Pallet Weight

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

Pallet Weight

Work out every SKU's loaded pallet weight from its cases, packaging, pallet and wrap, against the weight limit of the lane it ships on, and the most cases that fit.

For: Packaging engineers, shipping and logistics coordinators and warehouse managers building pallet patterns and checking them against carrier and customer limits.

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Quick start

1. On Setup, list your pallet types with their deck weight and the weight limits you ship under.
2. On Pallets, give each SKU's pallet configuration a row: cases, product and packaging weight per case, pallet type, dunnage and wrap, and the limit.
3. Fix anything the Check column names.
4. Open the Dashboard: gross weight against limit for every pallet, what each weighs, and the most cases that fit.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Site, the near-limit threshold, the pallet types with their deck weight, and the weight limits you ship under.
Pallets	One row per SKU pallet configuration: cases, weights, pallet and limit in; gross weight, margin and status out.
Dashboard	Gross weight against limit for every pallet configuration, what each pallet weighs, and the most cases that fit.
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
Product weight	Cases x product per case.	lb
Packaging weight	Cases x packaging per case.	lb
Gross weight	Product + packaging + deck + dunnage and wrap.	lb
Tare and tare share	Packaging + deck + dunnage and wrap; tare / gross.	lb, %
Margin	Gross limit - gross weight.	lb

Quantity	How it is calculated	Units
Most cases at limit	(Gross limit - deck - dunnage) / (product + packaging per case), rounded down.	cases
Status	Over capacity above the limit; Near capacity from the threshold on Setup; Under capacity below it.	-

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 Harrowgate Foods, 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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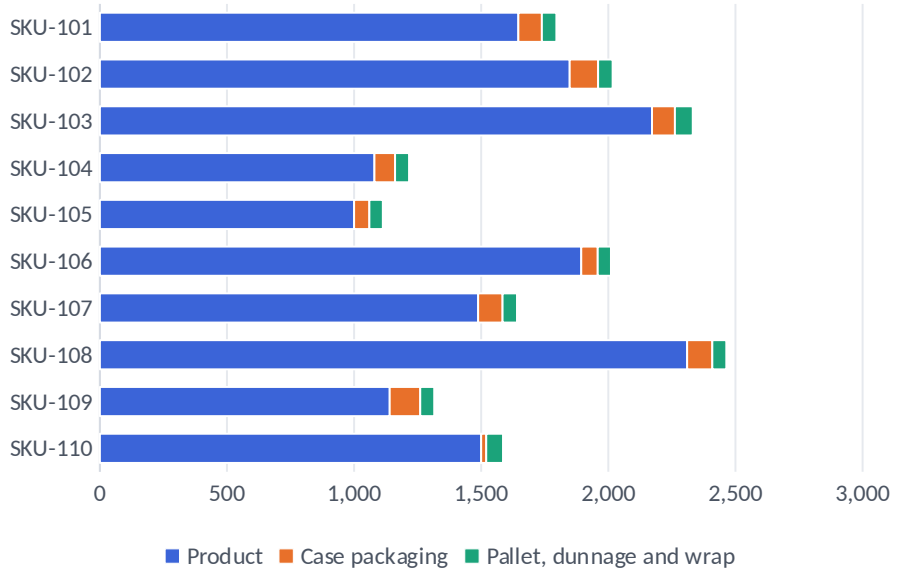
Gross weight against limit for every pallet configuration, what each pallet weighs, and the most cases that fit.

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Harrowgate Foods, distribution (example): 10 pallet configurations on 3 pallet types under 4 limits. Weights in lb.

PALLET CONFIGURATIONS	OVER THEIR LIMIT	SMALLEST MARGIN (LB)	TARE SHARE OF GROSS
10	**2**	**-132**	**8.1%**
Rows on Pallets	Gross above the limit	Negative = over the limit	Packaging, pallet and wrap

What each pallet weighs (lb)



Gross weight against limit (lb)

