# Aluminum alloy sheet for body panels

Aluminum alloy sheet features superior formability and strength

Currently, 6000 series aluminum alloy sheets are the type most commonly used in body panels, and since they have "bake-hardenability," they can be strengthened during the coat baking process. The 6000 series aluminum alloy sheets are characterized by low strength during the molding process, making them highly workable, but the coat baking process makes them substantially stronger.

Aluminum alloy sheet Aluminum extruded shapes

Aluminum cast products

Bonnet

Front fenders

**Roof panel** 



Doors

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## Change in proof stress of body sheets

### ■ Usage of UACJ 6000 series aluminum alloy sheet

#### HEMMING



### Tailored blanking



Toyota Prius Bonnet (inner/outer)



Lexus LS500 Door panels (inner/outer)



# <u>UACJ</u>

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Usage of aluminum body panels in Europe and the United States





The use of aluminum alloy materials has reduced the entire vehicle weight by about 320 kilograms.



## Superplastic aluminum alloy sheet

