

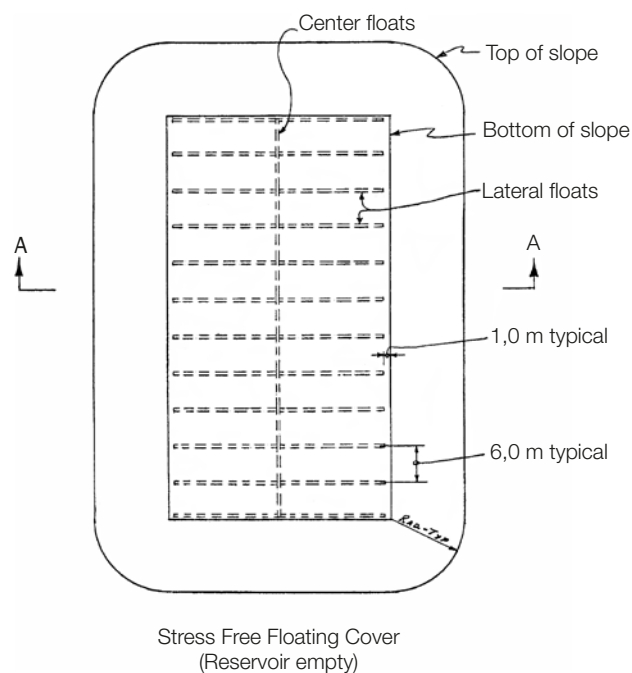
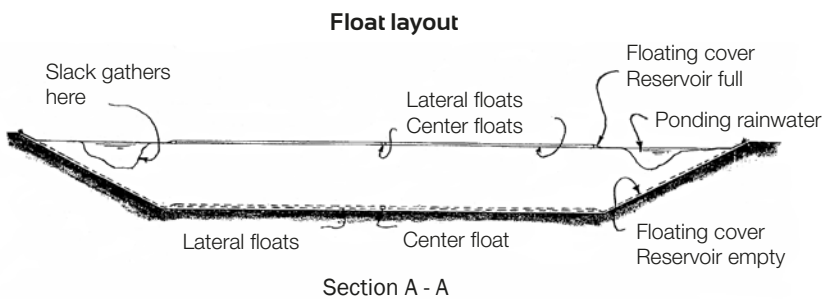
Elastoseal EPDM Floating Covers



Floating Covers in EPDM

Floatation blocks

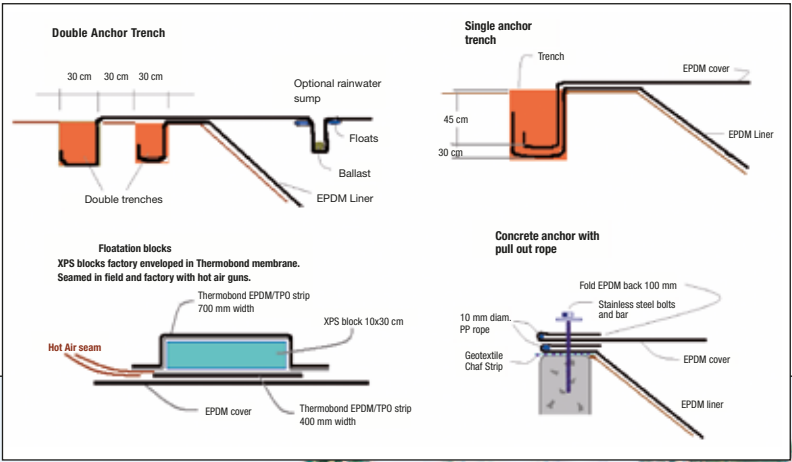
- Floatation blocks must be used. Floatation blocks material can be polyethylene (ethafoam), polypropylene or extruded polystyrene (closed cells). Size of the floats for reservoir sizes up to 2000 sqm should be 300 mm width, 100 mm thickness. For larger covers the floats are specified by designer.
- The floats are placed in closed envelopes of 0,75/0,80 mm EPDM. Length of each envelope according to project, but length of polystyrene boards, e.g. 2,5 m, is practical.
- The boards are sealed to the floating cover by means of a 300 mm Thermobond strip along the full length of the floats. The floats can be placed on the underside or on top of the floating cover.



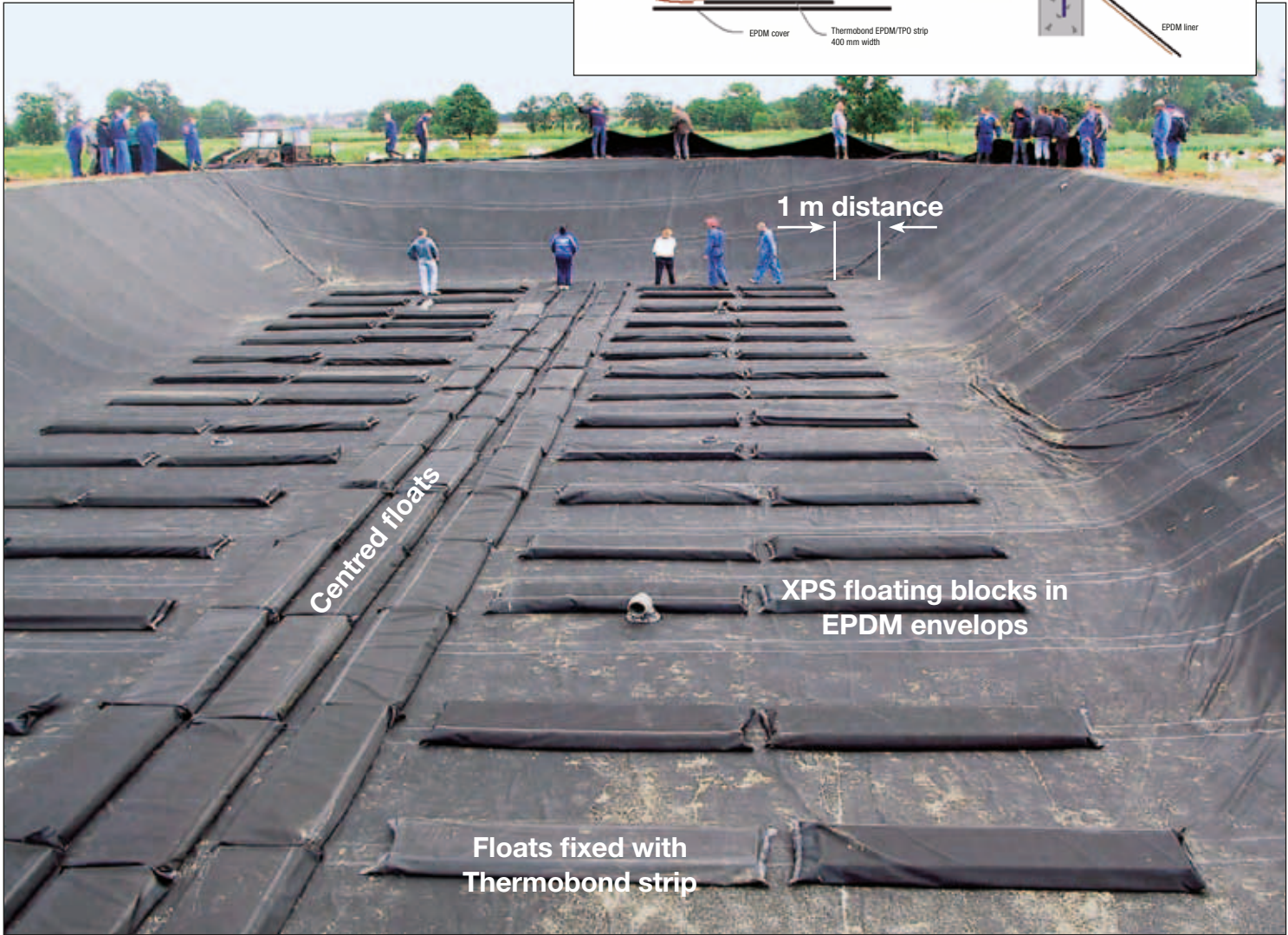
Floatation block positioning

- Two principles are applied, either is the floats positioned as one centred float line and several lateral floats, c/c 6 metres. The rectangular surface covered by the centred and lateral flats should have length x width equal to the bottom length x width of the pond minus 1 meter. Rainwater is then collected on the perimeter of the pond and is pumped off the cover when necessary.

Perimeter Attachment Options and Floatation Blocks



Floating EPDM Cover positioned over EPDM



Perimeter attachment

- There is three principle methods of anchoring the liner at the pond perimeter:
1. The cover is attached in a separate outside trench, width 300 mm, depth 500 mm. The inside trench is used for the bottom liner.
 2. Both bottom liner and floating cover liner is buried in the same trench, width 500 mm, depth 750 mm. First the bottom liner is positioned in the trench and covered with 300 mm of soil, then the floating cover liner is positioned and covered with another 450 mm of soil. All trenches shall be compacted.
 3. Both liners are attached to a concrete perimeter beam. Each liner is double folded 100 mm and fixed mechanically with bolts and batten bar to the concrete beam.

Notes

- It is not recommended to walk on floating covers unless they are designed for this, as a tensioned reinforced membrane system, especially with rain water collection sumps.
- Recommended thickness of EPDM is 1,20 mm, or preferably 1,50 mm. Only on small covers, max. 1000 sqm:s prefabricated in one piece, thickness 1,00 mm should be used.
- Separate bottom liner and floating cover line should be constructed due to access, cleaning etc., if not a fabritank / pillow tank construction have been designed.



Our operations are conducted according to ISO 9001 and ISO 14000. Products and systems are tested according to applicable standards, supervised by independent laboratories, authorities and certified to local building codes in all the markets where we are active.



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