COMPASS
INTERNATIONAL INC.

# 2025 WORLDWIDE INDUSTRIAL/COMMERCIAL CONSTRUCTION SCHEDULE OF RATES

# DIVISION 03

## Concrete Work:

**Note:** To determine man-hours, divide labor cost by $77

| # | 2025 - Division 3 - Concrete - Union Site | Unit | Material | Labor | Construction Equipment | Total |
|---|---|---|---|---|---|---|
| | **Concrete Demolition (for additional and specific information refer to Divison 1)** | | | | | |
| 1 | Demolition and removal off site of plain concrete (Maximum) | | | | | |
| 2 | Demolition and removal off site of plain concrete (Minimum) | | | | | |
| 3 | Demolition and removal off site of reinforced concrete reinforced with small bars or with mesh (Maximum) | | | | | |
| 4 | Demolition and removal off site of reinforced concrete reinforced with small bars or with mesh (Minimum) | | | | | |
| 5 | Demolition and removal off site of reinforced concrete reinforced with large bars # 4 and larger (Maximum) | | | | | |
| 6 | Demolition and removal off site of reinforced concrete reinforced with large bars # 4 and larger (Minimum) | | | | | |
| 7 | Load and remove selected cut pieces of plain or reinforced concrete from site n/e 1 Ton | | | | | |
| 8 | Load and remove selected cut pieces of plain or reinforced concrete from site n/e 5 Ton | | | | | |
| 9 | Load and remove selected cut pieces of plain or reinforced concrete from site n/e 10 Ton | | | | | |
| 10 | 1 CY of 3,000 PSI Ready mixed concrete delivered to site by truck weighs | | | | | |
| 11 | 1 M3 of 3,000 PSI Ready mixed concrete delivered to site by truck weighs | | | | | |
| 12 | Cost to produce site concrete from site batch plant - (excludes setting up & dismantling batch plant) | | | | | |
| 13 | Ready Mix concrete truck 10 - 12 CY capacity (excludes driver) | | | | | |
| 14 | Site produced concrete 2,000 PSI 1" aggregate, excludes batch plant | | | | | |
| 15 | Site produced concrete 2,500 PSI 1" aggregate, excludes batch plant | | | | | |
| 16 | Site produced concrete 3,000 PSI 1" aggregate, excludes batch plant | | | | | |
| 17 | Site produced concrete 3,500 PSI 1" aggregate, excludes batch plant | | | | | |
| 18 | Site produced concrete 5,000 PSI 1" aggregate, excludes batch plant | | | | | |
| 19 | Purchase price of Ready Mixed Concrete 2,000 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor - based on total purchase of 200 CY and above | | | | | |
| 20 | Purchase price of Ready Mixed Concrete 2,500 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor, ditto | | | | | |
| 21 | Purchase price of Ready Mixed Concrete 3,000 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor, ditto | | | | | |
| 22 | Purchase price of Ready Mixed Concrete 3,500 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor, ditto | | | | | |
| 23 | Purchase price of Ready Mixed Concrete 4,000 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor, ditto | | | | | |
| 24 | Purchase price of Ready Mixed Concrete 5,000 PSI 1" aggregate (USA National Average) assume RMC plant is 10 miles from site - includes 4% waste factor, ditto | | | | | |

# DIVISION 08

## Doors and Windows:

**Note:** To determine man-hours, divide labor cost by $77

| # | 2025 Division 8 - Doors, Windows / Curtain Walls And Glazing: - Union | Unit | Material | Labor | Constr Equipt | Total |
|---|---|---|---|---|---|---|
| | The unit prices indicated are for purchases / quantities of 20 or more units. Add 10% - 20% to unit prices for smaller purchasers / quantities. | | | | | |
| | **Demolition Work** | | | | | |
| 1 | Take down and remove metal door 1 3/4" thick door and frame 36" x 84" high | | | | | |
| 2 | Ditto 42" x 120" high | | | | | |
| 3 | Remove 48" x 108" high steel roll up door unit | | | | | |
| 4 | Remove 36" x 48" wide window unit | | | | | |
| 5 | Remove miscellaneous louvers | | | | | |
| 6 | Remove curtain wall system | | | | | |
| | **Door Prices (Door and frame only)** | | | | | |
| 7 | 36" full light pre-finished fiberglass entry door 3" x 82" high | | | | | |
| 8 | Ditto 3/4 light pre-finished 36" x 80" high | | | | | |
| 9 | 32" 9 light steel entry door - primed | | | | | |
| | **Metal Doors & Frames** | | | | | |
| 10 | Aluminum storm door with frame & screen - 30" x 80' high - anodized finish | | | | | |
| 11 | Ditto 32" wide | | | | | |
| 12 | Ditto 36" wide | | | | | |
| 13 | Heavy duty 1 3/4 " thick - 20 g door 32" x 80" high | | | | | |
| 14 | Ditto 32" x 84" high | | | | | |
| 15 | Exterior fire rated galv metal prehung including hinges - 22 g foam core with 5" door jamb 30" x 80" high | | | | | |
| 16 | Ditto 84" high | | | | | |
| 17 | Ditto 36" x 80" high | | | | | |
| 18 | Ditto 84" high | | | | | |
| 19 | Galv metal door 36" x 84" high 18 g flush 1 3/4" thick | | | | | |
| 20 | Hollow metal 1 3/4" thick 30" x 80" high flush - 20 g - top half glass | | | | | |
| 21 | Insulated metal door 1 3/4" thick 36" x 84" 18 g | | | | | |
| 22 | Ditto 42" x 84" high | | | | | |
| 23 | Metal door - B label fire door - 20 g primed 32" x 80" high | | | | | |
| 24 | Ditto 36" x 80" | | | | | |
| 25 | Ditto 36" x 84" | | | | | |

*14.1 Division 14: Conveying Systems*

# DIVISION 14

## Conveying Systems:

**Note:** To determine man-hours, divide labor cost by $77

| # | 2025 Division 14 - Conveying Systems - Union | Unit | Material | Labor | Const Equipt | Total |
|---|---|---|---|---|---|---|
| 1 | Airport baggage carousel 20' diameter (Maximum) | | | | | |
| 2 | Airport baggage carousel 20' diameter (Minimum) | | | | | |
| 3 | Airport baggage carousel 30' diameter (Maximum) | | | | | |
| 4 | Airport baggage carousel 30' diameter (Minimum) | | | | | |
| 5 | Airport baggage system 36" wide (Maximum) | | | | | |
| 6 | Airport baggage system 36" wide (Minimum) | | | | | |
| 7 | Airport baggage system 60' long x 24' wide (Maximum) | | | | | |
| 8 | Airport baggage system 60' long x 24' wide (Minimum) | | | | | |
| 9 | Airport horizontal moving walkway 48" wide - complete system including glass side wall (Maximum) | | | | | |
| 10 | Airport horizontal moving walkway 48" wide - complete system including glass side wall (Minimum) | | | | | |
| 11 | Airport horizontal moving walkway 60" wide - complete system including glass side wall (Maximum) | | | | | |
| 12 | Airport horizontal moving walkway 60" wide - complete system including glass side wall (Minimum) | | | | | |
| 13 | Airport horizontal moving walkway 72" wide - complete system including glass side wall (Maximum) | | | | | |
| 14 | Airport horizontal moving walkway 72" wide - complete system including glass side wall (Minimum) | | | | | |
| 15 | Airport inclined (5% - 15%) moving walkway 48" wide - complete system including glass side wall (Maximum) | | | | | |
| 16 | Airport inclined (5% - 15%) moving walkway 48" wide - complete system including glass side wall (Minimum) | | | | | |
| 17 | Airport type belt - rubber - horizontal conveyor 24" wide (Maximum) | | | | | |
| 18 | Airport type belt - rubber - horizontal conveyor 24" wide (Minimum) | | | | | |
| 19 | Airport type belt - rubber - horizontal conveyor 36" wide (Maximum) | | | | | |
| 20 | Airport type belt - rubber - horizontal conveyor 36" wide (Minimum) | | | | | |
| 21 | Belt - rubber - horizontal conveyor - direction change 24" wide (Maximum) | | | | | |
| 22 | Belt - rubber - horizontal conveyor - direction change 24" wide (Minimum) | | | | | |
| 23 | Belt - rubber - horizontal conveyor - direction change 36" wide (Maximum) | | | | | |
| 24 | Belt - rubber - horizontal conveyor - direction change 36" wide (Minimum) | | | | | |
| 25 | Belt conveyor 18" wide - excludes foundations, supports and electrical hook up (Maximum) | | | | | |
| 26 | Belt conveyor 18" wide - excludes foundations, supports and electrical hook up (Minimum) | | | | | |
| 27 | Belt conveyor 24" wide - excludes foundations, supports and electrical hook up (Maximum) | | | | | |

# DIVISION 17

## Process Equipment / Major Equipment:

**Note:** To determine man-hours, divide labor cost by $77

| # | 2025 Division 17 - Major Equipment - Union | Unit | Material | Labor | Constr Equipt | Total |
|---|---|---|---|---|---|---|
| | **Agitators** | | | | | |
| 1 | Agitator / H.D. mixer direct drive clamp mounted 1 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 2 | Agitator / H.D. mixer direct drive clamp mounted 2 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 3 | Agitator / H.D. mixer direct drive clamp mounted 3 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 4 | Agitator / H.D. mixer gear driven clamp mounted 1 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 5 | Agitator / H.D. mixer gear driven clamp mounted 2 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 6 | Agitator / H.D. mixer gear driven clamp mounted 3 HP 230 v TEFC Explosion proof motor stainless steel 3/4" dia shaft 60" long with 2 # 6" propellers | | | | | |
| 7 | Agitator - including shaft / propeller / motor - top entry C.S. 1 HP (Maximum) | | | | | |
| 8 | Agitator - including shaft / propeller / motor - top entry C.S. 1 HP (Minimum) | | | | | |
| 9 | Agitator - including shaft / propeller / motor - top entry C.S. 2.5 HP (Maximum) | | | | | |
| 10 | Agitator - including shaft / propeller / motor - top entry C.S. 2.5 HP (Minimum) | | | | | |
| 11 | Agitator - including shaft / propeller / motor - top entry C.S. 5 HP (Maximum) | | | | | |
| 12 | Agitator - including shaft / propeller / motor - top entry C.S. 5 HP (Minimum) | | | | | |
| 13 | Agitator - including shaft / propeller / motor - top entry C.S. 10 HP (Maximum) | | | | | |
| 14 | Agitator - including shaft / propeller / motor - top entry C.S. 10 HP (Minimum) | | | | | |
| 15 | Agitator - including shaft / propeller / motor - top entry C.S. 25 HP (Maximum) | | | | | |
| 16 | Agitator - including shaft / propeller / motor - top entry C.S. 25 HP (Minimum) | | | | | |
| 17 | Agitator - including shaft / propeller / motor - top entry C.S. 50 HP (Maximum) | | | | | |
| 18 | Agitator - including shaft / propeller / motor - top entry C.S. 50 HP (Minimum) | | | | | |
| 19 | Agitator - including shaft / propeller / motor - side entry C.S. 1 HP (Maximum) | | | | | |
| 20 | Agitator - including shaft / propeller / motor - side entry C.S. 1 HP (Minimum) | | | | | |
| 21 | Agitator - including shaft / propeller / motor - side entry C.S. 2.5 HP (Maximum) | | | | | |
| 22 | Agitator - including shaft / propeller / motor - side entry C.S. 2.5 HP (Minimum) | | | | | |
| 23 | Agitator - including shaft / propeller / motor - side entry C.S. 5 HP (Maximum) | | | | | |
| 24 | Agitator - including shaft / propeller / motor - side entry C.S. 5 HP (Minimum) | | | | | |
| 25 | Agitator - including shaft / propeller / motor - side entry C.S. 10 HP (Maximum) | | | | | |
| 26 | Agitator - including shaft / propeller / motor - side entry C.S. 10 HP (Minimum) | | | | | |

*0.3 How to Use Location Factors*

## How to use the International Country North American Calibration / Location Factors:

**1.** Review the scope of work to be estimated.

**2.** Complete the quantity take-off of the work to be accomplished (For example: the number of doors, the length of pipe, the cubic yards of concrete, the tons of structural steel etc.).

**3.** Choose the appropriate schedule of rates / unit prices from Division 1 – 17 for the above quantities.

**4.** Multiply the quantities by the appropriate schedule of rates / unit prices from Division 1 – 17.

**5.** Translate to metric units of measure if appropriate or required.

**6.** Determine the type of construction. Is it Location Factor "A" - Refineries, Chemical Plants, Mine and Smelter type facility, Steel Mills, Power Stations, Wind Power farms, Hi -Tech Type Facilities (Pharmaceutical / Chip Manufacturing Facilities), or is it Location Factor "B" - General Construction work such as such as schools, hospitals, office buildings, hotels, shopping malls, roads, bridges, airports, marine works (jetties / piers) and warehouses?, i.e. less sophisticated construction work.

**7.** Select the calibration factor for the specific country or North American city being estimated or analyzed.

**8.** Multiply the schedule of rates / unit price line item(s) or collection of line items by the appropriate calibration factor, the resulting value should provide a preliminary cost value of the work to be performed it the selected country or in the North American city with an accuracy of perhaps +/- 10% to 15%.

**9.** 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.

**Location Factor A:** is applicable to Refineries, Chemical Plants, Mine and Smelter type facilities, Steel Mills, Automobile production and similar Manufacturing facilities, Power Stations, Wind Power facilities, Hi – End Hospital, Hi -Tech Type Buildings (Pharmaceutical / Chip Manufacturing Facilities). These facilities typically contain sophisticated manufacturing / production equipment; in addition, they require complex piping / air conditioning systems, together with highly sophisticated automated instrumentation / control and building management systems. Many times, these complex equipment items / materials and instrumentation requirements need to be procured and imported from North America, Europe or Japan / South Korea into the host country, these CAPEX projects typically are burdened with import duties, tariffs and ocean freight costs.

**Note:** In the last 10 plus years, domestic Chinese power plants and industrial facilities continue to be built at costs 20% to 40% less than other comparable international power plants and industrial facilities. Experts believe that Chinese power plants and industrial facilities are being subsidized by both central and provincial Chinese government agencies. Other issues are that they are not built to international standards and there is significantly less "red tape" with the permitting issues in China. It's important to know that the reduction cited above ends when Chinese EPC companies build power related and industrial facilities outside of China. It is also worth mentioning that Chinese construction costs have been increasing between 5% and 10% in the last 3 to 5 years. This is especially true in the eastern coastal provinces of China.

**Location Factor B:** this factor is germane to less sophisticated construction projects such as schools, hospitals, office buildings, hotels, shopping malls, roads, bridges, airports, marine works (jetties / piers) and warehouses, where there is a high percentage of locally manufactured materials and equipment incorporated into the final facility (and there is a limited or no need for imported production / manufacturing equipment and their associated automated control systems).

The impact of Covid-19 on global construction costs and productivity is still to be fully realized. The current thinking, so far, is that 2025 construction bulk materials will increase by 2% to 3% due to supply chain problems and the fall-out from the Russia-Ukraine conflict. field construction productivity is expected to decline by 5% to 25% dependent on the specific project. Durations of construction projects will increase; for example, a 12 month construction project is expected to take 14 to 16 months to complete.

## Location (Calibration) Factors

**International values compared to Washington D.C. (Base of 1.00)**

| Country | City | Location Factor A | Location Factor B |
|---|---|---|---|
| Afghanistan | | | |
| Albania | | | |
| Algeria | | | |
| Angola | | | |
| Argentina | | | |
| Armenia | | | |
| Australia | Melbourne | | |
| Australia | Perth | | |
| Australia | Sydney | | |
| Austria | | | |
| Azerbaijan | | | |
| Bahrain | | | |
| Bangladesh | | | |
| Belarus | | | |
| Belgium | | | |
| Belize | | | |
| Benin | | | |
| Bhutan | | | |
| Bolivia | | | |
| Bosnia | | | |
| Botswana | | | |
| Brasil | | | |
| Bulgaria | | | |
| Burkina Faso | | | |
| Burundi | | | |
| Cambodia | | | |
| Cameroon | | | |
| Canada | Calgary AL | | |
| Canada | Charlottetown PEI | | |
| Canada | Edmonton AL | | |
| Canada | Fort McMurray AL | | |
| Canada | Halifax NS | | |