

## SEALEX NO. 33A ROOF GARDEN WATERPROOFING SYSTEM

### Draft Specification:

#### ROOF GARDEN WATERPROOFING SYSTEM

To all areas requiring waterproofing under gardens, supply and install to manufacturer's written Instructions and to AS CA55 a Sealex No. 33A 2-layer bituminous waterproofing system incorporating the following:

- Substrate:** Concrete decks with integral falls to AS CA55. Falls are to be evenly graded to outlets without ponding.
- External Corners:** Provide 12mm x 12mm chamfers along all concrete edges at junctions of horizontal and vertical surfaces where membrane is to be turned over.
- Internal Corners:** Provide 50mm x 50mm triangular sand/cement fillets at all junctions between horizontal and vertical surfaces.
- Roof Drains:** Roof drains are to be of solid cast metal construction with dished body and horizontal flanges and having a membrane clamping ring with fixings which do not penetrate the membrane. Set drains in deck so that the top surface of flange is flush with top surface of deck. Drains are to be fitted with slotted extension pieces to bring the grate to the surface of the garden soil. The extension pieces are to be wrapped with 140 grams per square metre non-woven polyester filter fabric. The extension pieces are to be screwed into a special adaptor which can be bolted to the drain body and released independently of the membrane clamping ring.
- Substrate Preparation:** The deck shall be smooth, firm, continuous, and free of loose or foreign matter likely to affect the adhesion of the membrane to the surface. New concrete is to be given at least 14 days curing time before laying membrane. After rain, no membrane is to be laid until the deck is completely dry.
- Primer:** Ruberoid Bitumen Primer applied to the dry deck at the rate of 4 to 6 square metres per litre. Primer must be completely dry before laying membrane over. Primed areas which have become soiled must be re-primed.
- First Membrane Layer:** Sealex Polyflame Antirroot polyester/talc APP modified bitumen membrane sheeting.
- Top Membrane Layer:** Sealex Polyester/talc APP modified bitumen membrane sheeting with anti-root additive

<b>Membranes to Planter Walls:</b>	Provide 2-layer membrane turn-ups to heights shown on architectural detail drawings. Lap membranes at internal corners and finish at top edge in accordance with architectural detail sheet.
<b>Penetrations:</b>	Provide 2-layer membrane turn-ups to pipe penetrations as shown on architectural detail drawings and manufacturer's literature.
<b>Drain/Penetration Pits (Alternative):</b>	<p>Around roof drains and/or water tap or electrical conduit penetrations, loose lay strips of Ruberoid Hyload Damp Proof Course and construct weep holes in first course of bricks/blocks and wrap around outside of pit walls with filter fabric. Fit standard dome grate to roof drain and fix square metal frame with removable metal grate on top of pit walls as detailed.</p> <p><b>Note:</b> This pit construction is an alternative to slotted extensions to roof drains previously described. It provides for easy inspection of both roof drains and water tap or electrical conduit penetrations at membrane level. Such pits can also be used for concealed lighting.</p>
<b>Membrane Protection:</b>	To all horizontal and vertical membrane areas, loose lay Sealex Protection Board No. CPB3.
<b>Drainage Course:</b>	Over protection board, place Sealex V drain or cellular plastic drainage course system in accordance with manufacturer's instructions.
<b>Filter Fabrics:</b>	<p>Over drainage course lay 140 grams per square metre non-woven polyester filter fabric lapped 150mm and carried up to full height of vertical membrane at planter walls. Hold with tape at top edge as necessary.</p> <p><b>Note:</b> Use heavier weight filter fabric if recommended by manufacturer of proprietary drainage course systems have an integral filter fabric, additional filter fabric will not be required except at planter walls.</p>
<b>Membrane Over flashing:</b>	At top edge of vertical membrane and filter fabric, fix Sealex No. 01 surface-mount pressure seal skirt flashing as detailed. Skirt flashing is to be powder coated to approved colour.
<b>Garden Soil:</b>	Garden soil is to be laid over filter fabric by Landscape Contractor taking care not to disturb laps in filter fabric.

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