ATTENU8®
LITE ATTENUATION LAYER

PRODUCT DATASHEET | v1.1 | AUGUST 2025

PRODUCT DETAILS

Product name	**Attenu8® Lite Attenuation Layer**
Product type	Blue roof component

PRODUCT DESCRIPTION

Attenu8® Lite Attenuation Layer is a drainage layer used in replacement of the heavier **Attenu8® Cell** units in lower load rating applications.

APPLICATION

Attenu8® Lite Attenuation Layer is for use within the **Attenu8®** system, which can be integrated into blue, green and blue-green areas.

INSTALLATION

Attenu8® system calculations are site-specific and require project approval based on load calculations, substrate construction, area size, finishes, etc. At every stage of installation refer to and follow Proteus project specification.

Inverted **Attenu8®** system is installed in the following sequence:

- Install the specified inverted Proteus system onto the roof surface
- Secure the **Attenu8® Outlet Raising Ring Device** into the roof outlet
- Place the inverted roof insulation over the membrane
- Loose-lay **Proteus Pro-Therm Low-K** on top of the insulation
- Based on design calculations, position **12mm Attenu8® Geo Cell** or **30mm Attenu8® Cell** across the roof, with **30mm Attenu8® Cell** along the vertical perimeter, matching the maximum storage depth, to create an overflow layer. **12mm Attenu8® Geo Cell** should not be used in vertical orientation along the perimeter
- Loose-lay the **Attenu8® Protection Layer** over the overflow layer
- Apply the **Attenu8® Aqua Wrap** membrane to the base and sides of the assembly
- Use **Attenu8® Aqua Wrap Double-Sided Tape** to secure overlaps in the **Attenu8® Aqua Wrap** membrane
- Seal the joints of the **Attenu8® Aqua Wrap** membrane with **Attenu8® Aqua Wrap Lap Tape** for a watertight finish
- Attach the **Attenu8® Flow Restrictor** and **Attenu8® Overflow Device** to the outlet raising rings
- Install 30mm **Attenu8® Cell**, which serves as a base layer in the attenuation zone
- Install the required **Attenu8® Lite Attenuation Layer** on top of 30mm **Attenu8® Cell**
- Fit the **Attenu8® Diffuser/Access Base** to provide access to the restrictor and outlet below. If additional height is needed, use the **Attenu8® Diffuser/Access Riser** instead
- Lay the **Attenu8® Filtration Layer** over the cells and around the access chamber to enable filtration
- Attach either the **Attenu8® Diffuser/Access Slotted Cover** or the **Attenu8® Diffuser/Access Solid Cover** onto the **Attenu8® Diffuser/Access Base** or **Attenu8® Diffuser/Access Riser** to complete the installation

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- Finish with **Pro-Living®** Green or Bio-Diverse systems, or other third-party paving or ballast, with a minimum weight of **80 kg/m²**

Warm or uninsulated Attenu8® system is installed in the following sequence:

- Install the specified warm or uninsulated Proteus system onto the roof surface
- Secure the **Attenu8® Outlet Raising Ring Device** into the roof outlet
- Based on design calculations, position **12mm Attenu8® Geo Cell** or **30mm Attenu8® Cell** across the roof, with **30mm Attenu8® Cell** along the vertical perimeter, matching the maximum storage depth, to create an overflow layer. **12mm Attenu8® Geo Cell** should not be used in vertical orientation along the perimeter
- Loose-lay the **Attenu8® Protection Layer** over the overflow layer
- Apply the **Attenu8® Aqua Wrap** membrane to the base and sides of the assembly
- Use **Attenu8® Aqua Wrap Double-Sided Tape** to secure overlaps in the **Attenu8® Aqua Wrap** membrane
- Seal the joints of the **Attenu8® Aqua Wrap** membrane with **Attenu8® Aqua Wrap Lap Tape** for a watertight finish
- Attach the **Attenu8® Flow Restrictor** and **Attenu8® Overflow Device** to the outlet raising rings
- Install 30mm **Attenu8® Cell**, which serves as a base layer in the attenuation zone
- Install the required **Attenu8® Lite Attenuation Layer** on top of 30mm **Attenu8® Cell**
- Fit the **Attenu8® Diffuser/Access Base** to provide access to the restrictor and outlet below. If additional height is needed, use the **Attenu8® Diffuser/Access Riser** instead
- Lay the **Attenu8® Filtration Layer** over the cells and around the access chamber to enable filtration
- Attach either the **Attenu8® Diffuser/Access Slotted Cover** or the **Attenu8® Diffuser/Access Solid Cover** onto the **Attenu8® Diffuser/Access Base** or **Attenu8® Diffuser/Access Riser** to complete the installation
- Finish with **Pro-Living®** Green or Bio-Diverse systems, or other third-party paving or ballast, with a minimum weight of **80 kg/m²**

TECHNICAL INFORMATION

	Attenu8® Lite Attenuation Layer (thickness)				
Characteristic	**55 mm**	**70 mm**	**95 mm**	**135 mm**	**Unit**
Porosity	~95	~95	~95	~95	%
Gross volume	~0.158	~0.201	~0.273	~0.388	m^3
Net water volume	~0.15	~0.191	~0.259	~0.368	m^3
Unit weight	5	6.40	10.55	12.45	kg
Max. compressive strength	300	300	300	300	kN/m^2
Discharge capacity @0% gradient	16	16	16	16	l/m·s
Unaffected by moulds & algae, soil borne chemicals, bacteria & bitumen					

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SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Thickness mm	Colour
A8AAL012	2.4	1.2	55	Black
TBC	2.4	1.2	70	Black
TBC	2.4	1.2	95	Black
TBC	2.4	1.2	135	Black

HANDLING

Always use relevant safe manual handling techniques for product of this size and weight.

MATERIAL

Polypropylene.

PACKAGING

Pallet with plastic wrap.

LIMITATIONS OF USE

For professional use only.

GUARANTEES

Defects arising from lack of maintenance or abnormal use may fall outside of the cover of the Proteus Waterproofing guarantee.

GUIDELINES AND STANDARDS

It is the responsibility of the Contractor to thoroughly familiarise themselves with all relevant Codes of Practice and Building Regulations to the works or referred in the specification.

Proteus Waterproofing take no responsibility for misinterpretation or lack of knowledge for third parties.

The works shall be carried out in accordance with the requirements of:

- **BS 6229** Flat roofs with continuously supported flexible waterproof coverings - Code of practice
- **BS 8217** Reinforced bitumen membranes for roofing - Code of practice
- **BS 8000-0** Workmanship on construction sites - Introduction and general principles
- **BS 8000-4** Workmanship on building sites - Code of practice for waterproofing
- **LRWA** Design Guide for Specifiers
- **S2T** Safe to Torch
- **GRO** Code of Best Practice

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