

Installation Guide Addendum A

Project: StormVault **Subject:** Step 10 Geogrid (Western Australia)

Applies to: StormVault Installation Guide Rev 01 (22 May 2026), Step 10 and Materials list (Section B)

Issued by: DS Agencies Pty Ltd (trading as DS Group)

1. Purpose

This addendum clarifies when geogrid is required for StormVault installations in Western Australia. StormVault is installed in a wide range of soil conditions. Geogrid is not necessary in every application, and the need for it depends on site-specific factors.

2. Non-trafficked applications

There is no change to the Installation Guide. Geogrid is not required above systems in open space where vehicle traffic is prohibited, such as landscaped areas, gardens and sports fields.

3. Trafficked and load-bearing applications

Where the system will be subject to vehicle loading, the project engineer will determine whether geogrid is required. Geogrid may be omitted where the project engineer confirms in writing, or on the approved drawings, that it is not required. The engineer's assessment should consider:

- design traffic loading
- depth of cover over the modules and the pavement design
- backfill material properties and the compaction achieved
- native soil and groundwater conditions
- system footprint and installed depth

4. Backfill

In Western Australia, clean, free-draining sand is commonly used as base, side and top backfill. It must be free of clay, organic matter and debris. It must be compacted in lifts not exceeding 300 mm to at least 95% Standard Maximum Dry Density, verified by field density testing to AS 1289 where the project engineer requires it. Vibratory compaction of the side backfill remains mandatory, as set out in Step 8.

5. Where geogrid is specified

Install geogrid in accordance with Step 10 or the project engineer's details. Where the two differ, the engineer's details take precedence.

6. Where no engineer is engaged

For trafficked applications without engineering input, Step 10 applies as written. Contact DS Group or Rainsmart Solutions for advice before installation.

7. Precedence and other requirements

Approved engineering drawings take precedence over the Installation Guide and this addendum. All other requirements of the Installation Guide are unchanged, including cover depths, equipment limits, vibratory compaction and exclusion of construction traffic.