



Aquarium Cover and Feeder Mount



Rosti

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Summary

A modular aquarium cover and optional feeder mount for a Fluval Roma 90 tank



22.33 hrs



8 pcs



0.15 mm



0.40 mm



PET



248 g



Prusa MK4

[Household](#) > [Pets](#)

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[aquariumcover](#)

This is a set of covers for a Fluval Roma 90 Aquarium. You can either use the 3 interlocking covers to replace the cumbersome and flimsy front cover panel, or include an auto-feeder mount which replaces the right-hand cover (fit left and right first, then centre slots in).

Any standard 70mm auto-feeder with a clamp mount can be accommodated. The internal food chute is designed to avoid food adhering to it and to minimise evaporative loss. It needs a minor wipe every month or so, to remove adhering flake, but nothing of significance.

I have been using for about a year. The permanent auto-feeder is a game changer because your only restriction on going away is how long you can leave the tank without a water change. I am using isolated planters and a fairly low fish stocking level in my set-up and so I can stretch a water change to 3-4 weeks if needed.

I am guessing that energy use is a little lower and temperature more consistent because of the insulation from the low in-fill density

My isolated aquarium planter design can be found here [Aquarium Planter by Rosti | Download free STL model | Printables.com](#)

If you want to mimick my set up completely. I have been using a Petbank CY009 battery (USB re-charge) feeder. It's been reliable, but I have had to tape the food outlet because my chosen setting is between 2 'clicks'

I printed in PETG since it is both waterproof and UV resistant. 0.15 layer seems a reasonable balance between finesse and strength when coupled with 25% gyroid infill. To allow for the interlocking you need some bed contact support, but it removes easily enough (included within the gcode)

Print files



aqfeedcover_left_04n_015mm_petg_mk4_4h49m.bgcode

PET 0.40 mm 0.15 mm 4.82 hrs 79 g Prusa MK4



aqfeedcoverctr_04n_015mm_petg_mk4_5h9m.bgcode

PET 0.40 mm 0.15 mm 5.15 hrs 84 g Prusa MK4



aqfeedcoverrht_04n_015mm_petg_mk4_4h52m.bgcode

PET 0.40 mm 0.15 mm 4.86 hrs 80 g Prusa MK4



aqfeedmount_right_v3_04n_015mm_petg_mk4_22h20m.bgcode

PET 0.40 mm 0.15 mm 22.33 hrs 248 g Prusa MK4



aqfeedcoverrht_015mm_petg_mk3s_7h7m.gcode

PET 0.40 mm 0.15 mm 7.12 hrs 78 g Prusa MK3/S/S+



aqfeedcover_left_015mm_petg_mk3s_7h1m.gcode

PET 0.40 mm 0.15 mm 7.02 hrs 77 g Prusa MK3/S/S+



aqfeedcoverctr_015mm_petg_mk3s_7h30m.gcode

PET 0.40 mm 0.15 mm 7.50 hrs 82 g Prusa MK3/S/S+



aqfeedmount_right_v3_015mm_petg_mk3s_23h27m.gcode

PET 0.40 mm 0.15 mm 23.45 hrs 198 g Prusa MK3/S/S+

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