

New Joining Solution for Composite Materials : ADL

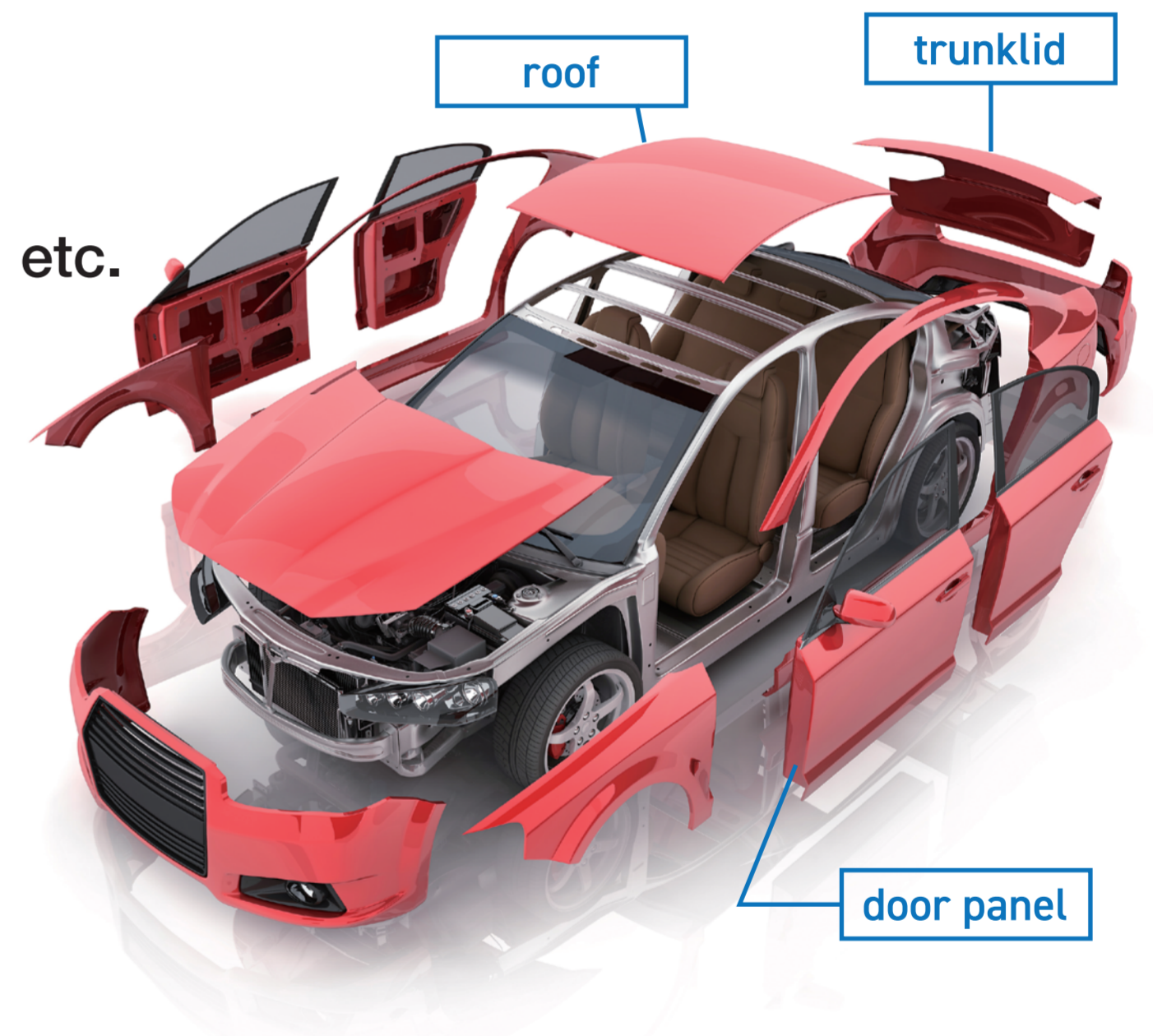
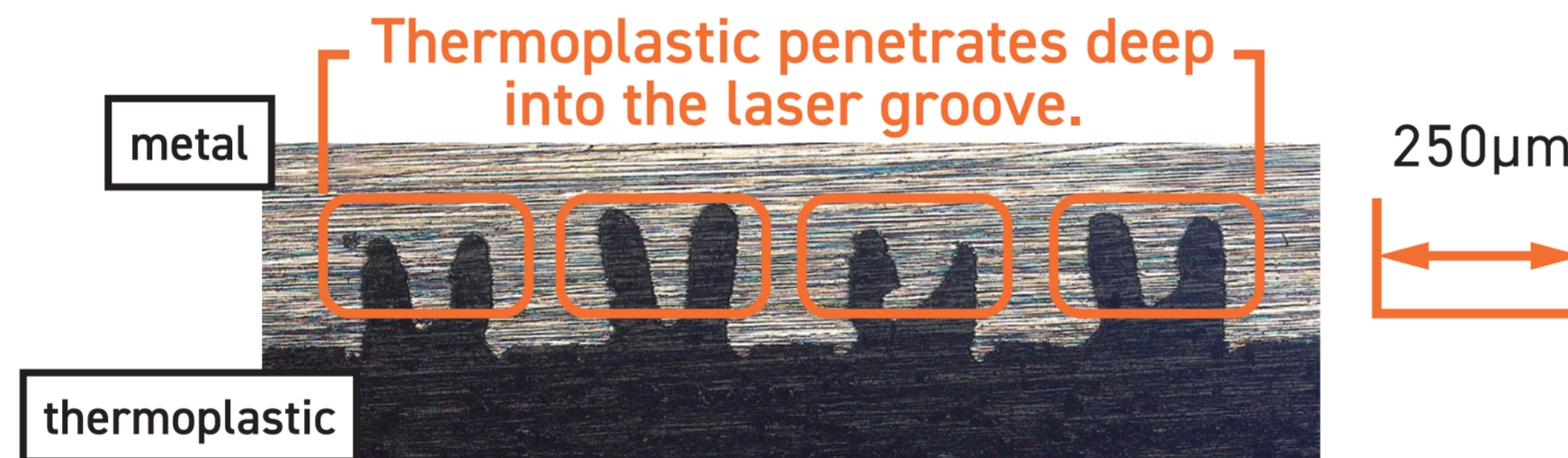
Anchor formation and Dissimilar material joining method with Laser

Unique laser grooving * for high anchor effect.

* Patent pending

- Compatible with various joining methods:

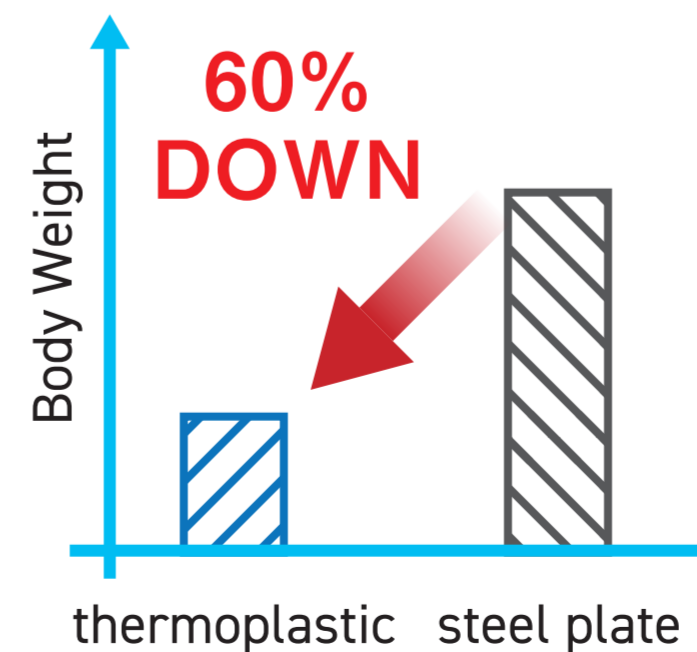
High strength and high airtightness in joints by laser heating, injection molding, etc.



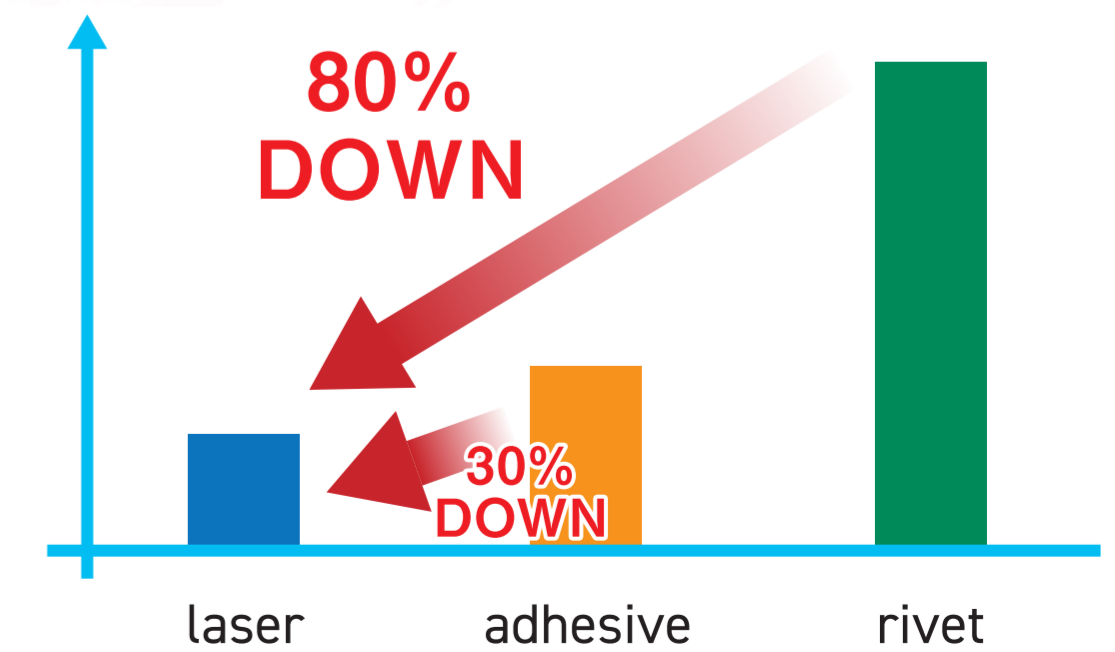
New value proposition

realized by direct joining of thermoplastic and metal

- Vehicle weight reduction: Roof and door panels can be replaced with lightweight plastic materials.
- Lower cost: Direct joining enables secondary material-less such as adhesives and rivets.



Weight reduction of vehicle body



Cost Comparison