

# DELTA<sup>®</sup>-FLORAXX

## Water Retention & Drainage for Garden Roofs Installation Instructions.

### Health and Safety

- Required safety equipment: hard hat, safety boots, gloves, safety glasses, fall arrest equipment.
- Always follow all safety precautions as directed by the Occupational Safety and Health Administration (OSHA-USA) or the Construction Safety Association (Canada).
- Please refer to Material Safety Data Sheets for all components and observe all recommended safety precautions therein.
- The general codes of practice for protection at work and instructions of the manufacturers for tools and components are to be observed at all times.

### Recommended Materials

- DELTA<sup>®</sup>-ROOT BARRIER
- DELTA<sup>®</sup>-FLORAXX
- DELTA<sup>®</sup>-BIO TOP
- Growing medium (as per FLL Guidelines)
- River Stone (round washed, diameter 2 cm (3/4") - 4 cm (1 1/2"))
- Plants

### Recommended Tools

- Utility knife or scissors
- Shovel
- Rake
- Garden hose

### Notes and Limitations

- These installation instructions for DELTA<sup>®</sup>-FLORAXX are intended only as a guide and are for the convenience of the contractors, specifiers, and other interested parties. The final application and details are the sole responsibility of the design authority on record for the project.
- Always confirm the local building code requirements prior to installation.
- Do not install DELTA<sup>®</sup>-FLORAXX in adverse weather conditions.
- High winds may hamper application.
- Underlying roof components (deck, vapor barrier, insulation, waterproofing membrane, etc.) shall be installed, tested, and approved according to manufacturer's guidelines.
- Ensure the roof structure is approved to support the water-saturated weight of the garden roof.
- Maximum exposure to UV (sunlight):
  - 30 days
  - DELTA<sup>®</sup>-FLORAXX shall be covered as soon as possible.

### Installation

- The roof surface shall be clean and free of debris prior to installing any garden roof components.
- Loose lay DELTA<sup>®</sup>-ROOT BARRIER onto the roof surface. (See detail 1)
- Begin installation at drains. Work outward from the drains, ensuring any overlaps shingle downward to facilitate water flow towards the drains and to minimize water seepage under DELTA<sup>®</sup>-ROOT BARRIER.
- Cut DELTA<sup>®</sup>-ROOT BARRIER as tightly as possible around drains and protrusions. (See detail 2)
- The number of overlaps should be minimized. Where overlaps cannot be avoided, they shall be a minimum of 1 m (39"). End laps also shall be overlapped a minimum of 1 m (39"). Wide overlaps help prevent roots from damaging the waterproofing.



- Terminate DELTA®-ROOT BARRIER up the parapets or garden roof edge to the anticipated finished level of the growing medium.
- Beginning at one side of the roof, roll out DELTA®-FLORAXX dimple side down, cup side up. Always place the DELTA®-FLORAXX tightly to the parapet or garden roof edge.
- End laps and side laps shall be placed tightly to the adjacent roll of DELTA®-FLORAXX. Do not interlock the dimples. (See detail 3)
- Cut DELTA®-FLORAXX as tightly as possible around drains and protrusions. (See detail 4)
- Beginning at one side of the roof, loose lay DELTA®-BIO TOP geotextile over top of DELTA®-FLORAXX. (See detail 5)
- Terminate DELTA®-BIO TOP up the parapets or garden roof edge to the anticipated finished level of the growing medium.
- To prevent fine particles from being washed out of the growing medium, end laps and side laps of DELTA®-BIO TOP shall be overlapped a minimum of 30 cm (12").
- Cut DELTA®-BIO TOP as tightly as possible around drains and protrusions.
- Place ballast, such as river stone, at parapets or garden roof edges, and around drains to a minimum width of 30 cm (12"). (See detail 6)
- The minimum thickness of the ballast shall meet or exceed the anticipated thickness of the growing medium.
- Ensure the ballast completely covers the DELTA®-BIO TOP at the parapets or garden roof edges. (See detail 7)
- Place and level specified growing medium according to manufacturer's recommendations. (See detail 8)
- Thoroughly water garden roof to fill water retention cups of DELTA®-FLORAXX and fully saturate the growing medium. (See detail 9)
- Plant specified vegetation.

#### Inspection and Clean-up

- Ensure drains are free-flowing and clear of obstructions and debris.
- Remove any remaining construction waste.
- Inspect the installation to ensure all components are installed according to manufacturers' recommendations.
- DELTA®-FLORAXX is made from environmentally friendly HDPE
- Waste can be recycled where facilities allow.

#### Maintenance

- Check drainage to ensure free flow.
- Keep ballast free and clear of leaves, overgrowing vegetation and other debris.
- Apply fertilizers as necessary.
- Irrigate as necessary.
- Assess plants and replant as necessary.
- Weed as necessary.
- Replace eroded growing medium as necessary.

For technical support, call our technical support team at 1-888-4DELTA4 (1-888-433-5824) extension 326, or visit [www.cosella-dorken.com](http://www.cosella-dorken.com).

