

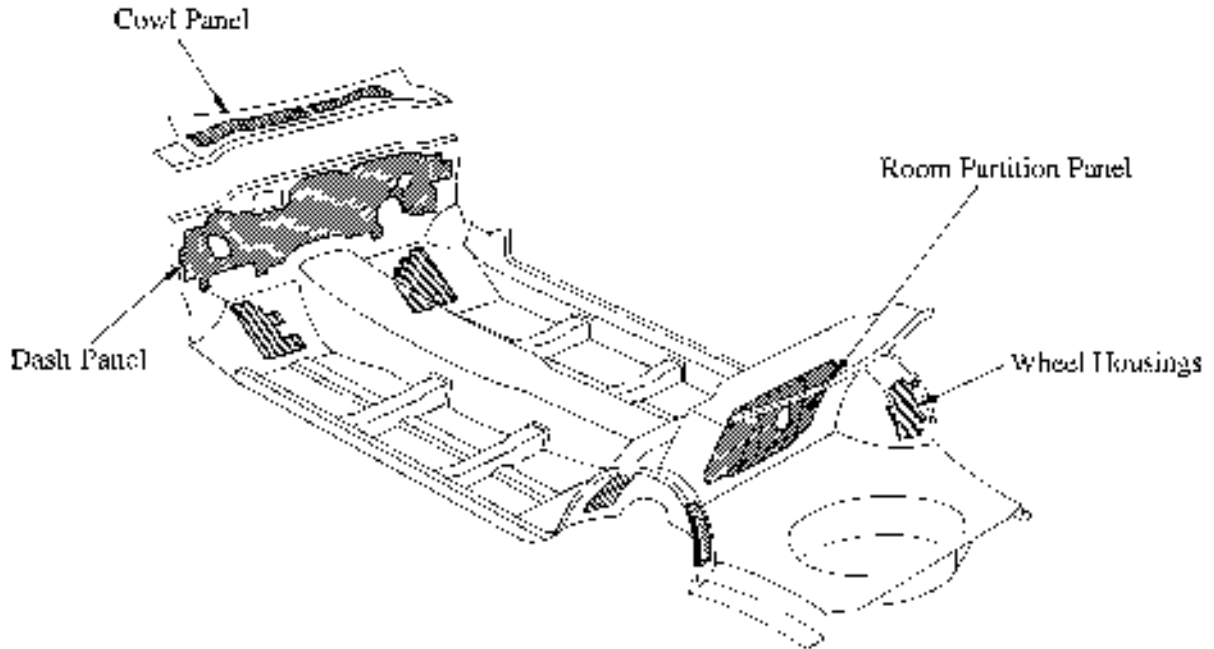
## LOW VIBRATION, LOW NOISE BODY

Vibration damping steel sheet is used widely and vibration damping materials such as asphalt sheet with a resin binding are used where they will be most effective. This full use of sound absorbing material reduces noise and vibration and increases the vehicle's quietness.

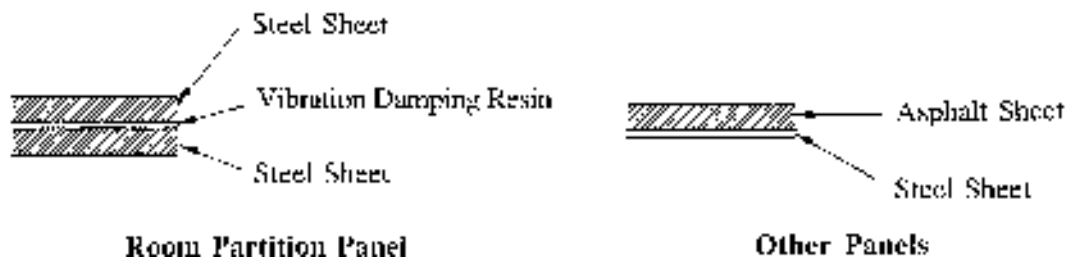
### ■ VIBRATION DAMPING STEEL SHEET

Vibration damping steel sheet is used widely in the dash panel, cowl panel, wheel housings and room partition panel to reduce engine and road noise and increase the vehicle's quietness.

#### ►Application◀



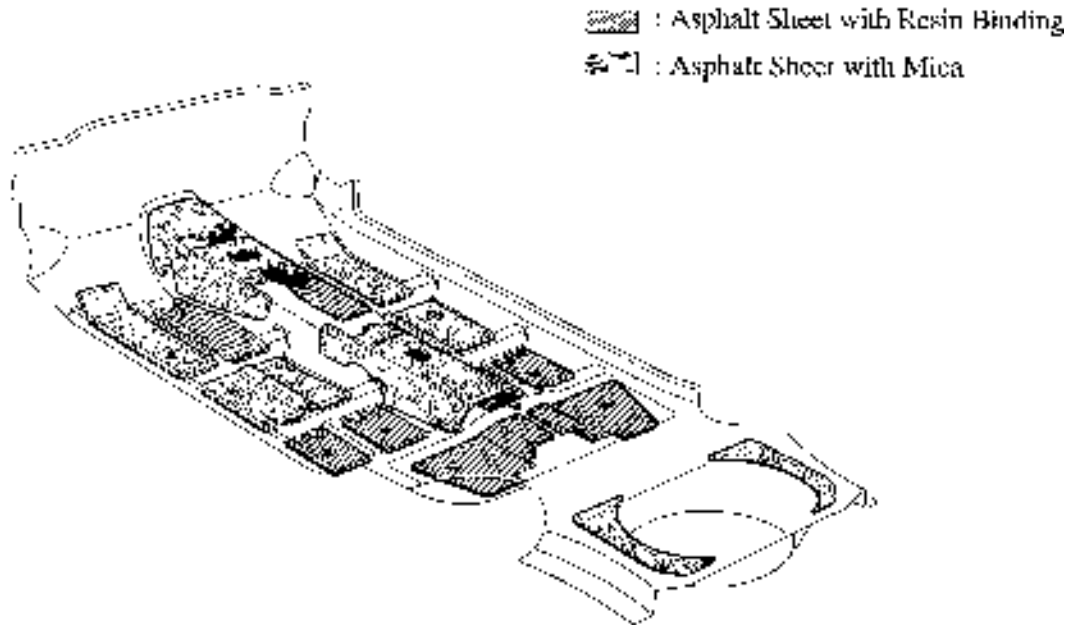
#### ►Construction◀



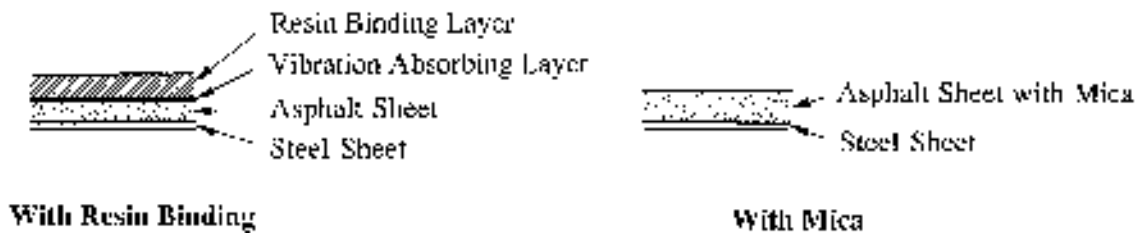
## ■ VIBRATION DAMPING MATERIALS

Two types of asphalt sheet, asphalt sheet with mica and asphalt sheet with resin binding, are positioned effectively to reduce the intrusion of engine noise and road noise.

### ► Application ◀



### ► Construction ◀

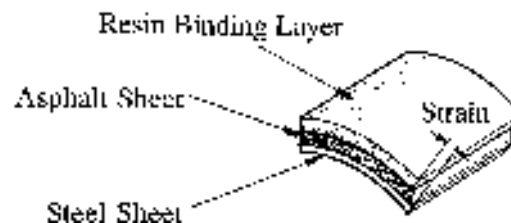


### — REFERENCE —

*Asphalt sheet with resin binding : These sheets have a 3-layered structure.*

*Asphalt sheet is added to steel sheet, then a heat hardened resin layer is added on top for binding.*

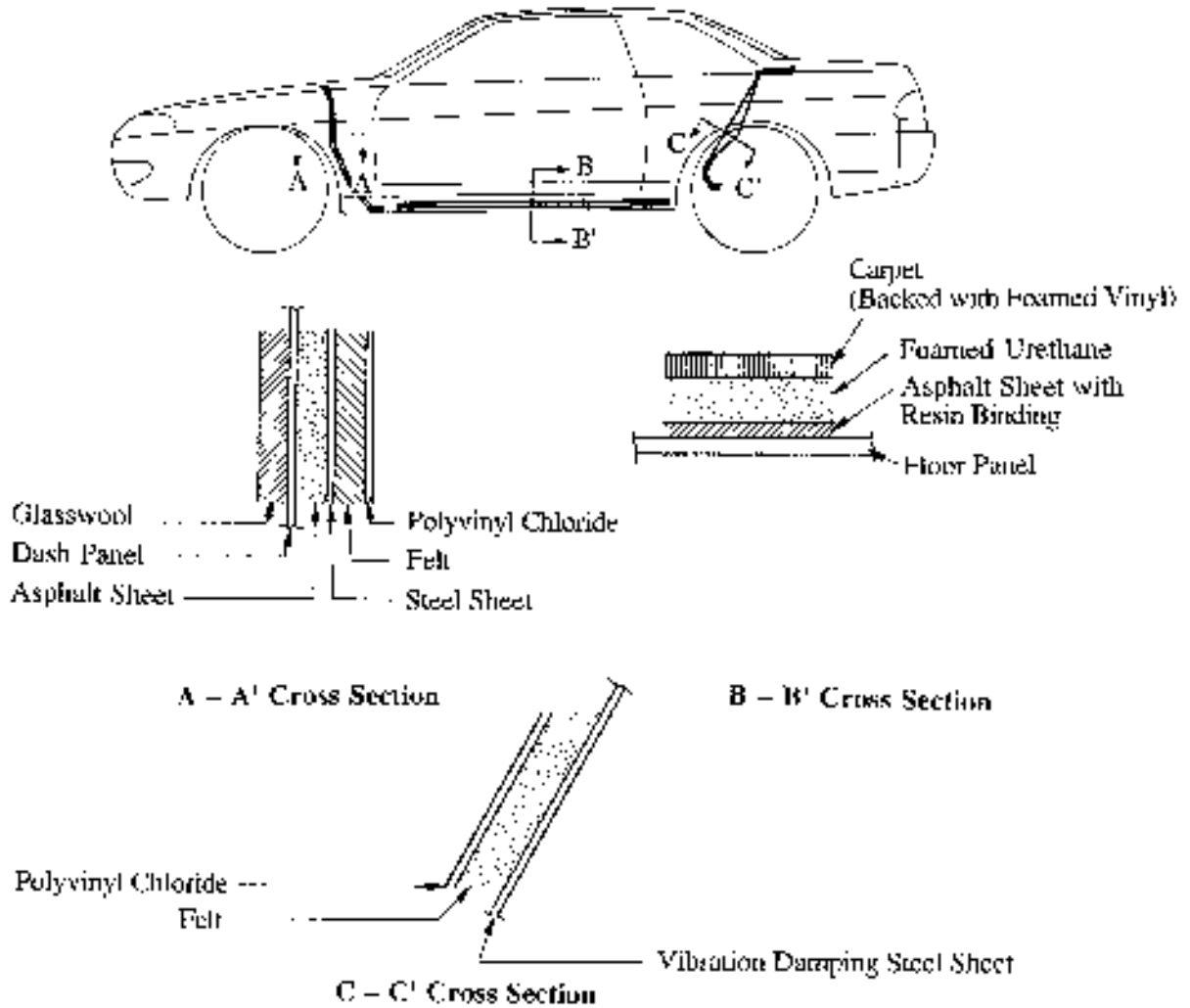
*Vibration energy causes the asphalt sheet to stretch, and is thus absorbed. The addition of the resin layer distorts the asphalt sheet. This distortion causes even more vibration energy to be absorbed.*



## ■ SOUND ABSORBING MATERIALS

A multi-layer composite structure is used in the dash panel, floor panel and room partition to reduce engine noise and road noise. In addition, by filling the front and center pillar panel and roof panel with foamed vinyl, wind noise is reduced.

### ►Multi-Layered Composite Structure◄



### ►Foamed Vinyl◄

