IBS

INDUSTRIALISE BUILDING SYSTEM









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1.0 PROJECT REFERENCE



LOCATION: TUARAN, SABAH, MALAYSIA

TYPE: 431 UNITS, DOUBLE STOREY TERRACE







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







LOCATION: GUA MUSANG, KELANTAN, MALAYSIA

TYPE: DOUBLE STOREY SEMI-D







LOCATION: LAHAD DATU, SABAH, MALAYSIA TYPE: 2000 UNITS, SINGLE STOREY TERRACE







LOCATION: KEDAH, MALAYSIA TYPE: DOUBLE STOREY SEMI-D







LOCATION: PAHANG, MALAYSIA
TYPE: DOUBLE STOREY CLUSTER







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







LOCATION: TERENGGANU, MALAYSIA

TYPE: DOUBLE STOREY TERRACE







LOCATION: KUNAK, MALAYSIA

TYPE: 54 UNITS, SINGLE STOREY CLASSROOM







LOCATION: CAPE TOWN, SOUTH AFRICA

TYPE: SINGLE STOREY HOUSE







LOCATION: SABAH, MALAYSIA
TYPE: SINGLE STOREY TERRACE







LOCATION: SAUDI ARABIA

TYPE: DOUBLE STOREY BUNGALOW



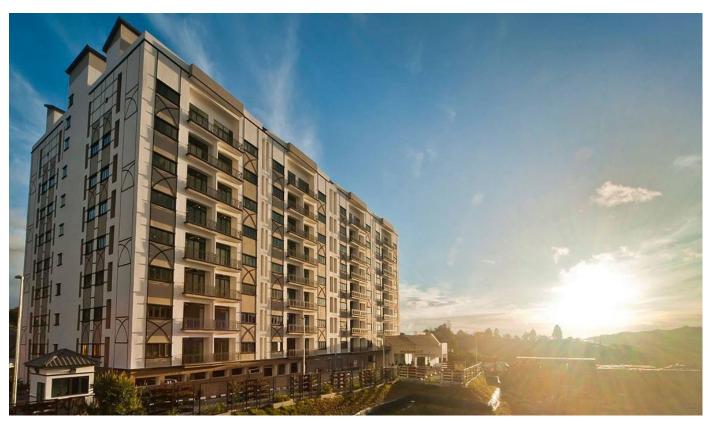




LOCATION: PUTRAJAYA, MALAYSIA
TYPE: 3 STOREYS SUPERLINK HOUSE

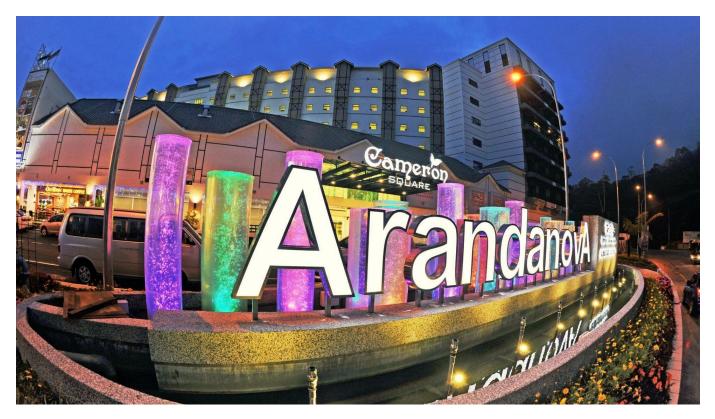






LOCATION: CAMERON HIGHLAND, MALAYSIA

TYPE: HIGHRISE BUILDING HOTEL



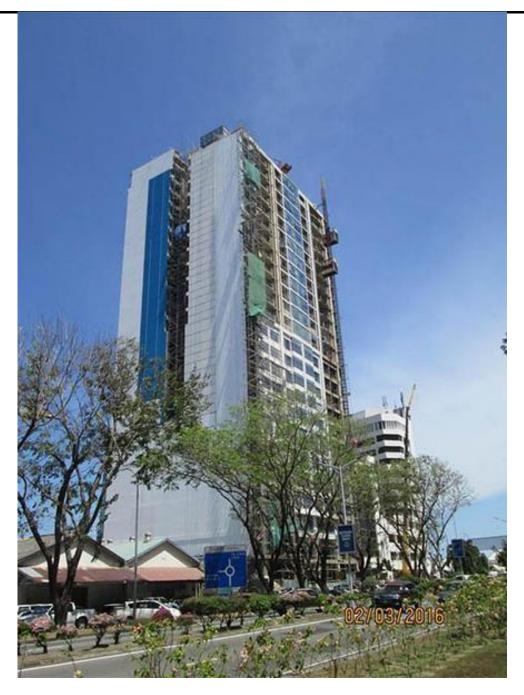




LOCATION: SARAWAK, MALAYSIA
TYPE: DOUBLE & SEMI-D HOUSING







LOCATION: SABAH, MALAYSIA

TYPE: HIGHRISE BUILDING HOTEL





LOCATION: MEDAN CITY, INDONESIA

TYPE: HIGHRISE SHOPPING MALL







LOCATION: METRO MANILA, PHILIPPINES

TYPE: SCHOOL FOR MINISTER







LOCATION: BRUNEI

TYPE: HIGHRISE BUILDING HOTEL







LOCATION: MEDAN CITY, INDONESIA

TYPE: SHOPLOT







LOCATION: PHILIPPINES

TYPE: TOWNHOUSE







LOCATION: MALAYSIA
TYPE: WATER TANK

BUILDING SYSTEM: RBM BUILDING SYSTEM







LOCATION: KUALA LUMPUR, MALAYSIA

TYPE: HIGHRISE BUILDING







LOCATION: MEDAN, INDONESIA

TYPE: HOSPITAL

BUILDING SYSTEM: RBM BUILDING SYSTEM







LOCATION: KUALA LUMPUR, MALAYSIA

TYPE: HIGHRISE BUILDING







LOCATION: PUTRAJAYA, MALAYSIA

TYPE: OFFICE BUILDING







LOCATION: KUALA LUMPUR, MALAYSIA

TYPE: SHOPPING MALL







LOCATION: KELANTAN, MALAYSIA

TYPE: MOSQUE

BUILDING SYSTEM: RBM BUILDING SYSTEM







LOCATION: PUTRAJAYA, MALAYSIA

TYPE: SHOPPING MALL







LOCATION: JOHOR BAHRU, MALAYSIA

TYPE: HIGHRISE APARTMENT

BUILDING SYSTEM: RBM BUILDING SYSTEM







LOCATION: PHILLIPINES

TYPE: SINGLE STOREY TERRACE HOUSE







LOCATION: PHUKET, THAILAND TYPE: SINGLE STOREY HOUSE







LOCATION: NEGERI SEMBILAN, MALAYSIA

TYPE: FACTORY WALL







LOCATION: TERENGGANU, MALAYSIA

TYPE: SINGLE STOREY TERRACE







LOCATION: TERENGGANU, MALAYSIA

TYPE: SINGLE STOREY TERRACE







LOCATION:KOTA KINABALU, SABAH

TYPE: ART GALLERY





2.0 PRODUCTS

2.1 INTEGRATED CONCRETE MACHINE (MODEL: RBM-3000)

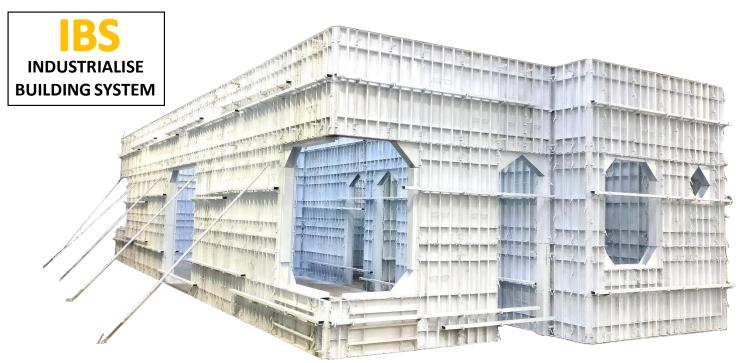


RBM Integrated Concrete Machine, model: RBM-3000 (Patent Granted: MY-133290-A, MY-149328-A and MY-187368-A) is a multi-function machine that integrated with **SMART & INNOVATIVE** technologies for different type of application & comply with building requirement in Green, Systematic and Energy Efficient 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 0-20m³/hour.



2.2 RBM FORMWORK SYSTEM (IBS 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 is 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).





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

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4.0 SPECIFICATION

Sample

Item	Description	Unit	Qty	Rate	Amount	
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А	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 mm Thick suspended slab (water tank slab) Concrete Structural Specification "RBM CONCRETE 2.1" for concrete structure only					
	Proprietary System: 100mm thickness "RBM WALL SYSTEM 2.1" load bearing, Compressive Strength: Grade 30.0N/mm²@28days; Density 2,100kg/m3 as SIRIM 2013FE0352, 2013CBD135, 2018FE0041 & 2018CBD007, 2hours 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 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.	m³				
В	Wall Specification					
I	"RBM CONCRETE G25" for external and internal wall only Proprietary System: 100mm thickness "RBM WALL SYSTEM G25" load bearing, Compressive Strength: Grade 25N/mm²@28days as SIRIM 2021FE0042 & 2021CBD0001, 2hours fire rated with BOMBA approval BS 476:PART 21:1987 & 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.	m ³	-	_	_	-



II	"RBM WALL SYSTEM G20" for external & internal wall only			
	Proprietary System: 100mm thickness "RBM WALL SYSTEM G20" load bearing, Compressive Strength: Grade 20.0N/mm²@28days; Density 1,926 kg/m3 as SIRIM 2021FE0041 & 2020CBD0066, 2hours fire rated with BOMBA approval BS 476:PART 21:1987, MS EN 12390-3: 2012 & 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.	m³		
III	"RBM WALL SYSTEM 2.1" for external & internal wall only Proprietary System: 100mm thickness "RBM WALL SYSTEM 2.1" load bearing, Compressive Strength: Grade 30.0N/mm²@28days; Density 2,100kg/m3 as SIRIM 2013FE0352, 2013CBD135, 2018FE0041 & 2018CBD007, 2hours 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 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.	m³		
IV	"RBM WALL SYSTEM 1.8" for external & internal wall only Proprietary System: 100mm thickness "RBM WALL SYSTEM 1.8" load & non-load bearing, Compressive Strength: Grade 12.0 N/mm²@28days; Density 1,800kg/m3 as SIRIM 2018FE0862 & 2018CBD0187 (Load bearing) and SIRIM 2018FE0863 (Non-Load Bearing), 2hours fire rated with BOMBA approval BS 476:PART 21:1987 & 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.	m^3		



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V	"RBM WALL SYSTEM 1.6" for external & internal wall only				
	Proprietary System: 100mm thickness "RBM WALL SYSTEM 1.6" non-load bearing, Compressive Strength: Grade 7N/mm²@28days; Density 1,600kg/m3 as SIRIM 2019FE0187-S1 & 2019CBD0047, 2hours 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 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.	m³			
VI	"RBM WALL SYSTEM 1.2" for internal wall only Proprietary System: 100mm thickness "RBM WALL SYSTEM 1.2" non-load bearing, Compressive Strength: Grade 3.0 N/mm²@; Density 1,200kg/m³ as SIRIM 2021FE0496-S1, 2021FE0496, 2021CBD0022-S1 & 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.	m³			
C	Skim Coat/Tile Adhesive Specification Internal: "RBM Skim Coat" for Finishing work only 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.	m²			
11	External: "RBM Skim Coat" for Finishing work only 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.	m²			
III	Tile Adhesive: "RBM Tile Adhesive" for Finishing work only				



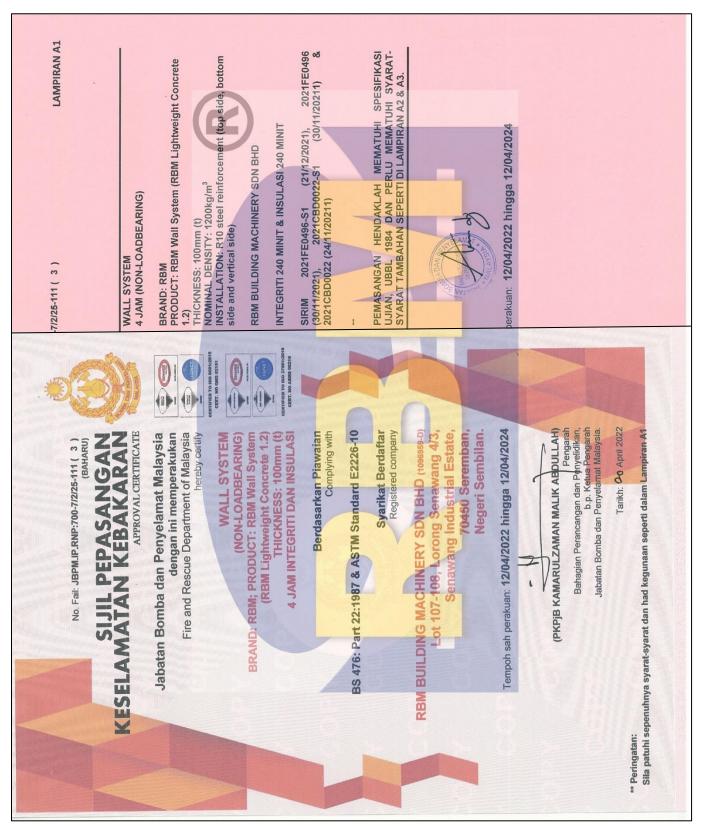
	Proprietary System: Applied 5mm "RBM Tile Adhesive" bedded coating pattern for tiles, mosaic or approved equivalent finishing, all in accordance to manufacturer specification details.	m²		
C1	Prepare and applycoats of 'Coral' or other equal and approved cementitious waterproofing compound including 45° angle fillet between slab and wall and a layermm 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	m²		
D	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	No.		



5.0 PRODUCT CERTIFICATE APPROVAL

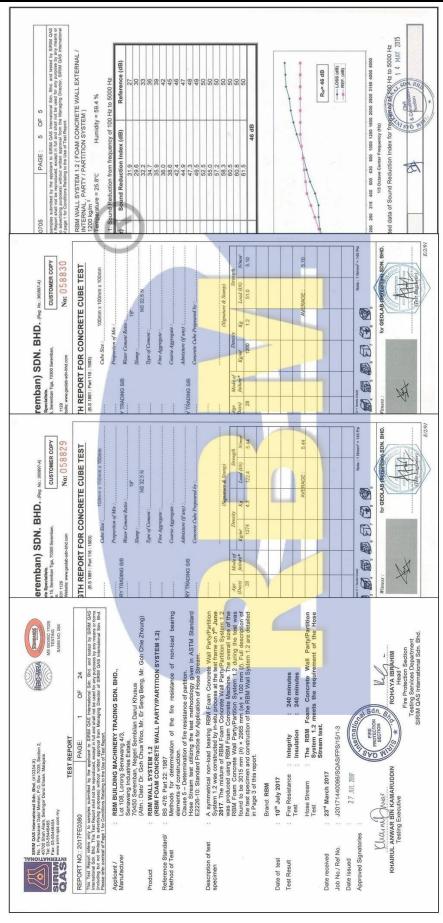
5.1 RBM WALL SYSTEM DENSITY 1200

5.1.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1200





5.1.2 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 1200





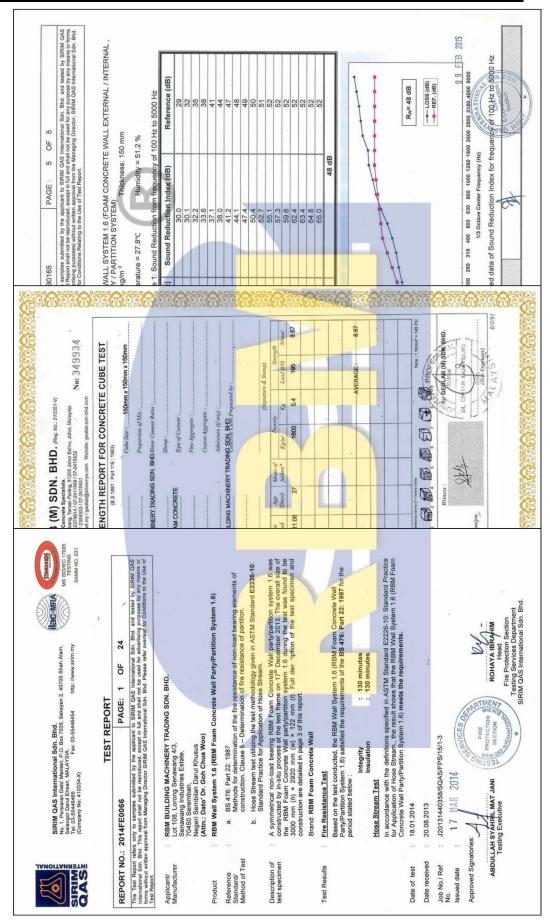
5.2 RBM WALL SYSTEM DENSITY 1600

5.2.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 1600





5.2.2 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 1600





5.3 RBM WALL SYSTEM DENSITY 1800

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





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





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





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





5.4 RBM WALL SYSTEM DENSITY 2100

5.4.1 BOMBA CERTIFICATE RBM WALL SYSTEM DENSITY 2100





5.4.2 SIRIM TEST REPORT RBM WALL SYSTEM DENSITY 2100





5.5 RBM WALL SYSTEM G20

5.5.1 BOMBA CERTIFICATE RBM WALL SYSTEM G20 (LOAD BEARING)





5.6 RBM WALL SYSTEM G25

5.6.1 BOMBA CERTIFICATE RBM WALL SYSTEM G25 (LOAD BEARING)





5.7 WATER ABSORPTION TEST REPORT





6.0 CERTIFICATE



PATENT GRANTED CERTIFICATE





BRAND REGISTERED CERTIFICATE



CERTIFICATE OF MINISTRY OF FINANCE MALAYSIA



ISO CERTIFICATE 9001:2015



CIDB IBS CERTIFICATE



