



## CUSTOMER REFERENCE

### Profiled Board made from NECURON® 651

<b>Customer:</b>	Barum Continental, Otrokovice, Czech Republic
<b>Products used:</b>	NECURON® 651
<b>Branch:</b>	Tire industry
<b>Application:</b>	Manufacturing of master models for tire production

#### 1. ISSUE

Vulcanization tools for car tire manufacture are to be developed and produced.

#### 2. SOLUTION

Master models must be made from NECURON® 651.

Necumer supplies radius plates made of NECURON® 651 in the format: 1200 x 350 x 130 mm  
Further processing at Barum as follows:

1. Cutting the panels into smaller segments according to the later tire format.
2. Milling of the tire profiles as positive.
3. Filling the model with silicone to create a negative
4. Filling the negative with gypsum to create a positive again.
5. The positive made of gypsum is filled into an aluminum negative in our in-house aluminum foundry.
6. The negative segments, cast from aluminum, are completed to a tire vulcanization tool and CNC post-processed.

#### 3. RESULTS

With the profiled boards made of NECURON® 651, at least 40% of the total costs can be reduced by saving material, time, waste and tool wear as well as purchasing expenses.

There is also an improvement in quality, as the plate is characterized by good edge stability, an excellent surface and compatibility with silicone.

#### APPLICATION IMAGES

