

## Aluminum/Steel Multi-Material Door

### Benefits

- Reduction of side door costs and weight reduction costs  
(Weight reduction cost: less than 500 yen/kg, 60% reduction compared to aluminum doors)
- Weight reduction effect compared to steel sheet doors: approx. 7 kg/door (weight reduction rate: approx. 40%)

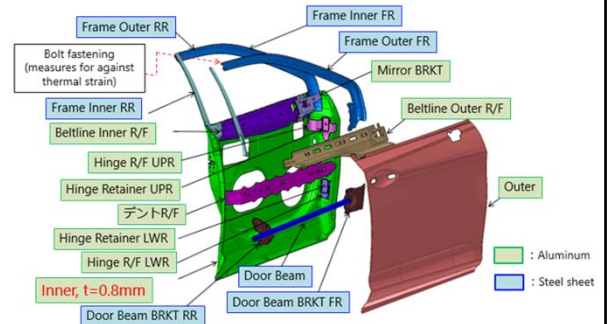
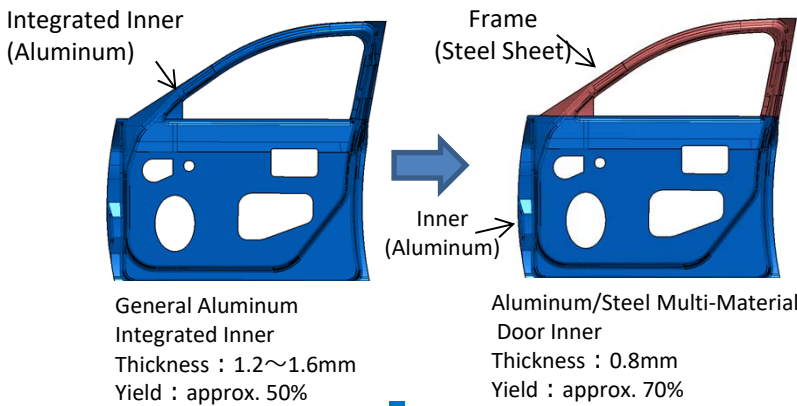
### Point

## Prototype Model

Low-cost multi-material (MM) door realized by using a thinner aluminum inner and a steel sash frame

A multi-material door was achieved at a lower cost by using a thinner aluminum inner and a steel sash frame

Aluminum/Steel MM Lightweight Door Component Composition



Aluminum/Steel MM Lightweight Door Prototype



(Outer Side)



(Inner Side)