

DFM Review

Design for manufacturing review for an injection moulded part. October 25, 2026

HARD GATE: All High findings are closed before steel is cut. Medium and Low findings are fixed, or accepted by the customer in writing.

Review Header

Part name: _____

Part number / revision: _____

Material: _____

Toolmaker: _____

Review date: _____ Reviewed by: _____

Customer contact: _____

How to Use This Form

- Start it as the first design task, the day the part data arrives.
- Log one finding per row. Take a screenshot of each problem area, mark the spot, and give the image a number (F1, F2 and so on). Put that number in the Findings table so everyone is looking at the same spot.
- Rate every finding High, Medium or Low using the key below.
- Every customer response goes in writing. A verbal yes is not an answer.
- Re-run the review on any new revision and carry open findings forward.

Rating Key

High: will cause a defect, a tool failure, a safety issue, or a missed critical dimension. Must be closed before steel.

Medium: likely to cause cosmetic problems, longer cycle time, extra tool maintenance or added cost. Fix before steel, or accept in writing.

Low: an improvement or good practice. Fix if cheap, otherwise accept in writing.

Customer response: Accept (the change will be made), Reject (the design stays as is and the customer accepts the risk in writing), Modify (a different fix is agreed).

Status: Open, In work, Closed.

Areas to Review

A prompt list, so nothing gets skipped. Use it to start the conversation with the designer and the customer.

- Wall thickness and transitions
- Sink and voids at ribs, bosses and thick sections
- Draft, including extra draft for texture
- Undercuts, side actions and lifters
- Gate location, knit lines and fill balance

- Ejection and witness marks on Class A
- Venting and gas traps
- Thin steel and sharp corners in the mould
- Shrink and warpage risk
- Parting line location and flash risk
- Tolerances and stack-up on critical dimensions
- Mating parts and joining method (snaps, screws and bosses, heat stakes, welding, adhesives, inserts): fit, clearances and assembly direction

Findings

Add rows as needed. Number findings in order and never reuse a number.

#	Feature or area (screens hot no.)	Issue	Rating (High, Medium, Low)	Recommendation	Customer response	Owner	Status	Date closed
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Summary

Rating	Total	Open	Closed
High			
Medium			
Low			

All High findings closed: ☐ Yes ☐ No

Ready for steel (all High closed, all others closed or accepted in writing): ☐ Yes ☐ No

Signoff

Reviewed by: _____ Date: _____

Customer approver: _____ Date: _____

Open items carried forward

Item	Owner	Due

Want help putting this to work? Call me. The first conversation is free.

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