

**Model costs calculated for a 6 story building  
with 12' story height and 200,000 square feet  
of floor area**

**Hospital, 4-8 Story**

			Unit	Unit Cost	Cost Per S.F.	% Of Sub-Total	
<b>A. SUBSTRUCTURE</b>							
1010	Standard Foundations	Poured concrete; strip and spread footings; 4" foundation wall	S.F. Ground	4.92	.82	1.7%	
1020	Special Foundations	N/A	—	—	—		
1030	Slab on Grade	4" reinforced slab on grade	S.F. Slab	14.85	2.48		
2010	Basement Excavation	Site preparation for slab and trench for foundation wall and footing	S.F. Ground	.18	.03		
2020	Basement Walls	N/A	—	—	—		
<b>B. SHELL</b>							
<b>B10 Superstructure</b>							
1010	Floor Construction	Open web steel joists, slab form, concrete, fireproofed steel columns	S.F. Floor	15.16	12.63	7.2%	
1020	Roof Construction	Metal deck on open web steel joists, columns	S.F. Roof	10.98	1.83		
<b>B20 Exterior Enclosure</b>							
2010	Exterior Walls	Fiber cement siding on metal studs, insulated	S.F. Wall	19.25	4.30	3.8%	
2020	Exterior Windows	Aluminum sliding windows	Each	589	2.45		
2030	Exterior Doors	Aluminum and glass double doors, hollow metal egress doors	Each	7340	1.02		
<b>B30 Roofing</b>							
3010	Roof Coverings	Single ply membrane, stone ballast	S.F. Roof	7.02	1.17	0.6%	
3020	Roof Openings	Roof hatches	S.F. Roof	.34	.04		
<b>C. INTERIORS</b>							
1010	Partitions	Concrete block partitions, gypsum board on metal studs	S.F. Partition	7.08	7.87	21.3%	
1020	Interior Doors	Single leaf hollow metal doors, fire doors	Each	1268	9.39		
1030	Fittings	Hospital curtains	S.F. Floor	1.32	1.32		
2010	Stair Construction	Concrete filled metal pan	Flight	12,600	1.63		
3010	Wall Finishes	65% Paint, 35 % ceramic wall tile	S.F. Surface	3.42	7.59		
3020	Floor Finishes	60% Vinyl tile, 20% ceramic , 20% terrazzo	S.F. Floor	9.20	9.30		
3030	Ceiling Finishes	Acoustic ceiling tiles on suspended channel grid	S.F. Ceiling	6.30	6.30		
<b>D. SERVICES</b>							
<b>D10 Conveying</b>							
1010	Elevators & Lifts	Six traction geared hospital elevators	Each	235,000	7.05	3.5%	
1020	Escalators & Moving Walks	N/A	—	—	—		
<b>D20 Plumbing</b>							
2010	Plumbing Fixtures	Medical, patient & specialty, supply and drainage	Each	31.49	7.57	9.9%	
2020	Domestic Water Distribution	Electric water heater	S.F. Floor	11.60	11.60		
2040	Rain Water Drainage	Roof drains	S.F. Roof	4.56	.76		
<b>D30 HVAC</b>							
3010	Energy Supply	Conditioned air with hot water reheat system	S.F. Floor	4.48	4.48	24.2%	
3020	Heat Generating Systems	Steam boiler for services	Each	43,750	.55		
3030	Cooling Generating Systems	Chillers	S.F. Floor	3.19	3.19		
3050	Terminal & Package Units	N/A	—	—	—		
3090	Other HVAC Sys. & Equipment	Hot water boilers, ductwork, VAV terminals, ventilation system	S.F. Floor	40.40	40.40		
<b>D40 Fire Protection</b>							
4010	Sprinklers	Wet pipe sprinkler system	S.F. Floor	3.02	3.02	1.8%	
4020	Standpipes	Standpipe	S.F. Floor	.57	.57		
<b>D50 Electrical</b>							
5010	Electrical Service/Distribution	2000 ampere service, panel board and feeders	S.F. Floor	2.25	2.25	13.3%	
5020	Lighting & Branch Wiring	Fluorescent fixtures, receptacles, switches, A.C. and misc. power	S.F. Floor	20.87	20.87		
5030	Communications & Security	Addressable alarms, emergency lighting, internet and phone wiring	S.F. Floor	2.54	2.54		
5090	Other Electrical Systems	Emergency generator, 400 Kw with fuel tank, UPS system	S.F. Floor	.97	.97		
<b>E. EQUIPMENT &amp; FURNISHINGS</b>							
1010	Commercial Equipment	N/A	—	—	—	12.5 %	
1020	Institutional Equipment	Laboratory and kitchen equipment	S.F. Floor	21.76	21.76		
1030	Vehicular Equipment	N/A	—	—	—		
2020	Movable Furnishings	Patient wall systems	S.F. Floor	3.41	3.41		
<b>F. SPECIAL CONSTRUCTION</b>							
1020	Integrated Construction	N/A	—	—	—	0.0 %	
1040	Special Facilities	N/A	—	—	—		
<b>G. BUILDING SITEWORK</b> N/A							
Sub-Total					200.96	100%	
CONTRACTOR FEES (General Requirements: 10%, Overhead: 5%, Profit: 10%)					25%	50.23	
ARCHITECT FEES					9%	22.61	
Total Building Cost					273.80		

# Means Cost Estimating Guide

**United States. Forest Service.  
Intermountain Region**



## **Means Cost Estimating Guide:**

**How to Estimate with RSMeans Data** Saleh A. Mubarak, RSMeans, 2012-04-04 Using North America's most recognized construction cost data from RSMeans this step by step guide develops problem solving skills through over 300 sample problems and exercises All of the major construction items including site work concrete and masonry wood and metal framing doors and windows and more are covered Access to a password protected web site is included which contains the instruction version of RSMeans Cost Works the electronic version of RS Means Building Construction Cost Data and sample building plans and spreadsheets enabling you to practice creating a complete construction estimate [RSMeans Cost Data, + Website](#) RSMeans, 2012-04-10 RSMeans Cost Data RSMeans Cost Data for Students RSMeans Cost Data Student Edition provides a thorough introduction to cost estimating in a self contained print and online package With clear explanations and a hands on example driven approach it is the ideal reference for students and new professionals who need to learn how to perform cost estimating for building construction Features include Commercial and residential construction cost data in print and online formats Complete how to guidance on the essentials of cost estimating A supplemental website with plans specifications problem sets and a full sample estimate With more than 930 Location Factors in the United States and Canada the data includes up to date system prices for more than 100 standard assemblies and in place costs for thousands of alternates making it easy to customize budget estimates and compare system costs UNIT PRICES organized in MasterFormat™ 2010 1 General Requirements 2 Existing Conditions 3 Concrete 4 Masonry 5 Metals 6 Woods Plastics Composites 7 Thermal Moisture Protection 8 Openings 9 Finishes 10 Specialties 11 Equipment 12 Furnishings 13 Special Construction 14 Conveying Equipment 21 Fire Suppression 22 Plumbing 23 Heating Ventilating Air Conditioning 26 Electrical 27 Communications 28 Electronic Safety Security 31 Earthwork 32 Exterior Improvements 33 Utilities ASSEMBLIES A Substructure B Shell C Interiors D Services E Equipment Furnishings F Special Construction G Building Site Work REFERENCE INFORMATION Equipment Rental Costs Crews Cost Indexes Reference Tables Square Foot Costs RSMeans is the leading source of cost data for construction in North America Visit [rsmeans.com](http://rsmeans.com) to learn more **Cost Estimating Guide for Road Construction** United States. Forest Service. Intermountain Region, 2002 [How to Estimate with RSMeans Data](#) RSMeans, Saleh A. Mubarak, 2020-03-31 A practical hands on guide to real world construction estimating How to Estimate with RSMeans Data is the only instructional book on construction cost estimating that uses the most popular source of construction cost data RS Means This updated fifth edition includes new coverage on the role of Building Information Modeling BIM in the estimating process and over 300 sample problems and exercises that show you how to apply cost data to your building project based on the RS Means 2015 Building Construction Cost Data The companion website provides access to RS Means CostWorks data allowing you to use real world numbers in your practice estimates and the included Instructor's Manual provides step by step solutions to problems in the book Focused on the practical aspects of

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**Project Management Handbook**, 1981 The purpose of this handbook is to provide guidance to project managers on how they can ensure that their projects are well managed Preface **Value Engineering Guidance**

**Handbook**, 1992 Mechanical Estimating Guidebook for Building Construction John Gladstone, Kenneth King

Humphreys, B. K. Lunde, 1987 *Handbook of Measurements* Adedeji B. Badiru, LeeAnn Racz, 2018-10-08 Planning measuring and paying attention to details form the basis for all successful engineering operations Measurements pervade everything we do and must be viewed from a systems perspective A comprehensive all encompassing guide to measurements Handbook of Measurements Benchmarks for Systems Accuracy and Precision focuses on high level engineering computations essential for benchmarks and technical innovation The book uses a systems framework and a technically rigorous approach to systems linking of measurements an approach that sets it apart from other handbooks The popular saying measure twice and cut once bears out the importance of measurements in human endeavors This handbook covers both qualitative and

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