

Usibor® 1500P and Ductibor® 500P the ultimate tool for weight and cost reduction

An efficient way to combine the superior mechanical properties of Usibor® 1500P and the benefits of Tailored Blanks technology

Usibor® 1500P

> Weight reduction
and crash safety



Tailored Blanks technology

> Cost saving :

- Mass optimization
- Reduced number of parts
(less assembly and stamping operations)

> Crash management :

- Various thicknesses
- Partner for energy absorption with Ductibor® 500P

For critical areas where energy absorption is primordial in order to improve safety and crash management, Usibor® 1500P has to be combined with a more ductile Press Hardened Steel:

Ductibor® 500P

- > No failure in the welding during a crash
- > Good stability of the structure
- > Ductibor® 500P deforms: energy absorption
- > Usibor® 1500P does not deform: anti-intrusion
- > Ductibor® 500P has same energy absorption performances as Dual Phase 600

Ductibor® 500P
1.5 mm



Usibo® 1500P
1.5 mm

Usibor® 1500P
1.5 mm



Ductibor® 500P
1.5 mm

Usibor® 1500P
1.5 mm



Ductibor® 500P
1.5 mm

The Usibor® 1500P/Ductibor® 500P Tailored Blanks is an advanced concept for both Pillar and Rail applications

Usibor® 1500P/Ductibor® 500P Tailored Blanks Rear Rail

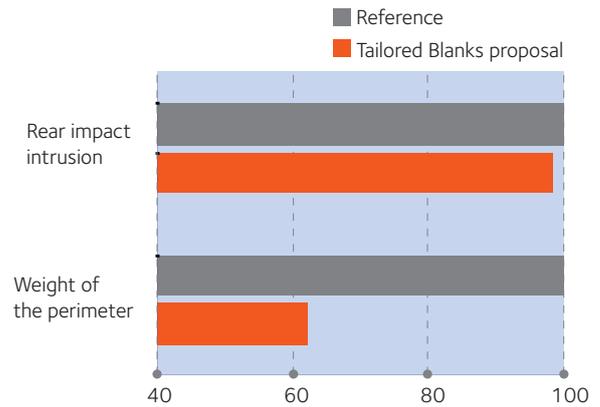
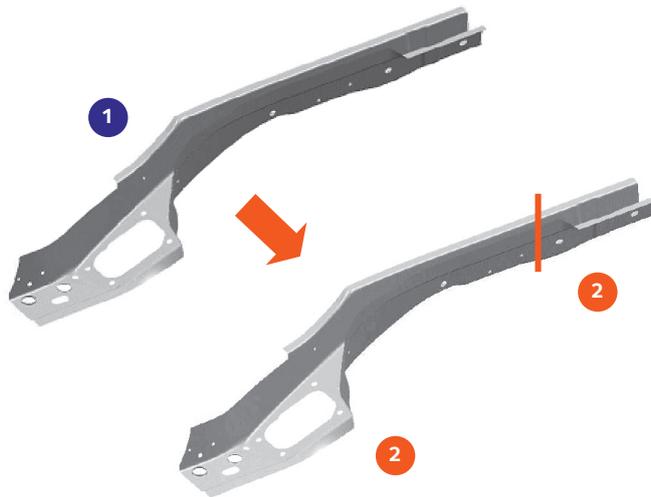


Illustration: courtesy of Volkswagen SuperLightCar European project

1 HSS
T: 2.0mm

**- 38 % in weight
- 4.1 kg / vehicle
No cost penalty**

2 Usibor® 1500P
T: 1.2mm

2 Ductibor® 500P
T: 1.5mm

Tailor Welded Blanks applications made of Usibor® 1500P and Ductibor® 500P

