

Surfacing



Concept digital modelling

- Direct surface modeling based on styling sketches – volume studies
- Basic digital model instead of traditional clay model
- No physical model is necessary - Reduction of time
- Focused on style - Some technical limits are ignored
- Surfaces are tuned in following Class A stage
- Software ICEM Surf Magic, ALIAS

Class A surfacing

- Modelling of all the surfaces visible to customer
- Emphasis on optical quality and feasibility
- Input: Concept digital model, scan of clay model or styling sketches
- Technical limits: Technology, gap plan, inner structure parts...
- Regulations: Pedestrian and passenger safety
- Ergonomics: Package
- Software ICEM Surf

Quick surfacing

- Fast creation of surfaces on scans of physical models

- Time priority: Less emphasis on the quality of the surfaces
- Surfaces for early development purposes:

CAE meshing / CFD mainly

Pedestrian safety analyses

Early feasibility checks

Concept design...

Software: ICEM quick surfacing

Visualization – Virtual reality

- 3D realtime photorealistic presentations
- Exterior and interior
- Animations: Opening of doors, sliding of seats...
- Export RTT DeltaView or *.avi files
- Software RTT DeltaGen.