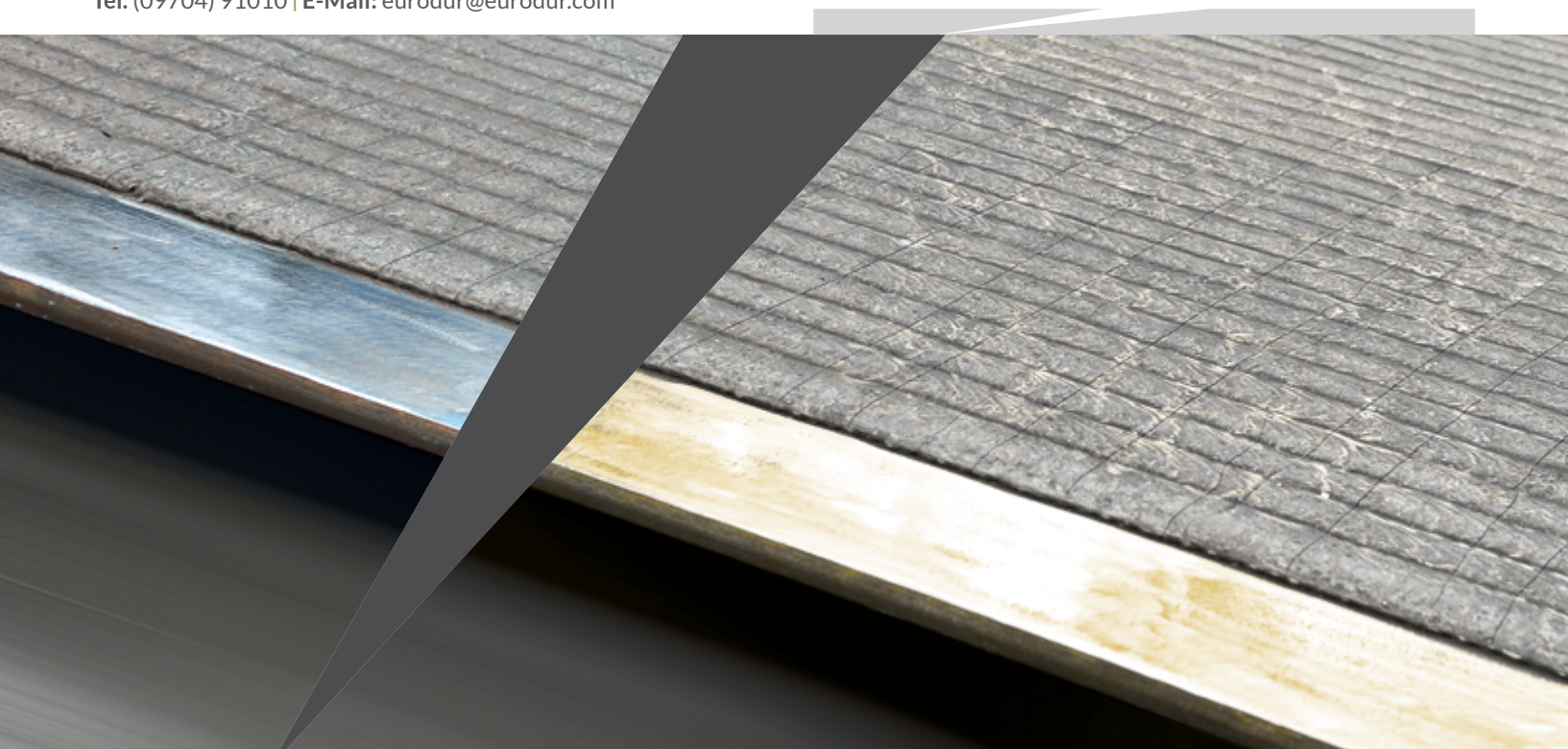




# DATA SHEET **EURODUR<sup>®</sup>** **3100**

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#### PLANNING & CONSULTING



From consulting and system engineering to the finished product.

#### QUALIFIED CONSULTANTS



We have the right specialist for every challenge.

#### CONSTRUCTION & PRODUCTION



Your order is produced with our cutting edge technology in best quality with utmost accurateness.

#### DELIVERY / ASSEMBLY



Flexible and dependable – including assembly on-site.

EURODUR<sup>®</sup> always sets focus on innovative products. Constant enhancements are achieved by closely working together with you as our client. Only together your individual needs and challenges can be solved. Hundreds of active EURODUR<sup>®</sup> clients are able to verify this, especially in the field of cement, mining, steel- and recycling industry.

Every single EURODUR<sup>®</sup> production facility is equipped with the most advanced technology. Production is computer controlled to reproduce optimum material performance even with varying material thickness. Our intense research work lead us (for instance) to optimize the cooling cycle to enhance the hardening phase. Constant improvement and quality control guarantee for optimum performance.

## PRODUCT INFORMATION

|   |  |
|---|--|
| <b>Production Technology</b>                      | The EURODUR <sup>®</sup> Composite plates are produced with highalloyed filler wire in an OpenArc-welding process. A high share of carbid-alloyed elements in the filler wire, combined with our self developed cooling technology of our welding tables, guarantee for an optimized homogeneous distribution of hardening material in the coating area and a minimum mixture with the substrate material. |
| <b>Technical Data</b>                             | EURODUR <sup>®</sup> 3100 is a coated composite material which is characterized through a high share of carbon, chromium, silicon, columbium and boron. Embedded in the welding surface with ledeburitic structure are several very hard special carbides. The share of carbides is more than 50 %. Hard build-up welding according to DIN 8555.   |
| <b>Substrate to highly wear resistant coating</b> | A highly efficient wear resistant surface welding is possible with varying substrates, form <b>S235R2 up to highly-alloyed materials</b> .   |
| <b>Material Thickness of base material</b>        | Standard thickness 5, 6, 8, 10 mm – more upon request.   |
| <b>Dimensions</b> (coated area)                   | <b>Deliverable sizes:</b><br>Small: 850 x 1850 mm<br>Medium: 1100 x 2350 mm<br>Large: 1350 x 2850 mm<br><br>Special formats up to max. 1850 x 3800 mm upon request.  |
| <b>Coating thickness</b>                          | Single Layer: 3 – 6 mm (for example 8 + 5 mm)<br>Double Layer: not possible because of alloyed process   |
| <b>Coating hardness</b>                           | At normal temperature (20°C) EURODUR <sup>®</sup> 3100 reaches a hardness of up to 64 HRC +/- 3. Operating Temperature up to 600°C. Hardness measurement with test piece DIN 32525-4.  |
| <b>Applications</b>                               | Used if highest resistance against abrasive wear and high temperatures are needed.   |
| <b>Examples of successful usage</b>               | Cyclones, cement industry, cyclones in shredding plants, sieves etc.   |

## ADDITIONAL COATING VARIANTS



The 45 degree orientation of the welding bead to the conveying direction induces only small wear. Welding toes as well as hardening cracks are directed at a 45 degree angle to the conveyor stream, protecting the component against wear.



Wearout during transportation of highly abrasive media is often evident at welding transitions. If high speed transportation of highly abrasive or very fine particles is needed, the welding in sine wave form should be preferred because it shows great advantages in reduced wear of the component.