



SAINT-GOBAIN

abedrain® 20

**DIMPLED HIGH DENSITY
POLYETHYLENE PROTECTION
MEMBRANE**

DESCRIPTION

abedrain® 20 is a dimpled high density polyethylene (HDPE) membrane with 20 mm dimples.

USES

abedrain® 20 can be used in applications that require extra drainage capacity, protection of the waterproofing membrane and soil stabilization. Other uses are

- Terraces
- Flat roofs
- Roof gardens and planters
- Retaining walls
- Tanking

ADVANTAGES

- 20 mm raised dimples for increased drainage
- General purpose product
- Excellent value
- Resistance to chemicals usually found in soil and groundwater
- Durable
- Vertical applications
- Protection of the waterproofing membrane
- Secondary waterproofing membrane
- Thermal control
- Excellent drainage capacity

VERTICAL APPLICATION

For the protection of walls:

The surface area must be waterproofed according to **a.b.e.®** specification. We recommend the application of heat infused membranes in accordance with **a.b.e.®** specification. Ensure that the waterproofing membrane is completely covered with **abedrain® 20** for maximum protection. Measure the height of the wall including a flap which must be folded back and wrapped around the drainage pipe. Allow an additional 100 mm above the finished ground level before cutting the sheet. Fix the sheet just above the waterproofing membrane with the dimples towards the wall being careful not to damage the waterproofing membrane. Should it be necessary to overlap the sheets then 150 mm would be sufficient (3 dimples). Apply **super laykold® waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Place the drainage pipe on the **abedrain® 20** after having first placed a layer of drainage material under the pipe. Cover the pipe with some drainage material to keep everything in place before backfilling. Finish off the **abedrain® 20** at least 100 mm above the finished ground level and cover with a counter flashing.

HORIZONTAL APPLICATION

For drainage and protection of roof gardens:

The surface area must be waterproofed according to **a.b.e.®** specification. This is not a primary waterproofing membrane but is recommended for buried dual layer system applications. The first layer consisting of a 4 mm torch-on will be **abedex® unigum** followed by an antiroot bituminous membrane such as **abedex® AR**.

Lay **abedrain® 20** with the dimples facing downwards. Should it be necessary to overlap then 150 mm would be sufficient (3 dimples). Apply **super laykold® waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Where required place a geotextile membrane loosely on top of the **abedrain® 20** before spreading out the soil. This is important as the soil would otherwise fill the dimples and thereby reduce water drainage. Spread out the soil according to the instructions of a qualified landscaper.

For the protection of flat roofs and terraces:

We recommend applying an **abedex®** waterproofing membrane prior to laying **abedrain® 20**. On top of the bituminous membrane lay **abedrain® 20** with the dimples upwards. Should it be necessary to overlap, then 150 mm would be sufficient (3 dimples). Apply **super laykold® waterproofing tape** 100 mm wide along the flat part of the product for this purpose. Place the finishing layer of coarse riversand followed by general backfill on top of **abedrain® 20**.

CAUTIONARY NOTE

Do not butt-joint sheets.

COVERAGE

Install **abedrain® 20** as supplied using an overlap of 150 mm between the sheets resulting in an overall coverage of 37 m² per roll.

MODEL SPECIFICATION

The drainage and protection membrane will be **abedrain® 20** a dimpled high density polyethylene protection membrane as supplied by **a.b.e.®**. The **abedrain® 20** will be applied in accordance with the recommendations of **a.b.e.®**.

ACCESSORIES

In order to guarantee the quality and characteristics of the **abedrain® 20** product, it is recommended to use the range of accessories specifically studied for each purpose. Please consult the technical department at **a.b.e.®**

PACKAGING

abedrain® 20 is supplied 5 rolls per pallet and wrapped for protection.

HANDLING & STORAGE

The product has no expiry date. Keep out of direct sunlight for extensive periods. No heavy loads are to be placed or packed on top of the product.

HEALTH & SAFETY

No known hazards.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.®** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied.

FURTHER INFORMATION

- Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.
- **a.b.e.®** has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.
- Please consult our website for our latest datasheets.

PHYSICAL AND MECHANICAL CHARACTERISTICS	REFERENCE NORM	UNIT	TOLERANCE	PROPERTIES
abedrain® 20		Colour		Black
Total Weight	EN 9864	g/m ²	±15%	1000
Total thickness	EN 9863-1	mm	±10%	20
Compression resistance		kPa	±20%	150
Tensile strength MD/CMD	EN 10319	kN/m	-20%	9/9
Elongation at maximum load MD/CMD	EN 10319	%	±25%	25/25
Drain flow capacity - Horizontal application	EN 12958 (M/R, 20kPa, i=0,4)			2,5
Drain flow capacity - Vertical application	EN 12958 (M/R, 20kPa, l=1)			10
Packaging dimensions				
Roll width		m	±3%	2
Roll length		m	±2%	20
Rolls per pallet		No.		5

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a.b.e.* is an ISO 9001:2015 registered company
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