

upDate



■ Bauder's NEW Spring Newsletter
Have you got your copy?

■ Bauder's new 210 page brochure is now available
Have you got your copy?

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Global Approval for Bauder

Rigorous Tests Passed with Flying Colours

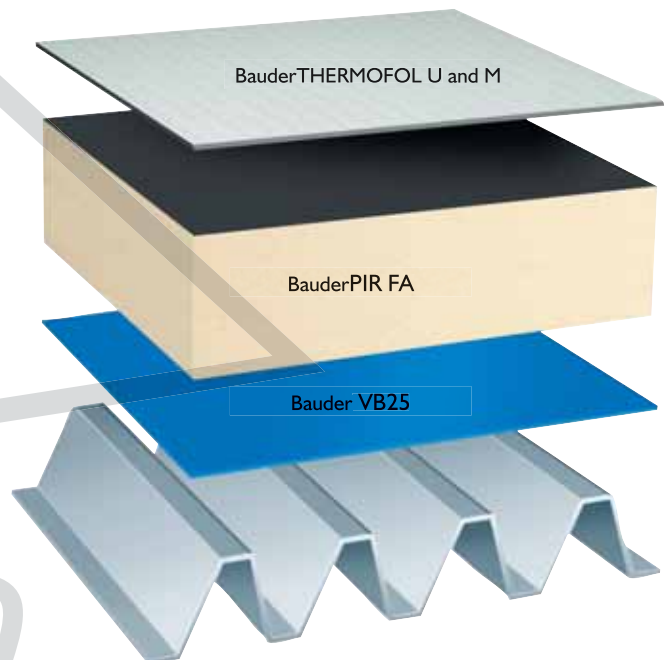
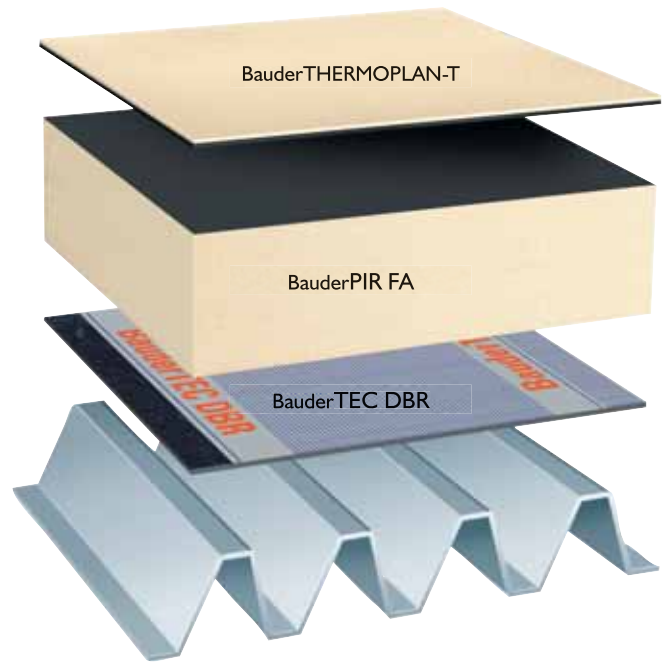
FM Global provides comprehensive global commercial and industrial property insurance. Additionally, FM Approvals is a testing institute in which construction components, materials and systems are inspected to identify levels of potential risk when used in an application. FM Approvals certification assures that a product or system has been objectively tested and conforms to the highest national and international standards. As a result of a successful test, FM Global then recommends its clients to use the approved products and systems in any new build construction as well as in any refurbishment project.

Single Ply Membranes are tested under Category 4470 for Class I Roof Covers.

A typical FM Approvals program for roofing products includes fire testing above and below the deck, wind-uplift testing, hail-damage testing, accelerated weathering testing, and corrosion resistance testing of ferrous metal parts like fixings.

Bauder undertook the FM testing programme on its two single ply membranes, FPO & PVC, and used our ability as a manufacturer of both insulation and bituminous waterproofing sheets to combine all of the required elements of the flat roofing system from one manufacturer.

This means that we are the only manufacturer to have a complete roofing system approved, rather than using component parts from different suppliers to piece together a roofing solution. So, from the self-adhesive bitumen vapour barrier or VB25 vapour control layer, with our high performance thermal insulation BauderPIR FA, up to the synthetic waterproofing membrane in either FPO or PVC, all are now available from a single source manufacturer with FM Approval.



Advantages with Bauder single ply flat roof systems:

- FM-approved
- Reduced damage risk
- Better conditions in building insurance (with FM Global)
- All tested membranes fulfil the requirements for $B_{ROOF}(t1)$
- All tested membranes are in accordance with the DIN 18234 standards
- Reliability and warranty from a single source

THE PRODUCTS

The Bauder range of single ply systems consists of fully compatible components, all manufactured by Bauder.

Bauder THERMOPLAN-T

This high quality FPO waterproofing system offers high quality performance.



- Can even be installed in low temperatures
- Extremely robust with long life expectancy
- Root resistant according FLL guidelines
- UV and temperature resistant
- Compatible with bitumen.
- Available in thicknesses from 1.2 mm to 2.0 mm



Bauder THERMOFOL U and M

The single layer PVC synthetic waterproofing that fulfils all common requirements.



- With synthetic fabric reinforcement for high dimensional stability and strength
- THERMOFOL U: (1.5 to 2.0 mm) for loose-laid, mechanically fixed or ballasted systems
- Root resistant according to FLL guidelines



BauderTEC DBR

BauderTEC DBR ensures that our tested systems are the only approved single ply solution with a self-adhesive vapour barrier

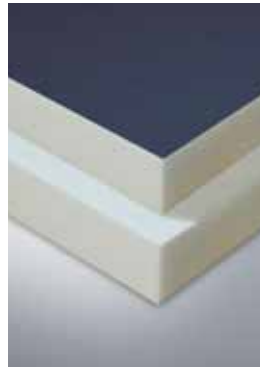


- Reduced fire fuel.
- Wide (1.08 m) and long (50 m)
- Thickness (0.5 mm)
- Cold applied self-adhesive
- Stable and resistant against wind uplift
- Airtight vapour barrier



BauderPIR FA

The 'slim' thermal insulation for flat roofs.



- Thermal conductivity 0.023W/(m.K)
- Large-size format (2400 x 1200 mm)
- Easy and quick installation
- Circumferential rebated edges for secure joints

Even frequent walking on the insulation board does not lead to a reduction of thickness or a compression of the surface.



THE TESTING PROGRAMME

FM Global declares to have the toughest and most challenging set of tests in the world for roofing systems:



1. Calorimeter Testing

This bespoke test measures the amount of energy contributed to a fire from the roofing system. The test is based on an internal fire and subjects the test sample to heat and flame from the underside of the sample, as is the case in most building fires.



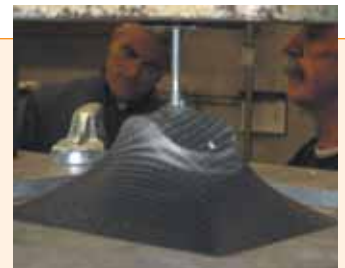
2. Spread of Flame Test

This test measures the spread of flame over the roof surface and the reaction of the system to fire on different pitches as well as in differing wind conditions.



3. Pull Out Testing

This set of tests is to determine the pullout resistance of the selected fasteners from a trapezoidal sheet metal decking.



4. Pull Over Testing

This set of testing is undertaken to ascertain how the combination of washer and fastener work to clamp the membrane in to position and to evaluate how much force is required to pull the membrane over the washer plate.



5. Wind Uplift Test

Once the tests 3 and 4 have been completed on the fasteners and washers a full scale test on a roof rig is undertaken to measure the performance of all of the roof system elements to resist the forces of wind uplift



6. Water Tightness Test of the Welded Joint

A water pressure test is undertaken on a welded joint to confirm the ability of the membrane to prevent water ingress. This test is undertaken on a sample of new membrane and a second sample of aged membrane.



7. Hailstorm Testing

This test is designed to check the systems resistance to hail and other high impact damage. Testing is undertaken on both new and aged material.



8. Step Resistance

A simple check of the system's ability to resist foot traffic in both compression and scuff resistance.