

Naturally of ecological value ...

LUNATUR WALNUT RANGE

The annual global production of walnuts is about 1.5 million tonnes, and rising. They taste good, and their health benefits are well-known. Compared with other nuts, the walnut has the highest content of an omega 3 fatty acid beneficial to the heart as well as valuable constituents like zinc, magnesium, iron, potassium, and many vitamins. The nuts are also said to have a prophylactic effect on diabetes, cardiovascular diseases, and cancer.



So what actually happens to the tonnes of shells encasing these valuable nuts? In regard to the sustainable and ecologically aware refinement of its EVA products, nora has made use of this valuable product to develop a range of materials that can be used to manufacture footbeds or insoles of great ecological value ...



The products in the **Lunatur Walnut range** consist for a large part of finely ground walnut shells. We therefore use a natural, renewable raw material without interfering with the food chain. The goal of this development was to make practical use of a natural waste product and refine the EVA material with a valuable natural resource.

The outcome are **high quality EVA materials** of different properties that also generate a comfortable foot climate. The material's closed cell structure prevents wound secretion and sweat, and thus germs, bacteria, and fungi, from penetrating the material. Secretions adhering to the surface can therefore be hygienically removed with a commercially available disinfectant.

The first EVA material that contains about 20% of finely ground walnut shells, **Lunatur 18 Walnut** found resounding response at its launch. Specifically ecologically aware practitioners were greatly interested in this new material. At the same time, however, it very soon became clear that a complete range is needed to provide customers with insoles and footbeds "**naturally of ecological value**". This was the reason behind the development and supplementation of **Lunatur 27 Walnut**, **Lunatur 50 Walnut**, and the composite sheet **Lunatur combi CW**.

nora® Lunatur 18 Walnut

bedding cushioning properties

Colour: 340 nut-brown
Hardness: approx. 18 Shore A
Density: approx. 0.12 g/cm³
Format: approx. 980 x 640 mm
Thicknesses: approx. 2 | 3 | 4 | 6 | 8 mm



nora® Lunatur 27 Walnut

permanently resilient cushioning properties

Colour: 340 nut-brown
Hardness: approx. 27 Shore A
Density: approx. 0.24 g/cm³
Format: approx. 830 x 585 mm
Thicknesses: approx. 2 | 3 | 4 | 6 | 8 mm



nora® Lunatur 50 Walnut

stabilising properties

Colour: 340 nut-brown
Hardness: approx. 50 Shore A
Density: approx. 0.35 g/cm³
Format: approx. 900 x 550 mm
Thicknesses: approx. 2 | 3 | 4 | 6 | 8 mm



NOTE: The natural constituents may exhibit slight colour variations. This, however, testifies to the character of a natural material.

Save time and money from the efficiency of insole making by using a natural composite sheet:

nora® Lunatur combi CW

The vulcanised combination of:

nora® Lunatec cork H
stabilising properties
Colour: 205 cork
Hardness: approx. 50 Shore A
Density: approx. 0.35 g/cm³
Thicknesses: approx. 8 mm

nora® Lunatur 27 Walnut
permanently resilient cushioning properties
Colour: 340 nut-brown
Hardness: approx. 27 Shore A
Density: approx. 0.24 g/cm³
Thicknesses: approx. 6 mm

Format: approx. 1,100 x 840 mm
Total thickness: approx. 14 mm

MADE IN GERMANY



Lunatur combi CW consists of **Lunatur 27 Walnut** and **Lunatec cork H** (EVA layer with high cork content) and provides the ideal basis for orthopaedic footbeds of great ecological value and the permanent resilience and stabilisation of insoles, e.g. for counteracting abnormal strain on the musculoskeletal system from skew, flat, splay, or hollow feet.

The material shows **outstanding edge stability** for pressed insoles and has excellent grinding and bonding properties. Depending on the difficulty and type of treatment, **Lunatur combi CW** can be supplemented with additional, stabilising material, e.g. **Norit**, **Lunacell**, or **Lunatur 50 Walnut** or with a soft cushioning or bedding material, e.g. **Lunatur 18 Walnut** or **Lunatur 27 Walnut** at the heel and in the forefoot.

Benefits from the use of vulcanised composite sheets:

- No gluing necessary
- No displacement between the various materials during processing
- A larger retained volume because at least one deep drawing process is not needed
- The composite sheets are thermoformable at 120-130° C // 248-266° F
- No blisters or hard spots caused by an adhesive film

Processing instructions for a long-soled bedding insole:

Heating: approx 5 minutes | Oven settings 130° C // 266° F

The trimmed material is heated in a closed source of heat and then moulded on the last in a straight vacuum former.

Cooling time: approx 10 minutes

Afterwards, grind to shape.

The permanently resilient cushioning layer of **Lunatur 27 Walnut** serves as a cover.

Tip: A thin check shoe sheeting on the last is recommended for a particularly smooth surface.

