RICHARDSON *Database for Sage*

THE RICHARDSON NAME THAT YOU HAVE TRUSTED FOR YOUR COST DATA NEEDS FOR OVER 60 YEARS

WE HAVE A NEWLY UPDATED REVISED PRODUCT FOR 2020!!!

PLEASE CONTACT US FOR A WEBEX – 'WALK THROUGH' OF THE NEWLY RELEASED RICHARDSON PROCESS PLANT CONSTRUCTION ESTIMATING LINE ITEM DATABASE DESIGNED FOR PROCESS MINDED ESTIMATORS AND ENGINEERS

Our Comprehensive database is required for accurate computerized estimating. Obtaining and maintaining a reliable database of material and equipment costs, labor productivity and subcontractor pricing is every Estimators ongoing challenge.

We at Cost Data On Line, Inc is accepts this challenge – and meets it – offering again

Richardson's Process Plant Construction Estimating Database - 193,000 Approx Line items

With your 365 day subscription to our Richardson's Process Plant Construction Estimating Database you receive the following Data

Benefits:

- Save time – Estimate immediately without creating a database
- Improve Accuracy – Complete backup provided for all line items
- Increase Confidence – Richardson Data used worldwide for over 60 years
- Regular Updates – Material Prices and man-hours updated annually

Database Licensee Information, contact Eos Group at info@eosgroup.com or call 001-602-429-0200

Here is a complete list of the data that is contained in our Database:

Account Sections Included:

GENERAL NOTES AND INSTRUCTIONS
Square Foot and Parametric Estimating
Cranes and Hoisting Equipment
Rental Equipment
Scaffolding and Shoring
Testing and Quality Assurance
SITEWORK
Clearing and Grubbing
Topsoil Stripping, Stock Piling and Replacing
Site Grading, Filling and Compacting
Site Grading
Site Grading, Filling and Compacting
Elevated Fills for Buildings Dewatering
and Shoring
Structural Excavation - Case 580 Loader-Backhoe
Structural Excavation and Backfill by Hand
Structural Excavation - Cat 225 Backhoe Structural
Excavation - Cat 235 Backhoe Structural
Excavation - Cleveland 7036 Trencher Structural
Excavation Using Cat Wheel Loaders Structural
Excavation - Rock
Loading Loose Materials - Cat Wheel Loaders
Structural Backfill and Compaction
Trench Excavation - Case 30+4 Trencher
Dump Truck Hauling and Dump Charges
Slope Protection and Brow Ditches Using Air Blown Mortar
Wood Piling
Steel "H" Piling
Precast Concrete Piling
Drilled Foundations
Polyvinyl Chloride Gravity Sewer Pipe
Cast Iron Soil Pipe
Concrete Drainage Pipe
Corrugated Metal Pipe
Vitrified Clay Pipe
Concrete Drainage Structures
Polyvinyl Chloride Pressure Pipe
High Density Polyethylene Pressure Pipe (HDPE)
Ductile Iron Pressure Pipe
A.W.W.A. Waterworks Valves and Hydrants
Flexible Transition Couplings
Cement Mortar Lining of Pipelines in Place
Asphalt Concrete Paving and Base Materials
Portland Cement Concrete Paving
Curbs, Curbs and Gutters, and Cross Gutters
Portland Cement Concrete Walks, Steps and Pads
Chain Link Fencing
Landscaping Insulating Fills on Floor and Roof Decks
Concrete Stairways
Railroad Sidings
Flagpoles, Pipe Bumpers and Metal Guard Railing
Dike Construction
Gabions and Reno Mattresses
High Density Polyethylene (HDPE) Liners
Demolition and Removals
CONCRETE
Continuous Wall Footings and Grade Beams
Continuous Footings with Integral Stem Walls
Square Footings
Slabs on Grade
Structural Mats on Grade
Round Columns and Piers Using Regular Sonoco Sonotubes
Round Columns and Piers Using Light Sonoco Sonotubes
Square Columns and Piers
Concrete Walls - Gang Formed
Curved Concrete Walls - Gang Formed
Concrete Walls - Single Waler System
Curved Concrete Walls - Single Waler System
Tilt-Up Concrete Walls
Ganged Formed Concrete Walls
One and Two Way Solid Slabs and Beams
One Way Pan-Joists
Two Way Pan-Joists Waffle Slabs
Flat Plates and Flat Slabs
One and Two Way Solid Slabs and Beams
One Way Pan-Joist
Two Way Pan-Joist Waffle Slabs
Flat Plates and Flat Slabs
Domed Concrete Tank Covers
Concrete Fills on Floor and Roof Decks
Post-Tensioned Prestressed Concrete
Plant Produced Pretensioned
Prestressed Concrete
Pile Caps and Tie Beams
Grouting Structural Steel Column Base Plates
Process Equipment Foundations
Miscellaneous Concrete Items
Concrete Embossing
MASONRY
Concrete Block Masonry
Lightweight Concrete Block
Screen Blocks
Surface Bonded Concrete Blocks
Accessory Materials
Split Face Concrete Blocks
Fluted Concrete Blocks
Slump Concrete Blocks
Glazed Concrete Blocks
"Through The Wall" Hollow Clay Units
Glass Block Partitions
Brick Masonry Units
Accessory Materials
Concrete Block Masonry - IMSI® Insulated Block Wall
Natural Stone Masonry
Split Ashlar
Round Rubble
Indiana Limestone
Marble and Granite
Acid Brick Tile Floors
Brick floors And Stairways
Hollow Unit Masonry Walls
Solid Unit Masonry Walls

Veneer and Composite Brick-Block Walls –
Miscellaneous Masonry Items

STEEL AND METAL

Round and Square Structural Steel Tube Columns
Ledger Angles
Structural Steel, Buildings and Structures
Open Web Steel Joists
Steel Trusses
Tapered Steel Girders
Steel Floor and Roof Decks
Miscellaneous Metals for Buildings
Miscellaneous Steel Items
Gratings and Stair Treads\
Process Plant Platforms, Ladders and Handrails
Pipe Supports and Pipe Racks
Overhead Condenser Supports
Man-hours for Carbon Steel Welding
Pre-Engineered Metal Buildings
Modular Relocatable Structures

CARPENTRY

Sills and Ledgers
Interior Wood Partitions
Wood Wall and Partition Framing
Columns and Posts
Floor or Flat Roof Joists
Built Up Girders and Headers
Glued Laminated Beams
Gang Nail Trusses and Pitched Roof Framing
Board Sheathing on Pitched Roofs
Plywood Sheathing
Particle Board and Hardboard Underlayment
Plank Flooring
Laminated Wood Floors on Edge
Roof Decking
Sidings, Wood, Plywood, Hardboard
Solid Wood Paneling
Hardboard Wallboards
Custom Prefinished Paneling
Wood Trim
Prefinished Custom Cabinets and Countertops

MOISTUR PROTECTION

Building Paper and Vapor Barrier
Moisture Barriers and Pargeting
Building Paper and Vapor Barrier
Moisture Barriers and Pargeting
Building Insulation
Built-Up Roofing
Roll, Shingle, Shake, Tile and Elastomeric Roofing
Single Ply Roofing
Preformed Metal Roofing and Siding
Sheet Metal Roofing on Pitched Roofs
Flashing and Sheet Metal
Roof Hatches and Heat & Smoke Vents
Skylights
Caulks and Sealants
Firestop Compounds

DOORS & WINDOWS

Steel Access Doors
Steel Door Frames
Wood Door Frames
Hollow Metal Doors
Wood Doors
Fiberglass Faced Entrance Doors
Entrance Doors
Laminated Plastic Clad Doors
Builders Hardware
Prehung Doors
Wood Folding Doors
Folding and Bypass Closet Doors
Aluminum Framed Sliding Glass Doors
Aluminum Framed Mirrored Closet Doors
Sliding Wood Framed Doors
Roll-Up and Sectional Overhead Doors
Garage Doors
Wood Window Units
Sliding Aluminum Windows
Fixed Glazing
Aluminum Framed Entrance Doors and Storefronts
Aluminum and Steel Window Walls and Curtain Walls

FINISHES

Non-Bearing Steel Studs and Suspended Furring for Gypsum Wallboard (Drywall)
Load-Bearing Steel Stud Walls
Gypsum Wallboard (Drywall)
Metal Furring, Lath and Plaster Interior and Exterior
Fireproofing of Structural Steel
Dryvit® Outsulation® System
Acoustical and Integrated Ceiling
Ceramic Tile, Quarry Tile and Terrazzo
Hardwood Floors
Seamless Floors and Wainscoting
Resilient Flooring
Carpet Floor Covering
Painting
Preparation and Protective Coatings for Metal Surfaces
Vacuum Blasting Surface Preparation for Metal Surfaces
Wall Coverings
Wall Systems - RAPIDS

SPECIALITIES

Gypsum Partitions and Shaft Walls
Laminated Partitions
Toilet Partitions and Toilet Room Accessories
Wire Mesh Partitions
Vinyl Fabric and Vinyl-Clad Folding Partitions
Portable Partitions
Operable Walls
Access Floor Systems
Metal Lockers
Linen/Trash Chutes and Compactors
Air Curtains
Hydraulic Dock Levelers, Lifts, Shelters and Bumpers
Dumbwaiters and Elevators
Moving Walkways and Escalators

MECHANICAL

Water Chillers
Cooling Towers for Water Chillers

Pumps for Water Chillers
Heating and Cooling Units - Roof Mounted And Through The Wall Type
Unit Heaters and Forced Air Furnace/Cooling Units
Boilers, Circulating Booster Pumps and Convectors
Tanks, Tank Heaters and Instantaneous Heaters
Air Handling Units
Ductwork and Accessories
Insulation for HVAC Equipment and Ductwork
Air Conditioning Control Systems
Air Balancing
Water Closets
Lavatories
Urinals
Bathtubs
Integral Bathtub/Shower and Wall Surrounds
Kitchen Sinks and Garbage Disposal Units
Service Sinks
Wash Sinks
Wash Fountains
Emergency Showers and Eye-Wash Fountains
Drinking Water Fountains
Floor Drains
Floor Sinks
Interceptors, Separators and Backwater Valves
Water Heaters
Vent Through Roof and Clean Outs
Plumbing Fixtures - Rapid Estimating System
Roof Drains and Rain Leaders
Copper Piping Systems
Red Brass Piping Systems
Cast Iron Drain, Waste and Vent Piping Systems
A-120 Steel Piping Systems
Victaulic® Pressfit® Carbon Steel Piping
Victaulic® Pressfit® Type 316 Stainless Steel Piping System
Grooved End A-106 Carbon Steel Piping
CPVC Plastic Piping Systems
Polypropylene Drain, Waste and Vent Piping Systems
PVC Drain, Waste and Vent Piping Systems
ABS Drain, Waste and Vent Piping Systems
Flanged Cast Iron Cement Lined Piping Systems
A-106 Carbon Steel Piping Systems
A-53 Carbon Steel Piping Systems - Shop Fab
A-53 Carbon Steel Piping Systems - Field Fab
Carbon Steel Piping Systems, Large Diameter - Field Fabricated
Aluminum Piping Systems
Stainless Steel Piping Systems
Flanged Plastic Lined Piping Systems
PVDF (Kynar) ™ Plastic Piping Systems
Fiberglass Reinforced Piping Systems (RTRP)
High Density Polyethylene (HDPE) Compressed Air Service Piping
Self-Contained Regulating Valves and Back Flow Preventers
Control Valves
Liquid Level and Pressure Gauges
Tank Level Gauging Devices
Measurement Elements
Safety Relief Valves
Flow Instruments, Pneumatic and Electronic, Local Mounted
Liquid Level Instruments, Pneumatic and Electronic, Local Mounted
Pressure Instruments, Pneumatic and Electronic, Local Mounted
Temperature Instruments, Pneumatic and Electronic, Local Mounted
Distributed Control Systems (DCS)
Honeywell Instruments
Instrument Control Panels and Instruments
Control Panel Installation
Instrument Piping
Piping Assemblies for Liquid Level Instruments
Stainless Steel Tubing Systems
Expansion Joints and Flexible Pump Connectors
Steam Tracing
Steam Traps and Strainers
Bolts and Gaskets
Sample Coolers
Hot Taps
X-Ray of Buttwelds
Cement Mortar Lining and Coating of Carbon Steel Pipe
Pipe Hangers and Supports
Fire Hose Racks, Fire Extinguishers and Accessories
Insulation on Hot and Cold Service Piping
Insulation on Cold Process Piping and Process Equipment
Insulation on Hot Process Piping and Process Equipment
FOAMGLAS Insulation
KOOLPHEN K Phenolic Foam Insulation
Steam Trap Assemblies
Air Conditioning, Heating And Ventilating Systems - Installed Costs
Plumbing Fixtures - Total Installed Costs
Fire Protection Systems - Total Installed Costs

ELECTRICAL

Galvanized Rigid Steel Conduit Systems
PVC Coated Galvanized Rigid Steel Conduit Systems
Rigid Aluminum Conduit Systems
Electrical Metallic Tubing (EMT) Thinwall Conduit Systems
PVC Plastic Rigid Conduit Systems
Underground Plastic Utility Duct Systems
Sealtite Conduit Systems
Cable Tray and Accessories
Wireway Gutter and Accessories
Steel Underfloor Duct Systems
Service Entrance Caps, Ells, Capped Ells, and Ground Rods
Hazardous Area Elbows, Pulling Ells, Unions, Flexible Couplings
Junction Boxes, Sealing Fittings, Drains and Breathers
Conduit Hangers and Supports
Wire and Cable
Armored/Metal Clad Cable
Armored Flexible Cable (BX) and Terminations
Electronic Instrument Wire and Cable
Armored Electronic Instrument Cable
Thermocouple Extension Wire and Cable
Armored Thermocouple Cable

Non-Metallic Sheathed Cable (ROMEX) and Terminations
Enclosures and Junction Boxes
Feeder Bus Duct and Accessories
Plug-In Bus Duct and Accessories
Trolley Duct and Accessories
Metal Clad Switchgear
Service Entrance and Distribution Switchboards
Transformers
Circuit Breaker Distribution Panelboards
Panelboards/Loadcenters/Sub-Panels in Hazardous Areas
Panelboards/Loadcenters/Sub-Panels - General Purpose
Safety Switches
Circuit Breakers
Motor Starters
Meter Panels
Motor Control Centers
Control Stations (Pushbuttons and Pilot Lights)
Terminal Blocks
Ground Fault Protection System
Convenience Outlets and Toggle Switches
Lighting Fixtures General Purpose
Lighting Fixtures Vaportight and Explosion Proof
Outdoor Floodlights and Floodlight Poles
Audible Signal Devices Explosion Proof
Grounding Systems
Power Line Poles and Power Line Transmission Wire
Electric Heat Tracing Systems
Circuit Feeders - RAPIDS
Branch Circuits with Convenience Outlets - RAPIDS
Branch Circuits with Toggle Switches - RAPIDS
Branch Circuits for Lighting - RAPIDS
480 Volt Motor Feeders - RAPIDS
Electrical Systems for HVAC - Total Installed Costs
Electrical Wiring and Fixtures - Total Installed Costs

PROCESS EQUIPMENT

Radiant Heat Cable - Total Installed Costs
Troughed Belt Conveyors
Bucket Elevators
Screw Conveyors
Tube-Flo Conveyors
Multi-Flo Conveyors
Twin Rotor Impactors
Ring-Type Granulators
Gravity Impact Crushers
Hammermills
Reversible Impactors
Single Roll Crushers
Single Roll Frozen Coal Crackers
Bin Activators
Vibrating Feeders
Pressure Sifters
Rotary Screens
Turbo-Screen Classifiers
Vibrating Packers
Industrial Fans
Positive Displacement Air Blowers
Gas Scrubbers
Cyclone Collectors
Centrifugal Scrubbers
Filter Cartridge Dust Collectors
Bag House Dust Collectors
Feeder Valves
Portable Mixers
Gearmotor Mixers
High Speed Dispersion Mixers
Chemical Mixer/Feeder Packaged Units
Liquid Polymer Blender
Pipeline Homogenizer-Mixers
Batch Homogenizer-Mixers
Rotary Flask Agitators
Liquid Clarifiers
Vibrating Separators
Lab Separators
Rubber Lined Filters
Vane-Type Separators
White Water Filters
Drum Dryers
Rotary Vacuum Dryers
Conical Rotating Vacuum Dryers
Cooling Drum Flakers
Packaged Boilers
Deaerating Feedwater Heaters
Steel Stacks for Boilers
Tank Heating Coils
Fired Tank Immersion Heaters
Fuel Oil Heaters
Hairpin Type Heat Exchangers
Heat Exchangers for Heating Water
TEMA R Shell and Tube Heat Exchangers
Vertical Tube Surface Condensers and Receivers
Acid Coolers
Process Plant Cooling Towers
Inert Gas Generators
Reciprocating Air Compressors
Rotary Screw Air Compressors
Breathable Air Compressors
Centrifugal Air Compressors
Integral Gas Engine Compressors
Air Receivers/Gas Pulsation Dampeners
Refrigerated Air Dryers
Chiller Air Dryers
Air Dryers, Desiccant Type, 2 To 50 SCFM
Air Dryers, Desiccant Type, 50 to 1600 SCFM
Air Dryers, Desiccant Type, 1900 To 9600 SCFM
Air Dryer Prefilters, Afterfilters and Automatic Drain Valves
Centrifugal Pumps, Single Stage, Vertical Split Case
Centrifugal Pumps, Single Stage, Horizontal Split Case
Centrifugal Pumps, Single Stage, ANSI
Centrifugal Pumps, Single Stage, API 610
Centrifugal Pumps, Two Stage, Horizontal Split Case
Centrifugal Pumps, Multi-Stage, Radially Split Case
Centrifugal Pumps, Single Stage, In-Line
Centrifugal Pumps, Single Stage, In-Line, API 610
Turbine Pumps, Vertical, Single and Multi-Stage
Sump Pumps
Plunger Pumps

Sewage Pumps, Horizontal
Sewage Pumps, Vertical
Chemical Metering Pumps
Surge Suppressors
High Vacuum Pumps
Two-Stage Mechanical Vacuum Pumps
Multi-Stage Mechanical Booster Vacuum Pumps
Vacuum Booster Pumps
Hot Vacuum Pumps
Rotary Vane Vacuum Pumps
Vacuum Pump Accessories
Ejectors
Instructions for Using Pressure Vessel Fabrication Data
ASME Section VIII Pressure Vessel Shells & SE Heads
Wear Plates & Saddles for Horizontal Vessels
Angle Legs for Vertical Vessels
Skirts for Vertical Vessels
Coupling Nozzles
Buttweld Flange Type Nozzles
Long Weld Neck Type Nozzles
Nozzle Extensions and Internal Piping
Drip Legs
Baffles, Draw-Off Boxes, Vortex Breakers and Ladder Rungs
Tray Rings for Removable Trays
Shop Installation of Trays in Columns
Shop Installation of Demisting Pads
Insulation Supports and Vacuum Stiffeners
Ladder, Platform and Pipe Support Clips, Lifting Lugs and Davits
Stress Relief
Shop Costs, Engineering and Administrative Costs
Removable Type Trays
Demisting Pads
ASME Spheres
Glass Lined Reactors
API Cone Roof Storage Tanks
Installation of Pressure Vessels
Propane Storage Tanks, ASME 250 PSI
Gravimetric Feeders
Volumetric Feeders
Wing-Type and Conveyor-Type Feeders
Pre-Wetting Dry Chemical Feeders
Vibrating Screens
Full-Flow Rectangular Separator
Centrifugal Sifter
API Floating Roof Storage Tanks
Concrete Silos
Hot Process Water Softener Systems
Gravity Filtration Units
High Speed Mechanical Surface Aerators
Floating Spray Coolers
Comminutors
Wastewater Stationary Screening
Wastewater Clarifier/Interceptors
Clarifier-Reactivators
Wastewater Chlorinators
High Capacity Chlorinators and Sulfonators
API Type Oil/Water Separators
Oil/Water Coalesce
Coalescing Filters
Oil Skimmers
Sludge Level Control Systems
Sludge Density Controllers
Nitric Oxide Analyzers
Hydrocarbon Analyzers
Automatic Liquid Samplers
Infrared Analyzers
Density Measuring Systems
Electric Hoists
Overhead Traveling Bridge Cranes
Motor Truck Scales
Railroad Track Scales
Tank and Hopper Scales
Self-Contained Low Profile Platform Scales
Bench and Portable Scales
Generator Sets
Small Motors
Medium Size Motors
Large AC Motors
Gearing Products
Horizontal Gearmotors
Concentric Shaft Speed Reducers
Flexible Couplings
Steam Turbines
Shaft Alignment
Freight Rates for Process Equ