

### Lucid Gravity Body Structure

#### Aluminum Best Practices

- Aluminum repairs should be performed in an area separated and protected from steel working areas. Any tools used for aluminum repairs should be quarantined from steel repair tools to prevent the possibility of Galvanic Corrosion.
- Sectioning of aluminum components are limited to Class-A outer surfaces, and other locations only explicitly called out in Structural Repair Procedures.
- Class A Surfaces are defined as any exterior customer facing panel that is painted the vehicles main exterior color as defined by the vehicles color code.
- Where sectioning repairs using backing plates and welding are required, destructive test welds must per performed to ensure proper weld quality.
- Maximum allowable tear length for repair in a Class-A surface is 25mm.
- Maximum allowable hole size for repair in a Class-A or other allowed area in a structural procedure is 5.7mm.
- For Class-A surfaces, ER4043 welding wire is recommended.
- For other structural welding, ER5356 is required.
- When performing cosmetic repairs on Class-A Surfaces, do not exceed 350°F panel temperature.

#### Plastic and SMC Best Practices

- All Repairs to Plastic and SMC components on the Lucid Gravity should follow the recommend guidelines of the manufacturer of the product used to repair said components.
- Any potential repairs to the front fascia must follow the guidelines set by the Fascia Repair Position Statement found on the Lucid TechInfo Portal. Current revision is <u>2023.18.1</u>

#### Adhesive and Fasteners Best Practices

- Lucid Gravity is constructed from two types of fastening systems:
- SPR's (Self Piercing Rivets)
- FDS (Flow Drill Screws)
- Countersunk Flow-Form rivets are the primary replacement fastener during the Structural Repair Processes on the Lucid Gravity.
- The extensive use of countersunk fasteners to replicate the look and strength of the factory joining methods requires repair procedures to be much more extensive than standard repair procedures.
  - The 3-step manual preparation and installation method outlined in the Body Repair Procedures for Countersunk Flow Form also has a positive impact on door seal performance due to the minimal panel deformation that occurs when compared to the factory joining methods.
- 3M 07333 Impact Resistant Structural Adhesive is the only Approved Structural Repair Adhesive for Lucid Gravity at this time.

### Material Map Color Index

The design of the Lucid Gravity Body In White consists of a multitude of different forms of aluminum and steel alloys. The index below calls out the corresponding materials and their related colors.

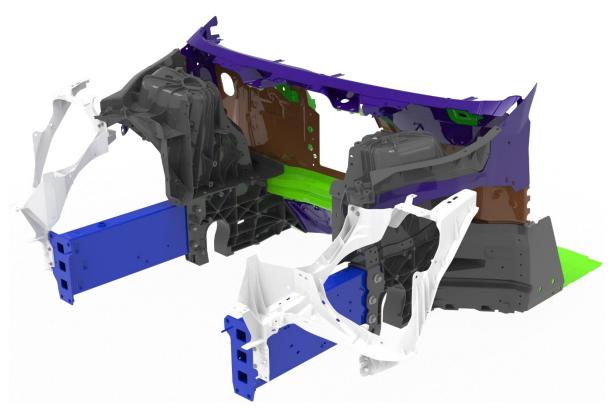
Fascia Covers, and components of the Decklid Assembly are comprised of PP Plastics.

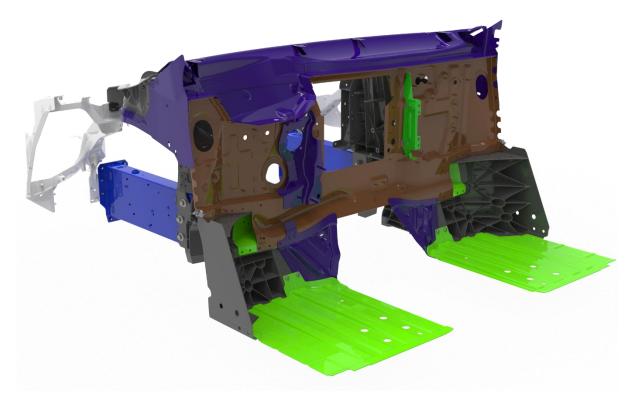
The index Below will be at the bottom of each image on the following pages.

Please reach out to <a href="mailto:BodyRepairProgram@LucidMotors.com">BodyRepairProgram@LucidMotors.com</a> with questions.



# FUB (Front Under Body)







Extrusion













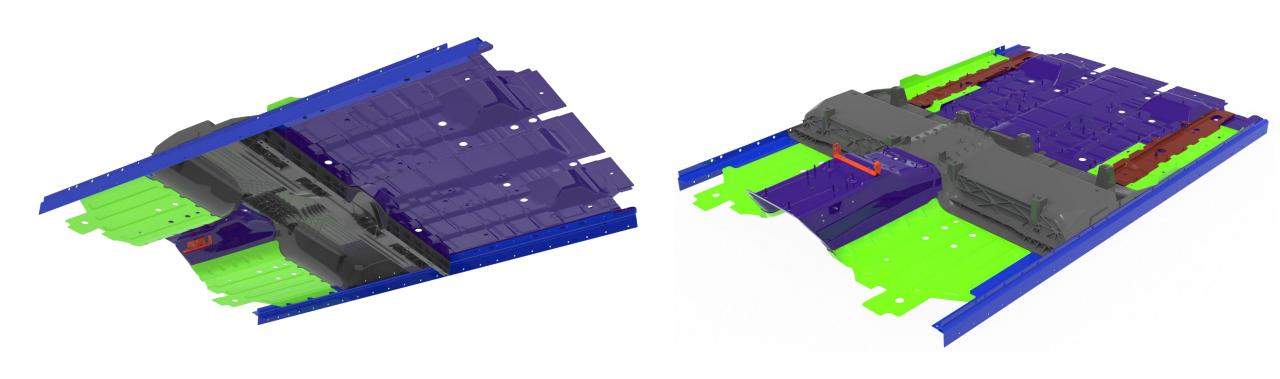


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Aluminum

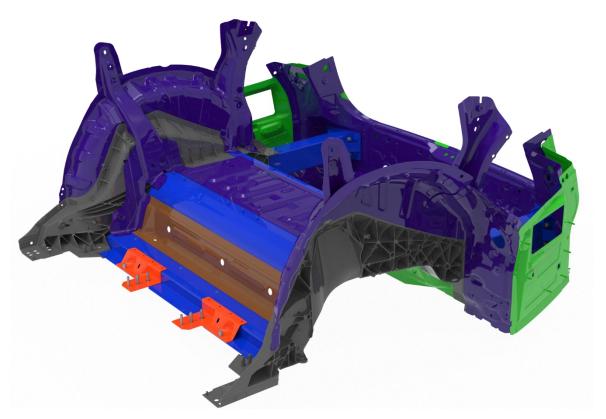
Confidential

# CUB (Center Under Body)





# RUB (Rear Under Body)



















6016 CF Aluminum

Aluminum

Aluminum

Confidential

# BSI (Body Side Inner)



















Extrusion

Aluminum

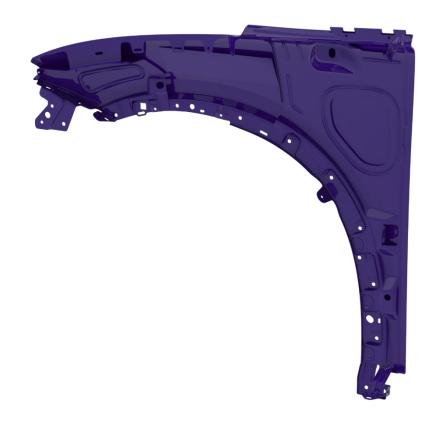
6016 CF 5754 CF S650 CF Aluminum Aluminum Aluminum

# BSO (Body Side Outer)



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## Fender

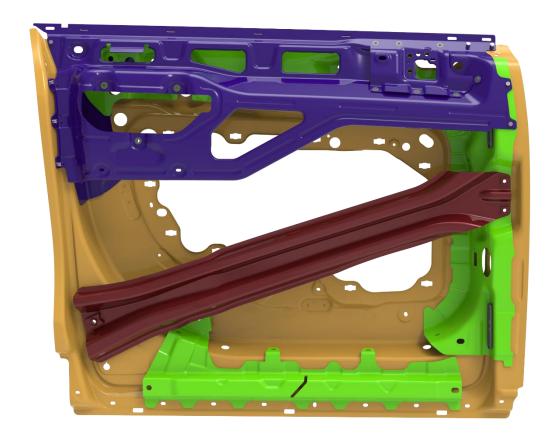






### Front Door











6016 CF S650 CF Aluminum Aluminum

5182 Aluminum

#### - $\cup$ $\subset$ ID

## Rear Door











6016 CF S650 CF Aluminum Aluminum

5182 Aluminum



# Decklid Assembly







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# Hood Assembly









# Front Fascia Assembly





PP Plastic



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## Rear Fascia Upper Assembly





PP Plastic

