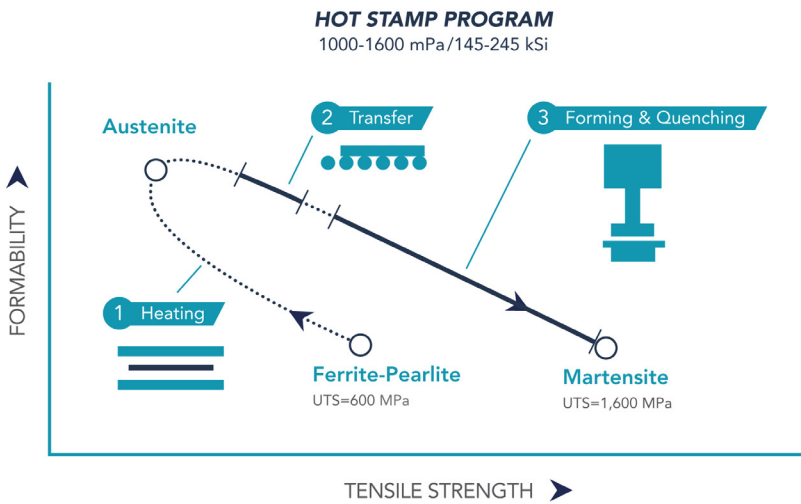
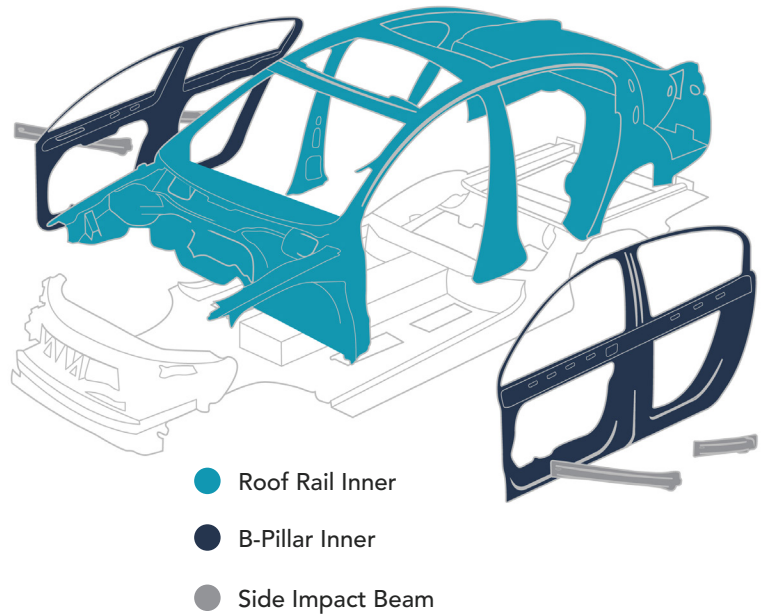
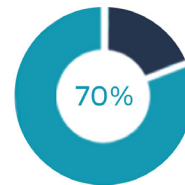


**Hot Stamp**

The team was challenged to remove 8 lbs from a step rail mount bracket and improve the current performance. The solution was found by developing a hot stamp process for the part. Material type changed from GMW2M-ST-S-70G70GU to Usibor 1500. The total mass savings for the project exceeded the 8lb goal and strength improved by over 4x.



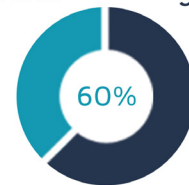
**TEMPERATURE** ↑



Performance Improvement  
**Weight Savings**  
1.5488 lbs. to .46 lbs.



Strength Improvement  
**TOTAL BRACKET STRENGTH**



Performance Improvement  
**THINNER MATERIAL**