



HiPeBa

High Performance Steel for Safer and more Competitive Safety Barriers

Final results on the selection of High Performance Steels for Road Restraint Systems

The Project

On 30 June 2017, the **HIPEBA** project officially ends. For three years, the Consortium has assessed how **High Performance Steels (HPS)** used in the context of **Road Restraint Systems (RRS)** can increase their containment level while reducing the cost of industrial production of such systems. To read more about the project, visit our website at www.hipeba.eu



The research leading to these results has received funding from the European Union's Research Fund for Coal and Steel (RFCS) research programme under grant agreement N° RFSR-CT-2014-00021.



The Phases

HIPEBA has performed a series of material behaviour tests in order to rank different steel grades based on tensile, strain and formability stress performance.

Lab research paved the way for successful real scale crash demonstrations, in cooperation with international industrial partners able to manufacture the high performance safety barriers.

The Results

The crash tests performed during the project cycle demonstrated how by using **HPS** the weight of the **RRS** is dramatically reduced by 23%-25%, while the energy absorption capability is increased by 40% compared to conventional systems.

The **HPS** developed by the **HIPEBA** Consortium ensure safe redirection of truck weightening up to 44 tons hitting the barriers at a speed up to 70 km/h.

Our Partners

The HIPEBA Consortium has gathered a multi-national group of specialist organisations from the **industry, academia** and **research** sectors.

