Construction Cost Trends: Costs and Project Insights

Before we get started....



Participants' audio is muted.

?

Post questions in the Questions panel on your GoToWebinar menu.



The webinar is being recorded and will be shared at the conclusion of the event.



Agenda

Where Are We and How Did We Get Here?

What the Data Says – current Material,
 Labor and Equipment trends

Actionable Insights

Enhanced Estimating Experience



Speakers



Sam GiffinDirector, Data Operations
Gordian



Michael Guckes
Senior Economist
ConstructConnect



Laura Cook

Director, Product Management –

Estimating

Gordian



In your opinion, what is the most significant challenge currently facing the construction industry?



Project Trends and Insights

Project Trends and Insights Overview

- Where are we and how did we get here?
- How can we use economics and data to inform us about construction costs yesterday, today and tomorrow?
- Operational inputs focus: 1.) Capital 2.) Labor 3.) Materials



If you don't know where you're going any road will get you there.

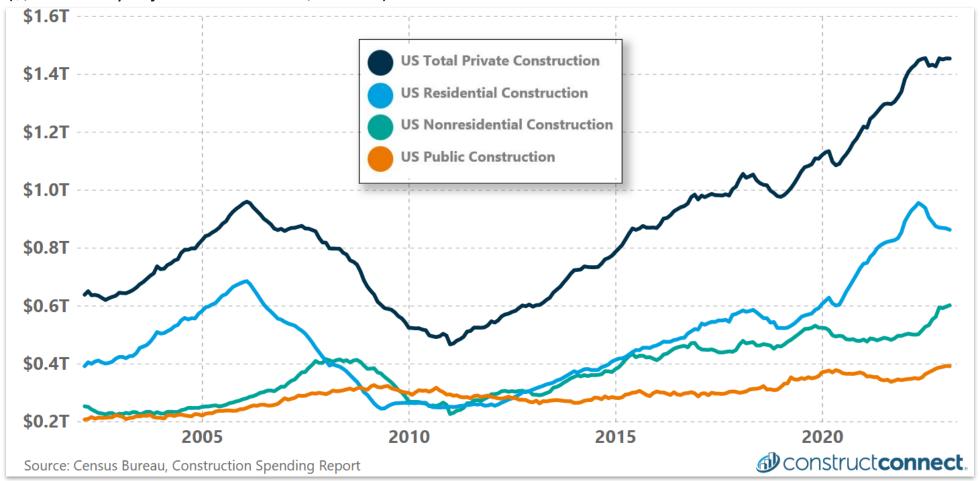
-Lewis Carroll



How Did We Get Here?

Construction spending by summary category

(\$, Seasonally adjusted annual rate, "SAAR")

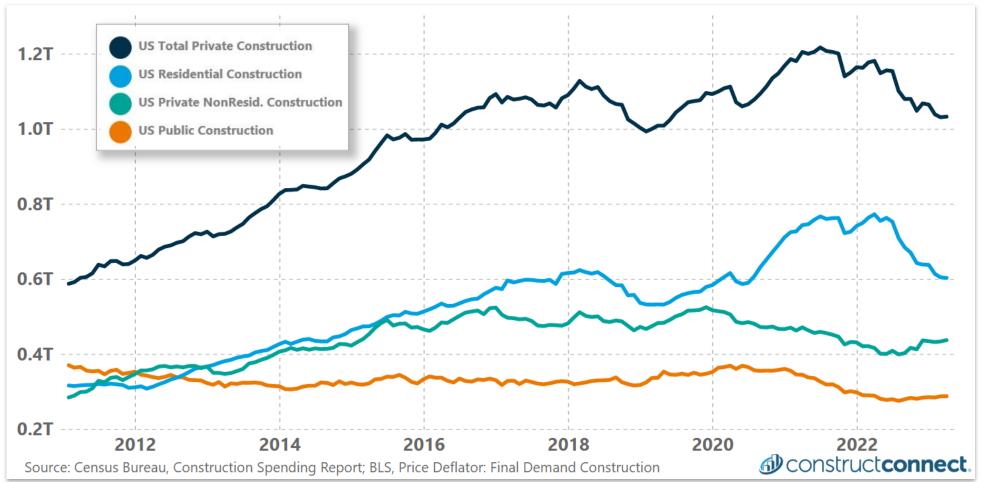




How Did We Get Here?

Real construction spending by summary category

(Inflation adjusted 2019 dollars, seasonally adjusted annual rate, "SAAR")

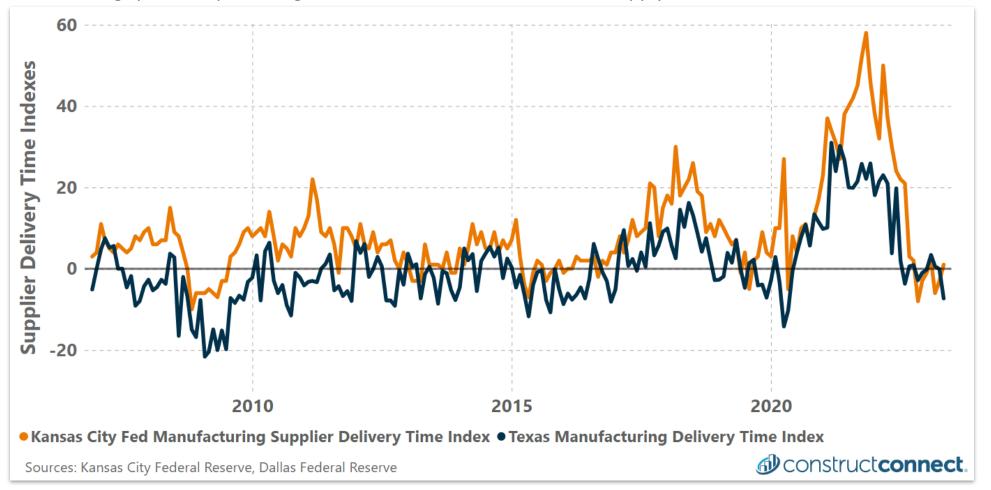




How Did We Get Here?

U.S. supplier delivery measures

2023 readings point to quickening deliveries and hence more slack in supply chains

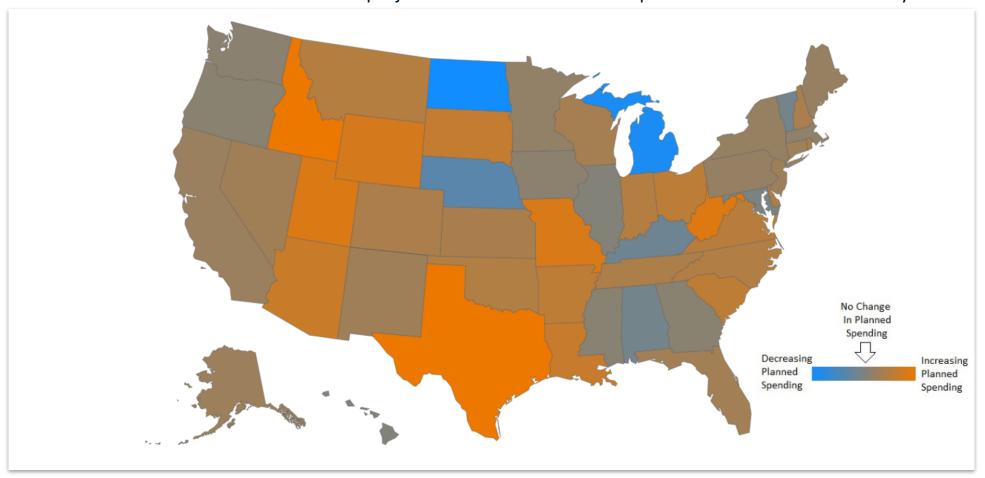




Geography Means More Than You Might Think

Expansion index, state level: June 2023 data release

Ratio of total dollar value of construction project in the latest month compared to the same month last year

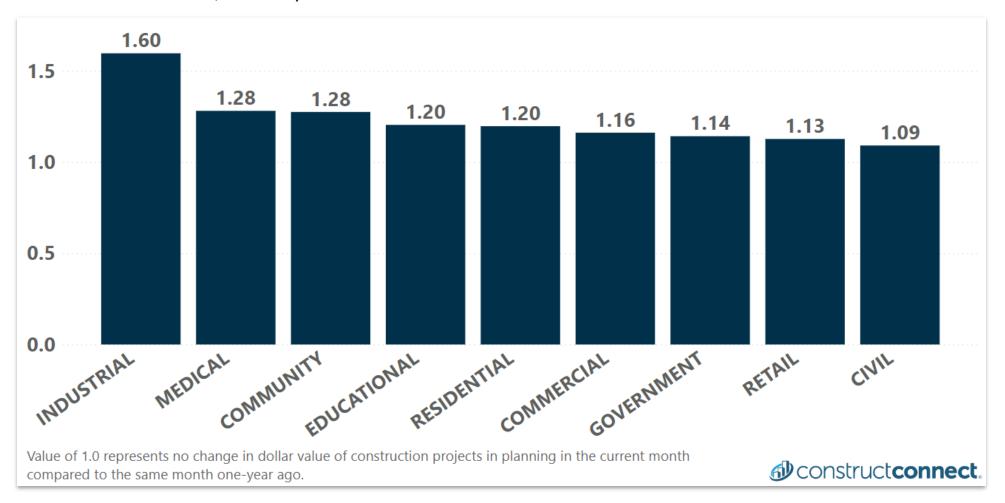




Having a Geography and Vertical Strategy is Critical

Average expansion reading by vertical

June 2023 data release, USA only

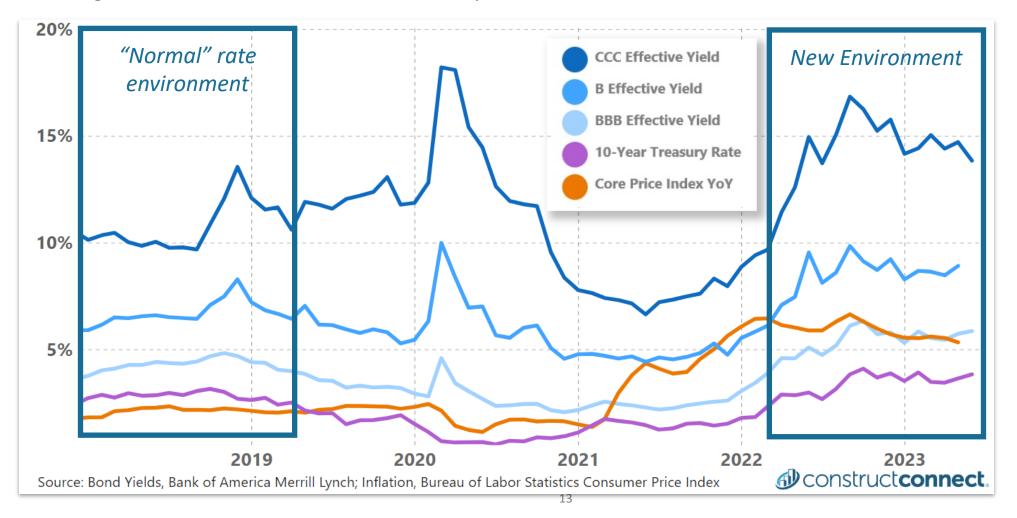




Cost Input #1: Capital

The "cost" of money is fundamentally driven by inflation rates

Borrowing at or below the rate of inflation is the exception, *not* the norm

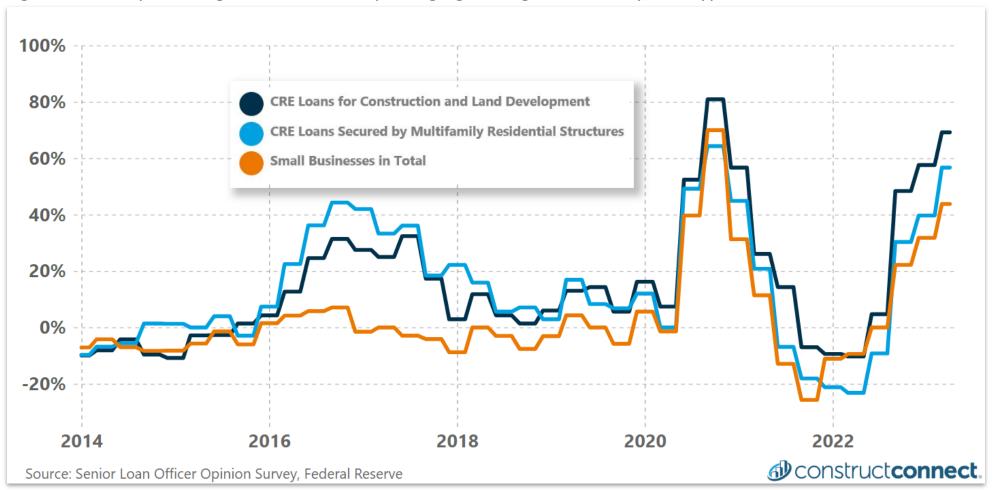




Cost Input #1: Capital

Banks have quickly tightened loan standards on developers since mid-2022

Figures are net percentage of U.S. banks reporting tightening standards by loan type





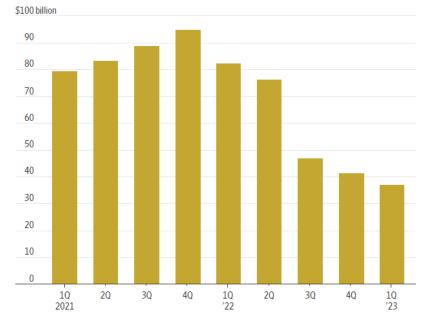
Cost Input #1: Capital

Alternative Avenues for Capital Exist For Construction

- Private Capital and Private Equity
 - There are more than 204 Construction and Engineering PC/PE firms (Axial.net)
- 2022 Collapse in tech firm valuations has left PE firms with cash but too few "traditional" places to deploy it.

Venture Investors Get Less Generous

U.S. venture capital deal activity by quarter

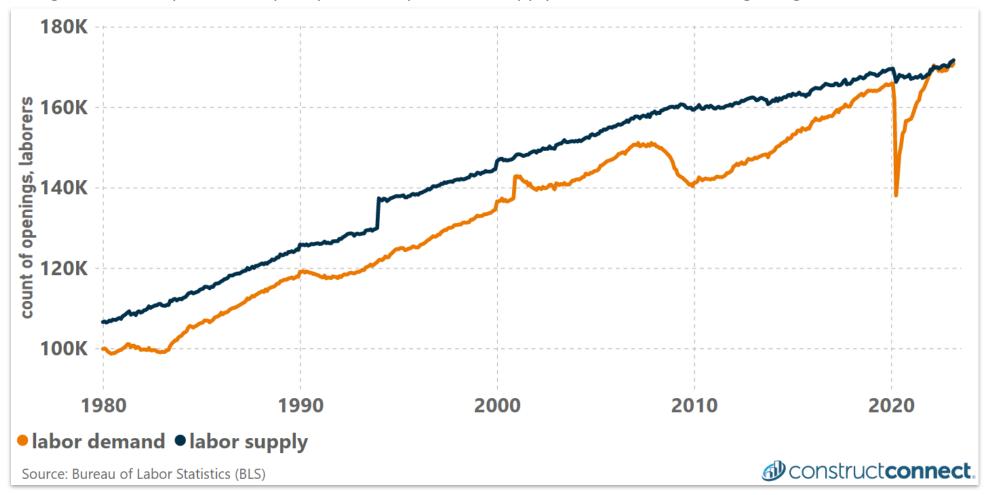


Source: The Q1 2023 PitchBook-NVCA Venture Monitor



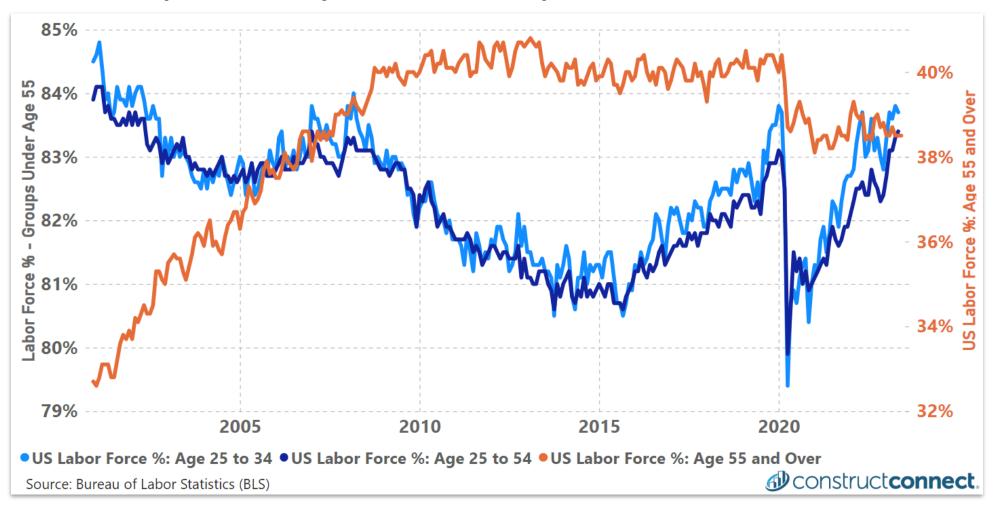
The balance of construction labor supply and demand has never been tighter

Rising demand coupled with a post-pandemic plateau in supply continues to send wages higher





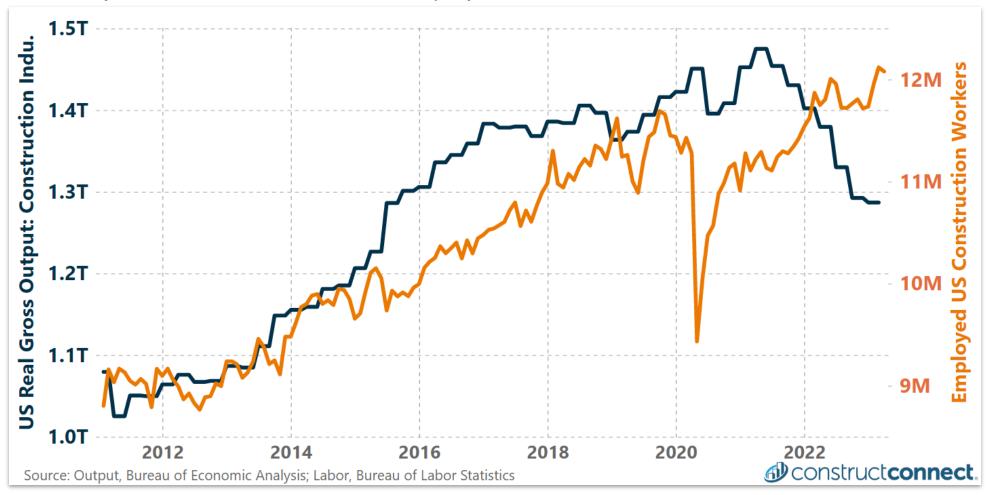
Has COVID permanently altered the shape of the labor force?





U.S. real construction output contrasts with labor levels

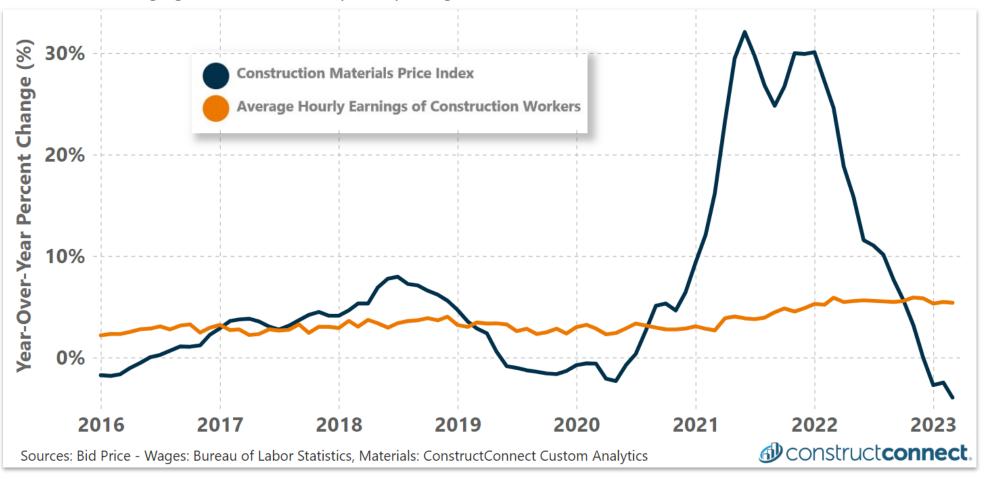
Inflation adjusted 2012 chained dollars, seasonally adjusted annual rate





Wage growth regains leading role as fastest rising construction cost

Latest annual wage growth of 5.4% outpaces pricing increases in construction materials

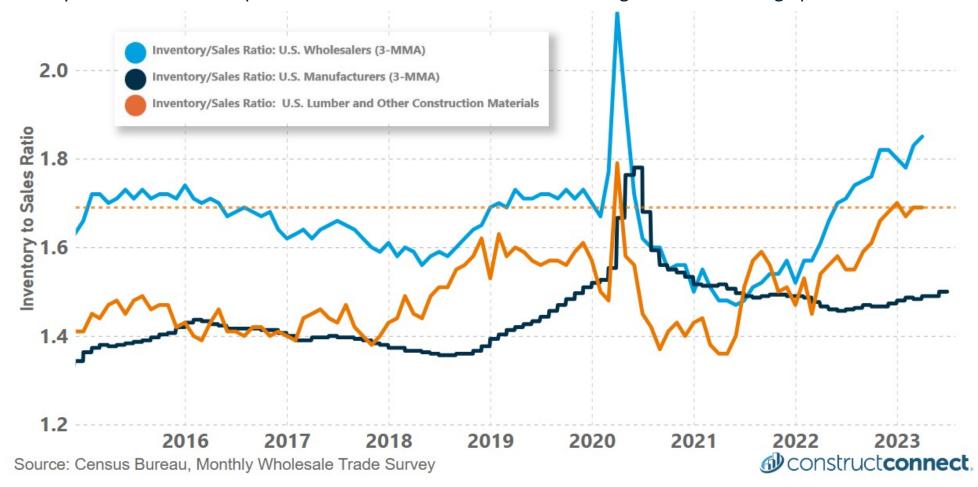




Inventory Is Moving From Asset to Risk

Inventory/sales ratios signal need for industry discipline

Industry must resist the temptation to sustain the lessons learned during COVID's hoarding episode





Supply Chains Have Overwhelmingly Recovered

Falling foreign product costs and ample global shipping capacity will benefit firms returning to JIT inventory practices







Foreign Markets Need A Buyer For Their Wares

Falling import prices and rising volumes will help curb greater U.S. inflation

Lower-cost imports will be good for contractors and owners while pressuring profits for domestic manufacturers





Real Transportation Costs Are at Multi-Year Lows





Actionable Insights From The Data

- Labor is the greater risk to your operational cost structure.
 - How do we control risk exposures to a structural problem like labor?
 - Architects using labor saving design
 - Using products/materials that are labor friendly
 - Take ownership of employee training success
 - Employers finding long-run incentives



Actionable Insights From The Data

- Don't be fooled by inflation, monitor the industry in real dollar & non-dollar terms.
- Geography and Verticals have a big impact on your prospects.
- Be open-minded about alternative avenues for capital.
- Labor is the greater risk to operational cost structure.
- Adapt your supply chain and inventory strategy to post-COVID trends.



Actionable Insights From The Data

- Your pre- and post-COVID supply chains need to be reconciled in 2023 and beyond.
 - Don't allow a few hard-to-get products to sway your entire supply chain & inventory strategy. Your pre- and post-COVID supply chains need to be reconciled in 2023 and beyond.
 - The best approach may be a hybrid utilizing multiple suppliers both domestically and internationally.
 - Expect falling international shipping costs to further heighten the competitiveness of imports.
- Expect a unique combination of international factors to affect your supply chain and costs.



How do you or your organization handle fluctuations in material prices during a construction project?



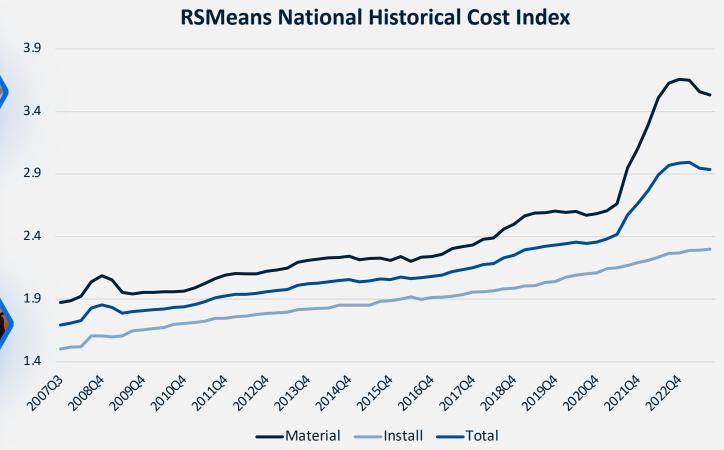
Cost Trends & Insights

Historical Pricing Trends

 Material cost increases drove dramatic escalation starting in 2021



 Install costs increasing through 2023Q3 sustaining high construction cost trends





Lumber Cost Trends





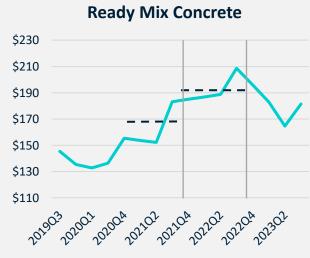
Steel Cost Trends

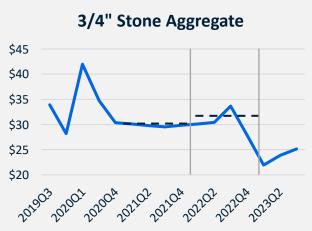


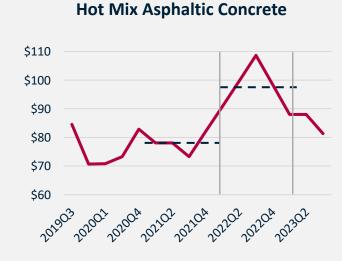


Concrete & Masonry Cost Trends







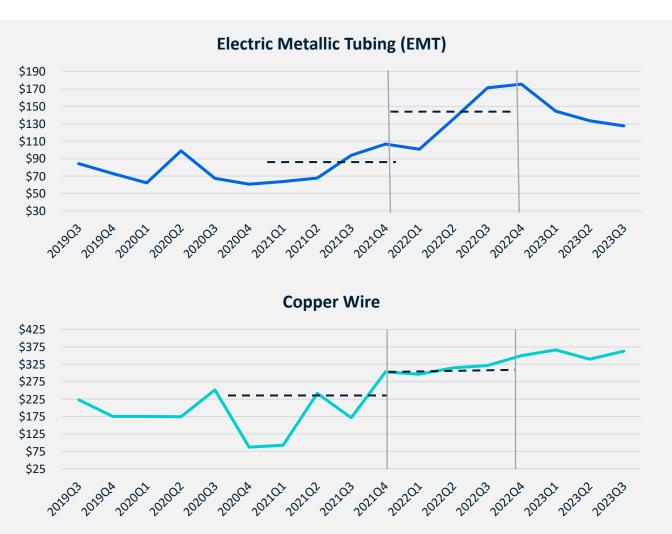






Conduit/Electrical Trends



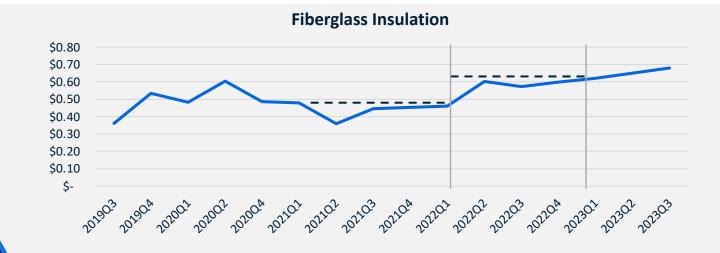


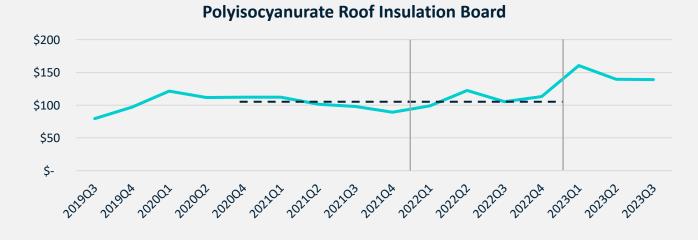


Insulation Materials Cost Trends

 Insulation costs primed for continued increase into 2024

 Input prices for insulation materials (mineral wool) continued steady growth from 22Q2 to 23Q2



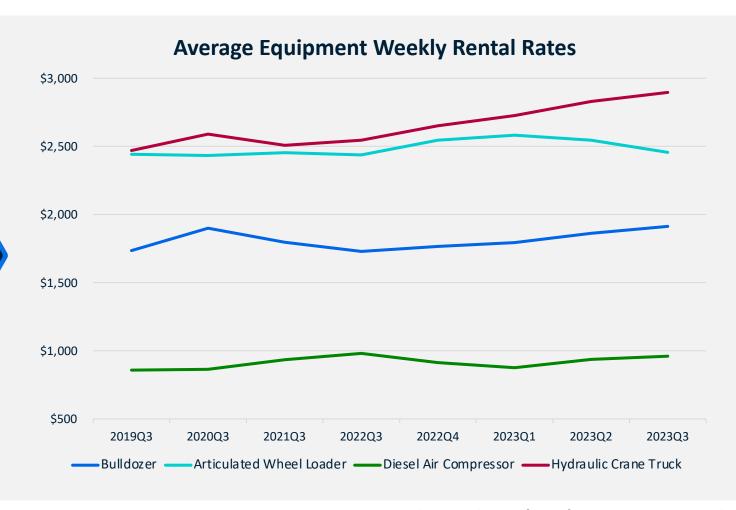




Equipment Cost Trends

 After several years of relative stability, equipment rental rate fluctuations emerge

 Wheel loaders decreased an average 5% from peaks in 2022Q4 to 2023Q3.

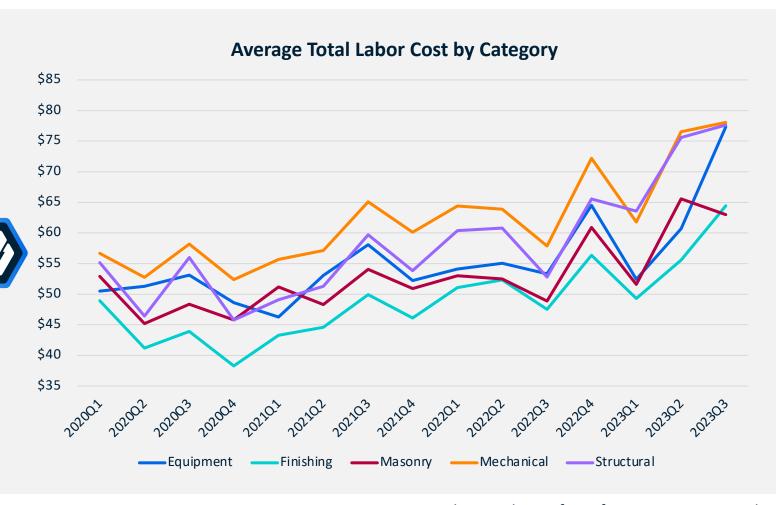




Labor Cost Trends

 2022H2, 2023H1 wage increases correspond with labor shortages highlighted in all trades

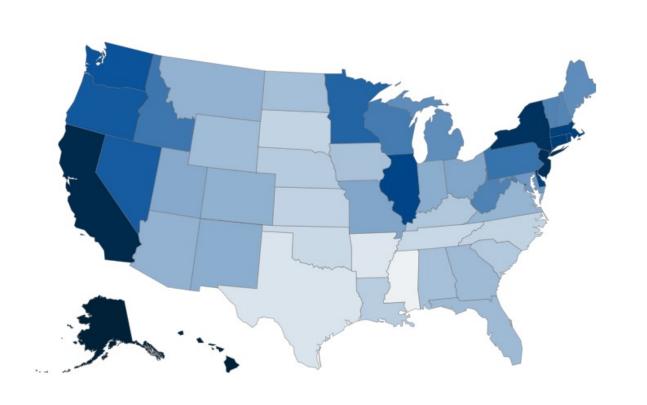
Increases forecasted to continue until skilled labor availability increases

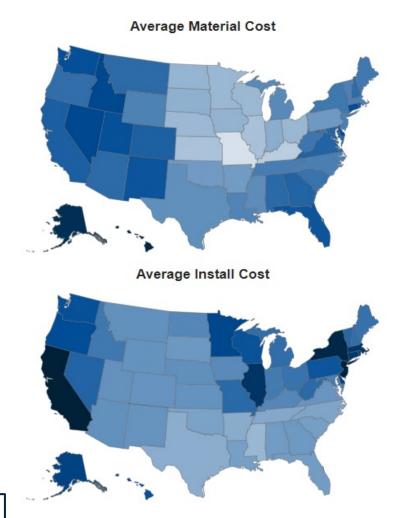




Regional Cost Variations, 2023Q2

Average Total Construction Cost









Actionable Insights From The Data



Reliable, dynamic data allows faster decision making and enables more people to make them



Enhanced Estimating Experience

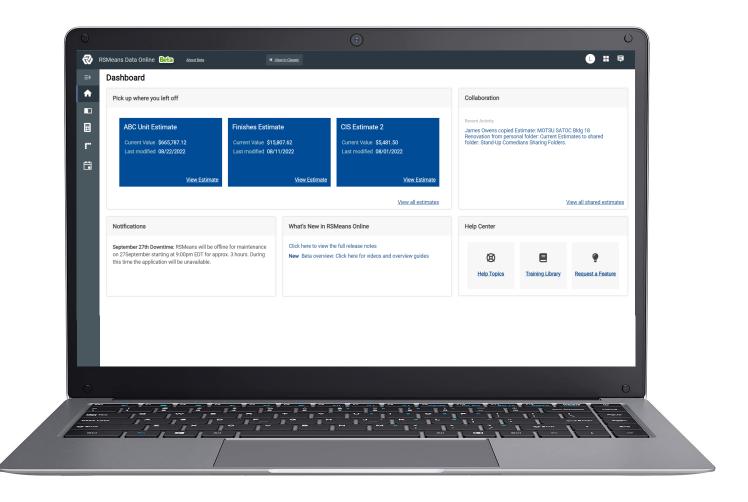
Updated RSMeans Data Online

Refreshed look and feel

Quick access to what's important

More screen "real estate" for viewing catalogs and estimates

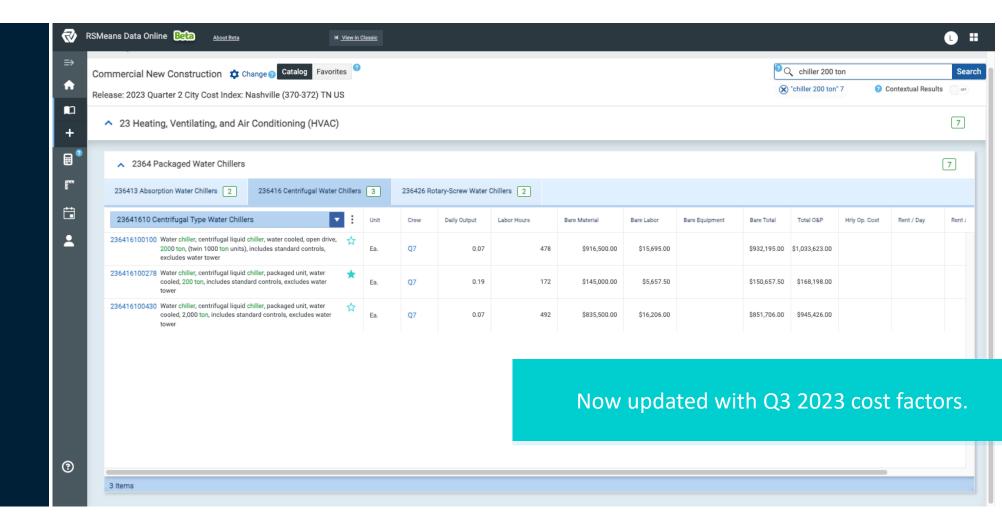
Available now in Beta for *Core* tier and select *Complete* tier subscribers





Search or Browse Cost Catalogs

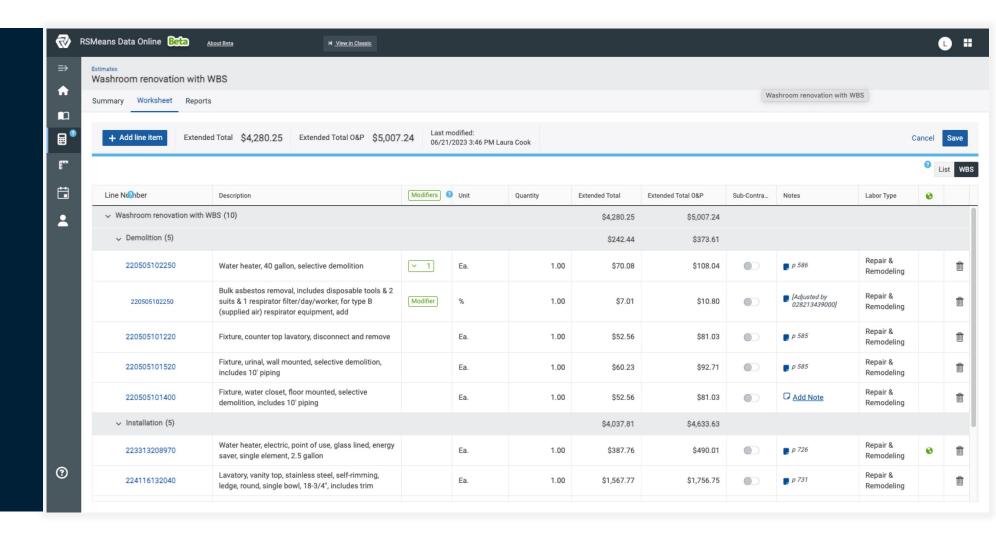
- Maximized catalog viewing
- Easily browse the hierarchy
- Matching search terms highlighted
- View search results in context of nearby items
- Adjustable columns





Working with an Estimate

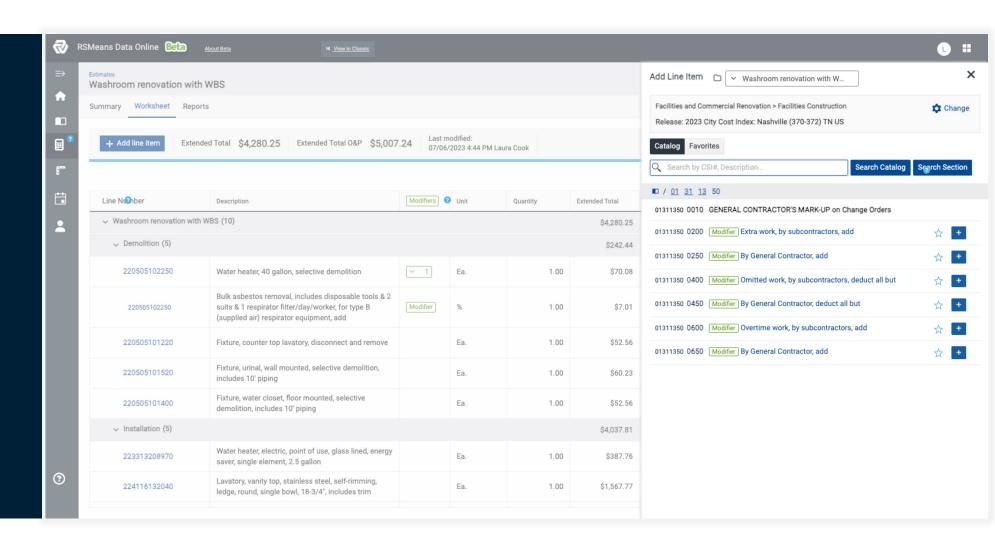
- Estimate name and cost totals are always visible
- Total Estimate costs refresh as you edit
- Easily identify modifiers and see factors applied
- Organize items in Work Breakdown Structure folders and order them





Find and Add Line Items

- Search or browse for items without obscuring Estimate
- Search for items across an entire catalog or in a specific section
- Easily view and add Favorited items to your Estimate

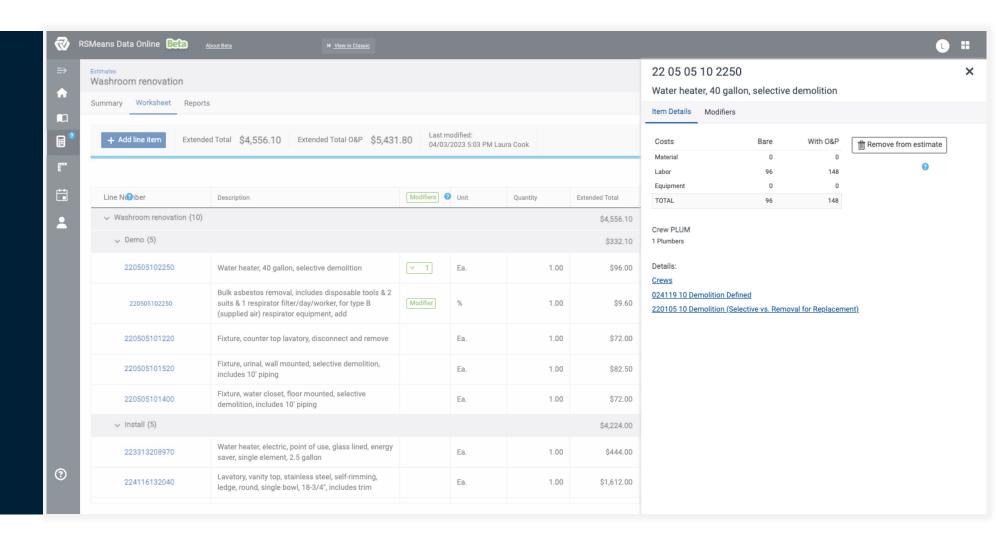




Understand Line Item Details

Details for each item include:

- Cost breakdown by category
- Full Crew definition and Crew links

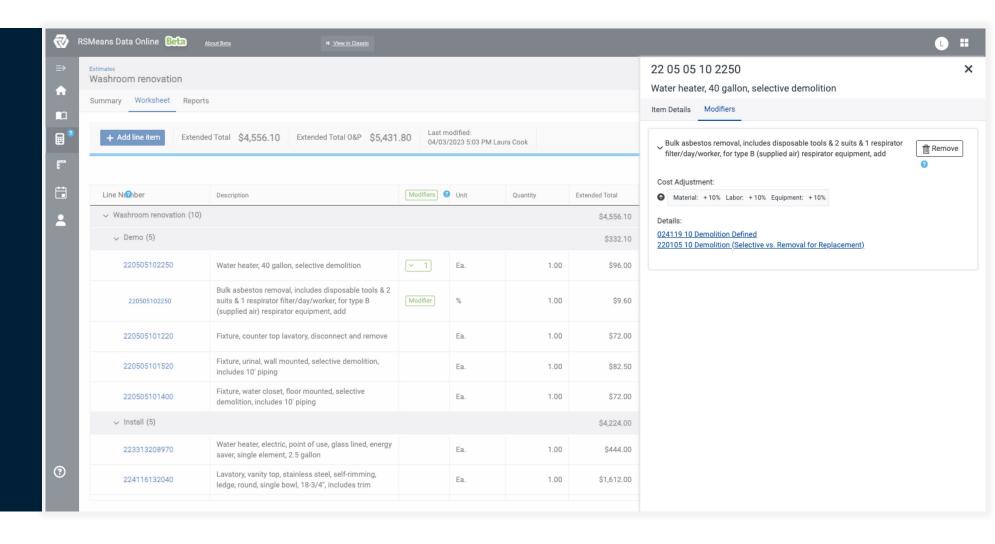




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- Modifier details and related links

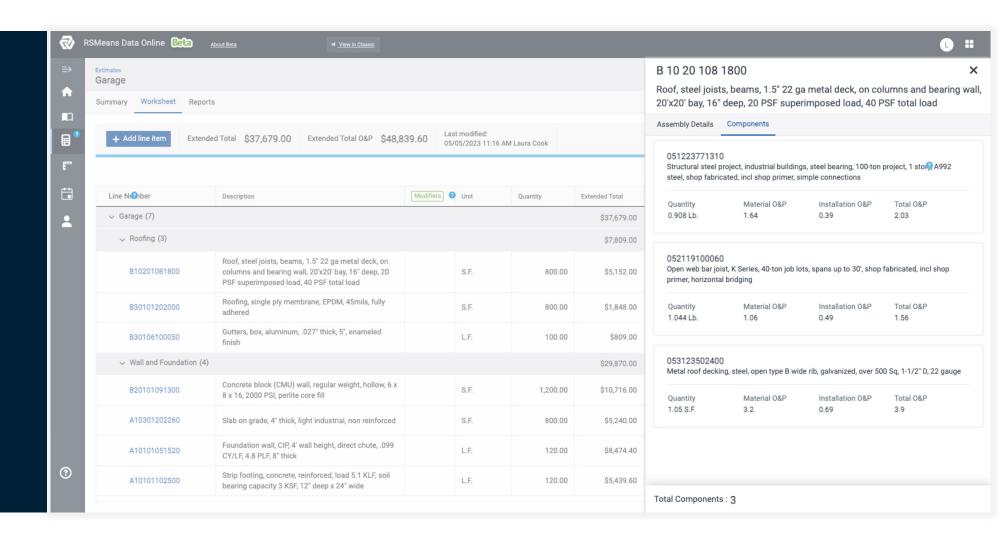




Understand Line Item Details

Details for each item include:

- Cost breakdown by category
- Full Crew definition and Crew links
- Modifier details and related links
- Unit lines within an assembly





Accessing Beta

RSMeans data

Search Data

Search

UNIFORMAT II

A Substructure

B Shell

C Interiors D Services

from GORDIAN

Manage Estimates

Commercial New Construction

What are you searching for?

Select the "Try RSMeans Beta" button in the header of any page.

D3030 Cooling Generating Systems

Assembly Number

D30301101180

D30301101200

D30301101240

Life Cycle Cost

Labor Type Open Shop

0

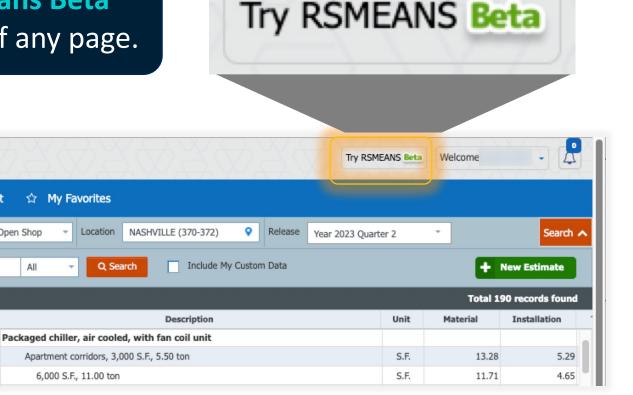
☆ My Favorites

6,000 S.F., 11.00 ton

Location

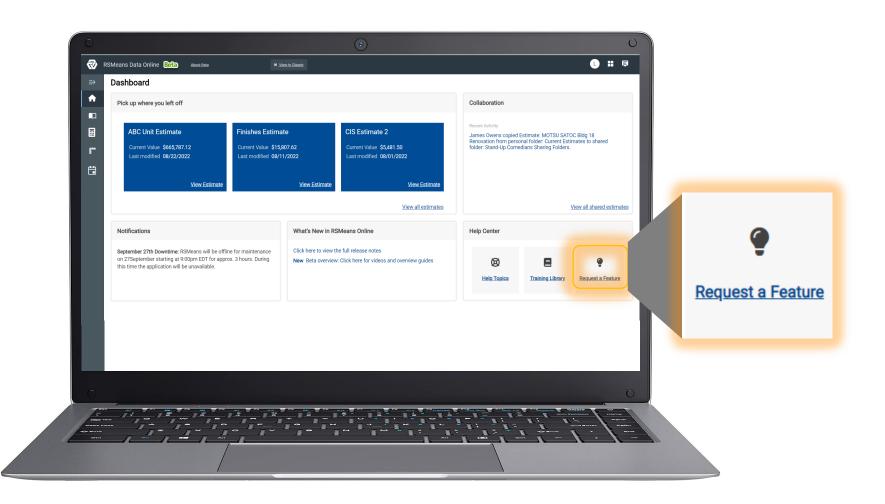
Q Search

Square Foot Estimator





We Value Your Feedback



Quickly send your comments or suggestions.



Coming to the Gordian Cloud Platform

Easy access to a wide range of cost data and tools for estimating, as well as facility assessment, capital planning and procurement

Coming in 2024









A Note About Canada

Canada has the resources the world needs now more than ever.

- Russia's top-10 exports, worth \$300B, are all within Canada's top-12.
 - 15% potential boost to GDP

Top 7 Products Exported from Canada	Export Value in 2022 (USD \$)
Mineral Fuels, oils, and products	\$180B
Vehicles other than railway, tramway, rolling stock	\$50B
Nuclear Reactors, boilers, machinery, appliances	\$38B
Precious Metals and Stones	\$24B
Commodities, other	\$22B
Wood and articles of wood	\$20B
Plastics and articles thereof	\$17B

