BUILDING MACHINERY SDN BHD

INTEGRITI 120 MINIT & INSULASI 120 MINIT  
Hose stream test - LULUS

SIRIM 2018FE0853 (12/12/2018)

PEMASANGAN PERLU MEMATUHI UBBEL 1994  
SPESIFIKASI UJIAN SERTA SYARAT-SYARAT TAMBAHAN  
SEPERTI DI LAMPIRAN A2.

Tempoh sah perakuan: 28/12/2021 hingga 27/12/2023

Permohonan pembaharuan effji sila rujuk Lampiran A2.



## 5.3.4 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 1800 (NON-LOAD BEARING)

**SIRIM QAS** (Mandatory) MALAYSIA 10000-22  
No. 1, Persiaran Setia Utama, Wawasan 2, P.O. BOX 7008,  
Seri Kembangan, Selangor Darul Ehsan, Malaysia  
Tel: 603-89336000  
Fax: 603-89336002  
www.sirim-qas.com.my

**THE SIRIM GROUP**  
**SIRIM QAS**

**TEST REPORT**

REPORT NO. 20167E263 PAGE: 1 OF 19

This Test Report refers only to samples submitted to the approved SIRIM QAS Laboratory for testing. SIRIM QAS and SIRIM QAS are not responsible for the accuracy of the test results or the use of the test results for any purpose other than that for which they were obtained. SIRIM QAS is not responsible for the accuracy of the test results or the use of the test results for any purpose other than that for which they were obtained. SIRIM QAS is not responsible for the accuracy of the test results or the use of the test results for any purpose other than that for which they were obtained.

**THIS TEST REPORT IS ISSUED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SIRIM QAS SYSTEM FOR THE TESTING OF CONCRETE CUBE TEST SPECIMENS.**

**APPROVAL**  
RBM BUILDING MACHINERY Sdn. Bhd.  
Lot 106, Leong Seng Guan S.A.  
Sungai Way Industrial Estate,  
70400 Seremban,  
Negeri Sembilan,  
M.S. : Mr. Seng Seng

**PRODUCT**  
RBM Wall System 1.8 (Non-load bearing)

**REFERENCE STANDARD**  
MS 1018: Part 25: 1987  
Method for determination of the compressive strength of non-load bearing elements of construction.

**DATE RECEIVED**  
08/10/2015

**JOB NO.**  
201514-0027

**TESTING METHOD**  
Per Prosedur Test  
Mekanikal  
Mekanikal

**TESTING FACILITY**  
RBM Seremban Test

**TESTING EQUIPMENT**  
120mm cube  
120mm cube

**TESTING PERSONNEL**  
The test specimens comply with the requirements.

**APPROVED SIGNATURE**  
*[Signature]*  
SIRIM QAS  
(SIRIM QAS) (Mandatory)  
Seremban Testing Facility

**APPROVED SIGNATURE**  
*[Signature]*  
RBM BUILDING MACHINERY Sdn. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
RBM BUILDING MACHINERY Sdn. Bhd.  
The Project on Sector  
Testing Seremban Department

**LAB (Seremban) SDN. BHD.** (Mandatory) (Mandatory)  
Lot 106, Leong Seng Guan S.A., 70400 Seremban,  
Negeri Sembilan, Malaysia  
Tel: 603-89336000  
Fax: 603-89336002  
www.lab-seremban.com.my

**STRENGTH REPORT FOR CONCRETE CUBE TEST**

LAB (Mandatory) (Mandatory) (Mandatory)  
Lot 106, Leong Seng Guan S.A., 70400 Seremban,  
Negeri Sembilan, Malaysia  
Tel: 603-89336000  
Fax: 603-89336002  
www.lab-seremban.com.my

**STRENGTH REPORT FOR CONCRETE CUBE TEST**

LAB (Mandatory) (Mandatory) (Mandatory)  
Lot 106, Leong Seng Guan S.A., 70400 Seremban,  
Negeri Sembilan, Malaysia  
Tel: 603-89336000  
Fax: 603-89336002  
www.lab-seremban.com.my

**STRENGTH REPORT FOR CONCRETE CUBE TEST**

LAB (Mandatory) (Mandatory) (Mandatory)  
Lot 106, Leong Seng Guan S.A., 70400 Seremban,  
Negeri Sembilan, Malaysia  
Tel: 603-89336000  
Fax: 603-89336002  
www.lab-seremban.com.my

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

**APPROVED SIGNATURE**  
*[Signature]*  
LAB (Seremban) SDN. Bhd.  
The Project on Sector  
Testing Seremban Department

5.4 RBM WALL SYSTEM DENSITY 2100

5.4.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 2100

No. Fat. JBM/PM/JP/RM/9-706-7219-451 (19)  
(PEMBAHARUAN: KELAPAN)

## SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
heraby certify

**CONCRETE DRYWALL / DRYWALL CONSTRUCTION**  
(MODEL RBM WALL SYSTEM 2.1)

Berdasarkan Piawaian  
Complying with

BS 476: PART 22: 1987 & ASTM E2226-10

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY TRADING SDN BHD** (101009-P)  
Lot 108, Lorong Senawang 4/3  
Senawang Industrial Estate  
70450 Seremban  
Negeri Sembilan Darul Khusus

Tempoh sah perakuan: 06/03/2022 hingga 06/03/2024

(PKPJB) KAMARULZAMAN MALIK ABDULLAH  
Pegawai  
Bahagian Perancangan dan Penyelidikan  
i.p. Kelisa Pengarah  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 19 April 2022

Peringatan:  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

LAMPIRAN A1

WALL SYSTEM  
(RBM SHEAR WALL SYSTEM 2.1)  
2 HOURS (LOADBEARING)

JENAMA : RBM  
MODEL : RBM WALL SYSTEM 2.1 (RBM CONCRETE)  
NOMINAL THICKNESS : 100 mm  
RBM BUILDING MACHINERY TRADING SDN BHD  
(101009-P)

INTEGRITI : 180 MINIT  
INSAJILASI : 161 MINIT  
LOAD BEARING CAPACITY : 180 MINIT

SIRIM 2013FE0352 (10/10/2013), SIRIM 2013CBD135  
(10/09/2013), SIRIM 2018FE0041 (23/01/2018) & SIRIM  
2018CBD007 (17/01/2018)

PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI  
SEPERTIMANA DALAM LAPORAN UJIJAN DAN UBEL 1984  
SERTA PERLU MEMATUHI SYARAT-SYARAT TAMBAHAN  
SEPERTI DI LAMPIRAN A2 & A3.

Tempoh sah perakuan: 06/03/2022 hingga 06/03/2024





## 5.5 RBM WALL SYSTEM G20

### 5.5.1 BOMBA CERTIFICATE RBM WALL SYSTEM G20 (LOAD BEARING)

No. Fail: JBPM/J.P.RMP/ 700-7/2226-101 (6)  
(PEMBAHARUAN: PERTAMAI)

**SIJIL PEPASANGAN  
KESELAMATAN KEBAKARAN**

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
herby certify

**SISTEM DINDING / WALL SYSTEM  
(MODEL: RBM CONCRETE G20)**

Berdasarkan Piawaitan  
Complying with

BS 476: PART 21: 1987, MS EN 12390-3: 2012 & MS EN 12390-7: 2012

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY SDN BHD** (prosesor)  
Lot 107, Senawang Industrial Estate  
70460 Seremban  
Negeri Sembilan Darul Khusus

Tempoh sah perakuan: 25/02/2022 hingga 25/02/2024

(PKPJIB KAMARUZAMAN MALIK/ABDULLAH)  
Pegarah  
Bahagian Perancangan dan Penyelidikan  
b.p. Ketua Pengerusi  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 17 Februari 2022

**\*\* Peringatan:**  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

LAMPIRAN A1

10.7/226-101 (5)  
(P1)

**SISTEM DINDING / WALL SYSTEM  
(LOAD BEARING) (2 JAM)**

MODEL : RBM CONCRETE G20  
MEASURED DENSITY : 1926 kg/m<sup>3</sup>  
MASS PER UNIT AREA : 193 kg/m<sup>2</sup> (IN AIR DRIED  
CONDITION)

INTEGRITI : 120 MINIT  
INSULASI : 120 MINIT

RBM BUILDING MACHINERY SDN BHD (1092023-01)  
SIRIM 2020CBDD0066 (10/12/2020) & SIRIM 2021FE0041  
(27/01/2021)

PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI  
UJIAN DAN UBBL 1984 SEPERTIMANA DALAM LAPORAN  
UJIAN SERTA PERLU MEMATUHI SYARAT-SYARAT  
TAMBAHAN SEPerti Di LAMPIRAN A2 & A3

Tempoh sah perakuan: 25/02/2022 hingga 25/02/2024

## 5.6 RBM WALL SYSTEM G25

### 5.6.1 BOMBA CERTIFICATE RBM WALL SYSTEM G25 (LOAD BEARING)

No. Fat: JBP/PM/JP\_RNP: 700-712/25-103 (4)  
(PEMBAHARUAN: PERTAMA)

# SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
hereby certify

**SISTEM DINDING / WALL SYSTEM**  
(MODEL: RBM CONCRETE G25)

Berdasarkan Piawaian  
Complying with

BS 476: PART 21: 1987 & ASTM E2226-10

Syarikat Berdaftar  
Registered company

**RBM BUILDING MACHINERY TRADING SDN BHD** (4035224-E)  
Lot 108, Lorong Senawang 4/3  
Senawang Industrial Estate  
70450 Seremban  
Negeri Sembilan Darul Khusus

Tempoh sah perakuan: 30/03/2022 hingga 30/03/2024

(PKPJ) KAMARUZZAMAN MALIK ABDULLAH  
Pengerah  
Bahagian Perancangan dan Penyelidikan  
b.p. Ketua Pengerah  
Jabatan Bomba dan Penyelamat Malaysia

Tarikh: 19 April 2022

Peringatan:  
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

LAMPIRAN A1

700-712/25-103 (4)  
21 (P1)

SISTEM DINDING / WALL SYSTEM  
(LOAD BEARING) (2 JAM)

MODEL : RBM CONCRETE G25  
TOTAL THICKNESS : 100 mm  
COMPRESSIVE STRENGTH : 28.7 N/mm<sup>2</sup>

INTEGRITI : 120 MINIT  
INSULASI : 120 MINIT

RBM BUILDING MACHINERY TRADING SDN BHD  
(839526-P)

SIRIM 2021FE0042 (27/01/2021) & SIRIM 2021CBD0001  
(08/01/2021)

PEMASANGAN HENDAKLAH MEMATUHI SPESIFIKASI  
SEPERTIMANA DALAM LAPORAN UJIAN DAN UBBL 1984  
SERTA PERLU MEMATUHI SYARAT-SYARAT TAMBAHAN  
SEPERTI DI LAMPIRAN A2 & A3.

Sah perakuan: 30/03/2022 hingga 30/03/2024

**5.7 WATER ABSORPTION TEST REPORT**



**CLIENT :**  
**TAJUK PROJEK :**  
**UJIAN UNTUK :**  
**TARIKH BANCUMAN :**  
**TARIKH UJIAN :**

Foundations, Soil & Concrete Specialists  
801, Lot 46339, Taman Sg. Baling, Jalan Sungai Laya, 10100 Seremban, N. Sembilan  
Tel: 64351138 Fax: 64351139

**RBM BUILDING MACHINERY TRADING SDN. BHD.**

	Resapan Air
	23.05.2020
	22.06.2020

MS 78:1972

Nombor	Berat Awal(gm) <small>(terlepas dikeringkan dalam oven)</small>	Berat Akhir(gm) <small>(selepas rendam dalam air)</small>	Kadar Resapan	Berat sebelum ujian(gm)
A2	7107	7454	4.88	7375
B2	7129	7482	4.90	7399

**KADAR RESAPAN =**  $\frac{\text{BERAT AKHIR - BERAT AWAL}}{\text{BERAT AWAL}} \times 100\%$




**HJ. ABD. HOLED IDHAK**  
S. B. Ph.D. (C)  
800007  
MR. 228.1.1.142

73

6.0 CERTIFICATE

 <p style="text-align: center;"><b>MALAYSIA</b></p> <p style="text-align: center;"><b>CERTIFICATE OF GRANT OF A PATENT</b></p> <p>In accordance with Section 31 (2) of the Patents Act 1983 a patent for an invention having grant number MY-187388-A has been granted to RBM BUILDING MACHINERY TRADING SDN BHD, in respect of an invention having the following particulars:</p> <p><b>TITLE</b> : A. CONCRETE PREPARATION AND SPRAYING MACHINE</p> <p><b>FILING DATE</b> : 23 JULY 2019</p> <p><b>PRIORITY DATE</b> : NONE</p> <p><b>NAME OF INVENTOR</b> : GOH CHUA WOO GOH CHEE CHIN</p> <p><b>PATENT OWNER</b> : RBM BUILDING MACHINERY TRADING SDN BHD LOT 107&amp;108, LORONG SENAWANG 4 SENAWANG INDUSTRIAL ESTATE 70450 SEREMBAN NEGERI SEMBILAN MALAYSIA</p> <p><b>DATE OF GRANT</b> : 22 SEPTEMBER 2021</p> <p><b>DURATION OF PATENT</b> : 23 JULY 2019 UNTIL 23 JULY 2039</p> <p><b>END OF PROTECTION</b> : 21 SEPTEMBER 2022 (SUBSEQUENT ANNUAL FEE SHALL FOLLOW AS STATED IN THE SCHEDULE OF FEES AT THE BACK OF THIS PAGE)</p> <p>Dated this 22 day of SEPTEMBER 2021</p> <div style="text-align: right;">               (ZULKARNAIN MUHAMMAD)              Deputy Registrar of Patents              MALAYSIA         </div>	 <p style="text-align: center;"><b>MALAYSIA</b></p> <p style="text-align: center;"><b>CERTIFICATE OF GRANT OF A PATENT</b></p> <p>In accordance with Section 31 (2) of the Patents Act 1983 a patent for an invention having grant number MY-187388-A has been granted to RBM BUILDING MACHINERY TRADING SDN BHD, in respect of an invention having the following particulars:</p> <p><b>TITLE</b> : INTEGRATED MORTAR AND/OR CONCRETE APPLYING MACHINE</p> <p><b>FILING DATE</b> : 13 AUGUST 2008</p> <p><b>PRIORITY DATE</b> : NONE</p> <p><b>NAME OF INVENTOR</b> : GOH CHUA WOO</p> <p><b>PATENT OWNER</b> : RBM BUILDING MACHINERY TRADING SDN BHD LOT 102, SENAWANG INDUSTRIES ESTATE 70450 SEREMBAN NEGERI SEMBILAN MALAYSIA</p> <p><b>DATE OF GRANT</b> : 30 AUGUST 2013</p> <div style="text-align: right;">               (SHAMSIAH BINTI KAMARUDDIN)              Registrar of Patents              MALAYSIA         </div>	 <p style="text-align: center;"><b>MALAYSIA</b></p> <p style="text-align: center;"><b>CERTIFICATE OF GRANT OF A PATENT</b></p> <p>In accordance with Section 31(2) of the Patents Act 1983 a patent for an invention having grant number MY-187388-A has been granted to GOH CHUA WOO in respect of an invention having the following particulars:</p> <p><b>TITLE</b> : APPARATUS FOR APPLYING MORTAR OR CONCRETE TO A SURFACE BY SPRAYING</p> <p><b>FILING DATE</b> : 14 JUNE 2008</p> <p><b>PRIORITY DATE</b> : NONE</p> <p><b>NAME OF INVENTOR</b> : GOH CHUA WOO GOH THEAM COO</p> <p><b>PATENT OWNER</b> : GOH CHUA WOO 5D 24, SENAWANG LIGHT INDUSTRIAL ESTATE 65 MILES, JALAN TAMPIN 70200 SEREMBAN, NEGERI SEMBILAN MALAYSIA</p> <p><b>DATE OF GRANT</b> : 31 OCTOBER 2007</p> <div style="text-align: right;">               (MOHD. AMLAN BEN ABBAS)              Registrar of Patents              MALAYSIA         </div>
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PATENT GRANTED CERTIFICATE



Perbadanan Harta Intelektual Malaysia  
Intellectual Property Corporation of Malaysia

TRADE MARKS ACT 1976  
TRADE MARKS REGULATIONS 1997  
CERTIFICATE OF REGISTRATION  
(Regulation 36)



**Trade mark no** : 06615181  
**To** : RBM BUILDING MACHINERY TRADING SDN. BHD.

I HEREBY CERTIFY THAT under the provisions of the Trade Marks Act 1976 and the Trade Marks Regulations 1997, the above-numbered trade mark has been registered in your name as proprietor of the said trade mark in the Register for a period of ten (10) years from 24-06-2006 to 24-06-2016 in Class 7 in respect of the following goods:

MACHINE FOR APPLYING MORTAR OR CONCRETE TO A SURFACE, SPRAY PLASTERING MACHINE AND PLASTERING MACHINE USED FOR BUILDING CONSTRUCTION, ALL INCLUDED IN CLASS 07.

(ABDUL AZIZ B. ISMAIL)  
REGISTRAR OF TRADE MARKS  
MALAYSIA  
DATE ISSUED: 14/09/08



PERBADANAN HARTA INTELEK MALAYSIA  
INTELLECTUAL PROPERTY CORPORATION OF MALAYSIA

AKTA REKA BENTUK PERINDUSTRIAN 1996  
PERATURAN-PERATURAN REKA BENTUK PERINDUSTRIAN 1999  
(Peraturan 20)



PERAKUAN PENDAFTARAN  
SUATU REKA BENTUK PERINDUSTRIAN

Number Pendaftaran : MY 07-01001-0101  
Tarikh Pendaftaran : 19 Jun 2007  
Tarikh Perseki : 19 Jun 2007  
Tarikh Pendaftaran : 21 Mac 2008  
Barang atau perkhidmatan yang digilanginya : PLASTERING MACHINE  
Reka Bentuk Perindustrian ini dibentangkan dan diumumkan di bawah Akta Reka Bentuk Perindustrian 1996 dan Peraturan Reka Bentuk Perindustrian 1999, Reka Bentuk Perindustrian atas nama Reka Bentuk Perindustrian yang representasi atau representasi-representasi adalah sama pada keseluruhannya dengan perkhidmatan di atas, atau nama BUILDING MACHINERY TRADING SDN. BHD. di alamat NO. SD14, WANG LIGHT INDUSTRIAL ESTATE, 4<sup>th</sup> MILES, JALAN TAMPIN, 70450 IRAN, NEGERI SEMBILAN, MALAYSIA berkenaan dengan suatu perkhidmatan Reka Bentuk Perindustrian

(MOHD. FAHIZUDIN BIN MOHD. SHARUJ)  
P.P. Pendaftaran  
Reka Bentuk Perindustrian Malaysia

INDUSTRIAL DESIGN CERTIFICATE

BRAND REGISTERED CERTIFICATE



CIDB IBS CERTIFICATE

## IBS MANUFACTURER & PRODUCT ASSESSMENT & CERTIFICATION IMPACT

**Adalah dengan ini disahkan bahawa :**  
It is hereby verified that:

No. Sijil : 10521  
Serial No. :

**RBM BUILDING MACHINERY TRADING SDN. BHD. (639526-P),  
LOT 108, LORONG SENAWANG 4/3,  
SENAWANG INDUSTRIAL ESTATE,  
70450 SEREMBAN, NEGERI SEMBILAN.**

**Merupakan :**  
Is :

**PENGELUAR**

**Lokasi Kilang :**  
Factory Location :

**LOT 108, LORONG SENAWANG 4/3,  
SENAWANG INDUSTRIAL ESTATE,  
70450 SEREMBAN, NEGERI SEMBILAN.**

**Sabagai syarikat Status IBS yang mengeluarkan produk IBS berikut:**  
As an IBS status company that manufactures the following IBS components:

**SISTEM ACUAN BERULANG:**  
- RBM FORMWORK SYSTEM

**No. Laporan :**  
Report No. :

**FNS300821IBS10521**

**Tarikh Dikeluarkan :**  
Issue Date :

**15 OCTOBER 2021**

**Kategori :**  
Category :

**PENGELUAR**

**Sah Sehingga :**  
Valid Until :

**15 APRIL 2022**

**Standard Rujukan :**  
Reference Standard :

**TECHNICAL OPINION**

**DATUK IR. ELIAS ISMAIL**  
Timbalan Ketua Ekekuatif I

**CIDB IBS SDN BHD**  
Lot 8, Jalan Chan Sow Lin  
55000 Kuala Lumpur  
Malaysia

TEL: 03-92816909  
FAX: 03-92815870

Email Web:  
www.ibscertnw.com.my

**Pendaftaran ini hendaklah diperbaharui selewat-lambatnya 30 hari sebelum tarikh tamat tempoh.**  
This registration shall be renewed within 30 days before expiration date.

