Fastener Cost per Assembly

How-to guide: what the workbook does, how to use it and what every number means. mfgcalcs.com

Fastener Cost per Assembly

Cost the fasteners on every product from the pieces actually issued, with the extra consumed, its loss rate against your allowance, and the cost per assembly.

For: Cost and manufacturing engineers, production managers and buyers costing hardware on assembled products.

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Quick start

1. On Setup, type your company, currency and loss allowance, and list your products and your fasteners with their price per piece.
2. On Lines, give each fastener on each product a row: quantity per assembly, assemblies built, pieces issued and any fixed sourcing and handling.
3. Fix anything the Check column names.
4. Open the Dashboard: cost per assembly by product, and the fasteners losing more than the allowance.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Company, currency, the loss allowance, the products, and the fasteners with their price per piece.
Lines	One row per fastener on each product: quantity, builds, pieces issued and handling in; extra pieces, loss rate and cost per assembly out.
Dashboard	Fastener cost per assembly for every product, and the fasteners losing more than the allowance.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Standard and extra pieces	Per assembly x assemblies; pieces issued - standard.	pieces
Loss rate and status	Extra / standard pieces; Within limits up to the allowance, otherwise Out of limits.	%, -
Total, standard and extra cost	Pieces issued x price + fixed handling; standard x price; extra x price.	currency

Quantity	How it is calculated	Units
Cost per assembly	Total cost / assemblies, for each line and each product.	currency
Product and fastener totals	Sums over their lines; a product's assemblies are the largest build on its lines.	-

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Halvard Enclosures, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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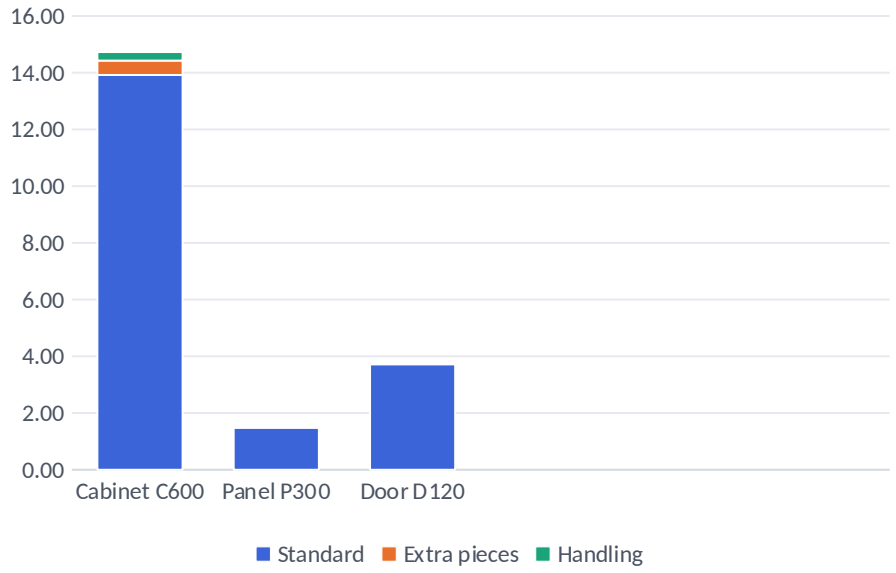
Fastener cost per assembly for every product, and the fasteners losing more than the allowance.

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Halvard Enclosures (example): 8 fastener lines on 3 products. Loss allowance 2.5%. Amounts in USD.

ASSEMBLIES	FASTENER COST	COST OF EXTRA PIECES	LINES OVER THE ALLOWANCE
750	**3,033**	**74**	**3**
All products	Pieces issued x price + handling	Issued above standard	Loss rate above the allowance

Fastener cost per assembly



Loss rate by fastener

