Blast Media Consumption

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

Blast Media Consumption

Work out the fresh abrasive every blasting job needs after reclaim and separator losses, its cost, and which jobs use more per square foot than they should.

For: Blasting and coating supervisors, estimators and purchasing at blast and paint shops, fabricators and surface preparation contractors.

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Quick start

1. On Setup, type your shop and currency, and list your blast media with their price per pound and target fresh media per square foot.
2. On Jobs, give each blast job a row: media, area, effective coverage rate, media feed, recovery, separator yield and any initial charge.
3. Fix anything the Check column names.
4. Open the Dashboard: fresh media per square foot against target, where the circulated media went, and the cost.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Shop, currency, the near band, and the blast media with their price and target fresh use.
Jobs	One row per blast job: area, rates, recovery and charge in; fresh media, its cost and status out.
Dashboard	Fresh media per square foot against target for every job, where the circulated media went, and what it cost.
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
Active hours	Blast area / coverage rate.	h
Circulated	Media feed x 60 x active hours.	lb
Reused	Circulated x recovery x separator yield.	lb
Lost	Circulated - reused, never below 0.	lb

Quantity	How it is calculated	Units
Fresh media	Initial charge + lost.	lb
Fresh per sq ft	Fresh media / blast area.	lb/ft²
Media cost and cost per sq ft	Fresh media x price per lb; media cost / blast area.	currency
Status	On target at or below the media's target; Near target up to the near band over it; Above target beyond.	-

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 Halbrook Coatings, 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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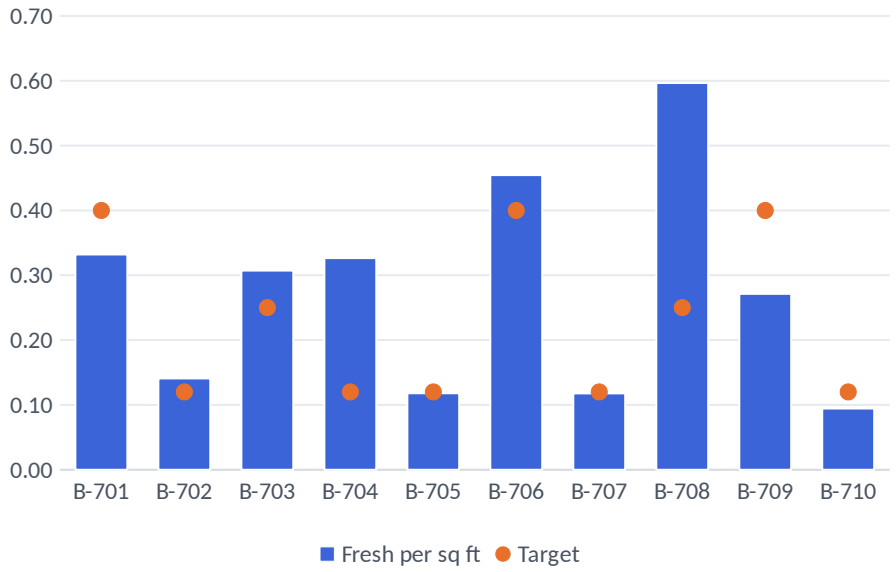
Fresh media per square foot against target for every job, where the circulated media went, and what it cost.

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Halbrook Coatings, blast room (example): 10 jobs, 65,000 ft² blasted with 3 media. Amounts in USD.

JOBS	FRESH MEDIA (LB)	FRESH MEDIA COST (USD)	JOBS ABOVE TARGET
10	14,563	7,302	3
Rows on Jobs	Initial charges + losses	Fresh media x price	Fresh per sq ft over the band

Fresh media per sq ft against target



Where the media went (lb)

