

2024 OHFA EUL TABLE

Note: this table is sorted by [CSI Divisions](#) with assemblies and parts grouped within the divisions. Each Division corresponds with the format of the OHFA Scope of Work (SoW) excel form.

Any materials used in OHFA projects (New or rehab) must be in the table to be used in OHFA projects. This includes existing items to remain.

Division	Section	Assembly	Description	Family	Senior
Division 3			Concrete		
	3-A		Framing		
		3-A-i	Reinforced concrete	100	100
	3-B		Exterior Stairs & Railings		
		3-B-i	Exterior Stairs, Concrete	50	50
	3-C		Balcony/Porch/Canopy		
		3-B-ii	Balcony/Porch, concrete	40	40
		3-B-iv	Canopy, Concrete	50	50
	3-D		Foundation		
		3-A-i	Slab, reinforced concrete	100	100
		3-A-ii	Slab, post tensioned	100	100
		3-A-iii	Continuous reinforced concrete footer and CMU stem wall	100	100
		3-A-iv	Piers, reinforced concrete footer and CMU pier	100	100
Division 4			Masonry		
	4-A		Framing		
		4-A-i	Reinforced masonry, concrete masonry units (CMUs)	100	100
		4-A-ii	Solid Masonry (obsolete)	100	100
Division 5			Metals		
	5-A		Framing		
		5-A-i	Tie downs, clips, braces, straps, hangers, shear walls/panels	75	75
		5-A-ii	Steel, beams, trusses	100	100
		5-A-iii	Steel frame and sheet metal or insulated panel sheathing	100	100
	5-B		Exterior Stairs & Railings		
		5-B-i	Exterior Stairs-steel frame/stringer	40	40
		5-B-ii	Exterior Stair Tread-metal, concrete filled	20	20
		5-B-iii	Fire escapes, metal	50	50
		5-B-iv	Railings, metal	50	50
	5-C		Balcony/Porch/Canopy		
		5-C-i	Balcony/Porch, steel frame	40	40
		5-C-ii	Canopy, Metal	40	40
	5-D		Foundation		
	5-E		Interior Metal Stairs & Railings		
		5-E-i	Interior Stairs	50	50
		5-E-ii	Interior Stair and loft railings	15	25
Division 6			Wood, Plastics, and Composites		
	6-A		Framing		
		6-A-i	Wood, timbers, dimensioned lumber, laminated beams, trusses	100	100
		6-A-ii	Roof wood frame and board or plywood sheathing	75	75

Division	Section	Assembly	Description	Family	Senior
	6-B		Exterior Stairs and Railings		
		6-B-i	Exterior Stairs, wood frame/stringer	30	30
		6-B-i	Exterior Stair Tread-wood	15	15
		6-B-i	Railings, wood	20	20
		6-B-i	Railings, composite	50	50
	6-C		Balcony/Porch/Canopy		
		6-C-i	Wood decking	20	20
		6-C-ii	Composite decking	50	50
		6-C-iii	Balcony/Porch, wood frame	25	25
		6-C-iv	Canopy, Wood	40	40
	6-D		Foundation		
		6-D-i	Piers, treated timber post/pole	40	40
	6-E		Interior Stairs and Railings		
		6-E-i	Interior wood Stairs	50	50
		6-E-ii	Stair and loft railings	15	25
Division 7			Thermal & Moisture Protection		
	7-A		Flashing & Moisture Protection		
		7-A-i	Foundation Waterproofing	40	40
		7-A-ii	Caulking and Sealing	15	15
		7-A-iii	Concrete/Masonry Sealants	10	10
		7-A-iv	Wood waterproofing and sealants	10	10
		7-A-v	Building wraps & moisture resistant barriers	50	50
		7-A-vi	Paints and stains, exterior	8	8
	7-B		Sloped Roofs		
		7-B-i	Asphalt Shingle	30	30
		7-B-ii	Metal	50	50
		7-B-iii	Slate shingle	75	75
		7-B-iv	Clay/cementitious barrel tile	60	60
		7-B-v	Wood Shingle, Cedar Shakes/Shingles	25	25
	7-C		Low Slope/Flat Roofs		
		7-C-i	Low slope-Built-up Roof, with gravel finish	20	20
		7-C-ii	Low slope-Built-up Roof, no mineral or gravel finish	10	10
		7-C-iii	Low slope-Adhered rubber membrane, (EPDM)	15	15
		7-C-iv	Low slope-Thermoplastic membrane, (TPO, vinyl)	15	15
		7-C-v	Low slope-Rubberized/elastomeric white/cool roof	15	15
	7-D		Roof Drainage, Trim & Accessories		
		7-D-i	Gutters/Downspouts, aluminum	20	20
		7-D-ii	Gutters/Downspouts, copper	50	50
		7-D-iii	Low slope-roof drains, scuppers	30	30
		7-D-iv	Soffits, Wood, Vinyl, Metal	20	20
		7-D-v	Fascia, Wood, Vinyl	20	20
		7-D-vi	Roof Hatch	30	30
		7-D-vii	Service Door	30	30

Division	Section	Assembly	Description	Family	Senior
		7-D-viii	Roof Skylight	30	30
	7-E		Attics & Eaves		
		7-E-i	Screened gable end or soffit Vents	30	30
		7-E-ii	Roof vents, passive	40	40
		7-E-iii	Roof Vents, powered	20	20
	7-F		Crawl Spaces, Envelope Penetrations		
		7-F-i	Sealed crawl space system	40	40
		7-F-ii	Vents, screens, covers	30	30
		7-F-iii	Vapor Barrier (VDR) ground or underfloor	30	30
		7-F-iv	Penetrations, caulking/sealing	15	15
	7-G		Insulation		
		7-G-i	Loose fill, fibre glass, cellulose, mineral wool	50	50
		7-G-ii	Batts, blankets, rolls, fibre glass or mineral wool	60	60
		7-G-iii	Rigid foam board	60	60
		7-G-iv	Sprayed foam	60	60
	7-H		Façades, Curtainwall, or Sidewall System		
		7-H-i	Aluminum Siding	40	40
		7-H-ii	Vinyl Siding	25	25
		7-H-iii	Cement Board Siding	45	45
		7-H-iv	Plywood/Laminated Panels	20	20
		7-H-v	Stucco, over wire mesh/lath	50	50
		7-H-vi	Metal/Glass Curtain Wall	40	40
		7-H-vii	Precast Concrete Panel (tilt-up)	60	60
		7-H-viii	Brick/block veneer	60	60
		7-H-ix	Stone Veneer	50	50
		7-H-x	Glass Block	50	50
		7-H-xi	Cedar/Redwood shakes, clapboard	50	50
		7-H-xii	Pine board, clapboard	50	50
Division 8			Openings		
	8-A		Exterior Doors & Entry Systems		
		8-A-i	Unit Entry Door, Exterior, solid wood/metal clad	25	30
		8-A-ii	Common Exterior Door, aluminum and glass	30	30
		8-A-iii	Common Exterior Door, solid wood /metal clad	25	25
		8-A-iv	Storm/Screen Doors	5	10
		8-A-v	Sliding Glass Doors	25	30
		8-A-vi	French or Atrium Doors, wood/metal clad	25	30
		8-A-vii	Automatic Entry Doors	30	30
		8-A-viii	Commercial Entry Systems	50	50
		8-A-ix	Overhead Door	30	30
		8-A-x	Automatic Opener, overhead door	20	20
	8-B		Windows		
		8-B-i	Wood, (dbl, sgl hung, casement, awning, sliders)	35	45
		8-B-ii	Wood, fixed pane, picture	40	45

Division	Section	Assembly	Description	Family	Senior
		8-B-iii	Aluminum	35	40
		8-B-iv	Vinyl	30	30
		8-B-v	Vinyl/Alum Clad Wood	50	50
		8-B-vi	Storm/Screen Windows	7	15
	8-C		Interior Doors		
		8-C-i	Interior, hollow core doors	20	25
		8-C-ii	Interior doors, solid core, wood, metal clad, fire rated	30	35
		8-C-iii	Door trim	20	30
		8-C-iv	Wall trim (base, chair rail, crown moldings)	30	35
		8-C-v	Passage & lock sets	15	20
		8-C-vi	Bifold & sliding doors	15	20
Division 9			Finishes		
	9-A		Interior finished walls, ceilings, floors - (Common Areas & Dwelling Units)		
		9-A-i	Drywall	35	40
		9-A-ii	Plaster	50	50
		9-A-iii	Paints, stains, clear finishes, interior	15	20
		9-A-iv	Wallpapers	15	20
		9-A-v	Wall tile, ceramic, glass, natural stone	35	50
		9-A-vi	Floor tile, ceramic, natural stone	40	50
		9-A-vii	Concrete/Masonry/Terrazo	75	75
		9-A-viii	Hardwood floor (3/4" strip or parquet)	50	50
		9-A-ix	Wood floor, laminated/veneered	20	25
		9-A-x	Resilient tile or sheet floor (vinyl, linoleum)	15	20
		9-A-xi	Carpet	6	10
		9-A-xii	Acoustic tile/drop ceiling	15	20
Division 10			Specialties		
	10-A		Mailboxes & Postal Equipment		
		10-A-i	Interior Mail Facility	20	25
	10-B		Storage Accessories		
		10-B-i	Closet/storage specialties, shelving	20	25
		10-B-ii	Mirrors & medicine cabinets	20	25
		10-B-iii	Bath accessories (towel bars, grab bars, etc)	7	12
Division 11			Equipment		
	11-A		Appliances		
		11-A-i	Refrigerator/freezer	15	15
		11-A-ii	Range, cook top, wall oven	20	25
		11-A-iii	Range hood	20	25
		11-A-iv	Microwave	10	10
		11-A-v	Disposal (food waste)	7	10
		11-A-vi	Compactors (interior, residential grade)	7	10
		11-A-vii	Dishwasher	10	15
		11-A-viii	Clothes washer/dryer	10	15
		11-A-ix	Ceiling fans	15	15

Division	Section	Assembly	Description	Family	Senior
Division 12			Furnishings & Casework		
	12-A		Windows		
		12-A-i	Window treatments, drapery rods, shades, blinds, etc	15	25
	12-B		Amenities/ Common Areas		
		12-B-i	Indoor recreation and fitness equipment	10	15
		12-B-ii	Seating for entertainment centers	15	25
	12-C		Kitchen & Baths		
		12-C-i	Cabinets & vanities	20	25
	12-D		Counter Tops		
		12-D-i	engineered stone	50	50
		12-D-ii	solid surface, stainless steel	40	50
		12-D-iii	plastic laminates, wood	15	25
		12-D-iv	Vanity tops, cultured marble, molded acrylic, fiberglass	25	35
Division 14			Conveying Equipment		
	14-A		Elevators/ Escalators		
		14-A-i	Electrical switchgear	50	50
		14-A-ii	Electrical wiring	30	30
		14-A-iii	Elevator controller, call, dispatch, emergency	10	20
		14-A-iv	Elevator cab, interior finish	10	20
		14-A-v	Elevator cab, frame	35	50
		14-A-vi	Elevator, machinery	20	30
		14-A-vii	Elevator, shaftway doors	10	20
		14-A-viii	Elevator, shaftway hoist rails, cables, traveling	20	25
		14-A-ix	Elevator, shaftway hydraulic piston and leveling	20	25
		14-A-x	Escalators	50	50
Division 21			Fire Suppression		
	21-A		Sprinklers and Standpipes		
		21-A-i	Building fire suppression sprinklers, standpipes	50	50
		21-A-ii	Fire pumps	20	20
		21-A-iii	Fire hose stations	50	50
		21-A-iv	Fire extinguishers	10	15
Division 22			Plumbing		
	22-A		Water Supply and Waste Piping		
		22-A-i	PVC/CPVC pipe, supply and waste	75	75
		22-A-ii	Copper/brass hard pipe, supply	75	75
		22-A-iii	Copper Tube, supply	50	50
		22-A-iv	Galvanized pipe, supply	40	40
		22-A-v	Cast iron sanitary waste	75	75
		22-A-vi	Domestic Cold Water Pumps	20	20
		22-A-vii	Sewage Ejectors	50	50
		22-A-viii	Commercial Sump Pump	20	20
		22-A-ix	Residential Sump Pump	15	15
		22-A-x	Water Softener/Filtration	15	15

Division	Section	Assembly	Description	Family	Senior
	22-B		Domestic Water Heating		
		22-B-i	DHW circulating pumps	15	15
		22-B-ii	DHW storage tanks	15	15
		22-B-iii	Exchanger, in tank or boiler	15	15
		22-B-iv	External tankless heater, gas or electric	20	20
		22-B-v	Solar hot water	20	20
		22-B-vi	Residential hot water heater, gas or electric	12	15
		22-B-vi	Flue, gas water heaters	35	35
	22-C		Fixtures		
		22-C-i	Faucets & valves	15	20
		22-C-ii	Bathtubs & sinks: cast iron	75	75
		22-C-iii	Bathtubs & sinks: enameled or stainless steel, fiberglass	40	40
		22-C-iv	Bathtubs & sinks: porcelain	50	50
		22-C-v	Toilets/bidets/urinals	40	40
		22-C-vi	Flush valves	10	15
		22-C-vii	Tub/shower units or integrated assemblies	30	30
Division 23			HVAC		
	23-A		Centralized Heating/Cooling Equipment		
		23-A-i	Boilers, Oil Fired, Sectional	25	25
		23-A-ii	Boilers, Gas/Dual Fuel, Sectional	25	25
		23-A-iii	Boilers, Gas/Dual Fuel, Low MBH	30	30
		23-A-iv	Boilers, Gas/Dual Fuel, High MBH	40	40
		23-A-v	Boilers, Gas Fired Atmospheric	25	25
		23-A-vi	Boilers, Electric	20	20
		23-A-vii	Boiler Blowdown and Water Treatment	25	25
		23-A-viii	Boiler Room Pipe Insulation	25	25
		23-A-ix	Boiler Room Piping	50	50
		23-A-x	Boiler Room Valves	25	25
		23-A-xi	Boiler Temperature Controls	15	15
		23-A-xii	Heat Exchanger	35	35
		23-A-xiii	Combustion Air, Duct with Fixed Louvers	30	30
		23-A-xiv	Combustion Air, Motor Louvers and Duct	25	25
		23-A-xv	Combustion Waste Flue	40	40
		23-A-xvi	Cooling tower	25	25
		23-A-xvii	Chilling plant	20	20
		23-A-xviii	Steam supply station	50	50
		23-A-xix	Free standing chimney	50	50
	23-B		Centralized Heat/Air/Fuel Distribution		
		23-B-i	Fuel oil/propane storage tanks	40	40
		23-B-ii	Remediate/remove abandoned tanks/fuel lines	100	100
		23-B-iii	Fuel transfer system	25	25
		23-B-iv	Gas/oil distribution lines	50	50
		23-B-v	Gas meter	40	40

Division	Section	Assembly	Description	Family	Senior
		23-B-vi	2 pipe/4 pipe hydronic distribution-above grade	50	50
		23-B-vii	2 pipe/4 pipe hydronic distribution-in ground	25	25
		23-B-viii	Hydronic/Water Circulating Pumps	20	20
		23-B-ix	Hydronic/Water Controller	20	20
		23-B-x	Radiation-steam/hydronic (baseboard or freestanding radiator)	50	50
		23-B-xi	Fan Coil Unit, Hydronic	30	30
		23-B-xii	Central exhaust fans/blowers	20	20
	23-C		Decentralized and Split HVAC Systems (Dwelling/Common Area)		
		23-C-i	Electric heat pump, condenser, pad or rooftop	15	15
		23-C-ii	Electric AC condenser, pad or rooftop	15	15
		23-C-iii	Electric furnace/air handler	20	20
		23-C-iv	Gas furnace/air handler	20	20
		23-C-v	Hydronic heat/electric AC air handler	25	25
		23-C-vi	Hydronic feed electric heat pump/air handler	25	25
		23-C-vii	Wall mounted electric/gas heater	25	25
		23-C-viii	Electric baseboard heater	30	30
		23-C-ix	PTAC Thruwall (packaged terminal air conditioning)	15	15
		23-C-x	Window or thru-wall air conditioners	10	10
		23-C-xi	Package HVAC roof top	15	15
		23-C-xii	Air filtration/humidity control devices (humidifiers, HRV's)	20	20
		23-C-xiii	Duct, rigid sheet metal, insulated if not in conditioned space	35	35
		23-C-xiv	Duct, flexible, insulated	20	20
		23-C-xv	Duct, sealing-mastic or UL 181A or 181B tape.	20	20
		23-C-xvi	Diffusers, registers	20	20
		23-C-xvii	Fireplace, masonry & firebrick, masonry chimney	75	75
		23-C-xviii	Fireplace, factory assembled	35	35
		23-C-xix	Fireplace insert, stove	50	50
		23-C-xx	Chimneys, metal, and chimney covers	35	35
	23-D		HVAC Controls		
		23-D-i	Dwelling/common area thermostat	15	20
		23-D-ii	Heat sensors	15	15
		23-D-iii	Outdoor temperature sensor	10	10
	23-E		Exhaust and Fans		
		23-E-i	Bath/kitchen vent/exhaust fans	15	15
Division 26			Electrical (Building)		
	26-A		Electric Service & Metering		
		26-A-i	Building service panel	50	50
		26-A-i	Building meter	40	40
		26-A-i	Tenant meters, meter panel	40	40
	26-B		Electrical Distribution		
		26-B-i	Tenant electrical panel	50	50
		26-B-ii	Unit/building wiring	50	50

Division	Section	Assembly	Description	Family	Senior
	26-C		Electric Lighting & Fixtures		
		26-C-i	Switches & outlets	35	35
		26-C-ii	Lighting - exterior entry	15	20
		26-C-iii	Lighting- interior common space	25	30
		26-C-iv	Lighting - Tenant Spaces	20	25
		26-C-v	Doorbells, chimes	20	25
Division 27			Communications		
	27-A		Telecommunications Equipment		
		27-A-i	Satellite dishes/antennae	20	20
		27-A-ii	Telecom panels & controls	20	20
		27-A-iii	Telecom cabling & outlets	20	20
	27-B		Integrated Audio-Video Systems and Equipment for Theaters		
		27-B-i	Theater projection for Entertainment centers	15	25
Division 28			Electronic Safety and Security		
	28-A		Alarm, Security & Emergency Systems		
		28-A-i	Tenant space alarm systems	10	15
		28-A-ii	Residential smoke detectors	5	7
		28-A-iii	Call station	10	15
		28-A-iv	Emergency/auxiliary generator	25	25
		28-A-v	Emergency/auxiliary fuel storage tank	25	25
		28-A-vi	Emergency lights, illuminated signs	5	10
		28-A-vii	Smoke and fire detection system, central panel	15	15
		28-A-viii	Buzzer/intercom, central panel	20	20
		28-A-ix	Tenant buzzer / intercom /secured entry system	20	20
	28-B		Other Systems		
		27-B-i	Pneumatic Lines and Controls	30	30
		27-B-ii	Auto-securing doors/entries/lock down	30	30
Division 31			Earthwork		
	31-A		Storm Water Drainage		
		31-A-i	Catch basins, inlets, culverts	50	50
		31-A-ii	Marine or stormwater bulkhead	35	35
		31-A-iii	Earthwork, swales, drainways, erosion controls	50	50
		31-A-iv	Storm drain lines	50	50
		31-A-v	Stormwater management ponds	50	50
		31-A-vi	Fountains, pond aerators	15	15
	31-B		Access and Egress		
		31-B-i	Security gate - lift arm	10	10
		31-B-ii	Security gate - rolling gate	15	15
	31-C		Site Utilities-Water		
		31-C-i	Water Mains/Valves	50	50
		31-C-ii	Water Tower	50	50
		31-C-iii	Irrigation System	25	25
	31-D		Radon Systems		

Division	Section	Assembly	Description	Family	Senior
		31-D-i	Foundation suction, drainage, moisture or radon gas controls/alarms	10	10
		31-D-ii	Crawl space, (de)pressurization, fans, pumps, radon gas alarms	10	10
Division 32			Exterior Improvements		
	32-A		Paving, Curbing and Parking		
		32-A-i	Asphalt Pavement	25	25
		32-A-ii	Asphalt Seal Coat	5	5
		32-A-iii	Concrete Pavement	50	50
		32-A-iv	Curbing, Asphalt	25	25
		32-A-v	Curbing, Concrete	50	50
		32-A-vi	Parking, Gravel Surfaced	15	15
		32-A-vii	Permeable Paving Systems (brick, concrete pavers)	30	30
		32-A-viii	Striping and Marking	15	15
		32-A-ix	Signage, Roadway / Parking	15	15
		32-A-x	Carports, wood frame	30	30
		32-A-xi	Carports, metal frame	40	40
	32-B		Flatwork (walks, plazas, terraces, patios)		
		32-B-i	Asphalt	25	25
		32-B-ii	Concrete	50	50
		32-B-iii	Gravel	15	15
		32-B-iv	Permeable Paving (brick, concrete pavers)	30	30
	32-C		Landscaping and Appurtenances		
		32-C-i	Fencing, chain-link	40	40
		32-C-ii	Fencing, wood picket	15	20
		32-C-iii	Fencing, wood board (=>1"x 6")	20	25
		32-C-iv	Fencing, wrought Iron	60	60
		32-C-v	Fencing, steel or aluminum	20	25
		32-C-vi	Fencing, concrete Masonry unit (CMU)	30	30
		32-C-vii	Fencing, PVC	15	20
		32-C-viii	Signage, Entrance/Monument	25	25
		32-C-ix	Mail Kiosk	15	20
		32-C-x	Retaining Walls, heavy block (50-80 lb)	60	60
		32-C-xi	Retaining Walls, re-enforced concrete masonry unit (CMU)	40	40
		32-C-xii	Retaining Walls, treated timber	25	25
		32-C-xiii	Storage sheds	30	30
	32-D		Recreational Facilities		
		32-D-i	Sport Court- asphalt	25	25
		32-D-ii	Sport Court- synthetic	15	20
		32-D-iii	Sport Court-hardwood	50	50
		32-D-iv	Tot Lot (playground equipment)	10	15
		32-D-v	Tot Lot- loose ground cover	3	5
		32-D-vi	Pool Deck	15	15
		32-D-vii	Pool/Spa Plastic Liner	8	8
		32-D-viii	Pool/Spa pumps and equipment	10	10

Division	Section	Assembly	Description	Family	Senior
		32-D-ix	Decks-treated lumber	20	20
		32-D-x	Decks-composite	50	50
Division 33			Utilities/ Electrical		
	33-A		Site Utilities-Electric		
		33-A-i	Electric distribution center	40	40
		33-A-ii	Electric distribution lines	40	40
		33-A-iii	Transformer	30	30
		33-A-iv	Emergency Generator	25	25
		33-A-v	Solar Photovoltaic panels	15	15
		33-A-vi	Photovoltaic Inverters	10	10
		33-A-vii	Pole mounted lights	25	25
		33-A-viii	Ground lighting	10	10
		33-A-ix	Building Mounted Lighting	10	10
		33-A-x	Building Mounted High Intensity Discharge (HID) Lighting	10	20
	33-B		Site Utilities-Gas		
		33-B-i	Gas Main	40	40
		33-B-ii	Gas Supply Lines	40	40
		33-B-iii	Site Propane, Storage & Distribution	35	35
		33-B-iv	Gas lights/fire pits	20	20
	33-C		Site Utilities-Sewer		
		33-C-i	Sanitary Sewer lines	50	50
		33-C-ii	Sanitary waste treatment system	40	40
		33-C-iii	Lift Station	50	50
	33-D		Site Utilities-Trash		
		33-D-i	Dumpsters	15	15
		33-D-ii	Compactors (exterior, commercial grade)	20	20
		33-D-iii	Recycling containers/equipment	15	15
		33-D-iv	Composting, organic recycling equipment	10	10