

Specification Suggestion

“Walkways” with Elefeet®

SPEC NOTE:

This guide specification gives general information about the ZinCo walkway assembly. It has to be clear, that the information that is shown must be understood as guide and recommendations.

It is possible that your driveway project need special technical requirements. Please contact us for further information regarding technical advice, specifications and budget cost.

ZinCo Canada Inc.

P.O.Box 29
Carlisle, ON Canada L0R 1H0
T. 1-905-690-1661
E. greenroof@zinco.ca
www.zinco.ca

PART 1 – GENERAL

TECHNICAL DATA

Depth:

>42 - 400 mm (>1 3/4 - 16")

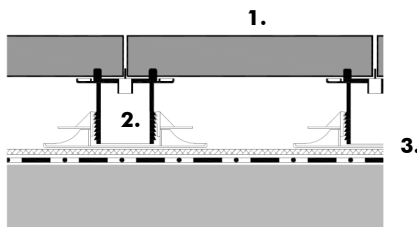
Load bearing capacity:

500 kg per pedestal

Slope:

2-5 degrees

SECTION



Section includes:

1. Roof Paver
2. ZinCo Elefeet Pedestal
3. Protection Mat ZinCo Elastosave ES30
4. Related Materials:

- Elastoring Spacer Ring
- Load Distribution Plate
- Terrace Grill

REFERENCES

- The ZinCo “Walkways” Hard Land-scape System meets or exceeds the requirements of the FLL-Recommendation for Walk-and Driveways (Release 2006).

DEFINITIONS

- Walkways and Driveways on top of roofs and decks that allow heavy live loads. Heavy live loads demand high quality protection and drainage mats.

SUBMITTALS

- Submit signed shop drawings showing that the roofing system, walkway assembly, materials, perimeter and penetration details and fall protection are accepted by the walkway manufacturer to ensure that the walkway assembly the necessary performance requirements.
- Submit a certification showing that all the components of the walkway assembly are supplied and warranted by the walkway manufacturer.
- Submit an inspection report, signed by the roof contractor and the walkway contractor, resulting from the quality control of the roofing system installation prior to the installation of the driveway assembly indicating that the roofing system is installed correctly.
- Submit references which indicate that the walkway manufacturer as well as the green roof contractor has recently successfully completed projects of similar scope and nature.

QUALITY ASSURANCE

- **Installers Qualifications:** Work of this section shall be installed by a recognized green roof or landscape contractor,

approved by ZinCo Canada Inc. The contractor shall have adequate equipment, skilled workers with extensive practical experience, skills and knowledge.

- Roof details such as flashing, roof edges, roof penetrations, outlets, roof fall and type of insulation must be adjusted to the Walkway assembly used. ZinCo Canada Inc. provides consultation and engineering to (landscape) architects, roof contractors and green roof contractors to finalize these adjustments before construction of the roof commences, if requested.
 - Prior to the installation of the walkway assembly, test the water tightness of the roofing system by flood testing for at least a 48 hour period or an electronic leak detection process performed by a qualified testing agency.
 - Submit documentation certifying that the load bearing capacity of the roof and building construction is tested and approved by an structural engineer, with regard to the extra weight of the walkway assembly.
- ### ENVIRONMENTAL CONDITIONS
- Provide a temporary fall protection (safety railing or fall arrest) during the installation to ensure a safe and healthy work environment.
 - Provide a permanent fall protection (safety railing or fall arrest) for maintenance to ensure a safe and healthy work environment.

DELIVERY, STORAGE & HANDLING

- By storage on the roof makes sure that the load of the materials does not exceed the load bearing capacity of the roof and building construction



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- Store the materials in a dry area, out of direct sunlight, protected from freezing, staining or damage.

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Website: www.zinco.ca

With extension pieces (see paragraph 2.5 related products) heights of 400 mm can be achieved.

WARRANTY

- Submit a 5-year product manufacturing warranty according to the specifications of the drive way manufacturer which warrants all the components of the driveway assembly.
- Submit a 2-year workmanship warranty which warrants the installation of the driveway assembly according to the specifications.

MAINTENANCE

- Provide a maintenance program for the duration of two years as per following maintenance measures:
 - Six visits in the first year.
 - Six visits in the second year.
 - The removal of unwanted plants from borders, edges or joints;
 - The removal of litter;
 - Replacing damaged pavers or relaying paver with excessive settlement;
 - Checking the drains;
 - Cleaning.

Submit maintenance report to the owner at the end of the growing season.

PART 2 - PRODUCTS

Specified walkway assembly:

ZinCo Elastoring®: Walkway.

Supplier:

ZinCo Canada Inc.
P.O. Box 29
Carlisle, ON Canada, L0R 1H0

Phone: 905-690-1661

1. SEPARATION/PROTECTIVE LAYER 3. HARD SURFACING

(PLEASE CHOOSE CONVENTIONAL OR INVERTED ASSEMBLY)

(CONVENTIONAL ROOF ASSEMBLY)

- **ZinCo protection mat Elastosave ES 30** made of recycled rubber. Tensile strength of approx. 0.8 N/mm². Thickness: approx. 3 mm. Weight: approx. 3 kg/m², Temperature resistant from -30°C to +80°C. Compatible with bituminous waterproofing membranes. On synthetic waterproofing membranes an additional separation sheet ZinCo TGF 20 has to be installed.

Or

(INVERTED ROOF ASSEMBLY)

- Air and vapour permeable membrane **ZinCo diffusion membrane TGV21** made of thermal consolidated Polypropylene. Bitumen resistant – Biologically and Chemically neutral. Vapour opening size $S_d \leq 0,01 \text{ m}$ Thickness: 0,55 mm. Weight: 80 g/m². To be used as separation layer on inverted roofs and protection against small particle infiltration.

2. ADJUSTABLE PEDESTAL

- **ZinCo Elefeet vertically adjustable pedestal** made of solid polypropylene with 3 mm integrated joint spacer. Base plate diameter: 200 mm.

Available heights:

ZinCo Elefeet H40:	42-65 mm
ZinCo Elefeet H50:	52-82 mm
ZinCo Elefeet H80:	84-140 mm
ZinCo Elefeet H140:	140-230 mm

3. HARD SURFACING

- **Concrete Pavers and Eooden Decks** determined according to load-bearing capacity demand and the requirements of the relevant standards.

4. RELATED PRODUCTS

- **Elefeet extension piece ZinCo A 25.**
Height: 25 mm.
- **Elefeet extension piece ZinCo A 60.**
Height: 60 mm.
- **Elefeet cantilever arm support** made of galvanized steel. Including non-slip rubber surface. [Used to lay concrete slabs firmly around edges]

Available sizes:

Elefeet cantilever arm support: 125 mm x 800 mm

Elefeet edge retainer support: 125 mm x 175 mm

- **Elefeet mitre cut support** made of galvanized steel. Including non-slip rubber surface and a 15 mm folded edge to enclose the concrete slab. [Used for concrete slabs at non rectangular edges]

Available size:

Elefeet mitre cut support: 170 mm x 2000 mm.

- **Terrace Grill** made of galvanized steel. Mesh size: approx. 44 x 11 mm. [Used as an alternative to concrete slabs or at the location of roof drains]



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Available sizes:

Terrace Grill ZinCo TR-F 40x40x4: 400 x 400 x 40 mm

Terrace Grill ZinCo TR-F 40x40x5: 400 x 400 x 50 mm

Terrace Grill ZinCo TR-F 50x50x5: 500 x 500 x 50 mm

(INVERTED ROOF ASSEMBLY)

- In the case of an inverted roof: Deliver and install the **ZinCo diffusion membrane TGV21** directly on the top of the insulation with a minimum overlap of 100 mm, according to the manufacturer’s instructions. The separation sheet must be installed above the growing medium along the edges and at roof penetrations.

6. COMPLETION

- Upon completion leave the site in a neat, clean and workmanlike condition.

7. MAINTENANCE

- Execute the maintenance program as described on page 2.

PART 3 – EXECUTION

1. INSPECTION

- Clean up the waterproofing membrane carefully (well-swept)
- Careful inspection of the waterproofing membrane including seams, penetrations and details after flood testing or electronic leak detection. If the waterproofing system and the Driveway assembly are not carried out by the same company, the acceptance of the method used for waterproofing quality should be agreed by all the parties. Identified defects are to be reported in written form. Do not proceed until corrected.

2. SEPARATION & SLIP SHEET

(PLEASE CHOOSE CONVENTIONAL OR INVERTED ASSEMBLY)

(CONVENTIONAL ROOF ASSEMBLY)

- Deliver and install the **ZinCo protection mat Elastosave ES 30** directly on the top of the membrane with a minimum overlap of 50 mm, according to the manufacturer’s instructions. Cut the protection mat in place at the roof penetrations. On synthetic waterproofing membranes an additional separation sheet ZinCo TGF 20 has to be installed in between the membrane and the Elastosave,

Or

3. ADJUSTABLE PEDESTAL

- Deliver and install the **ZinCo Elastoring pedestal** directly on the protection mat or diffusion membrane at the appropriate location according to the manufacturer’s instructions.

4. HARD SURFACING

- Deliver and install the hard surfacing on top of the pedestals according to the manufacturer’s instructions.

5. RELATED PRODUCTS

- Deliver and **Elefeet extension piece ZinCo A 25 or A 60** in combination with the Elefeet pedestal to the required height according to the manufacturer’s instructions.
- Deliver and install **Elefeet cantilever arm support** on top of the Elefeet at the required location according to the manufacturer’s instructions.
- Deliver and install **Elefeet mitre cut support** on top of the Elefeet at the required location according to the manufacturer’s instructions.
- Deliver and install **Terrace Grill ZinCo TRF-H** on top of the Elefeet at the required location according to the manufacturer’s instructions.

END OF SECTION

