Cross-Sectional Shape Concept of Body Component Utilizing Ultra High-Tensile Strength Steel Sheet and Roll Forming

**Effect**
- Weight Reduction by High Strength, High EA Structure

**Progress**
- 1. Under Development
- 2. Development Completed
- 3. Commercialized

**Points**
- Processing Ultra High-Tensile Strength Steel by Roll Forming, and Utilizing Degree of Freedom of Cross-Sectional Shape

*Door Impact Beam*

*High EA Door Beam*
- Conventional: 1470 MPa-grade 12.3
- Development: 1470 MPa-grade 11.8
- Weight Reduction of 10%

*High Strength Locker*
- Conventional: Max. Load Ratio (%)
- Development: RF Abolished Cross Section Reduced
- Weight Reduction of 25%

An Example of Forming with 1180 MPa-grade Steel