

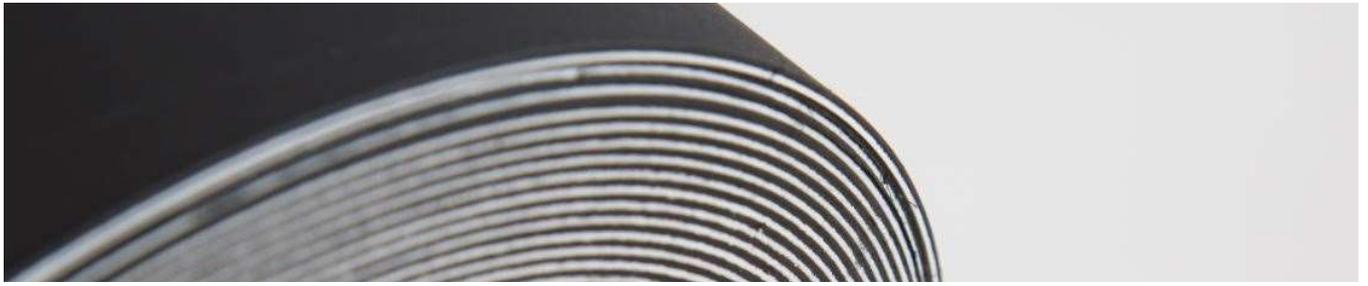
POLYFIN[®] MEMBRANES made of FPO with FM APPROVAL



ECOLOGICAL

FLEXIBLE

WATER-PROOF



FM-Approval for Polyfin Duo[®] 3015 GS, Polyfin Duo[®] 3018 GS and Polyfin Duo[®] 3020 GS

For buildings that are insured with FM Global, special requirements apply to construction products.

FM Global is one of the world's largest property insurers from the USA, with which industrial and commercial building owners, among others, can insure their property. FM Approvals, which belongs to the group of companies, has its own test center for building products and structures (in the USA).

For construction work on buildings insured by FM Global, the insurer stipulates that only tested products and systems may be used. In return, the building owner has advantages in terms of building insurance.

Test and assessment criteria from FM Approvals for roof structures and roof waterproofing

In the test center of FM Approvals, roofing membranes and systems in combination with insulation materials and roofing membrane fasteners are tested according to FM test criteria. Material tests are carried out with a view to

- Watertightness
- Resistance to hailstorms
- Resistance against UV-radiation
- Behavior against fire exposure from outside and inside
- Resistance against wind up lift

The conformity according to FM class 4470 is then documented

In order to maintain the certification permanently, the production facilities of a manufacturer must be audited annually by FM Approvals. Furthermore, there is a requirement that every planned change to the product or system must be approved by FM before implementation.

Labelling

Roofing membranes for which conformity with the FM class has been confirmed by FM Approvals can be marked on the product with the FM logo provided for this purpose.

With Polyfin Duo 3015 GS, 3018 GS and 3020 GS, the logo is clearly visible on the roll label.

Usually, FM tests are no substitute for national and European tests and qualifications

An FM approval for a roofing membrane system is usually not sufficient in most of the European countries for use within the framework of national and European building regulations, guidelines and laws. In addition, CE marks must be available for the individual subcomponents within the framework of the EU Construction Products Regulation. Among other things, the requirements for "hard roofing" in the sense of the state building regulations (of the individual country) must be met by a roofing system. A suitable ETA must be available for the fasteners, and the fasteners must also be verified together with the roofing membrane.

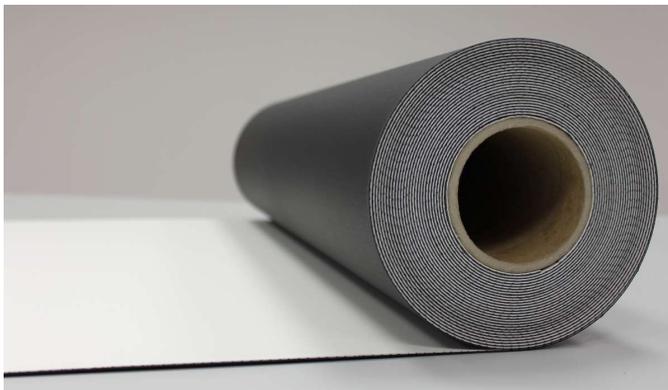


FM-labelling of the Polyfin Duo 3015 GS, 3018 GS und 3020 GS



Polyfin Duo® GS membranes are characterized by the fact that the proven recipe concept based on FPO / PE is consistently pursued. POLYFIN AG continues to rely on the use of a halogen-free flame protection concept in this product range - the unique formulation makes it possible! The ideal solution from an economic, ecological and processing point of view: The Polyfin Duo® GS membranes combine all the advantages of the tried and tested and well-known Polyfin® membranes:

- Unique formulation based on FPO / PE
- PVC-free, free from halogens such as chlorine or bromine, free from plasticizers, free from heavy metals
- Highly resistant to hailstorms
- Highly resistant to aging
- To a high degree flexible at low temperatures
- Optimized flame retardant equipment Polyfin Duo® GS: Universally applicable! They can be fastened mechanically or laid loosely under load.



Characteristics of Polyfin Duo® 3015 GS, Polyfin Duo® 3018 GS und Polyfin Duo® 3020 GS

Material base: FPO/TPO PE (flexibles Polyolefin auf Basis von Polyethylen)

Top side: white

Bottom side: black

Central reinforcement:

- Combination of a polyester scrim and a glass fleece

Permitted installation methods (general)

- Mechanically fastened
- Loosely laid with ballast

Permissible laying method in the context of FM certification:

- Mechanically fastened.

Further characteristics:

- Favorable fire behavior: For various roof build ups, proof of the "hard roofing" or Broof (t1) also with roof pitches $\geq 20^\circ$
- White surface with SRI ≥ 90
- High tensile strength
- Can be combined with light gray Polyfin sheets of the 30 .. and 40..v product lines, as well as with all other sheets of the Polyfin Duo® range.



Certificate of Compliance

This certificate is issued for the following:

Polyfin Duo 3015 GS, Polyfin Duo 3018 GS and Polyfin Duo 3020 GS

Prepared for:

Polyfin AG
Polyfinstraße 1
Meckesheim, D-74909
Germany

FM Approvals Class: 4470

Approval Identification: 0003063011 Approval Granted: 12/8/2020

To verify the availability of the Approved product, please refer to www.roofnav.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in RoofNav, an online resource of FM Approvals.

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