Neopor® Biomass Balance for EPS low carbon insulation – Reduced CO₂ footprint with the high performance you trust

Advantages of the biomass balance method:

The BASF biomass balance approach (BMB), certified by German technical inspection authority REDcert, means that fossil raw materials required for the manufacture of Neopor® can be replaced with renewable feedstock. Production methods of this kind save valuable resources and reduce CO₂ emissions at the same time:

- reduced CO₂ footprint
- saves fossil resources
- independent third-party certification
- produced according the requirements of White Book of the Ellen McArthur Foundation’s Circular Economy 100 network

Consistent product quality and properties:

Neopor® Biomass Balance – Neopor® BMB for short – protects the environment and the climate while maintaining its usual high quality – because the material’s properties are identical to those of its fossil equivalent:

- excellent thermal conductivity
- water-repellent
- resistant to aging and decay
- easy to handle and quick to process
- versatile
- economical

Replacement of the fossil raw materials and the required attribution to a product are confirmed by REDcert.
CO₂ savings with Neopor® Biomass Balance
From production to recycling

Neopor® BMB protects the environment and the climate by reducing CO₂ emissions throughout its life cycle. The CO₂ emitted during the production of an EPS low carbon board made of Neopor® BMB is reduced by 60% in comparison to a conventional EPS board. This has been calculated in an externally verified environmental product declaration (EPD).

More information:
www.neopor.de/epd-neopor-plus-bmb-en

Energy recovery
Energy recovery is the most efficient way to dispose of heavily soiled Neopor® BMB. Certified incineration plants take advantage of the energy that is released to generate electricity and district heating, for example.

Clean and unmixed Neopor® BMB (e.g. board offcuts) can be recycled.²

Compared with the standard product, Neopor® BMB reduces CO₂ emissions by at least 80%.³

Insulation boards made of Neopor® BMB have the same properties as their fossil equivalents. Over a long service life of around 40 years, they therefore save a lot of heating energy and CO₂.

1) Calculation of CO₂ storage in woodland areas is based on the current CO₂ levels found in German forests. In Germany, one hectare of forest stores around 13 tonnes of CO₂ per year averaged across all ages and species. (Stiftung Unternehmen Wald, 2018)
2) In 2016, the recycling rate for polystyrene offcuts from construction was approximately 10% (see “Generation and Management of EPS and XPS Waste in 2016 in Germany in the Packaging and Building Industries” commissioned by BKV GmbH).
3) Calculation of the CO₂ reduction in the Verbund simulator is based on BASF’s own cradle-to-gate calculations.

Find out more about the biomass balance approach: