



PRODUCT DETAILS

Product name **Attenu8® Protection Layer**

Product type Blue roof component

PRODUCT DESCRIPTION

Attenu8® Protection Layer is a non-woven sheet composed of continuous filaments, mechanically bonded, and made from 100% UV-stabilised polypropylene.

APPLICATION

Attenu8® Protection Layer is for use within the **Attenu8®** blue roof system.

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 the required **Attenu8® Cell** units within the blue roof attenuation zone until the designed storage depth is achieved (**30mm Attenu8® Cell** can serve as a base layer in the attenuation zone. When stacking these cells, secure them with zip ties)
- 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**

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 the required **Attenu8® Cell** units within the blue roof attenuation zone until the designed storage depth is achieved (30mm **Attenu8® Cell** can serve as a base layer in the attenuation zone. When stacking these cells, secure them with zip ties)
- 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

Characteristic	Value	Unit
Material mass per unit area	325	g/m²
CBR puncture resistance	3850	N
Strip tensile strength _{m_d}	24	kN/m
Strip tensile strength _{c_d}	24	kN/m
Elongation at maximum load _{m_d}	100	%
Elongation at maximum load _{c_d}	40	%
Cone drop test	15	mm
Opening size	90	µm
Permeability vertical	60	l/m²/s

SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Thickness mm	Weight kg	Colour
A8APL220	80	2.75	2.5	69	Beige

SHELF LIFE AND HANDLING

Always use relevant safe manual handling techniques relevant to a products size and weight

MATERIAL

100% UV-stabilised polypropylene.

PACKAGING

Packaged in plastic bags.

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](#)