



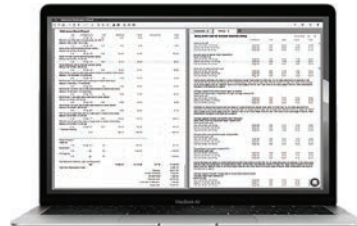
2023 NATIONAL RENOVATION & INSURANCE REPAIR ESTIMATOR

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Edited by Jonathan Russell
28th Edition



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about this book

WHAT'S NEW IN 2023

Supply chain shortages continue to plague the industry, although not so keenly as in 2021 and 2022. Labor shortages haven't been so easy to resolve with even unskilled laborers hard to find and keep. Skilled construction professionals are quitting and going elsewhere in record numbers, putting intense pressure on construction companies and threatening bottom lines.

A TOOL

This book is a tool, and like all tools it can be misused. It is an excellent tool for the renovation and repair professional. It is not a substitute for experience, skill, and knowledge.

Prices in this book are based on research of actual jobs and successful estimates. They represent an average of the typical conditions. Estimators should compare the conditions described in this book with actual conditions on site and adjust the price accordingly.

UNIQUE TO RENOVATION AND REPAIR WORK

This book is compiled specifically for the unique problems and conditions found in renovation and repair work. It is not a new construction cost book.

Renovation and repair work involve completely different circumstances than those found in new construction.

For example, the renovation or repair professional must work around existing conditions including home contents, access problems, out-of-

plumb or out-of-square buildings, outdated materials, existing conditions that violate current building codes.

New-construction professionals have the luxury of placing items in a logical order, but renovation, remodel, or repair professionals must deal with conditions as they find them.

This means that joists have to be replaced in an existing floor system, paint has to be applied in a room where stain-grade base and carpeting are already installed, structures may have to be braced, contents have to be moved or worked around and materials and installation techniques must be matched.

DETERMINING COSTS

All costs in this book are based on typical conditions and typical problems found when remodeling or repairing a structure.

This means a door takes 10 to 15 minutes longer to install than it would in the ideal circumstances found in new construction.

Stairs are more difficult to install around pre-existing walls, wall framing takes longer when walls are typically splicing into existing work, and so on.

Some prices in this book will very closely match prices used in new construction. Other prices will reflect the complex conditions found in renovation and repair and will be dramatically different.

For example, using this book's stair building prices to estimate stair work in a series of 150 tract homes will result in an estimate that is far too high.

THE ART OF ESTIMATING

Estimating is part art, part science. Estimators must consider many factors, including access, crew productivity, special techniques, special abilities, temperament of the owner, and how busy the company is.

A contractor who is desperate for work will estimate much lower than a contractor who is swamped with work.

All of these factors — and many other similar ones — cannot be included in this or any other price book. They are part of the art of estimating.

The science of estimating, which includes prices, typical techniques, and materials, is included in this book.

This book is designed to make the science of estimating easier, which allows you to spend much more time focusing on the art of estimating, where your skill is crucial to the success of your company.

GENERAL VS. SPECIFIC

It is important to note that the more specific the estimator is, the more accurate the final estimate will be.

For example, when an estimator calculates all electrical costs for a typical home using a square foot cost, it may not be as accurate as if the estimator priced each fixture, outlet, and appliance hook-up.

Since the square foot price is based on a typical installation, it will not be exact for a home that is atypical in any way — for example, one with special outdoor lighting or with an expensive crystal fixture in the entry.

The more specific the item, the more exact the prices. The more general an item, the more assumptions must be made.

To help ensure the accuracy of your estimates, we describe any assumptions made when determining general items.

For example, the Rough Carpentry chapter contains a square foot price for estimating 2" by 4" wall framing. To help you make sure that this price will work for you, we describe our assumptions: the stud centers, the number of openings, headers, corners, plates and so forth, that would typically be found in a wall.

rounding

This book rounds hourly wage rates and the material, labor, and equipment components of a unit price.

These prices are rounded to "three significant digits." This means that prices under three digits (including two to the right of the decimal) are not rounded. Prices four digits and larger are rounded to the third digit from the left.

For example:

.23 is not rounded
 2.33 is not rounded
 23.33 is rounded to 23.30
 233.33 is rounded to 233.00
 2,333.33 is rounded to 2,330.00
 23,333.33 is rounded to 23,300.00

In most cases, the square foot price will apply, but you will always want to carefully consider items that are more general, and if needed, adjust them to fit the conditions.

In the case above, the estimator may want to use the square foot price for average fixtures, then add an allowance for the crystal fixture and the outdoor lighting.

TIME AND MATERIAL CHARTS

Almost all chapters include time and material charts at the end. These time and material charts are designed to show you the materials used, waste, labor rates, labor burden costs, and labor productivity.

When materials with a range of sizes appear, only the small and large size are usually listed.

When materials with a range of qualities appear, only the low and high prices are usually listed.

These charts are designed to give you accurate detail on the exact prices used. When prices change, this book does not become obsolete. Compare current prices with those used and factor accordingly.

MATERIAL COSTS

National average material costs are compiled from surveys of suppliers throughout the country.

Costs for some materials, such as clay tile, building stone and hardwood, will vary a great deal from region to region.

For example, clay tile plants are located near naturally occurring clay sources. Because clay tiles are heavy, the further the tiles have to be shipped, the more expensive the tiles will be. The user of this book must be aware of local price variations.

Materials commonly found in every city are priced based on local delivery. In most cases this will be delivery no greater than 20 miles away from a local source. However, many rural areas have lumber yards that will deliver to a wider area at no additional charge.

Materials that are not commonly available locally, like hand-carved moldings or historical wallpaper, include shipping costs anywhere in North America. Estimators in Hawaii, Alaska and remote areas of Canada should add for additional shipping costs when applicable.

Material waste is often indicated with the items, but it's always a good idea to check the time and material charts for the exact waste calculated for all the components of an item.

Waste indicates material that is discarded during installation. It does not include waste that occurs when materials are taken to storage and ruined, run over at the job site, spilled, improperly cut, or damaged due to mishandling.

These types of occurrences are kept to a minimum by every good contractor, but will still occur on any job site.

Another common waste issue in renovation and repair is when a contractor must buy a minimum quantity for a small repair. For example, to replace a six-inch section of base, it is necessary to buy a piece of base that is eight-feet long or longer. In these cases, use the minimum price.

Material prices may not be listed with the time and material charts in some chapters. In these chapters, little new information would be provided by the materials chart so the space is saved for other information.

For example, a materials chart in the Appliance chapter will not provide an estimator with any new information.

The materials component of the unit price for an oven as listed in the main body of the chapter will tell the estimator how much the oven and connections cost.

Relisting these appliances in a materials chart wastes valuable space.

LABOR COSTS

Labor costs are national average rates that usually are consistent with union labor wages.

See the time and material charts for specific benefit costs and labor rates.

Crew labor rates are an average hourly rate for each member of the crew. For example, a masonry crew might consist of a mason, a mason's helper, and a hod carrier.

The hourly rate for this crew is the average cost of all three. In other words, the hourly rate is for 20 minutes work by the mason, 20 minutes work by the mason's helper, and 20 minutes work by the hod carrier.

Separation of labor in renovation and insurance repair work is much more difficult than is separation of labor on large commercial construction projects.

On a typical repair or renovation job a carpenter may participate in demolition, frame walls, set doors, set toilets, install electrical outlets and fixtures, and do a little painting.

In the jobs analyzed for this cost book, well over 40 percent of the demolition work was done by skilled workers. This is because demolition is often selective, requiring a skilled worker to ensure that additional damage does not occur.

Many renovation and repair companies are relatively small, so skilled workers participate in all phases of construction.

These realities are reflected in the labor costs used in this book. This means that a demolition laborer's hourly rate may seem higher than is normal for an unskilled worker.

The time and material charts show all items that are built into each labor rate.

Some contractors may not provide health insurance or retirement plans to some or all of their workers. Estimators can "back-out" these expenses from the labor costs.

It is critical that estimators examine the Workers' Compensation costs calculated in the wage rates. Some states have Workers' Compensation rates that are double, triple, or even quadruple the national average rates used in this book.

Workers' Compensation rates should be adjusted to match local conditions.

Labor productivity is based on observation of work performed in renovation and repair conditions.

These conditions differ from new construction in many ways, but a few of the most common are:

① difficulty matching existing work, ② access problems, ③ materials that must be more carefully shaped and attached than is typical in new construction, ④ out-of-plumb or out-of-square structures, ⑤ reinforcing, ⑥ more trips and effort are required to find materials, ⑦ much more travel time is required because most jobs will have a relatively small amount of work in some trades, ⑧ more vehicles are required by the renovation or repair contractor because many tradespeople are often traveling between jobs, compared to new construction where crews may spend weeks or months on one job, and because crews tend to be smaller and each crew may need a vehicle, ⑨ more unexpected problems, ⑩ more restrictions in established neighborhoods.

Labor productivity is based on a clean job site where tools are put away and secured at the end of each day.

Depending on the trade, 20 to 30 minutes per eight hours is allowed for clean-up and putting away tools. Normally, skilled workers spend half as much time cleaning up as do unskilled workers.

As is typical in new construction, labor includes unpacking materials, in some cases unloading materials from a truck on site, some travel to pick up minor materials (e.g. a forgotten tube of caulk, or a forgotten tool), typical breaks, lay-out, planning, discussion, coordination, mobilization (many companies meet at a central location each morning to receive instructions), recording hours (including specific information needed for job costing), occasional correction of mistakes in installation, and so forth.

Supervision is not included in these costs but should not generally be required. This is because each crew includes a skilled tradesperson who normally would not require supervision beyond the normal dispatch and mobilization discussed previously.

EQUIPMENT COSTS

Equipment costs are included only when equipment will be used that is not typically a part of the tools used by the majority of renovation or repair contractors.

For example, each carpenter should have a worm-drive saw, miter box, compressor, nail guns, and so forth. These types of tools are not included in the equipment costs.

However, equipment like cranes, backhoes, concrete saws, and jack hammers are not assumed to be part of the equipment and tools owned by a typical renovation or repair contractor. When these are needed, equipment rates are included in the unit price.

Equipment costs include the typical cost to rent the equipment from a local equipment rental shop. When applicable, they also include fuel or blade costs.

Check each item to determine if it includes delivery to the job site or operator labor. Also be careful to note minimum costs for work where rented equipment is needed.

MARKUP

Prices in this book do not include markup. Insurance repair markup is almost always 20 percent: 10 percent for overhead and 10 percent for profit.

In renovation work on historical structures, markup may be as high as 30 percent, although markup over 20 percent may be "hidden" inside the unit cost. Typical remodeling work markup varies from 15 percent to 25 percent. The most common markup for all types of work is 20 percent.

THE COST LINES

The cost tables in each section of this manual consist of individual tasks or items followed by a description. Beneath the description is a list of the items to be replaced or removed. For instance, under Appliances on page 17, you'll see Electric range, followed by a list of different ranges. Looking across, you'll see five columns of numbers and symbols. Let me explain how to read the numbers and symbols in those columns.

First let's look at the column headed Craft@Hrs. The Craft@Hrs column shows the recommended crew and manhours per unit for installation. For example, 2A in the Craft@Hrs column means that we recommend a crew of one appliance installer. The crew composition, with the cost per hour, is listed on page 12.

The manhours (following the @ symbol) is our estimate of the crew time required for installation (or demolition) of each unit. Manhours are listed in hundredths of an hour rather than minutes because it's easier to add, subtract, multiply and divide hundredths of a unit. For example, if the Craft@Hrs column shows 2A@1.05, the Labor Cost column will show \$73.60. That's the labor cost per unit for a crew of one appliance installer at \$70.10 per hour multiplied by 1.05 manhours, rounded to the nearest penny. The unit is listed right after the Craft@Hrs, and may be the cost per square foot (sf), linear foot (lf), each (ea), or another unit of measurement.

The crew costs include the basic wage, taxable fringe benefits (vacation pay), Workers' Compensation insurance, liability insurance, taxes (state and federal unemployment, Social Security and Medicare), and typical nontaxable fringe benefits such as medical insurance and retirement. A breakdown of these expenses is included as a percentage in the footnote beneath the Labor table at the end of each section.

If your hourly crew cost is much lower or much higher, adjust your totals. For example, if your hourly labor cost is 25 percent less, reduce the hourly labor cost by 25 percent to find your local cost. Using *National Estimator Cloud*, it's easy to make this adjustment when pasting costs into your estimate. Change the hourly labor cost just once for any crew. That hourly rate will apply to that crew throughout your estimate.

The Material column shows your material cost for the item described under the heading.

The Total column is the sum of the Material and Labor cost columns.

CHARTS

Material charts show the material description, the material cost priced per typical unit purchased, the gross coverage, the typical waste, the net coverage after waste has been subtracted, and the resulting materials price including waste and often converted to a different unit of measure.

Equipment charts show the cost to rent equipment, the amount of work that can be done with the equipment per a period of time, and the resulting unit price.

Labor charts show the base wage, then add all additional costs that are based on wage. More information is always listed below this chart. It's important to note the "True" wage before adding labor related expenses. The true wage is the wage rate plus an allowance for vacation time. Since all the other costs must be paid even when an employee is on vacation, it is important that they become a component in the cost calculations when estimating work.

Labor productivity charts show the description of the work, the laborer or

crew who will do the work, the average cost per man hour, the productivity and the resulting cost per unit.

REGIONAL DIFFERENCES

Construction techniques vary from region to region. Different climates and different local customs provide a variety of unique regional methods.

For example, in southern Florida it is common to build the first floor of a home from concrete block capped with a grade beam. This method won't be found in Colorado.

Similarly, coral stone walls won't be commonly found in Denver, although they are widely used in Miami.

Slate roofs are common on historical homes and newer custom homes in Philadelphia but are virtually nonexistent in Rapid City.

Homes in the south often include screened porches which aren't nearly so common in the west.

A Georgia home is much more likely to include a series of architecturally-correct columns with Corinthian capitals than is a home in Minnesota.

A Hawaii home may be built entirely from treated wood, when an Arizona home only uses treated lumber when it contacts dirt or concrete.

Many regional materials and techniques are priced in this book. Keep in mind that you should not use these prices if the item is not common to your area.

NATIONAL ESTIMATOR CLOUD

National Estimator Cloud has all the estimates in this book but with important advantages. *National Estimator Cloud* makes it easy to copy and paste these costs into an estimate. Add whatever markup you select. When done, convert that esti-

mate into a bid in either Postscript (PDF), Word (RTF) or Excel format. Bids can show or hide whatever you want. For example, hide your markup by distributing OH&P proportionately throughout the estimate. Or, show only total costs – no breakdown of labor and materials. When it's time to invoice for work completed, *National Estimator Cloud* does progress invoices. Bill for just work completed during the pay period. *National Estimator Cloud* keeps track of what's been billed and what hasn't. Invoices can be in Excel format – or export to QuickBooks Online or QuickBooks Desktop. Material prices in *National Estimator Cloud* are revised on the Web as prices change. That's why prices in the *National Estimator Cloud* version of this manual may not be the same as prices in this book.

For a short video showing *National Estimator Cloud* in action, go to:

<https://craftsman-book.com/support/tutorials/>

If you have a question when using *National Estimator Cloud*, Craftsman's support team will be glad to help. To connect, click the circular smiling tab at the lower right corner of the cost-book window.

WE WANT TO HEAR FROM YOU

If you have questions or concerns about this cost book, let us hear from you. Send letters to:

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abbreviations

ABSAcrylonitrile butadiene styrene	lflineal foot	SBSstyrene butyl styrene
acalternating current	lilineal inch	sfsquare foot
bfboard foot	mone thousand	shsheet
BtuBritish thermal units	mbf1,000 board feet	sisquare inch
CECCalifornia Earthquake Code	mBtu1,000 British thermal units	sq100 square feet
.....(also see page 56)	mhman hour	ststep
cfcubic foot	mimile	sysquare yard
cfmcubic foot per minute	mlf1,000 linear feet	t&gtongue-&-groove edge
cicubic inch	mmmillimeter(s)	TVtelevision
cycubic yard	momonth	UBCUniform Building Code
eaeach	mphmiles per hour	ULUnderwriters' Laboratory
FUTAFederal Unemployment	msf1,000 square feet	vlfvertical linear foot
.....Compensation Act tax	no.number	wkweek
galgallon	ocon center	w/with
GFCI ..ground fault circuit interrupter	ozounce	xby or times
gphgallon(s) per hour	prpair	
gpmgallon(s) per minute	psipounds per square inch	SYMBOLS
hphorsepower	PVCpolyvinyl chloride	/.....per
hr(s)hour(s)	qtquart	-.....through or to
IMCintermediate metal conduit	R/Lrandom length(s)	@.....at
kdkiln dried	R/W/Lrandom widths and lengths	%.....percent
<b(kv)< b="">.....kilovolt(s)</b(kv)<>	RSCrigid steel conduit	\$.....U.S. dollars
kva1,000 volt amps	S1S2Esurfaced 1 side, 2 edges	'.....feet
kwkilowatt(s)	S2Ssurfaced 2 sides	".....inches
lb(s)pound(s)	S4Ssurfaced 4 sides	#.....pound or number

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Sheldon.....-1%		Greenville.....-4%		Poughkeepsie.....1%
Shenandoah.....-12%	MARYLAND3%	Greenwood.....-2%	NEW HAMPSHIRE2%	Queens.....16%
Sioux City.....0%	Annapolis.....9%	Gulfport.....1%	Charlestown.....-4%	Rochester.....1%
Spencer.....-3%	Baltimore.....6%	Jackson.....3%	Concord.....1%	Rockaway.....9%
Waterloo.....-4%	Bethesda.....13%	Laurel.....1%	Dover.....10%	Rome.....-4%
	Church Hill.....-3%	McComb.....-4%	Lebanon.....-2%	Staten Island.....9%
KANSAS-7%	Cumberland.....-9%	Meridian.....-1%	Littleton.....-6%	Stewart.....12%
Colby.....-5%	Elkton.....4%	Tupelo.....-2%	Manchester.....7%	Syracuse.....2%
Concordia.....-15%	Frederick.....5%		New Boston.....11%	Tonawanda.....-2%
Dodge City.....-7%	Laurel.....8%	MISSOURI-4%		Utica.....-5%
Emporia.....-11%	Salisbury.....-6%	Cape Girardeau.....-5%	NEW JERSEY11%	Watertown.....-4%
Fort Scott.....-5%		Caruthersville.....-6%	Atlantic City.....5%	West Point.....4%
Hays.....-11%	MASSACHUSETTS ...12%	Chillicothe.....-8%	Brick.....3%	White Plains.....12%
Hutchinson.....-8%	Ayer.....7%	Columbia.....-3%	Dover.....11%	
Independence.....-2%	Bedford.....20%	East Lynne.....-4%	Edison.....15%	NORTH CAROLINA-1%
Kansas City.....4%	Boston.....27%	Farmington.....-10%	Hackensack.....14%	Asheville.....-5%
Liberal.....-11%	Brockton.....20%	Hannibal.....-9%	Monmouth.....12%	Charlotte.....6%
Salina.....-8%	Cape Cod.....6%	Independence.....4%	Newark.....10%	Durham.....6%
Topeka.....-5%	Chicopee.....5%	Jefferson City.....-4%	Passaic.....12%	Elizabeth City.....-7%
Wichita.....-5%	Dedham.....15%	Joplin.....-5%	Paterson.....9%	Fayetteville.....-6%
	Fitchburg.....14%	Kansas City.....4%	Princeton.....12%	Goldsboro.....3%
KENTUCKY-6%	Hingham.....20%	Kirksville.....-12%	Summit.....17%	Greensboro.....2%
Ashland.....-5%	Lawrence.....18%	Knob Noster.....-8%	Trenton.....9%	Hickory.....-4%
Bowling Green.....-4%	Nantucket.....12%	Lebanon.....-13%		Kinston.....-8%
Campton.....-13%	New Bedford.....9%	Poplar Bluff.....-10%	NEW MEXICO-10%	Raleigh.....6%
Covington.....4%	Northfield.....4%	Saint Charles.....1%	Alamogordo.....-12%	Rocky Mount.....-5%
Elizabethtown.....-7%	Pittsfield.....-1%	Saint Joseph.....8%	Albuquerque.....-2%	Wilmington.....-4%
Frankfort.....-8%	Springfield.....3%	Springfield.....-8%	Clovis.....-17%	Winston-Salem.....0%
Hazard.....-13%		St Louis.....8%	Farmington.....-3%	
Hopkinsville.....-5%	MICHIGAN1%		Fort Sumner.....-3%	NORTH DAKOTA0%
Lexington.....2%	Battle Creek.....-1%	MONTANA-2%	Gallup.....-13%	Bismarck.....0%
London.....-12%	Detroit.....8%	Billings.....0%	Holman.....-10%	Dickinson.....9%
Louisville.....0%	Flint.....-1%	Butte.....2%	Las Cruces.....-11%	Fargo.....0%
Owensboro.....-8%	Grand Rapids.....5%	Fairview.....3%	Santa Fe.....-5%	Grand Forks.....-2%
Paducah.....-7%	Grayling.....-5%	Great Falls.....0%	Socorro.....-18%	Jamestown.....-4%
Pikeville.....-11%	Jackson.....-2%	Havre.....-7%	Truth or Consequences...-11%	Minot.....-1%
Somerset.....-10%	Lansing.....1%	Helena.....-3%	Tucumcari.....-10%	Nekoma.....-18%
White Plains.....-3%	Marquette.....-2%	Kalispell.....-5%		Williston.....13%
	Pontiac.....9%	Miles City.....-7%	NEW YORK7%	
LOUISIANA1%	Royal Oak.....8%	Missoula.....-5%	Albany.....8%	OHIO0%
Alexandria.....-8%	Saginaw.....-1%		Amityville.....10%	Akron.....2%
Baton Rouge.....13%	Traverse City.....-2%	NEBRASKA-7%	Batavia.....0%	Canton.....0%
Houma.....7%		Alliance.....-13%	Binghamton.....1%	Chillicothe.....-5%
Lafayette.....4%	MINNESOTA2%	Columbus.....-5%	Bronx.....12%	Cincinnati.....4%
Lake Charles.....8%	Bemidji.....2%	Grand Island.....-8%	Brooklyn.....7%	Cleveland.....3%
Mandeville.....6%	Brainerd.....0%	Hastings.....-5%	Buffalo.....1%	Columbus.....6%
Minden.....-8%	Duluth.....0%	Lincoln.....-4%	Elmira.....-3%	Dayton.....1%
Monroe.....-9%	Fergus Falls.....-6%	McCook.....-9%	Flushing.....14%	Lima.....-3%
New Orleans.....6%	Magnolia.....-7%	Norfolk.....-6%	Garden City.....13%	Marietta.....-7%
Shreveport.....-7%			Hicksville.....12%	Marion.....-3%

Newark.....5%	Punxsutawney.....-6%	Austin.....10%	Lynchburg.....-8%	Powell.....-9%
Sandusky.....1%	Reading.....1%	Bay City.....10%	Norfolk.....1%	Rawlins.....-6%
Steubenville.....-3%	Scranton.....-2%	Beaumont.....2%	Petersburg.....-2%	Riverton.....-8%
Toledo.....4%	Somerset.....-10%	Brownwood.....-10%	Radford.....-8%	Rock Springs.....-1%
Warren.....-5%	Southeastern.....10%	Bryan.....-2%	Reston.....10%	Sheridan.....-6%
Youngstown.....-3%	Uniontown.....-9%	Childress.....-7%	Richmond.....2%	Wheatland.....-12%
Zanesville.....-1%	Valley Forge.....15%	Corpus Christi.....1%	Roanoke.....-3%	
	Warminster.....10%	Dallas.....8%	Staunton.....-6%	CANADIAN AREA MODIFIERS
OKLAHOMA.....-7%	Warrendale.....4%	Del Rio.....-12%	Tazewell.....-13%	These figures assume an
Adams.....-6%	Washington.....0%	El Paso.....-11%	Virginia Beach.....-1%	exchange rate of \$1.00 Canadian
Ardmore.....-8%	Wilkes Barre.....-3%	Fort Worth.....7%	Williamsburg.....1%	to \$0.76 U.S.
Clinton.....-7%	Williamsport.....-6%	Galveston.....7%	Winchester.....-5%	
Durant.....-8%	York.....0%	Giddings.....0%		ALBERTA AVERAGE... 13%
Enid.....-10%		Greenville.....3%		Calgary.....14%
Lawton.....-12%	RHODE ISLAND..... 4%	Houston.....9%	WASHINGTON..... 1%	Edmonton.....14%
McAlester.....-6%	Bristol.....4%	Huntsville.....7%	Clarkston.....-6%	Fort McMurray.....12%
Muskogee.....-6%	Coventry.....4%	Longview.....-7%	Everett.....4%	
Norman.....-3%	Cranston.....4%	Lubbock.....-6%	Olympia.....1%	BRITISH COLUMBIA
Oklahoma City.....-2%	Davisville.....4%	Lufkin.....-9%	Pasco.....0%	AVERAGE..... 7%
Ponca City.....-6%	Narragansett.....4%	McAllen.....-12%	Seattle.....14%	Fraser Valley.....6%
Poteau.....-12%	Newport.....4%	Midland.....5%	Spokane.....-3%	Okanagan.....6%
Pryor.....-8%	Providence.....4%	Palestine.....-5%	Tacoma.....5%	Vancouver.....9%
Shawnee.....-8%	Warwick.....4%	Plano.....8%	Vancouver.....3%	
Tulsa.....-3%		San Angelo.....-8%	Wenatchee.....-5%	MANITOBA AVERAGE... 0%
Woodward.....-11%	SOUTH CAROLINA -1%	San Antonio.....0%	Yakima.....-6%	North Manitoba.....0%
	Aiken.....2%	San Antonio.....0%		Selkirk.....0%
OREGON.....-2%	Beaufort.....4%	Texarkana.....-9%	WEST VIRGINIA.....-7%	South Manitoba.....0%
Adrian.....-14%	Charleston.....3%	Tyler.....-7%	Beckley.....-3%	Winnipeg.....0%
Bend.....3%	Columbia.....1%	Victoria.....-2%	Bluefield.....-13%	
Eugene.....-3%	Greenville.....1%	Waco.....-4%	Charleston.....3%	NEW BRUNSWICK
Grants Pass.....-4%	Myrtle Beach.....-6%	Wichita Falls.....-7%	Clarksburg.....-3%	AVERAGE.....-13%
Klamath Falls.....-8%	Rock Hill.....-4%	Woodson.....-5%	Fairmont.....-15%	Moncton.....-13%
Pendleton.....-3%	Spartanburg.....-3%		Huntington.....-3%	
Portland.....11%		UTAH.....-4%	Lewisburg.....-14%	NEWFOUNDLAND/
Salem.....-1%		Clearfield.....1%	Martinsburg.....-8%	LABRADOR AVERAGE... -3%
	SOUTH DAKOTA.....-7%	Green River.....-10%	Morgantown.....-5%	
	Aberdeen.....-7%	Ogden.....-7%	New Martinsville.....-10%	NOVA SCOTIA
PENNSYLVANIA.....-2%	Mitchell.....-7%	Provo.....-5%	Parkersburg.....-8%	AVERAGE.....-8%
Allentown.....2%	Mobridge.....-10%	Salt Lake City.....2%	Romney.....-10%	Amherst.....-8%
Altoona.....-9%	Pierre.....-13%		Sugar Grove.....-12%	Nova Scotia.....-7%
Beaver Springs.....-7%	Rapid City.....-6%	VERMONT.....-5%	Wheeling.....4%	Sydney.....-8%
Bethlehem.....6%	Sioux Falls.....-1%	Albany.....-6%		
Bradford.....-10%	Watertown.....-7%	Battleboro.....-6%	WISCONSIN..... 1%	ONTARIO AVERAGE..... 7%
Butler.....-1%		Beecher Falls.....-8%	Amery.....0%	London.....7%
Chambersburg.....-6%	TENNESSEE..... 1%	Bennington.....-8%	Beloit.....3%	Thunder Bay.....6%
Clearfield.....4%	Chattanooga.....4%	Burlington.....3%	Clam Lake.....-6%	Toronto.....7%
DuBois.....-10%	Clarksville.....9%	Montpelier.....-3%	Eau Claire.....-1%	
East Stroudsburg.....-6%	Cleveland.....2%	Rutland.....-8%	Green Bay.....2%	QUEBEC AVERAGE.....-1%
Erie.....-9%	Columbia.....-7%	Springfield.....-7%	La Crosse.....-2%	Montreal.....-1%
Genesee.....-9%	Cookeville.....-4%	White River Junction.....-1%	Ladysmith.....4%	Quebec City.....-1%
Greensburg.....-3%	Jackson.....5%		Madison.....6%	
Harrisburg.....-1%	Kingsport.....-3%	VIRGINIA.....-3%	Milwaukee.....6%	SASKATCHEWAN
Hazleton.....-4%	Knoxville.....0%	Abingdon.....-8%	Oshkosh.....5%	AVERAGE..... 4%
Johnstown.....-10%	McKenzie.....-10%	Alexandria.....12%	Portage.....1%	La Ronge.....3%
Kittanning.....-7%	Memphis.....5%	Charlottesville.....-3%	Prairie du Chien.....-3%	Prince Albert.....2%
Lancaster.....1%	Nashville.....10%	Chesapeake.....-1%	Wausau.....-2%	Saskatoon.....5%
Meadville.....-14%		Culpeper.....-5%		
Montrose.....-6%	TEXAS.....-1%	Farmville.....-9%	WYOMING.....-6%	
New Castle.....0%	Abilene.....-6%	Fredericksburg.....-4%	Casper.....-6%	
Philadelphia.....9%	Amarillo.....-4%	Galax.....-10%	Cheyenne/Laramie.....0%	
Pittsburgh.....2%	Arlington.....7%	Harrisonburg.....-5%	Gillette.....-3%	
Pottsville.....-5%				

crews

CRAFT CODE	AVG. COST /HR	CREW COMPOSITION	CRAFT CODE	AVG. COST /HR	CREW COMPOSITION
1A	\$61.30	acoustic ceiling installer	11	\$56.50	insulation installer
2A	\$70.10	appliance installer	21	\$64.70	cabinet installer laborer
3A	\$83.20	appliance refinisher	31	\$75.00	flooring installer
4A	\$69.50	awning installer	41	\$55.70	flooring installer's helper
5A	\$52.70	awning installer's helper	51	\$65.40	flooring installer flooring installer's helper
6A	\$61.10	awning installer awning installer's helper	61	\$77.50	paneling installer
1B	\$43.20	cleaning laborer	71	\$58.00	paneling installer's helper
2B	\$97.90	post & beam carpenter	2L	\$51.70	cabinet installer's helper
3B	\$69.80	post & beam carpenter's helper	3L	\$47.60	masking & moving laborer
4B	\$83.90	post & beam carpenter post & beam carpenter's helper	1M	\$81.50	mason
1C	\$77.60	carpenter	2M	\$74.80	mason's helper
5C	\$58.00	carpenter's helper	3M	\$57.80	hod carrier
6C	\$67.80	carpenter carpenter's helper	4M	\$71.40	mason mason's helper hod carrier / laborer
1D	\$54.00	demolition laborer	5M	\$78.20	mason mason's helper
2D	\$63.40	drywall hanger drywall hanger's helper	6M	\$131.00	stone carver
3D	\$72.30	drywall hanger	7M	\$55.50	mobile home repair specialist
4D	\$54.50	drywall hanger's helper	10	\$99.80	equipment operator
5D	\$72.90	drywall taper	20	\$70.00	concrete saw operator
6D	\$66.90	drywall hanger drywall hanger's helper drywall taper	4P	\$73.90	plasterer
5E	\$50.50	excavation laborer	5P	\$66.50	plasterer's helper
6E	\$75.20	excavation laborer equipment operator	6P	\$70.20	plasterer plasterer's helper
7E	\$83.60	electrician	7P	\$89.20	plumber
8E	\$62.30	electrician's helper	8P	\$67.80	paneling installer paneling installer's helper
9E	\$73.00	electrician electrician's helper	9P	\$68.10	plumber's helper
1F	\$72.20	concrete form installer	3R	\$75.90	retaining wall installer
2F	\$52.60	concrete laborer	4R	\$90.00	roofer
3F	\$62.40	concrete form installer concrete laborer	5R	\$76.20	roofer's helper
4F	\$67.80	carpenter (fence installer) carpenter's helper	6R	\$83.10	roofer roofer's helper
5F	\$75.30	painter	1S	\$62.00	susp. ceiling installer susp. ceiling installer's helper
6F	\$71.20	concrete finisher	2S	\$70.80	susp. ceiling installer
7F	\$59.00	concrete finisher's helper	3S	\$53.10	susp. ceiling installer's helper
8F	\$65.10	concrete finisher concrete finisher's helper	4S	\$76.30	siding installer
9F	\$63.80	concrete form installer concrete laborer concrete finisher concrete finisher's helper	5S	\$57.10	siding installer's helper
1G	\$99.60	compaction grouting specialist	6S	\$66.70	siding installer siding installer's helper
2G	\$76.10	compaction grouting specialist concrete laborer	7S	\$68.80	security system installer
1H	\$64.00	hazardous materials laborer	8S	\$87.90	swimming pool installer
2H	\$81.40	HVAC installer	9S	\$65.80	water extractor
3H	\$60.20	wallpaper hanger	1T	\$71.60	tile layer
			7Z	\$51.80	mildew remediation specialist
			8Z	\$32.20	mildew remediation assistant
			9Z	\$42.00	mildew remediation specialist mildew remediation assistant

Craft@Hrs Unit Material Labor Total

Acoustic Ceilings

Minimum charge.

for acoustic ceiling tile work	1A@1.25	ea	31.80	76.60	108.40
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1/2" on strips. 12" x 12" tiles stapled in place. Includes 12" x 12" ceiling tiles, staples, and installation labor. Does not include furring strips. Includes 3% waste.

1/2" ceiling tiles on furring strips					
replace, smooth face	1A@.025	sf	1.94	1.53	3.47
replace, fissured face	1A@.025	sf	2.48	1.53	4.01
replace, textured face	1A@.025	sf	2.89	1.53	4.42
replace, patterned face	1A@.025	sf	3.04	1.53	4.57
remove only	1D@.012	sf	—	.65	.65

1/2" on flat ceiling. 12" x 12" tiles glued in place. Includes 12" x 12" ceiling tiles, glue, and installation labor. Includes 3% waste.

1/2" ceiling tiles on flat ceiling					
replace, smooth face	1A@.029	sf	1.94	1.78	3.72
replace, fissured face	1A@.029	sf	2.48	1.78	4.26
replace, textured face	1A@.029	sf	2.89	1.78	4.67
replace, patterned face	1A@.029	sf	3.04	1.78	4.82
remove only	1D@.016	sf	—	.86	.86

5/8" on strips. 12" x 12" tiles stapled in place. Includes 12" x 12" ceiling tiles, staples, and installation labor. Does not include furring strips. Includes 3% waste.

5/8" ceiling tiles on furring strips					
replace, smooth face	1A@.025	sf	2.48	1.53	4.01
replace, fissured face	1A@.025	sf	2.89	1.53	4.42
replace, textured face	1A@.025	sf	3.20	1.53	4.73
replace, patterned face	1A@.025	sf	3.41	1.53	4.94
remove only	1D@.012	sf	—	.65	.65

5/8" on flat ceiling. 12" x 12" tiles glued in place. Includes 12" x 12" ceiling tiles, glue, and installation labor. Includes 3% waste.

5/8" ceiling tiles on flat ceiling					
replace, smooth face	1A@.029	sf	2.48	1.78	4.26
replace, fissured face	1A@.029	sf	2.89	1.78	4.67
replace, textured face	1A@.029	sf	3.20	1.78	4.98
replace, patterned face	1A@.029	sf	3.41	1.78	5.19
remove only	1D@.016	sf	—	.86	.86

3/4" on strips. 12" x 12" tiles stapled in place. Includes 12" x 12" ceiling tiles, staples, and installation labor. Does not include furring strips. Includes 3% waste.

3/4" ceiling tiles on furring strips					
replace, smooth face	1A@.025	sf	2.89	1.53	4.42
replace, fissured face	1A@.025	sf	3.20	1.53	4.73
replace, textured face	1A@.025	sf	3.33	1.53	4.86
replace, patterned face	1A@.025	sf	3.69	1.53	5.22
remove	1D@.012	sf	—	.65	.65

	Craft@Hrs	Unit	Material	Labor	Total
3/4" on flat ceiling. 12" x 12" tiles glued in place. Includes 12" x 12" ceiling tiles, glue, and installation labor. Includes 3% waste.					
3/4" ceiling tiles on flat ceiling					
replace, smooth face	1A@.029	sf	2.89	1.78	4.67
replace, fissured face	1A@.029	sf	3.20	1.78	4.98
replace, textured face	1A@.029	sf	3.33	1.78	5.11
replace, patterned face	1A@.029	sf	3.69	1.78	5.47
remove	1D@.016	sf	—	.86	.86

Additional costs for acoustical ceiling tile.

add for 3/4" tiles with fire rating	—	sf	.55	—	.55
add for aluminum-coated tiles	—	sf	.79	—	.79

Furring strips. Includes 1" x 2" furring strips, nails, construction adhesive as needed, and installation labor. Furring strips placed as fireblocking is included. Includes 4% waste.

replace 1" x 2" furring strips 12" on center	1A@.007	sf	.47	.43	.90
remove	1D@.009	sf	—	.49	.49

Repair loose ceiling tile.

repair loose acoustic tile	1A@.253	ea	.21	15.50	15.71
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Angled install for ceiling tile.

- add 24% for diagonal install
- add 31% for chevron install
- add 40% for herringbone install

Time & Material Charts (selected items)**Acoustic Ceiling Materials**

1/2" thick acoustic tile (per 12" x 12" tile)					
smooth face, (\$1.63 each, 1 sf, 3% waste)	—	sf	1.69	—	1.69
fissured face, (\$2.18 each, 1 sf, 3% waste)	—	sf	2.25	—	2.25
textured face, (\$2.50 each, 1 sf, 3% waste)	—	sf	2.58	—	2.58
patterned face, (\$2.70 each, 1 sf, 3% waste)	—	sf	2.78	—	2.78
5/8" thick acoustic tile (per 12" x 12" tile)					
smooth face, (\$2.18 each, 1 sf, 3% waste)	—	sf	2.25	—	2.25
fissured face, (\$2.50 each, 1 sf, 3% waste)	—	sf	2.58	—	2.58
textured face, (\$2.90 each, 1 sf, 3% waste)	—	sf	2.99	—	2.99
patterned face, (\$3.04 each, 1 sf, 3% waste)	—	sf	3.13	—	3.13
3/4" thick acoustic tile (per 12" x 12" tile)					
smooth face, (\$2.50 each, 1 sf, 3% waste)	—	sf	2.58	—	2.58
fissured face, (\$2.90 each, 1 sf, 3% waste)	—	sf	2.99	—	2.99
textured face, (\$3.00 each, 1 sf, 3% waste)	—	sf	3.09	—	3.09
patterned face, (\$3.30 each, 1 sf, 3% waste)	—	sf	3.40	—	3.40

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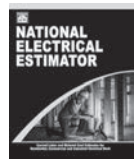
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