

GRP – Glass Reinforced Polyester flat roof system



GRP – Glass Reinforced Polyester flat roof system is an alternative method to bitumen felt:

- More effective than traditional on-torch membrane
- 20 years materials guarantee
- Fire retardant to BS476-3EXT F.AB – no restriction to use
- UV resistant
- There is not such messy job like plastering
- Can be used both in a cold and warm roof configuration to comply with part L of building regulations

Quotation is based on below conditions:

- The system uses GRP manufactured elements like corners, trims, etc
- The quotation is based on the usage of the reinforcing mat 450g/sqm - occasional foot traffic
- GRP system should be used on top of decking boards like 18mm thick WBP or OSB3 – not calculated
- Fixing trims and angles require proper substrate preparation before installing – e.g., additional battens, etc.
- Concrete, steel should be primed using polyurethane primer before applying base coat
- All elements should be glued, nailed and bandaged
- For roofs larger than 50sqm expansion trims should be used to create expansion joints
- Apply 1/3 part of resin to the deck and 2/3 part to the mat
- Distribute the resin across the mat with paddle rollers
- Reinforcing mat should overlap - 50mm
- When cured sand down before applying top coat

Please see below an estimation for 20sqm typical flat roof.

MATERIALS

Materials usage for typical 20sqm flat roof

No	Material	Code/ dimensions	Price* excl. VAT unit	Usage for 20m² flat roof	Cost excl. VAT	Cost incl. VAT
1	Universal external corners C1	TST27	£12.83	2 pcs	£25.66	£30.79
2	Side drip edge trim A200	TST06 3.0m	£15.58	5 pcs	£77.90	£93.48
3	Standard angle fillet trim D260	TST17 4.0m	£12.83	2 pcs	£25.66	£30.79
4	Angle fillet to trim C2L - Left	TST29	£12.83	1 pcs	£12.83	£15.40
5	Angle fillet to trim C2R - Right	TST30	£12.83	1 pcs	£12.83	£15.40
6	Standard simulated lead flashing trim C100	TST11 3.0m	£15.58	2 pcs	£31.16	£37.39
7	Glass fibre mat 450g/sqm	TSP03B 10 sqm	£27.50	2.4 roll	£66.00	£79.20
8	75mm wide bandage	TSA57	£22.55	1 roll	£22.50	£27.00
9	Polyurethane trim adhesive	TSA58 310ml	£7.95	6 pcs	£47.70	£57.24
10	Zinc plated nails		£2.97	0.05kg	£0.15	£0.18
11	Resin – base coat	TSP01 15kg	£70.59	1 tin	£70.59	£84.71
12	Resin – top coat	TSP02 15kg	£98.80	2 tins	£197.60	£237.12
13	Catalyst	TSA41 1ltr	£12.47	3 ltr	£37.41	£44.89
14	CT1 clear silicone		£11.00	2.5 tube	£27.50	£33.00
Total					£655.49	£786.59

* all products available at IBB; prices before discounts

LABOUR

Labour rate for GRP flat roof includes:

- fitting external corners, glueing and using zinc plated felt nails
- fitting side trims, glueing and fixed with zinc plated felt nails and stick with a bandage to the deck boards
- fitting left, and right angle fillet to trim, glueing and using zinc plated felt nails
- installing angle wall fillet trim, glueing and using zinc plated felt nails and stick with a bandage to the deck boards
- fitting simulated lead flashing,
- mixing coat base resin with the proper ratio of catalyst
- cutting a chase in brick or block wall for flashing trim and pointing with clear silicone
- base coat laminating
- top coating

Labour - 20 sqm flat typical roof

No	Description	Labour [labour hours]	Company rate excl. VAT	Cost excl. VAT	Cost incl. VAT
1	Skilled roofer	27.85	£27.00	£751.95	£902.34
Total				£751.95	£902.34

APPLICATION TOOLS AND ANCILLARY COMPONENTS

No	Material	Code/dimensions	Cost excl. VAT	Cost incl. VAT
1	Acetone	TSA46 5LTR	£16.50	£19.80
2	Catalyst safety dispenser	TSA44	£14.75	£ 17.70
3	G4 polyurethane primer	TSA61 5ltr	£73.30	£87.96
4	Slate granules – for adding to topcoat	TSC08 25kg	£23.30	£27.96
5	Flat flashing F300	TST21 roll 20m	£104.17	£125.00
6	Paddle roller 3"	TSA53	£5.42	£6.20
7	Paddle roller 6"	TSA54	£10.42	£12.50
8	Paddle roller 9"	TSA54A	£14.75	£17.70
9	Painting roller 9"		£3.17	£3.80
10	Block brush 5"		£3.75	£4.50
11	Mixing buckets	14ltr	£1.42	£1.70
12	Cutting knife		£1.83	£2.20

* all products available at IBB; prices before discounts

The total price (materials and labour) per 1 sqm for a standard flat roof in GRP laminating system is approximately £85.00 incl. VAT

Notice!

- The above estimation is only the proposal, and you can use it at your own risk.
- Be careful – roof surface will reflect any imperfections in the deck
- When adding catalyst to resin always mix well to ensure even distribution
- Before top coating stir the can well
- Use PPE – Personal Protection Equipment and establish Health&Safety practice
- Always ensure before laminating that weather will remain dry