DIVISION 0:
Introduction and Calibration Factors, includes the following:
General introduction and retrofit and repair considerations.
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.
(8) Calibration Tables
Examples

DIVISION 00:
Cost Models / Cost Benchmarks (21 Number)
includes cost and quantity data on the following:
Retrofit and upgrade 333 # Apartments.
UK (Scotland) Facility - Refurbish existing laboratory in existing manufacturing campus.
Major Construction Activities.
Estimating Assessment Sheet.
Petro – Chemical Cost Model.
High Rise Apartment Building Cost Model.
Beverage / Candy Production Facility Cost Model.
Consumer Products Facility.
Crude Oil Distillation Complex.
EPCM Home Office Billing Rate Sheet
Power Station Cost Model.
Steel Production Cost Model.
Waste Water Treatment Cost Model.
78 # Engineering / Construction Cost Benchmarks.
Class A Office Building
UK Pharmaceutical Facility
Vaccine Facility Expansion and Modification
Food and Beverage Production Facilities
Refurbishment of Shopping Center
Revamp of Shale Gas Facility

01
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
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
DIVISION 03
Concrete Work: includes schedule of rates for:
Concrete
Formwork
Reinforcement
Precast Concrete
Grouting

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

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

DIVISION 06
Wood and Plastics: includes schedule of rates for:
Rough Carpentry
Finish Carpentry
Carpentry Specialties
07

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

08

DIVISION 08
Doors and Windows: includes schedule of rates for:
Wood and Plastic Doors
Metal Doors and Frames
Windows
Glazing / Glazed Curtain Walls
Hardware

09

DIVISION 09
Finishes: includes schedule of rates for:
Plaster and Gypsum Board
Tile
Terrazzo
Ceilings
Flooring
Wall Finishes
Acoustical Treatment
Painting and Coatings
Other items

10

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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DIVISION 11
297
Equipment: includes schedule of rates for:
- Maintenance Equipment
- Loading Dock Equipment
- Industrial and Process Equipment
- Laboratory Equipment
- Material Handling Equipment

DIVISION 12
315
Furnishings: includes schedule of rates for:
- Furniture
- Manufactured Casework

DIVISION 13
325
Special Construction: includes schedule of rates for:
- Pre-Engineered Buildings & Structures
- Radiation Protection
- Storage Tanks
- Security Access and Surveillance

DIVISION 14
339
Conveying Systems: includes schedule of rates for:
- Elevators
- Escalators and Moving Walks
- Hoists and Cranes
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

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

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

ABOUT THE FIRM
### Table 17

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<th>$M2</th>
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<th>BLDG SHELL % (B)</th>
<th>BFO % (C)</th>
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- OOM (+/- 20% Accuracy) US $ SF & M2 Cost Values:
- 2017 Cost Basis:
- Process Design by equipment vendor, Facility Design by local A&E.
- Client free issued equipment
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Pipe, Concrete non-reinforced, includes excavation, removal, and materials, stone.
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<td>1.50 - 3.00 hours</td>
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### Telephone / Communication systems

#### 901 Bench check per device
- Each: 0.50 - 0.75 hours

#### 902 Loop check
- Hour: 1.50 - 3.00 hours

### Fire Alarm (FA) systems

#### 903 Primary telephone signal terminal
- Each: 368.68
- Each: 420.11
- Each: 27.21
- Total: 816.01
- Each: 454.09
- Each: 533.22
- Each: 34.54
- Total: 1,021.85

#### 904 Ditto auxiliary terminal
- Each: 126.90
- Each: 280.15
- Each: 18.15
- Total: 425.19
- Each: 156.29
- Each: 355.57
- Each: 23.03
- Total: 534.89

#### 905 Telephone raceway PVC 2" dia
- LF: 12.78
- LF: 20.37
- LF: 1.32
- Total: 34.47
- Each: 15.74
- Each: 25.86
- Each: 187
- Total: 915.16

#### 906 Telephone riser sleeve ditto
- LF: 22.15
- LF: 28.76
- LF: 1.65
- Total: 52.78
- Each: 27.29
- Each: 36.51
- Each: 23.03
- Total: 66.16

#### 907 Telephone wall outlet
- Each: 25.21
- Each: 44.74
- Each: 2.90
- Total: 72.85
- Each: 31.04
- Each: 56.79
- Each: 3.68
- Total: 91.51

#### 908 Telephone floor outlet box
- Each: 121.48
- Each: 69.99
- Each: 4.53
- Total: 196.01
- Each: 149.62
- Each: 88.84
- Each: 5.75
- Total: 244.21

#### 909 Computer J - box
- Each: 80.92
- Each: 57.53
- Each: 3.73
- Total: 142.18
- Each: 99.67
- Each: 73.02
- Each: 4.73
- Total: 177.42

#### 910 Computer raceway PVC 2" dia
- LF: 12.78
- LF: 20.37
- LF: 1.32
- Total: 34.47
- Each: 15.74
- Each: 25.86
- Each: 187
- Total: 915.16

#### 911 Computer riser sleeve ditto
- LF: 22.15
- LF: 28.76
- LF: 1.65
- Total: 52.78
- Each: 27.29
- Each: 36.51
- Each: 23.03
- Total: 66.16

#### 912 Computer wall outlet
- Each: 28.52
- Each: 51.14
- Each: 3.31
- Total: 82.97
- Each: 35.13
- Each: 64.90
- Each: 4.20
- Total: 104.24

#### 913 Microphone wall outlet
- Each: 16.19
- Each: 49.11
- Each: 3.18
- Total: 78.48
- Each: 35.13
- Each: 64.90
- Each: 4.20
- Total: 104.24

#### 914 Microphone floor outlet
- Each: 14.68
- Each: 40.19
- Each: 2.47
- Total: 57.17
- Each: 24.76
- Each: 44.74
- Each: 2.90
- Total: 72.85

#### 915 Fire Alarm (FA) systems

### Factor #1

- Material Uplift: 1.05
- Labor Uplift: 1.30
- CE Uplift: 1.30

### Factor #2

- Material Uplift: 1.20
- Labor Uplift: 1.65
- CE Uplift: 1.65

### Total Factor #1

- Material Uplift: 1.20
- Labor Uplift: 1.65
- CE Uplift: 1.65

### Total Factor #2

- Material Uplift: 1.20
- Labor Uplift: 1.65
- CE Uplift: 1.65

### Conclusion

The document provides detailed information on material and labor uplift factors for various components of the Fire Alarm (FA) systems, as well as telecommunication systems, and includes bench and loop check hours for each component.