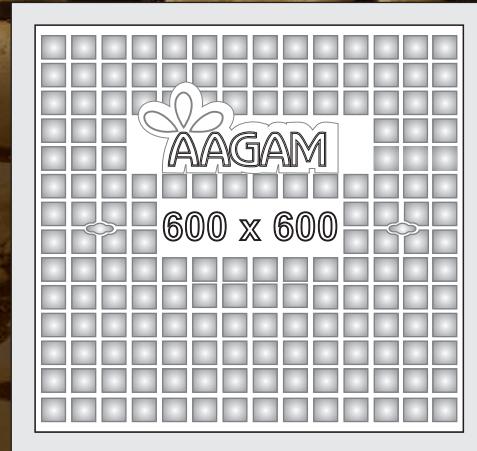




FRP Manhole Covers
Gully Covers
Gratings



Strength within
Pride throughout!!

Buildtek Polymers Private Limited, formerly Buildtech INC, established during 1999, the pioneer of promoting **ASTRAL** CPVC Pipes and Fittings; Plumbing & Drainage Solutions, having offices at Hosur, Coimbatore, Hyderabad, Chennai & Cochin with a network of more than 300 dealers, serving plumbing Industry from last two decades for residential, commercial & industrial buildings. **Buildtek** has vast experience dealing in whole range of Plumbing & Drainage Solutions; Polyethylene Insulations for Sanitary & HVAC; Sanitary Wares & Bath Fittings; Grease Separators for Industrial kitchens; Single Piece readymade Manhole Chambers & **FRP Manhole Covers**; related products importing from European countries, has set up an advanced state-of-the-art manufacturing facility for **AAGAM FRP (Fiber glass Reinforced Plastic or Polymer)** products at **Bidadi KIADB industrial Area, Bengaluru**. Equipped with most advanced machinery, Testing and R&D facilities, **AAGAM FRP** products manufactured strictly as per **BS EN 124:1994 Standards** by its professional production team. **AAGAM FRP Manhole Covers & related products like Gully Covers & Gratings** are the result of conscious and persistent process of evolution backed by continuous Research & Development by our enthusiastic engineering/production team with innovative ideas to give products with unmatched quality, strength & aesthetics.



FRP – Fiber Reinforced Plastic or Polymer is a composite material made of a polymer matrix reinforced with glass fibers. The fibers are in the form of woven roving, chopped strand mat and surface veil. The polymer is a polyester thermosetting plastic. Fiber-reinforced plastics are a category of composite plastics that specifically use fiber materials to mechanically enhance the strength and elasticity of plastics, that enables unmatched strength to weight ratio when compared to steel, iron or other metallic components. The product will not rust, remains clean, maintenance free & will have long lasting colours life due to impregnated pigments in the composite material.

AAGAM FRP Manhole Covers, Gully Covers & Gratings applications:

- Covering inspection chambers for water & sewage lines
- Covering Rainstorm drain lines
- Covering Gullies along drive ways, walkways & foot paths
- Covering chambers of Electrical & Telecom cabling ducts / Gas line
- Covering trenches at basement parking areas / Landscape areas
- Gratings are used for basement drains / trenches in apartments & commercial buildings and also various applications in Chemical, Pulp and paper, Electronic, Food and Beverage, Aircraft, Automotive and plating industries

AAGAM FRP Manhole Covers

- Light weight & cost effective alternative to Cast Iron & Ductile Iron Manhole covers
- The substantial reduction in weight is advantageous and provides cost savings both during installation and usage
- Excellent resistance to corrosion - Will not corrode, crumble or crack, impervious to most chemicals
- The use of non-conductive composite material eliminates the need for grounding and guards against electrical shock
- A non-skid surface & UV protection barrier layer
- Load bearing capacity (traffic load) from pedestrian to Trailer load movement
- Better impact strength
- Easy removable from frames as they do not jam with the frame like in other covers
- Change of load bearing capacity is possible just by changing the covers
- Non-metallic body eliminates possibility of theft
- Non conductive & non magnetic / Non sparking & fire retardant
- Colour impregnated surfaces, do not require periodical painting
- Customised top designs/corporate logos/warning letters/ customised sizes & colours offered for bulk requirements



Load Bearing Chart

Pedestrian Movement	Two Wheeler/ Light Vehicles	Four Wheeler Light Truck Load	Heavy Truck Load Movement	Trailer Load Movement
2.5T	5T	10T	20T	40T

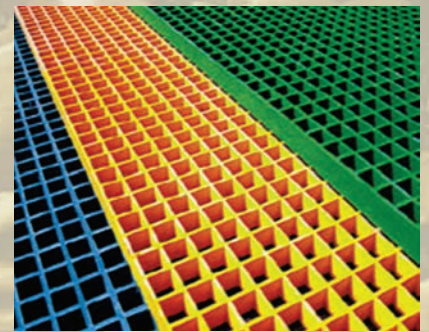
AAGAM FRP Gully Covers

- Light weight & High Strength
- Load bearing capacity (traffic load) from pedestrian to Trailer load movement
- High Corrosion resistance - Impervious to most chemicals
- High abrasion resistance & better impact resistance
- No water logging, permits the passage of water through itself
- Light & easy to handle
- Low maintenance & installation cost
- Free from fear of theft as they are non metallic
- Light & moderate weight, hence risk of injury is less



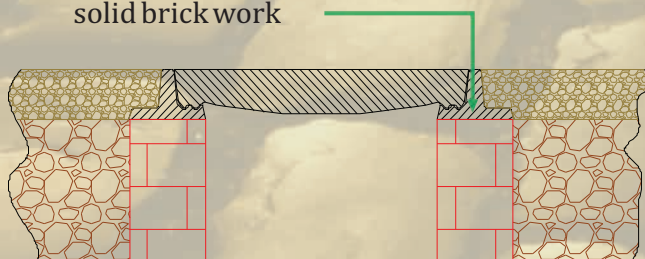
AAGAM FRP Gratings Special Features

- Light weight and easy installation.
- Can be cut easily with hand/cutting tools
- Corrosion Resistant unlike metal gratings.
- Fire Retardant & non-sparking, can be used where combustible gas or materials are present.
- Non-conductive. Good where electric hazards are present.
- Non-magnetic. Use in sensitive locations where the magnetic properties of metal grating are proven to be unfavourable.
- Low thermal conductivity. An excellent insulator and safeguard against inadvertent skin-contact with extreme temperature surfaces.
- Good impact resistant.
- Slip resistant and maintenance free

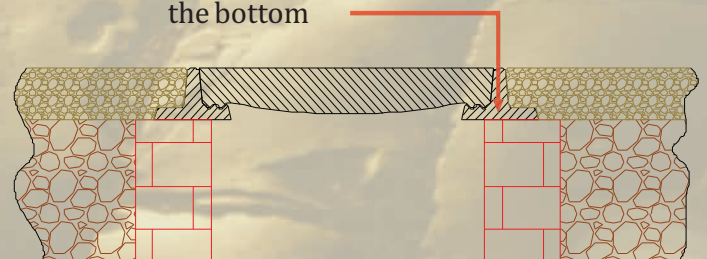


AAGAM FRP Products Installation

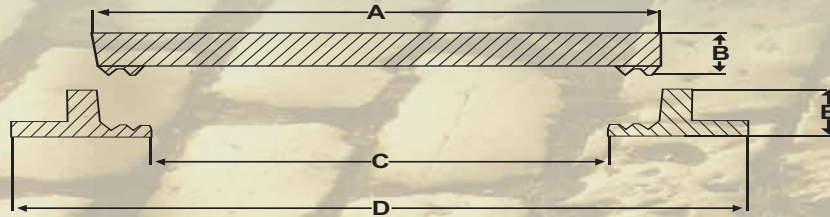
Correct way of installation where the frame is fully supported at the bottom by solid brick work



Wrong way of installation where frame is partially supported at the bottom



Dimension Details:



SQUARE MANHOLE COVERS

PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-SMC-1001	300X300	2.5	340X340	25	300X300	415X415	30
AG-SMC-1002	300X300	5.0	340X340	25	300X300	415X415	30
AG-SMC-1003	300X300	10.0	340X340	40	300X300	415X415	55
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-SMC-1004	450X450	2.5	505X505	40	450X450	580X580	45
AG-SMC-1005	450X450	5.0	505X505	40	450X450	580X580	45
AG-SMC-1006	450X450	10.0	505X505	40	450X450	580X580	45
AG-SMC-1007	450X450	20.0	505X505	40	450X450	580X580	45
AG-SMC-1008	450X450	40.0	505X505	40	450X450	580X580	45
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-SMC-1009A	600X600	2.5	655X655	40	600X600	735X735	45
AG-SMC-1009	600X600	5.0	655X655	40	600X600	735X735	45
AG-SMC-1010	600X600	10.0	655X655	40	600X600	735X735	45
AG-SMC-1011	600X600	20.0	655X655	40	600X600	735X735	45
AG-SMC-1012	600X600	40.0	655X655	60	600X600	735X735	45
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-SMC-1013	750X750	10.0	830X830	55	750X750	950X950	80
AG-SMC-1014	750X750	20.0	830X830	55	750X750	950X950	80
AG-SMC-1015	750X750	40.0	830X830	60	750X750	950X950	80
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-SMC-1016	900X900	20.0	980x980	60	900X900	1080	75
AG-SMC-1017	900X900	40.0	980x980	60	900X900	1080	75

Colors



CIRCULAR MANHOLE COVERS

PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-CMC-1018	600 Dia	5.0	664 Dia	40	600 Dia	765 dia	50
AG-CMC-1019	600 Dia	10.0	664 Dia	40	600 Dia	765 dia	50
AG-CMC-1020	600 Dia	20.0	664 Dia	40	600 Dia	765 dia	50
AG-CMC-1021	600 Dia	40.0	680 Dia	60	600 Dia	780 Dia	75
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-CMC-1022	900 Dia	10.0	970 Dia	50	900 Dia	1080 Dia	70
AG-CMC-1023	900 Dia	20.0	970 Dia	50	900 Dia	1080 Dia	70
AG-CMC-1024	900 Dia	40.0	980 Dia	60	900 Dia	1090 Dia	80

WATER GULLY COVERS

PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-WGC-1025	450X450	10.0	520X520	40	450X450	635X635	55
AG-WGC-1026	450X450	20.0	520X520	40	450X450	635X635	55
PRODUCT CODE	SIZE	TONNAGE	A	B	C	D	E
AG-WGC-1027	600X600	10.0	680X680	45	600X600	780X780	65
AG-WGC-1028	600X600	20.0	680X680	45	600X600	780X780	65

Note: Customised top designs / Corporate logos / Warning letters / Customised colours & sizes can be offered for bulk requirements

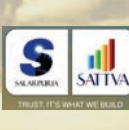
FRP Manhole Covers Comparison with CI/DI & RCC Manhole Covers

Property	AAGAM Manhole covers	Cast Iron & Ductile Iron Covers/RCC covers
Strength/ Weight Ratio	Very High	Moderate
Load Bearing Capacity	Pedestrian to Trailer load movements	Moderate
Corrosion Resistance	Impervious to most chemicals	Gets Rusted
Abrasion Resistance	High Abrasion Resistant	Low and Moderate
Impact strength	High	Moderate
Aesthetics & colour choice	High aesthetics with colour choice	Low aesthetics. Black CI & Grey RCC covers, no colour choice
Periodical painting	Not required, as covers are pigmented	Required periodical painting
Life Span	High due to composite material	Moderate
Handling & Injury	Light & moderate weight, easy to handle, hence risk of injury is less	Difficult and risk of injury is more due to heavy weight
Cost	Comparable to Cast Iron	Cost keeps increasing due to increase in cost of steel
Theft	Non metallic, hence no theft issues	High scrap Value, more prone for theft
Thermal Expansion	Very Low	High
Easy change of load bearing capacity	Possible by changing only covers retaining frames	Not possible
Custom Design/Size/colour	Possible	Not possible

Our Products



Our Customers



BUILDTEK POLYMERS PRIVATE LIMITED[®]

Head Office: 17, Srinivasa Nilaya, 5th Cross, K G Nagar, Bengaluru - 560019. Phone : +91 80 26525142, 26672003, 22425142

Fax : +91 80 26672002. email : aagam@buildtechinc.com, buildtech2000@yahoo.co.in

Sales Office: 33/3, S J P Road, Bengaluru-2. Ph: +91 80 22232808/41692756 email : market@buildtechinc.com, buildtechinc@gmail.com

No 10, Old No 39/40, Sembudoss Street, George Town, Chennai - 600001 Telefax +91 44 25242934 email : buildtechinc.chennai@gmail.com

No 26/B, Bharathiar Nagar, R K Road, Hosur-635109 Ph:+91 434 221497 email : buildtechinc.hosur@gmail.com

No 46/1083, Chittoor Road, Opp: St Anthony's Church, Vaduthala, Cochin-682023 Ph: +91 484 2436775 email : buildtechinc.kerala@gmail.com

No 17, Bharathi Road, Peelamedu, Opp:GRG School, Coimbatore-641004 Ph: +91 422 2233118 / 4348769 email : buildtechinc.cbe@gmail.com

Hyderabad - Ph : +91 9553848689 email :buildtekhyd@gmail.com

www.buildtechinc.com