TEXTTOCAD
TEACHING AI TO MAKE THINGS

# Door inner frame mass

Two substitutions in the R08 mass ledger

**R08 → R10**

DEV26 · 21.11.2026

## Change for the pair

**+45.25 g**

Central case. Both saved CAD models assign a design density of 2700 kg/m³ to the door frames.

Values refer to native geometry in the nominal closed-door pose.

## Components and calculated material mass

| Object | R08, cm³ | R10, cm³ | R08, kg | R10, kg | Change, g |
|---|---|---|---|---|---|
| DoorLInnerWeldment | 738.879 | 747.259 | 1.994975 | 2.017599 | +22.624 |
| DoorRInnerWeldment | 738.879 | 747.259 | 1.994975 | 2.017599 | +22.624 |

## Operating mass with driver and fluids, excluding compressed gas

| R08 case | Frame factor | Baseline, kg | Change, g | With substitutions, kg |
|---|---|---|---|---|
| Low | 0.90 | 2 815.852 | +40.72 | 2 815.893 |
| Central | 1.00 | 3 336.703 | +45.25 | 3 336.748 |
| High | 1.15 | 4 137.025 | +52.04 | 4 137.077 |

## Accounting and scope

Exactly two of the 9,038 dry-mass rows were replaced. The 93 allowance rows are already present in the baseline.

The driver and 83 fluid rows were counted once. The weld filler mass for these changes remains open.

The projection holds every other R08 assumption fixed. A complete R10 mass ledger and measured weights remain open.