

Durability improved
Weight saved



Alloys:

- Ti 10-2-3
- Al 2XXX-T3, -T42, -T36
- Al 7055-T77
- Al 7150-T77
- Ti- 6-4 ELI
- Ti 15 -3 -3 3
- Ti B21S
- Ti 6-2-4-2

Composites:

- Toughened CFRP
- Pitch core
- Perforated CFRP/Nomex



Uncolored

- Glare bulk cargo floor
- 6013 Al alloy
- Lightweight sealants
- Al mesh
- AV-30 corrosion inhibiting compound
- Dense core potting
- CFRP comp. cascade
- Al-Li 8090 sound damping angles
- RTM CFRP chine

3: Upper skin and stringers

9: Fin and stabilizer

4: Upper spar chord

2: Aft bulkhead

5: Stabilizer attach fittings

4: Seat tracks

9: Floor beams

4: Crown stringers

4: Keel beam

4: Belly stringers

8: Aft heat shield

8: Engine mounts

6: ECS ducting

2: Fuselage skin

1: Truck beam and braces

7: Tail cone outer sleeve

7: Tail cone plug

7 & 8: Aft core cowl

10 & 11: Thrust reverser cowl

11: Inlet cowl inner barrel

Boeing 777 Loading Manual

**Yue Wang, Yuyang Liu, Jiaqi
Zou, Mengyao Huo**

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