



## Runner up : Module

**Faurecia**

**faurecia** **Resonance Free Pipe**

Tailpipe resonators break standing sound waves to reduce unwanted resonance frequencies. Faurecia's Resonance Free Pipe™ (RFP™) eliminates these waves without resonators by venting acoustic pressure at optimum points along the pipe through a micro-perforated material. The minute venting of the pressure wave damps the resonance and enables a simpler system design that provides 3 to 5kg of weight-savings in a more compact package. RFP™ can be used in vehicles with long tailpipes as the final element of the exhaust system.

Category:  
**Module**

Application:  
**2019 GMC Sierra**  
**2019 Chevrolet Silverado**

Weight Savings:  
**15%**  
Weight reduction

Methodology:  
**Design Optimization**