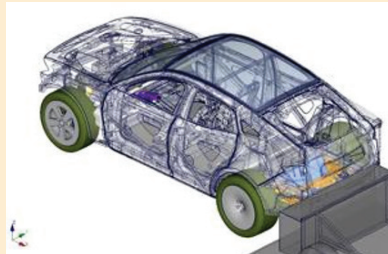
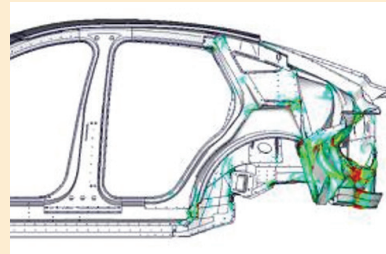
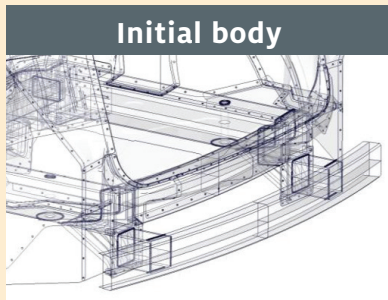


# The Mobility Alliance

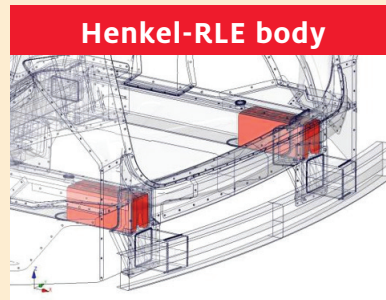
## FMVSS 301 Rear Crash



Initial body



Henkel-RLE body



## Key Facts

- Achieved lightweight concepts and crash performance targets with Henkel solutions together with RLE's engineering expertise.
- Full battery crash protections, no intrusion into the battery cells.
- Improving the crippling behavior in the rear member
- **1.9 kg weight savings** through downgaging of rear member 0.5 mm

Body Concept Baseline



- E-SUV with 80 kWh battery
- **75% Aluminum / 25% Steel**
- Weight: 2500 kg / BIW Weight 431 kg (including closures and hang-on parts)

- ✓ Use of structural hybrid solutions, structural adhesives and panel re-inforcements
- ✓ Reduced BIW and Closure weight by 4.2 kg (from 431 kg to 389 kg)
- ✓ Reduced joining elements by 6%

DOUBLE THE EXPERTISE, SQUARE THE OUTCOME  
[TheMobilityAlliance.co](http://TheMobilityAlliance.co)

