



Company Profile

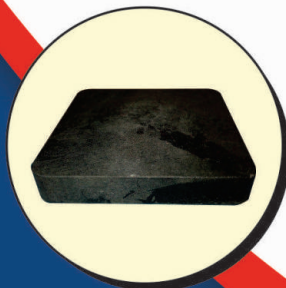
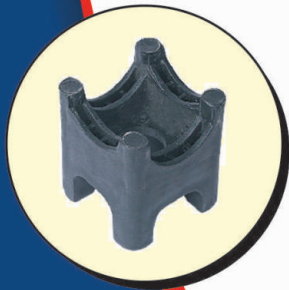


The Construction of World

ISMAIL

ENGINEERING WORKS

An ISO 9001 : 2015 Certified Company



E-mail : ismailengworks2023@gmail.com
mohdadzal197800@gmail.com

ISMAIL ENGINEERING WORKS

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Our Task

The Mission

Brief Profile of our product PVC/ HDPE / Concrete Cover Blocks of Various size and shapes:

Ismael present you with a world-class plastic product known as Cover blocks (Chair Type, Circular Type and Locking Type) used in place of Concrete Cover Blocks (In RCC Construction). These blocks not only help to keep the reinforcement bars at the specified place, they also offer convenience of use. Cover blocks is available in various sizes, and avoids the time consuming procedure of casting plain cement Concrete Cover Blocks.

The sizes of cover are always accurate as it is made in factory where moulds have already been designed with higher accuracy and the final PVC/HDPE blocks are made in injection moldings machine. In comparison to conventional type of covers the strength of PVC/HDPE cover blocks are much more higher and it hardly gets broken inside cement concrete during placing of heavy steel shutters or during using of heavy vibrators for settling down of concrete/ compaction of concrete.

DURABILITY AND LIFE CYCLE COST

Cover Blocks main function is to give proper cover to reinforcement while placing of concrete. If cover is not properly maintained than during ageing of structure, concrete chips off. If cover is not proper during the time of concreting, reinforcement is exposed to atmosphere, which leads to corrosion of reinforcement and hence weakening and finally collapses of any concrete structure. In most of the cases the importance of cover is not taken into consideration while concreting and after ageing it can be seen as a reason of failure of structure. Also one of the prime reason for not maintaining proper cover is because during placing of reinforcement and shuttering material and during vibration for settling concrete heavy loads come on Cover Blocks due to which approx 10% to 15% conventional cover blocks gets broken inside and which finally leads to improper cover. Also conventional Cover Blocks are not dimensionally accurate.

Our Certificate

 Government of India Form GIT REG-6 (Date Issue 10/11)			
Registration Certificate			
Registration Number : 09ALSA50061E1			
1. Legal Name	MICRO AZEAL		
2. Trade Name, if any	SMIL ENGINEERING WORKS		
3. Additional Trade names, if any			
4. Constitution of Business	Partnership		
5. Address of Principal Place of Business	Ground Ray, A-123, Sector 83, Phase 2, Noida, Gautam Buddha Nagar, Uttar Pradesh, 201301		
6. Date of Liability	09/10/2023		
7. Period of Validity	From	09/10/2023 To	Not Applicable
8. Type of Registration	Regular		REGULAR
9. Particulars of Approving	Centre		
Signatures			
Name	Dushyant Kumar		
Designation	Superintendent		
Constitutional Office	Issue Centre-14		
Date of issue of Certificate	27/10/2023		

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The Products

For Demanding Tasks

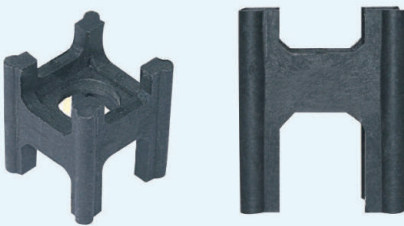
PVC COVER BLOCK 15-20



PRODUCT CODE: PVC-1520
 DIMENSIONS : 30X30X27MM(LXBXH)
 DIA OF REINFORCEMENT : 8-12 MM
 COVER: 15-20MM, USE: SLAB,
 TYPE: CHAIR
 STD. PACKING: 2500PCS PER BAG

For Lighter loads. Distance between
 Two Cover Block: 0.75 meters
 to 1.0 meter:

PVC COVER BLOCK 35-40



PRODUCT CODE: PVC-3540
 DIMENSIONS : 38X38X50MM(LXBXH)
 DIA OF REINFORCEMENT : 8-20 MM
 COVER: 35-40MM
 USE: BEAM/WALL/COLUMN
 TYPE: CHAIR
 STD. PACKING: 800 PCS PER BAG

25mm, 30mm, and 35mm, 40mm cover: For
 Column/Beam/Wall: For Lighter loads. Distance
 between Two Cover Block: 0.75 meters to 1.0 meter:

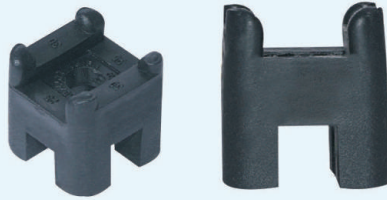
PVC COVER BLOCK 70-75 (HEAVY DUTY)



PRODUCT CODE: PVC HD-7075
 DIMENSIONS : 54X53X78MM (LXBXH)
 DIA OF REINFORCEMENT : 8-32 MM
 COVER: 70-75MM
 USE: RAFT
 TYPE: CHAIR
 STD. PACKING: 200PCS PER BAG

Where heavy loads exist. Distance between
 Two Cover Block: 0.90 meters to 1.0 meter:
 Generally 4 pieces in 1 sq meters.

PVC COVER BLOCK 25-30



PRODUCT CODE: PVC- 2530
 DIMENSIONS : 29X29X34MM(LXBXH)
 DIA OF REINFORCEMENT : 8-16 MM
 COVER: 25-30MM
 USE: SLAB
 TYPE: CHAIR
 STD. PACKING: 1500PCS PER BAG

For Lighter loads. Distance between
 Two Cover Block: 0.75 meters
 to 1.0 meter:

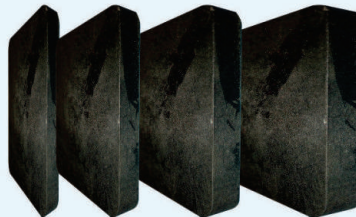
PVC COVER BLOCK 40-50 (HEAVY DUTY)



PRODUCT CODE: PVC HD-4050
 DIMENSIONS : 52X52X62MM (LXBXH)
 DIA OF REINFORCEMENT : 8-32 MM
 COVER: 40-50MM
 USE: RAFT
 TYPE: CHAIR
 STD. PACKING: 300 PCS PER BAG

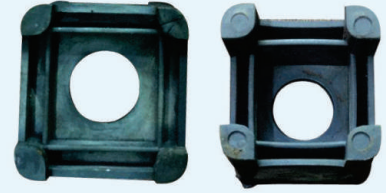
Where heavy loads exist. Distance between
 Two Cover Block: 0.90 meters to 1.0 meter:
 Generally 4 pieces in 1 sq meters.

PVC SIM PAD 10 MM TO 02 MM



PRODUCT CODE: PVC-10-5-3-2
 DIMENSIONS : 70X70 X10MM
 COVER: 10 MM
 USE: PRECAST WALL
 TYPE: SQUAR
 STD. PACKING: 500 PCS PER BAG

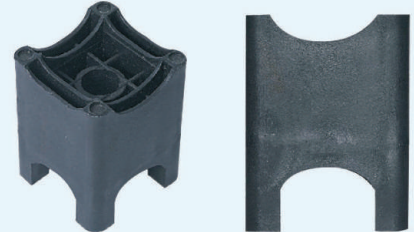
PVC COVER BLOCK 25-30 HD



PRODUCT CODE: PVC-25,30,35 HD
 DIMENSIONS : 38X38X50MM(LXBXH)
 DIA OF REINFORCEMENT : 8-32 MM
 COVER: 35MM
 USE: BEAM/WALL/SLAB
 TYPE: CHAIR
 STD. PACKING: 400 PCS PER BAG

25mm, 30mm, and 35mm cover: For
 Column/Beam/Wall: For Lighter loads. Distance
 between Two Cover Block: 0.75 meters to 1.0 meter:

PVC COVER BLOCK 60-65 (HEAVY DUTY)



PRODUCT CODE: PVC HD-6065
 DIMENSIONS : 52X52X70MM (LXBXH)
 DIA OF REINFORCEMENT : 8-32 MM
 COVER: 60-65MM
 USE: RAFT
 TYPE: CHAIR
 STD. PACKING: 200PCS PER BAG

Where heavy loads exist. Distance between
 Two Cover Block: 0.90 meters to 1.0 meter:
 Generally 4 pieces in 1 sq meters.

PVC COVER BLOCK 40-50MM STAR TYPE

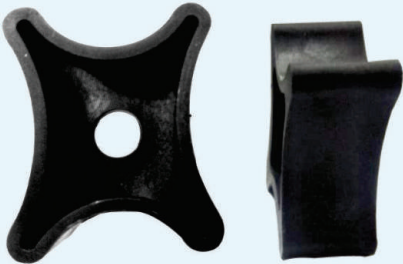


PRODUCT CODE: PVC STAR HD-4550
 DIMENSIONS : 61X53X28MM (LXBXH)
 DIA OF REINFORCEMENT : 8-32 MM
 COVER: 40-50MM
 USE: RAFT
 TYPE: STAR
 STD. PACKING: 400 PCS PER BAG

Where heavy loads exist. Distance between
 Two Cover Block: 0.90 meters to 1.0 meter:
 Generally 4 pieces in 1 sq meters.

Other Plastic Products

PVC COVER BLOCK 35-40MM STAR TYPE



PRODUCT CODE: PVC STAR-3540
DIMENSIONS : 48X41X31MM(LXBXH)
DIA OF REINFORCEMENT : 8-20 MM
COVER: 35-40MM
USE: BEAM/WALL/COLUMN
TYPE: STAR
STD. PACKING: 1000 PCS PER BAG
25mm, 30mm, and 35mm, 40mm cover: For Column/Beam/Wall: For Lighter loads. Distance between Two Cover Block: 0.75 meters to 1.0 meter:

PVC COVER BLOCK 25-30MM STAR TYPE



PRODUCT CODE: PVC STAR- 2530
DIMENSIONS : 33X29X16MM(LXBXH)
DIA OF REINFORCEMENT : 8-16 MM
COVER: 25-30MM
USE: SLAB
TYPE: STAR
STD. PACKING: 2000PCS PER BAG
For Lighter loads. Distance between Two Cover Block: 0.75 meters to 1.0 meter:

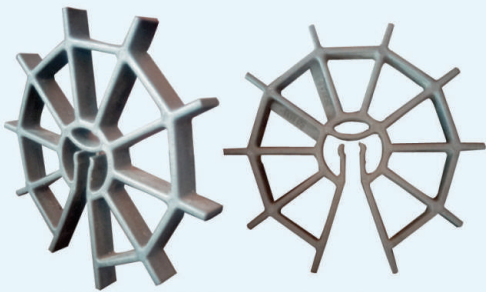
PVC COVER BLOCK 20-25MM STAR TYPE



PRODUCT CODE: PVC STAR-2025
DIMENSIONS : 29X24X12MM(LXBXH)
DIA OF REINFORCEMENT : 8-12 MM
COVER: 15-20MM, USE: SLAB,
TYPE: STAR
STD. PACKING: 5000PCS PER BAG

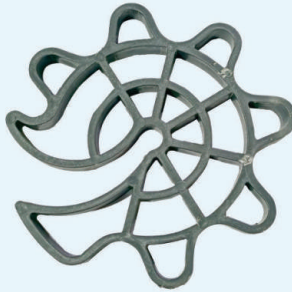
For Lighter loads. Distance between Two Cover Block: 0.75 meters to 1.0 meter:

HDPE COVER BLOCK 50 (CIR)



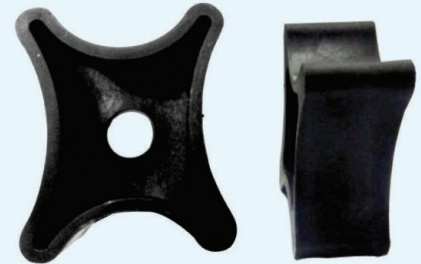
PRODUCT CODE: CIR-40, 50
DIMENSIONS : 10x83X14MM
DIMENSIONS : 8x96X21MM
DIA OF REINFORCEMENT : 8-12 MM
COVER: 40, 50MM
USE: COLUMN/WALL/BEAM
TYPE: CIRCULAR
STD. PACKING: 500 PCS PER BAG

HDPE COVER BLOCK 75 (CIR)



PRODUCT CODE: CIR-75
DIMENSIONS : 10x75X150MM
DIA OF REINFORCEMENT : 8-12 MM
COVER: 75MM (DIA 150MM)
USE: COLUMN/WALL/BEAM
TYPE: CIRCULAR
STD. PACKING: 300 PCS PER BAG

PVC COVER BLOCK 60-75MM STAR TYPE



PRODUCT CODE: PVC STAR-60-75
DIMENSIONS : 80X50X70MM(LXBXH)
DIA OF REINFORCEMENT : 8-32 MM
COVER: 60-75MM
USE: Raft Footing
TYPE: STAR
STD. PACKING: 200 PCS PER BAG

COVER BLOCK 75x140MM (CHAIR TYPE)



PRODUCT CODE: CHAIR-75x140 MM
DIMENSIONS : 165X80X65MM(LXBXH)
DIA OF REINFORCEMENT : 12-32 MM
COVER: 75x140 MM
USE: SLAB CORNER
TYPE: CHAIR TYPE
STD. PACKING: 200PCS PER BAG

For Lighter loads. Distance between Two Cover Block: 0.35 meters to 0.5 meter:

HDPE COVER BLOCK 50MM (CLIP TYPE)



PRODUCT CODE: SPC-40, 50 MM
DIMENSIONS : 70X40X05MM(LXBXH)
60X40X05MM(LXBXH)
DIA OF REINFORCEMENT : 8-12 MM
COVER: 40, 50 MM
USE: METRO/SEGMENT
TYPE: CLIP TYPE
STD. PACKING: 1500PCS PER BAG

For Lighter loads. Distance between Two Cover Block: 0.35 meters to 0.5 meter:

HDPE COVER BLOCK 30MM (CLIP TYPE)

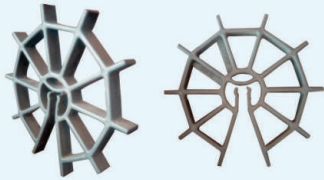


PRODUCT CODE: SPC-30
DIMENSIONS : 18X33X57MM(LXBXH)
DIA OF REINFORCEMENT : 8-12 MM
COVER: 30MM
USE: METRO/SEGMENT
TYPE: CLIP TYPE
STD. PACKING: 2000PCS PER BAG

For Lighter loads. Distance between Two Cover Block: 0.35 meters to 0.5 meter:

Other Plastic Products

HDPE COVER BLOCK 20/30 (CIR)



PRODUCT CODE: CIR-20/30
 DIMENSIONS : 70x65x10MM
 DIA OF REINFORCEMENT : 8-12 MM
 COVER: 20/30MM
 USE: COLUMN/WALL/BEAM
 TYPE: CIRCULAR
 STD. PACKING: 1200/3000 PCS
 PER BAG

PVC S HOOK



PRODUCT CODE: S HOOK 6 INCH
 DIMENSIONS : 150x70x15 MM
 DIA OF REINFORCEMENT : 8-32 MM
 USE: CABLE
 TYPE: S HOOK
 STD. PACKING: 200 PCS
 PER BAG

PVC FOOTREST



PRODUCT CODE: PVC FOOTREST
 DIMENSIONS : 165x260x25 MM
 DIA OF REINFORCEMENT : 12 MM
 USE: WATER TANK / DRAINAGE
 STD. PACKING: 25 PCS
 PER BAG

PVC SIM STOPPER



PRODUCT CODE: SIM 3+5 MM
 DIMENSIONS : 70 x 30 X 5 MM
 COVER: 5,3MM
 USE: PRECAST/WALL
 TYPE: U
 STD. PACKING: 1000 PCS PER BAG

White PVC COVER BLOCK 20-30MM



PRODUCT CODE:
 DIMENSIONS : 45X40X3MM(LXBXH)
 DIA OF REINFORCEMENT : 8-12 MM
 COVER: 30MM
 USE: SLAB/BEAM
 TYPE: ROUND
 STD. PACKING: 2000PCS PER BAG

For Lighter loads. Distance between
 Two Cover Block: 0.35 meters to 0.5 meter:

MASHROOM PVC CAP SIZE 8-16 MM, 20-32 MM



PRODUCT CODE: SPC-40
 DIMENSIONS : 60X50X40MM(LXBXH)
 DIA OF REINFORCEMENT : 8-16 MM
 DIA OF REINFORCEMENT : 20-32 MM
 COVER: 32MM
 USE: STEEL BAR
 TYPE: ROUND
 STD. PACKING: 1000PCS PER BAG

For Lighter loads. Distance between
 Two Cover Block: 0.35 meters to 0.5 meter:

PVC DAMROO CAP



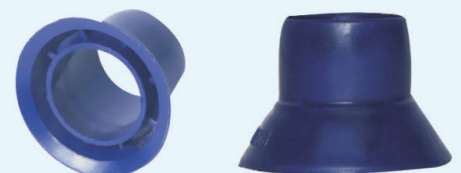
PRODUCT CODE: PMC 8, 20 MM
 DIMENSIONS : 70x30x5 MM
 COVER: 8,20MM
 USE: STEEL BAR
 TYPE: ROUND
 STD. PACKING: 1000 PCS PER BAG

PVC CAP PLYWOOD



PRODUCT CODE: CAP
 DIMENSIONS : 20MM, 25MM
 DIA OF REINFORCEMENT : 16-20MM
 USE: DOKA SHUTTERING ITEM
 STD. PACKING: 5000PCS PER BAG

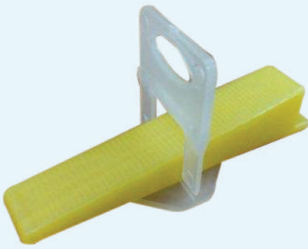
PVC ANCHOR CONE



PRODUCT CODE: DAC-20
 DIMENSIONS : 72x36x25MM
 DIA OF REINFORCEMENT : 16-20MM
 USE: DOKA SHUTTERING ITEM
 STD. PACKING: 3000PCS PER BAG

Other Plastic Products

Tiles Leveler



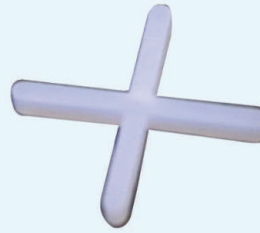
Size : 3-4 MM
Use : Adjustable Clamp
Universal Hand Tools For
Tile Leveling System

Pre Cast Cover Block



Size : 15-40 MM
Dia of Reinforcement : 8-12 MM
Cover : 15-40 MM
Use : Pre Cast

Tiles Spacer



Size : 2-3-4 MM
Use : Adjustment Tiles

Wedge Clip



Size : 3-4 MM
Use : Adjustable Clamp
Universal Hand Tools For
Tile Leveling System

PVC Chair Cover Block



Size : 95-120 MM
Dia of Reinforcement : 8-32 mm
Cover : 95 mm
Use : Slab

PVC CONE RED REUSABLE



PRODUCT CODE: RED-20
DIMENSIONS : 722-748x50MM
DIA OF REINFORCEMENT : 16-20MM
USE: DOKA SHUTTERING ITEM
STD. PACKING: 1000PCS PER BAG

Water Stopper



PRODUCT CODE: WS-25 MM
DIMENSIONS : 30x25x32 MM
DIA OF REINFORCEMENT : 20-25MM
USE: DOKA SHUTTERING ITEM
STD. PACKING: 500PCS PER BAG

PVC CONE 32 MM



PRODUCT CODE: PVC CONE-32
DIMENSIONS : 32x50x25MM
DIA OF REINFORCEMENT : 32MM
USE: DOKA SHUTTERING ITEM
STD. PACKING: 1000PCS PER BAG

Concrete Cover Block

Concrete Cover Block



Size : 75 mm
Dia of Reinforcement : 8-32 mm
Cover : 75 mm
Use : RAFT

Concrete Cover Block



Size : 30-40 mm
Dia of Reinforcement : 8-16 mm
Cover : 30-40 mm
Use : SLAB / BEAM

Concrete Cover Block



Size : 40-50-60 mm
Dia of Reinforcement : 8-32 mm
Cover : 40-50-60 mm
Use : RAFT / SLAB / BEAM

Concrete Cover Block



Size : 25 mm
Dia of Reinforcement : 8-25 mm
Cover : 25 mm
Use : SLAB / BEAM

Concrete Cover Block



Size : 75 mm
Dia of Reinforcement : 150x30 mm
Cover : 75 mm
Use : PILING

Concrete Cover Block



Size : 40-50 mm
Dia of Reinforcement : 8-12 mm
Cover : 40-50 mm
Use : COLUMN / PILING

Concrete Cover Block



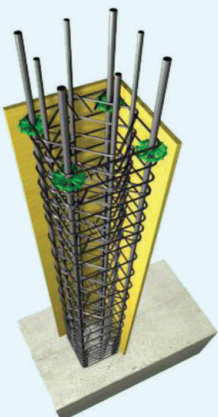
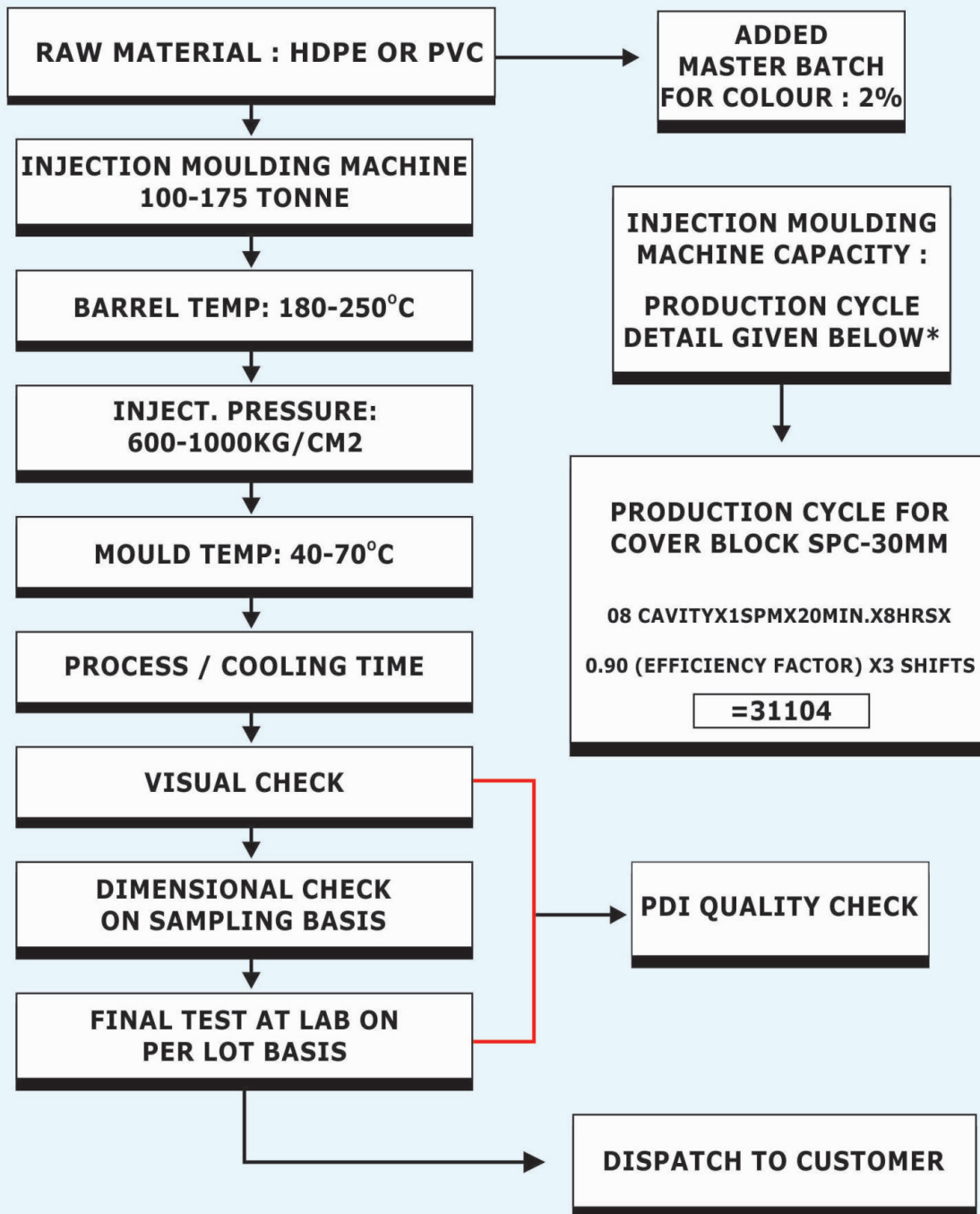
Size : 20-25 mm
Dia of Reinforcement : 8-12 mm
Cover : 20-25 mm
Use : SLAB

Concrete Cover Block



Size : 40 mm
Dia of Reinforcement : 8-32 mm
Cover : 40 mm
Use : COLUMN

THE MANUFACTURING



Specification and Government Approvals

Specification for PVC Cover Blocks has been fixed as follows:

Cover Block should be made of Poly Vinyl Chloride
Melting Point of Cover Block should be in between 140 to 165 C
Chloride Content % by mass must not be more than 0.100
Ash Content % by mass must not be more than 16%
Sulphate Content % by mass must not be more than 0.1%

As per IS456 : 2000 Section 12.3.2 the details for Cover are as follows:

Section 12.3.2 Page 26
Tolerance for Cover:
Unless Specified otherwise, actual concrete cover should not deviate from the required nominal cover by +1.0mm
Spacers, cover blocks should be made of concrete of same strength or PVC.
Accurate Reinforcement Cover means right protection to the steel Reinforcement and less Maintenance to building.
Also these covers blocks are tested with government quality marking Center for Plastic & Rubber Goods, Delhi Spectro Analytical Labs Limited Research Delhi for Compressive Loads, Chloride Content and Ash content.

Quality Control:

Dimensional Check on Sampling Basis with help of Vernier Caliper (In Works): 1 in 100
Visual Inspection (In Works): on every 1 in 50 sampling basis.
Compressive Load Test (Lab Test): On every Lot basis.
Melting Point (Deg C) (Lab Test): On every Lot basis.

Our Clients



An ISO 9001 : 2015 Certified Company

Head Office & Factory : A-133, Sector-83, Near Yakubpur, Phase-2,
Noida (U.P.) 201304

Contact : +91 9582320904, +91 9315487680

E-mail : ismailengworks2023@gmail.com, mohdafzal197800@gmail.com