



Worldwide Industrial / Commercial Construction Schedule of Rates Yearbook

12TH EDITION



1 DIVISION 0

Introduction and Calibration Factors: includes the following: Location (Calibration) Factors - International values compared to Washington D.C. (Base of 1.00). Calibrations in this application are used to adjust the unit prices / schedule of rates depicted in the following Divisions 1 – 17. 188 # International Cities Location / Calibration Factors. General Conversion Values - Imperial to Metric Units. Import Duties General Sales Tax / Value. Added Tax / Consumption Tax. 284 # USA Location (Calibration) Factors. Detailed Design / Engineering / Architectural and CM Fees 51 # Facility Types. Union Labor Costs. USA and Canada State & Province Sales Tax / GST. Inflation Cost Indexes.

00

27 **DIVISION 00** Cost Models / Cost Benchmarks (19 Number) includes cost and quantity data on the following: Power Station Cost Model. Crude Oil Distillation Complex. High Rise Apartment Building Cost Model. Waste Water Treatment Cost Model. **EPCM Home Office Billing Rate Sheet.** Consumer Products Facility. Steel Production Cost Model. Beverage Production Facility Cost Model. Petro – Chemical Cost Model. 78 # Engineering / Construction Cost Benchmarks. **Class A Office Building UK Pharmaceutical Facility Clean Warehouse Regional Airport** Shopping Mall **Clean Warehouse Facility**



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DIVISION 01

General Requirements / General Conditions / Preliminaries: includes cost data on the following: Rules of thumb Insurance Costs Protection of Completed Work Scaffolding Temporary Utilities, Structures & Fences Permits Testing / Inspection Surveys Bonds Site Staff / Field Personnel Construction Equipment Costs / Rental Temporary Construction Items

02

85 DIVISION 02

Site Construction: includes schedule of rates for: Demolition (including asbestos) Excavation Rock removal Hardcore / Stone Shoring Planking & Strutting / Sheet Piling **Foundation Piling** Utilities Miscellaneous Site Improvements Paving **Concrete** Curbing Fencing Site Lighting Marine Work **Underground Storage Tanks**



105

DIVISION 03 Concrete Work: includes schedule of rates for: Concrete Formwork Reinforcement Precast Concrete Grouting

04

131

DIVISION 04 Masonry: includes schedule of rates for: Brickwork Masonry Refractory

05

141

DIVISION 05 Metals: includes schedule of rates for: Structural Steel Metal Joists Metal Framing Miscellaneous Iron Metal Decking

06

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DIVISION 06

Wood and Plastics: includes schedule of rates for: Rough Carpentry Finish Carpentry Carpentry Specialties



169

DIVISION 07 Thermal and Moisture Protection: includes schedule of rates for: Damp proofing and Waterproofing **Thermal Protection Roofing Systems** Caulking & Sealants

80

183 **DIVISION 08**

Doors and Windows: includes schedule of rates for: Wood and Plastic Doors Metal Doors and Frames Windows Glazing / Glazed Curtain Walls Hardware

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203

DIVISION 09

09

Finishes: includes schedule of rates for: Plaster and Gypsum Board Tile Terrazzo Ceilings

Flooring

Wall Finishes **Acoustical Treatment**

Painting and Coatings

1-0

DIVISION 10

Specialties: includes schedule of rates for: **Visual Display Boards Compartments and Cubicles** Louvers and Vents Wall and Corner Guards **Miscellaneous Facility Specialties**



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211 DIVISION 11

Equipment: includes schedule of rates for: Maintenance Equipment Loading Dock Equipment Industrial and Process Equipment Laboratory Equipment Material Handling Equipment

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223

DIVISION 12 Furnishings: includes schedule of rates for: Furniture Manufactured Casework

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227 DIVISION 13 Special Construction: includes schedule of rates for: Pre-Engineered Buildings & Structures Radiation Protection Storage Tanks Security Access and Surveillance

235

DIVISION 14

14

Conveying Systems: includes schedule of rates for: Elevators Escalators and Moving Walks Hoists and Cranes



243 DIVISION 15

Mechanical Work: includes schedule of rates for: Building Services Piping Plumbing Fixtures Process Piping Fire Protection Piping Heating, Ventilating & Air Conditioning Equipment Ductwork Insulation

16

313

DIVISION 16 Electrical Work: includes schedule of rates for: Electrical Equipment / Transformers Cable / Control wire Conduit Cable tray Communications Instrumentation and Controls

17

345

DIVISION 17 Process Equipment / Major Equipment: includes schedule of rates for: Agitators Air Handlers Boilers Chillers Compressors Condensers Conveyors Cooling Towers Ductwork Heat Exchangers Pumps Tanks

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Introduction and Calibration factors

This publication, the 2021 Worldwide Industrial / Commercial Construction Schedule of Rates Yearbook is conceivably the most authoritative and up to date estimating tool specific to the topic of Industrial and Commercial unit price (schedule of rates) estimating. The main benefits of this publication are that it is easily understood and it can be used immediately to

compile accurate detailed or semidetailed construction cost estimates. Note the Term: Construction Schedule of Rates is a term widely used in Europe and the rest of the world, in North America this methodology or approach is usually referred to as Unit Price Estimating, both these terms are interchangeable when utilizing this publication.

The following Divisions 1 - 17

contain U.S. unit costs for materials, labor (union application) and construction equipment for construction work associated with industrial and commercial construction work applicable for 2021. This publication answers the questions and issues that are needed in order to produce an accurate domestic or international cost estimate. This reference guide is appropriate for construction professionals who are familiar or who are possibly new to the topic of detailed unit price estimating (schedule of rates estimating). This method can be best described in the following manner - The total construction project (the construction effort or work items) is broken down into smaller distinct work scope items - i.e. a number of single line items (the construction project may consist of 100's or possibly 1,000's of these particular line items). A "unit price cost" (schedule of rates) is determined for

price is then multiplied by the "take-off quantity," i.e. the actual number of doors or windows needed in the facility, the cubic yards of concrete or the length of pipe required; these quantities are more often than not depicted on the architectural / engineering drawings. They are "taken-off" the architectural / general arrangement drawings by count-

each scope item, i.e. line item, the appropriate unit

price cost is selected from this publication. The unit

ing each door or by measuring the footage of pipe depicted on the drawings (think of the take-off list as a shopping list of items that will need to be purchased or fabricated to complete the construction work depicted on the drawings and further described in the specifications), it is many times further described in (the scope of work

statement). This action then establishes the construction cost for each work item (line item). All of the line item costs are then summed up to obtain the total installed cost (TIC) for the project being reviewed or estimated. To summarize the above statement - the total cost of a building / facility is the summary / collection of the "taken-off" quantities multiplied by the related unit cost price detailed in this publication.

The unit cost method of estimating (schedule of rates) is a "proven" reasonably uncomplicated method of determining final construction costs; nevertheless it is a time consuming effort (there is software available and computerized tools that can significantly speed up this effort), nonetheless the end result is usually accurate, perhaps considered better than +/- 5% accurate. We are confident that this data used in concert with some of the tables and cost models depicted in Divi-

the questions and issues that are needed in order to produce an accurate domestic or international cost estimate.

This publication answers

24. | DIVISION 0

all in rate.

• Excludes construction equipment / fueling and maintenance.

• Excludes general conditions / Division 1 / Preliminaries (trailers and scaffold etc,) / Excludes consumables (gases, rags and grease).

TRADE	BASE WAGE	"A" ALL-IN RATE
Bricklayer	52.80	97.69
Carpenter	51.30	94.86
Electrician	61.02	112.68
Laborer, General	37.93	70.23
Operating Engineer,	53.47	99.02
General		
Painter, General	46.39	85.92
Plumber / Pipe fitter	61.06	112.64
Roofer	46.03	85.39
Sheet Metal Worker,	60.34	111.17
General		
Structural Iron Worker	57.82	106.78
AVERAGE RATE	52.82	97.64

USA & Canada State and Province Sales Tax / GST: Sales tax on materials is indicated following. Typically labor is not taxed. Some businesses may be able to obtain sales tax / exemption forms (certificate) that allow them to claim the sales tax back

STATE	ТАХ (%)
Alabama	4
Alaska	0
Arizona	5.6
Arkansas	6.50
California	7.25
Colorado	2.9
Connecticut	6.35
Delaware	0
District of Columbia	6
Florida	6
Georgia	4
Hawaii	4
Idaho	6
Illinois	6.25
Indiana	7
lowa	6
Kansas	6.5
Kentucky	6

STATE	ТАХ (%)
Louisiana	4.45
Maine	5.5
Maryland	6
Massachusetts	6.25
Michigan	6
Minnesota	6.875
Mississippi	7
Missouri	4.225
Montana	0
Nebraska	5.5
Nevada	6.85
New Hampshire	0
New Jersey	6.625
New Mexico	5.125
New York	4
North Carolina	4.75
North Dakota	5
Ohio	5.75
Oklahoma	4.5
Oregon	0
Pennsylvania	6
Rhode Island	7
South Carolina	6
South Dakota	4.5
Tennessee	7
Техаз	6.25
Utah	4.7
Vermont	6
Virginia	5.30
Washington	6.5
West Virginia	6
Wisconsin	5
Wyoming	4
Canada Provinces impose QST/GST	Г/PST & HST tax
Average - Check with each Province	
Alberta	5

Alberta	5
British Columbia	12
Manitoba	13
New Brunswick	15
Newfoundland	15
Northwest Territories	5
Nova Scotia	15
Nunavut	5
Ontario	13
PEI	14
Quebec	14.975
Saskatchewan	10
Yukon	5





(2) ESTIMATING ASSESSMENT SHEET:

The following capital cost estimate review sheet sets the ranges minimum and maximum for various activities. This data can be used as a data source to calibrate / compare specific key elements of a process related project, this data applies to new / green field construction applications.

• (I.S.B.L.): inside battery limits (M.E.) major equipment (T.I.C.) total installed cost

• (D.L.): direct labor

NO.	RATIOS & PERCENTAGES	NORMAL RANGE
1	Site Works as a percentage of M.E. (I.S.B.L)	2 – 5%
2	Buildings / Structures as a percentage of M.E. (I.S.B.L)	5 – 12%
3	Piping material as percent M.E. (I.S.B.L)	20-50%
4	Labor as percent of T.I.C.	20-30%
5	Piping labor as percent of pipe material	40-125%
6	Indirect cost as percent D.L.	70-125%
7	Piping labor as percent D.L.	10-55%
8	Typical M.E. Multiplier to T.I.C.	3.0 – 5.50 (Typical average 4.00)
		Refer to Benchmark Data.
9	Instrument material as percent M.E. (I.S.B.L.)	15-20%
10	Electrical work as a percentage of M.E. (I.S.B.L)	7 – 12%
11	Electrical labor as a percentage of M.E. (I.S.B.L)	10-20%
12	Insulation work as a percentage of M.E. (I.S.B.L)	3 - 5%
13	Field Establishment as a percentage of field in-directs	4-9%
14	Small tools / consumables as percent of D.L.	0.15 - 2.25%
15	Scaffolding as percent of D.L.	0.5 - 2%
16	Spare Parts	5% to 7.5% of major equipment on complex process
		facilities
17	Spare parts as percent of D.L.	0.1 - 1.5%
18	Freight	3% to 5% of major equipment cost.
19	Operator Training	0.5% to 2.5% of major equipment
20	Operator Training	2.5% to 5% of major equipment on complex
		process facilities
21	Royalties as a percentage of M.E. (I.S.B.L)	0.25 – 3.5%
22	Vendor assistance as percent of D.L.	0.1 –0 25%
23	Home office engineering as percent T.I.C.	8-17%
24	Field supervision as percent D.L.	5-15%
25	Construction equipment as percent D.L.	12-20%
26	Construction fee as percent D.L.	3 - 9%
27	Construction fee as percent T.I.C.	1.25 - 4.0%
28	CM cost as percentage of T.I.C.	5 - 7.5%
29	Off sites, needs to be considered as a separate issue.	If limited / or no scope or data is available use 15- 70% of the (I.S.B.L.) value. If multiplier is smaller / or greater than 3.0 – 5.50 a more in depth review should take place:
30	Overtime / shift work as a percentage of D.L	0-10%
31	Construction Management Fee	2 – 6% on pass through value:
32	Fabricate pipe offsite	20 – 40 hours / ton
33	Erect piping (2" and above)	100 – 200 hours / ton
34	Average cost per ton to fabricate and erect piping system	Average cost \$17,000 \$25,000 per ton, average
		\$21,000 per ton



	2021 - Division 3 - Concrete -	Unit	Motorial	Labor	Construction	Total
	Union Site Elevated Pan / Waffle Concrete	Unit	Material	Labor	Equipment	Total
	work with 150 - 250 pounds of rebar					
122	per CY (Maximum)	CY	463.10	622.16	90.16	1 175 12
122	Elevated Pan / Waffle Concrete	UT	403.10	022.10	90.10	1,175.43
	work with 150 - 250 pounds of rebar					
100	per CY (Minimum)	CY	307.46	440.55	63.84	811.85
123	Hi rise bulding elevator walls	UT	307.40	440.55	03.04	011.05
104	(Maximum)	CY	379.67	527 10	76.20	092.16
124	Hi rise bulding elevator walls	CT	579.07	527.10	76.39	983.16
105	(Minimum)	CY	252.20	105.96	50.02	716.07
125	Reinforced concrete in roads /	UT	252.30	405.86	58.82	716.97
100		CV/	264.40	E7E 46	02.40	1 000 00
120	bridges (Maximum) Reinforced concrete in roads /	CY	364.10	575.46	83.40	1,022.96
107		CV/	000 70		20.64	529.07
127	bridges (Minimum)	CY	232.78	266.64	38.64	538.07
100	Curved concrete walls to cooling	CV/	400.44	501 14	75 50	1 010 10
128	tower (Maximum) Curved concrete walls to cooling	CY	422.44	521.14	75.52	1,019.10
120	5	CV	246.20	247 70	50.40	744.20
129	tower (Minimum)	CY	346.20	347.79	50.40	744.39
	Slob on grade 4" thick with 4" stope				•	
120	Slab on grade 4" thick with 4" stone, polythene and mesh reinforcement	05	2.50	0.70	0.20	F 70
130	polythene and mesh remorcement	SF	2.58	2.72	0.39	5.70
	Olah an anada 5" thiak with C" atana					
404	Slab on grade 5" thick with 6" stone,	05	2.00	0.05	0.40	0.47
131	polythene and mesh reinforcement	SF	3.09	2.95	0.43	6.47
	Slob on grade 6" thick with 6" stope					
100	Slab on grade 6" thick with 6" stone, polythene and mesh reinforcement	CE	2.76	2.40	0.46	7 40
132		SF	3.76	3.18	0.46	7.40
	Slob on grade 6" thick with 6" stopp					
100	Slab on grade 6" thick with 6" stone, polythene and rebar reinforcement	OF	1.04	2 5 2	0.51	0.00
133	polythene and rebai reinforcement	SF	4.04	3.53	0.51	8.09
	Slab on grade 8" thick with 6" stone,					
134	polythene and mesh reinforcement	SF	4.20	3.53	0.51	8.24
134	polythene and mesh reinforcement	3F	4.20	3.55	0.51	0.24
	Slab on grade 8" thick with 6" stone,					
135	polythene and rebar reinforcement	SF	4.62	3.84	0.56	9.02
155	Dome / Waffle construction	51	4.02	5.04	0.50	9.02
136	(Minimum)	CY	215.37	257.91	37.38	510.66
130	Dome / Waffle construction	01	215.57	237.91	57.50	510.00
137	(Maximum)	CY	338.81	358.56	51.96	749.33
	18" dia columns (Minimum)	CY	238.32	273.07	39.57	550.96
	18" dia columns (Maximum)	CY	351.94	374.29	54.24	780.47
100	Elevated spandrel beams 16" X 30"		001.04	51-4.23	57.27	100.41
1	with 280 - 350 pounds of rebar per					
140	CY (Maximum)	CY	489.00	586.23	95.88	1,171.12
140	Elevated spandrel beams 16" X 30"		-03.00	500.25	30.00	1,171.12
	with 280 - 350 pounds of rebar per					
1/1	CY (Minimum)	CY	360.88	429.46	72.13	862.47
141			300.00	423.40	12.13	002.47



	2021 Division 15 - Mechanical	Unit of			Construction	
	Work - Union	Measure	Material	Labor	Equipment	Total
-	Ditto 6" dia x 30" long 50 - 100	mououro	matorial		Equipment	. otul
392	GPM	EACH	2,284.78	215.94	13.58	2,514.29
002	Ditto 8" dia x 30" long 100 - 200	E/ torr	2,201.10	210.01	10.00	2,011.20
393	GPM	EACH	3,420.71	322.38	20.27	3,763.36
	Ditto 10" dia x 30" long 200 - 400		-,			.,
394	GPM	EACH	5,085.89	477.49	30.02	5,593.40
	Ditto 12" dia x 36" long 250 - 500		0,000.00			
395	GPM	EACH	7,228.67	681.26	42.83	7,952.76
	Ditto 18" dia x 36" long 500 -	-	,			,
396	1,000 GPM	EACH	15,283.48	1,435.52	90.25	16,809.24
	Ditto 24" dia x 36" long 1,000 -	-	-,	,		
397	2,500 GPM	EACH	28,979.13	2,706.80	170.17	31,856.11
	Air conditioning 2.5 Ton 30,000		,			
	BTU's - direct expansion -					
398	condenser c/w controls	EACH	961.67	316.30	19.89	1,297.86
399	Ditto 5 Ton 60,000 BTU's	EACH	1,400.06	364.96	22.94	1,787.97
400	Ditto 10 Ton 120,000 BTU's	EACH	3,717.60	729.92	45.89	4,493.42
401	Ditto 25 Ton 300,000 BTU's	EACH	7,796.64	2,128.95	133.84	10,059.43
	Duct heater - electric 2.5 KW c/w					
402	controls and hook up	EACH	613.15	109.49	7.80	730.44
403	Ditto 5 KW	EACH	1,079.14	127.74	9.10	1,215.98
404	Ditto 10 KW	EACH	1,839.44	164.23	11.70	2,015.37
405	Ditto 25 KW	EACH	3,698.24	194.65	13.87	3,906.76
	Coils - flanged - copper tube 3/8"					
	dia c/w aluminum fins 2 tubes - fin					
406	is 4" high x 12" long	EACH	552.18	33.70	2.12	588.00
407	Ditto 4" x 18"	EACH	580.88	33.70	2.12	616.69
408	Ditto 4" x 24"	EACH	606.69	33.70	2.12	642.51
409	Ditto 4" x 30"	EACH	632.51	42.89	2.70	678.10
410	Ditto 4" x 36"	EACH	658.33	49.02	3.08	710.43
411	Ditto 4" x 42"	EACH	690.60	49.02	3.08	742.70
412	Ditto 4" x 48"	EACH	722.87	58.21	3.66	784.74
413	Ditto 6" x 18"	EACH	774.50	58.21	3.66	836.37
414	Ditto 6" x 26"	EACH	800.32	58.21	3.66	862.19
415	Ditto 6" x 30"	EACH	832.59	58.21	3.66	894.46
416	Ditto 6" x 36"	EACH	903.58	67.40	4.24	975.22
417	Ditto 6" x 42"	EACH	942.31	67.40	4.24	1,013.95
418	Ditto 6" x 48"	EACH	968.13	67.40	4.24	1,039.76
419	Ditto 12" x 48"	EACH	1,135.93	88.85	5.59	1,230.37
420	Ditto 12" x 60"	EACH	1,194.56	88.85	5.59	1,288.99
421	Ditto 12" x 72"	EACH	1,245.65	101.10	6.36	1,353.11
	Coils - flanged - copper tube 1"					
	dia c/w aluminum fins 1 row - fin is					
422	12" high x 12" long	EACH	928.24	64.34	4.04	996.62
423	Ditto 12" x 24"	EACH	1,006.85	64.34	4.04	1,075.23
424	Ditto 12" x 36"	EACH	1,084.30	101.10	6.36	1,191.76
425	Ditto 12" x 48"	EACH	1,161.75	119.48	7.51	1,288.75



	2021 Division 16 - Electrical				Construct	
	Work - Union	Unit	Material	Labor	Equipt	Total
	Demolition					
	Rule of thumb estimating method					
	for demolition of existing					
	electrical scope work typically					
	falls in the 5% - 15% of the "new"					
	cost of the work being					
	demolished, therefore establish					
	the cost of installing the work					
	shown on the drawings and use a					
	value of 5% - 15%, consider any					
	monies / credits related to selling					
1	demolished material for scrap.	%				5% - 15%
	Remove existing transformers -					
2	2.5 kva	EACH	37.74	85.25	4.30	127.28
3	Ditto 5 kva	EACH	37.72	100.65	5.07	143.45
4	Ditto 10 kva	EACH	60.25	182.67	9.21	252.13
5	Ditto 25 kva	EACH	60.19	274.01	13.82	348.02
6	Ditto 50 kva	EACH	75.24	365.35	18.42	459.01
7	Ditto 75 kva	EACH	100.78	456.68	23.03	580.49
8	Ditto 100 kva	EACH	125.61	608.91	30.70	765.22
9	Ditto 250 kva	EACH	150.73	763.28	38.48	952.50
10	Ditto 500 kva	EACH	203.31	1,221.25	61.57	1,486.13
	Remove existing panel board -					
11	100 amp	EACH	24.57	152.66	7.70	184.92
	Ditto 200 amp	EACH	29.48	457.97	23.09	510.54
13	Ditto 400 amp	EACH	31.94	763.28	38.48	833.71
	Remove existing MCC - c/w					
14	housing & starters 5 HP	EACH	25.21	45.67	2.30	73.19
	Ditto 10 HP	EACH	25.12	60.89	3.07	89.08
	Ditto 25 HP	EACH	25.12	73.07	3.68	101.88
17	Ditto 50 HP	EACH	75.37	127.87	6.45	209.69
18	Ditto 75 HP	EACH	75.37	182.67	9.21	267.25
	Ditto 100 HP	EACH	75.37	213.72	10.78	299.86
20	Ditto 250 HP	EACH	125.61	305.31	15.39	446.32
21	Ditto 500 HP	EACH	127.94	549.56	27.71	705.21
	Remove existing conduit & cable			0.00		0.00
22	1" dia including supports	LF		2.68	0.14	2.82
	Ditto 2" dia	LF		3.45	0.17	3.62
24	Ditto 3" dia	LF		5.75	0.29	6.04
	Ditto 4" dia	LF		8.05	0.41	8.45
26	Ditto 6" dia	LF		10.35	0.52	10.87
1	Demote evicting ENT and dail 0					
~7	Remove existing EMT conduit &			0.00	0.40	0.40
27	cable 1" dia including supports	LF		2.03	0.10	2.13
28	Ditto 2" dia	LF		2.82	0.14	2.97
29	Ditto 4" dia	LF		4.43	0.22	4.65



	2021 Division 17 - Major Equipment - Union	Unit	Material	Labor	Constr	Total
	Air handler multi-zone 25,000 CFM	Unit	wateria	Labor	Equipt	TOLAI
	vertical - horizontal fan c/w vibration					
47	isolators	EACH	47,380.49	1,885.25	105.48	49,371.23
47	Air handler multi-zone 50,000 CFM	LAGIT	47,300.49	1,005.25	103.40	49,071.20
	vertical - horizontal fan c/w vibration					
48	isolators	EACH	85,376.58	2,796.45	156.47	88,329.50
40	Air return fans 5,000 CFM c/w	LAON	00,070.00	2,730.43	100.47	00,020.00
49	controls	EACH	3,387.84	879.78	49.23	4,316.84
10	Air return fans 10,000 CFM c/w	2, (011	0,007.01	010.10	10.20	1,010.01
50	controls	EACH	4,850.77	1,193.99	66.81	6,111.56
	Air return fans 15,000 CFM c/w		.,	.,		
51	controls	EACH	7,211.98	1,319.67	73.84	8,605.50
_	Air return fans 20,000 CFM c/w	-	,	,		
52	controls	EACH	8,764.74	1,539.62	86.15	10,390.51
	Air return fans 25,000 CFM c/w		,			
53	controls	EACH	9,810.03	1,696.72	94.94	11,601.69
	Air Conditioning Ductwork					
	Air conditioning metal ductwork -					
	includes supply and install of					
	ductwork / hangers - testing /					
	balancing - Low pressure ductwork -					
	Galv steel n/e 1,000 pounds complete					
54		POUND	2.02	10.79	1.16	13.97
	Air conditioning metal ductwork -					
	includes supply and install of					
	ductwork / hangers - testing /					
	balancing - Low pressure ductwork -					
	Galv steel n/e 1,000 pounds complete		1.00	7 74	0.00	0.00
55		POUND	1.30	7.71	0.83	9.83
	Air conditioning metal ductwork -					
	includes supply and install of ductwork / hangers - testing /					
	balancing - Low pressure ductwork -					
	Galv steel over 1,000 pounds					
56	complete project (Maximum)	POUND	1.06	8.48	0.91	10.45
	Air conditioning metal ductwork -		1.50	0.10	0.01	10.70
	includes supply and install of					
	ductwork / hangers - testing /					
	balancing - Low pressure ductwork -					
	Galv steel over 1,000 pounds					
57	complete project (Minimum)	POUND	0.92	6.16	0.66	7.74
	Air conditioning metal ductwork -					
	includes supply and install of					
	ductwork / hangers - testing /					
	balancing - Medium pressure					
	ductwork - Galv steel n/e 1,000					
59	pounds complete project (Maximum)	POUND	2.27	11.56	1.24	15.07