STEFAN BEAN, Ed.D.
County Superintendent of Schools

November 13, 2026

ADDENDUM #4

BID NUMBER: 26-05
ESPLANADE BUILDING 4 AND KALMUS BUILDING A INTERIOR IMPROVEMENTS

IMPORTANT NOTICE

Please note the following responses to questions asked by prospective bidders:

Question 1: What is the exact Philips Evo 2x4 catalog number for the three new lighting fixtures, with manufacturer cut sheet confirming color temperature, lumen output, driver and dimming requirements?

Answer: Please see attached for lighting cutsheet.

Question 2: What are the required locations of the three new and two relocated lighting fixtures in Kalmus Offices 091/092, and the required switch and occupancy-sensor manufacturer/model, control type, zoning and dimming requirements?

Answer: Each office will have 2 light fixtures and one fixture located to the north and one located to the south of the new offices.

Question 3: Which existing panel and circuit numbers shall serve the six new 20A receptacles and modified lighting, and shall existing branch circuits be extended or new dedicated circuits and breakers be provided?

Answer: The new electrical circuits for building A offices will be run into panelPC1 in the Electrical room. Breakers are existing spares.

Question 4: Is there fire alarm scope? If so, please provide information on the new and/or existing system.

Answer: There is no fire alarm scope.

Question 5: Please confirm that there is no fire sprinkler cope in this project.

Answer: There is no fire sprinkler scope in this project.

Question 6: Does the School District have existing Fire Sprinkler Contractor?

Answer: If a Fire Sprinkler Contractor is needed, the Superintendent does have one that we have used consistently for their fire sprinkler work.

Question 7: Please confirm that no Fire Sprinkler work in involve at Kalmus Building A.

Answer: There is no fire sprinkler scope for Kalmus Building A.

Question 8: What is the Existing Alarm System?

Answer: There is no Fire Alarm scope in this project.

Question 9: Does the School District have existing Fire Alarm Contractor?

Answer: The Superintendent does not have an existing Fire Alarm Contractor.

Question 10: Please confirm which materials and equipment awe owner-furnished/contractor-installed.

Answer: All OFCI materials and equipment are clearly documented in the bid documents.

Question 11: On sheet G-020 under project information section the drawings say that fire sprinkler work isn't involved in this project. On sheet A-120 the reflected ceiling plan the drawings call out for fire sprinkler work. Please confirm the extent of the fire sprinkler scope. (if any)

Answer: There is no fire sprinkler work for this project.

Question 12: What is the reason for the Pelican thermostat for these 2 offices? Do we figure a zoning system for that unit?

Answer: No zoning, just additional controls for the existing system.

Question 13: May MC cable be used for lighting fixture connections throughout the entire Bid #26-05 project, including Esplanade Building 4 and Kalmus Building A?

Answer: Bidder to include as "Deductive ALT 1".

Question 14: Per 2023 NEC Sections 240.4(D)(6) and 210.19, may #12 AWG copper conductors be used in lieu of the specified #10 AWG minimum for 20A power and lighting branch circuits, including those noted on E102, where circuit lengths are less than 100 feet and all applicable ampacity, derating, and voltage-drop criteria are satisfied?

Answer: Bidder to include as "Deductive ALT 2".

Question 15: Low Voltage-Does the School District have existing Low Voltage Contractor or Low Voltage is controlled by OCDE IT Department?

Answer: Controlled by the OCDE IT Department. Follow the drawings.

Question 16: Please confirm whether this project is subject to a Project Labor Agreement, Community Workforce Agreement, union signatory requirement, or any local hire or targeted hire requirement for the Contractor or its subcontractors. If so, please provide the agreement and identify the sections that apply to bidders and subcontractors so they can be priced.

Answer: A sample agreement is included in the bid document. Please review the bid documents, including the sample agreement, for all project requirements applicable to the Contractor and its subcontractors, and incorporate all associated costs into your bid.

Question 17: Hazardous Material Note 1 on AD-100 states the Owner will supply a hazardous material inspection report. No report is included in the bid documents. Please provide the report for Esplanade Bldg 4 Suites 117, 118, 119 and Kalmus Bldg A. Please also confirm that abatement of any hazardous materials found, including existing flooring and mastic, is by the Owner and not part of this contract.

Answer: Per prior tests/reports no hazardous materials were detected. Will work with awarded contractor as needed if scope needs to be added as an allowance item.

Question 18: General Demolition Note 3 references Specification Section 02 41 19, and Note 4 references photo sheets AD-200 series. Neither is included in the bid documents. Please provide them, or confirm that demolition is per the drawings only.

Answer: Reference to specifications are in error. Demolition is per the drawings only.

Question 19: Fire Sprinkler Note 5 on A-120 references Division 21 specification sections. No specifications are included in the bid documents and there are no fire sprinkler drawings. Please provide Division 21, or confirm the fire sprinkler work is design-build by the contractor per the A-120 notes.

Answer: Fire Sprinkler notes are in error. There is no Fire Sprinkler Scope in this project.

Question 20: The Finish Legend lists LVP-1 (Luxury Vinyl Plank) as Owner Furnished, Contractor Installed, but the manufacturer, style, color and finish are blank. CPT-1 and CPT-2 also leave style and size blank. Please provide the products so installers can price floor prep and adhesive to the manufacturer requirements.

Answer: LVP-1: See list below.
*CPT-1: Carpet tile noted in drawings but should be rolled carpet. CPT-1 to be Bentley Mills, see below.
CPT-2: Walk off mat – Bentley Mills, see below.
Adhesive will be provided by Owner, see below.

Bentley LVT - Ground Rules 5mm Manners Matter

LVT Adhesive - Healthbond 2399

Bentley Carpet - Suitable EliteFlex Cushion - Legit

Bentley Walk Off - Rough Idea Shear EliteFlex Cushion

Carpet Adhesive - Healthbond 2399

Perma Weld Seam Weld

Question 21: CPT-1, CPT-2, LVP-1, VCT-1 and SC-1 are marked Owner Furnished, Contractor Installed. Please confirm the Owner delivers all flooring material to Esplanade Bldg 4, whether adhesives and sealer are included in the Owner furnished material, and the expected delivery date.

Answer: Materials are listed as OFCI. Materials are already on site in the storage room.

Question 22: The two new offices are built at workstations 091 and 092. Please confirm the existing workstation furniture at 091 and 092 will be removed by the Owner before construction starts.

Answer: Workstations have already been removed.

Question 23: General Note 5 requires temporary power, HVAC and lighting during construction as required by OCDE. Please confirm Suites 117, 118 and 119 will be vacant during construction and that no temporary HVAC or occupant power is required beyond construction power.

Answer: Suites 117, 118, and 119 will be vacant during construction. Contractor will have to provide temporary power/lighting for the construction use.

Question 24: The Kalmus scope of work does not mention fire sprinkler work. Please confirm the existing sprinkler heads at workstations 091 and 092 remain as is, or advise if modifications are required for the two new enclosed offices.

Answer: Existing fire sprinkler heads at workstation 91 and 92 will remain as is. No additional fire sprinkler scope for the project.

Question 25: There are no fire alarm drawings. M-100 requires a duct smoke detector to signal the building fire alarm panel if applicable. Please confirm whether the buildings have an existing fire alarm system, and whether any fire alarm modifications are required at Esplanade Bldg 4 Suites 117, 118, 119 and at Kalmus Bldg A. If required, please provide the design or confirm it is design-build.

Answer: OED Response 2026-11-12. Contractor will need to field investigate if there is building fire alarm panel. If there is no panel local shutoff alone is acceptable, but if there is panel, it needs to send signal to panel to trigger alarm. Cole Condon PE.

Question 26: The Kalmus scope calls for about 60 LF of new insulated walls and says to rework or replace the T-bar as needed with a new dropdown ceiling, but gives no wall or ceiling heights. Please confirm: (1) the height of the new walls, whether to the underside of the deck or to a set height above the ceiling with bracing; (2) the finished ceiling height in the two new offices; (3) whether the existing ceiling grid is removed and rebuilt inside the new offices, or the new walls frame to the existing grid.

Answer:
1. Height to be field verified. Walls to be to the underside of the existing
2. Finish ceiling height of the two offices to match existing.
3. New walls framed to existing grid.

Question 27: Keynote 4 adds a new 18x18 relief duct through the roof. Please confirm whether the Esplanade Bldg 4 roof is under a manufacturer warranty. If so, please provide the roofing manufacturer and any approved installer requirements for the new penetration.

Answer: Keynote 4 on the roof plan (M-200) should be removed. No Gravity Hood will be required. Eliminate from scope.

Question 28: Project schedule, phasing and shutdowns
Confirm the start and completion dates for Esplanade Building 4 and Kalmus Building A, whether work is concurrent or sequential, and area-release milestones. State permitted work/noisy-work hours and the shutdown procedure addressing two-week notice, 72-hour approval and the four-hour interruption limit or approved alternative.
Reference: PDF pp. 7, 75, 77, 79, 121, 143

Answer: Esplanade project duration is 120 days from NTP. Building A project duration is 30 days from date of NTP. Both projects may run concurrently but Building A is prioritized. Office hours are 7am – 5pm. Construction hours are regular business hours but earlier access can be scheduled.

Question 29: Existing-condition records and survey access
Provide available dimensioned existing-condition drawings, including structure, wall/ceiling heights and service routes, or confirm pre-bid survey access. Confirm the two upper entrance-mat dimensions; three lower mats are shown as 6 x 6 ft. Include dimensions for the four interior frame/glazing removal assemblies.
Reference: G-000; A-100; A-140, PDF pp. 7, 15, 23

Answer: No as-builts available.

Question 30: Hazardous-material survey and abatement
Provide the hazardous-material survey or identify its location in the bid documents. The demolition notes assign engagement of any required abatement professionals to the Owner. Confirm affected areas, abatement scope and the release sequence before general demolition.
Reference: AD-100 / AD-110, PDF pp. 75, 77

Answer: Per prior tests/reports no hazardous materials were detected. Will work with awarded bidder as needed if scope needs to be added as an allowance item.

Question 31: Architectural and MEP layout coordination
M-100 and P-100 show room identifiers/background layouts that differ from the architectural plans. Confirm the governing drawing/specification revisions and addenda, and provide coordinated equipment, duct, outlet, sink and control locations.
Reference: A-100/A-120; M-100; P-100, PDF pp. 15, 19, 61, 89

Answer: Architectural and Mechanical layouts are coordinated.

Question 32: Owner-furnished materials and equipment
Confirm the Owner-furnished material/equipment schedule and availability dates, including flooring, entrance mats, sealer, door hardware and breakroom appliances. Identify included accessories and contractor requirements for adhesives, preparation/testing, casework/countertops and final appliance water/power connections.
Reference: A-140; A-600; A-110, PDF pp. 23, 33, 17

Answer: Owner furnished material is already on site in the storage room, including adhesives and sealer. Equipment will be OFOI. Door hardware has a short lead time and will be ordered once project is awarded.

Question 33: Temporary barriers and site logistics
Confirm locations, heights, extents and relocation phases for the insulated full-height metal-stud/GWB temporary barriers, or provide an approved phasing/barrier plan. Identify permitted storage/staging areas, delivery routes/hours, waste-container locations, haul routes and access restrictions.
Reference: G-000; AD-100/110; G-020, PDF pp. 7, 75, 77, 79

Answer: G-000 – General construction note 16 shall be omitted. AD-100 & AD-110-General demo note shall be omitted.

Question 34: Designated service providers and acceptance requirements
Identify any Owner-designated or separately contracted providers for sprinklers, fire alarm, lighting controls, HVAC controls and independent air balancing. Confirm required approvals, commissioning/acceptance reports and any testing or specialist services furnished directly by the Owner.
Reference: A-120; E105; M-004/M-100, PDF pp. 19, 49, 59, 61

Answer: MBI: Contractor shall provide lighting controls per electrical plan. Commissioning/Acceptance report shall meet Energy Code (T24) requirement per plan.

Question 35: Two existing sinks: demolition limits
AD-100 indicates two existing sink removal locations, while PD-100 keys one. Please confirm removal of both and the water, waste and vent disconnection/capping limits at the second location.
Reference: AD-100; PD-100, PDF pp. 75, 93

Answer: Both sinks and associated piping shall be demolished.

Question 36: Room 122 sink/casework coordination
Please coordinate the plumbing two-compartment sink and disposer with the room 122 casework elevation/module. Confirm location, countertop cutout, supports, equipment/piping space, access and required clearances.
Reference: A-110 B3; P-002/P-100, PDF pp. 17, 87, 89

Answer: Confirmed-refer to A1/A-500 see attached cutsheet.

Question 37: Countertop material and finish code
Please reconcile breakroom countertop tag 10.4 / PL-2 with the finish schedule. Confirm final material, color, thickness, edge, backsplash and substrate, including whether the generic ST-1 quartz entry applies.
Reference: A-110 B3; A-540; A-140, PDF pp. 17, 29, 23

Answer: Countertop to be ST-1-Quartz. See detail for Stone countertop on A-540, including 4" back splash. Color TBD.

Question 38: Flooring selections and restroom paint
Complete the CPT-1, CPT-2, LVP-1 and SC-1 product, color, thickness, accessory and installation requirements, or state the bidding basis pending selection. Confirm restroom PT-2 extents shown on the elevations against the finish-schedule description.
Reference: A-140; A-110, PDF pp. 23, 17

Answer: Finishes to be OFCI, see list in Answer for Question #20 above. Bid per sample suite shown at the job walk. PT-2 extents shown on the finish plan. Paint to be floor to ceiling.

Question 39: Wall-brace profiles
Please reconcile the 362T150 16-gauge brace on A-100 with 400T150-54 / 400T162-54 components in A-500 detail E4 and confirm the final brace/connection assembly.
Reference: A-100; A-500 E4, PDF pp. 15, 25

Answer: Confirmed.

Question 40: Existing supporting structure and attachments
Details reference both wood connections and metal deck. Confirm the actual supporting structure and elevations, together with permitted anchorage locations/details for partitions, ceilings and MEP supports.
Reference: A-500; A-520; M-300, PDF pp. 25, 27, 65

Answer: No as-builts available.

Question 41: Partition acoustic insulation
Please provide complete section 09 81 16 or an approved product basis stating insulation type/manufacturer, thickness, density and acoustic requirements for each wall type, including facing requirements.
Reference: A-100; A-140, PDF pp. 15, 23

Answer: No spec available for this scope of work.

Question 42: E3 gypsum-board configuration
The E3 section graphic and overall thickness appear to indicate one-sided sheathing, while the note states EA SIDE. Confirm the required sheathing sides and the construction/access detail at the existing chase.
Reference: A-100; A-110 B2, PDF pp. 15, 17

Answer: Gypsum board shall be on one side as indicated on detail.

Question 43: Gypsum ceiling assemblies and ceiling elevations
Provide the gypsum ceiling board type/thickness, framing, suspension and access-panel details. Confirm ceiling type/elevation in electrical rooms 112 and 120 and exposed-structure elevations in storage rooms 113 and 114.
Reference: A-120; A-520, PDF pp. 19, 27

Answer: Details E1, E2 & E3 shall be provided on sheet A-520, Rooms 112., 113, 114 & 120 are exposed structure ceiling.

Question 44: Interior doors and frames
Please provide complete sections 08 14 16 / 08 11 13 or approved door/frame manufacturer, leaf thickness/core, paint-surface and frame type/gauge requirements, including the proposed-product approval process.
Reference: A-600; A-140, PDF pp. 33, 23

Answer: No spec available for this scope of work, see door schedule. Doors to match existing.

Question 45: Storefront and glazing requirements
Provide section 08 41 13 or the approved aluminum system/series, finish and glazing-film requirements. Confirm the typical elevation against all three entrance openings and the permitted staged replacement/access sequence.
Reference: A-100; A-600, PDF pp. 15, 33

Answer: No spec available for this scope of work, see door schedule. Elevations for storefronts are typical per detail B1/A-600. Refer to floor plan for door hand direction. Spaces are not occupied so staging and replacement sequence is to the contractors discretion. Space must be maintained as secure at all hours.

Question 46: Door hardware, keying and access-control interfaces
Confirm the final Owner-furnished hardware schedule and delivery dates, including cylinder compatibility and keying. Define complete entrance hardware requirements and card-reader removal/reconnection, programming and testing requirements, including lock compatibility.
Reference: A-600; E001, PDF pp. 33, 5

Answer: Door hardware is OFCI. Hardware has short lead time and will be ordered at time of award. Should have IC cores and Owner will re-key. Access hardware shall be carefully removed and returned to Owner. Owner will reinstall once door installation is complete.

Question 47: Paint code, accent extents and exposed surfaces
Confirm the intended PT-3 Old Mill color code: DEW185 shown on the drawing or DEA185. Specify the paint/primer system and number of coats. Confirm breakroom PT-2 limits, conference room 128 accent-paint requirements, and substrates/coating scope at exposed structure and electrical-room ceilings.
Reference: A-140; A-120, PDF pp. 23, 19

Answer: Paint shall be revised to DEA185. One coat primer, two coats paint. PT-2 limits in break room, conference room 128 are shown on the finish plan. Paint to run floor to ceiling. No coating scope at exposed structure or electrical room ceilings.

Question 48: FRP panels and base interface
Please confirm P100 FRP product/fire classification and the specified 24 x 48-inch module, including whether cut from larger sheets. Provide the approved interface with B-1 cove base, trims and bottom-edge sealing.
Reference: A-110; A-140, PDF pp. 17, 23

Answer: See attached detail.

Question 49: Rubber base profile
Please confirm B-1 rubber-base series/thickness and straight versus cove profiles at IDF 111 and electrical rooms 112/120.
Reference: A-140, PDF p. 23

Answer: Cove base shall in rooms 111, 112, 113, 114, 120, 122 & 130.

Question 50: Floor transitions and threshold work
Reconcile the IDF 111 concrete-transition reference with its VCT finish and confirm the transition at storage 130. Specify transition-strip manufacturer/profile coordinated with finish thicknesses and accessibility details. Define retain/replace/repair requirements for the four upper-plan thresholds separately from the three new entrance thresholds.
Reference: A-140 B4/B5; A-600 C3, PDF pp. 23, 33

Answer: For threshold details see sheet A-140 and A-600.

Question 51: Restroom door undercuts
Please coordinate and confirm the one-inch undercuts required by M-100 note 5 with the door schedule, finished-floor elevations and transfer/makeup-air requirements at all four restrooms.
Reference: M-100 note 5; A-600, PDF pp. 61, 33

Answer: One-inch undercuts is confirmed.

Question 52: Room and accessibility signage
Provide the final signage plan/schedule, room names/numbers, restroom and accessible-route signs, approved design/colors and any Owner-furnished signs. A-800 notes that not all illustrated types are applicable.
Reference: A-800, PDF p. 35

Answer: Sheet A-800 denotes the signage to be used and where. Room names and numbers will be provided during the submittal phase to the awarded Contractor.

Question 53: Shades, wall accessories and salvage
Confirm shade-panel quantities and condition at the two reinstall locations and the one Owner-return location. Identify existing boards/accessories to be reinstalled, final locations, permitted storage and Owner-selected salvage items.
Reference: A-100 10.11; AD-100 00.19/00.21 and note 27, PDF pp. 15, 75

Answer: Shades at door 109A and 129A to be reinstalled. Shades at door 126A to be returned to Owner.

Question 54: Existing sewer connection and floor restoration
Provide available sewer records or investigation access to establish the existing 4-inch connection location, material, size, depth and invert elevation. Confirm the required extent of floor cutting, excavation, backfill and restoration.
Reference: P-100 notes 4-7, PDF p. 89

Answer: Plumbing as built drawings are not available. Contractor to verify in field before starting work.

Question 55: Water-closet model and accessory compatibility
Confirm one compatible water-closet assembly reconciling the specified Madera Youth name, model 2467.100, tank configuration, 1.1-gpf rating and seat 5503A00B.
Reference: P-002, PDF p. 87

Answer: Revised plumbing fixture schedule. Water closet shall be Cadet, model 2467.100.

Question 56: Plumbing rough-in sizes
The WC schedule lists a 1-1/2-inch cold-water connection, while P-100 note 1 states 3/4 inch. Lavatory/sink vents are 2 inches in the fixture schedule and 1-1/2 inches in notes 2-3, with a 2-inch above-ceiling connection. Confirm the size of each segment and connection.
Reference: P-002; P-100, PDF pp. 87, 89

Answer: Revised Plumbing fixture schedule on P-002 and keynote on P-100. WC cold water connection is ¾". Lavatory/sink vent connection is 1-1/2", as well as the above ceiling connection.

Question 57: Breakroom water connections
Confirm hot/cold-water tie-in points and routes, and the number/location of coffee-maker and water-dispenser outlets and shutoffs. Define required final connections to Owner-furnished equipment and any water-shutdown restrictions.
Reference: P-100 notes 3, 7, 8; A-110, PDF pp. 89, 17

Answer: Cold water tie-in point is above ceiling in waiting area. Hot water is from new point of use instantaneous water heater below kitchen sink. There is 1 coffee maker and 1 water dispenser water outlets with dual check valves and shutoff valves. Water shutdown restrictions are to be coordinated with the Owner by Contractor before starting the work. Added general note #27 on sheet P-001.

Question 58: Piping materials, insulation and testing
Confirm application of the piping-material schedule on PDF p. 11 to the project routes and existing-pipe connections. Specify insulation type/thickness by service and supporting substrate/details. State required testing/inspection methods, extent and reports before concealment.
Reference: P-001; P-100; P-300, PDF pp. 11, 89, 91

Answer: Refer to Pipe Materials Schedule on P-001. Insulation is not applicable. Added general note #28 "TESTING AND INSPECTION PER CPC BEFORE CONCEALMENT" on sheet P-001.

Question 59: P118 panel and feeder conflict
E102 notes 6-7 call for a 100A disconnect/panel and E701 note 11 calls for a 100A disconnect, while the P118 schedule lists a 200A main breaker and bus. Please reconcile panel, breaker, fuse/disconnect and feeder/conduit ratings and issue corrections.
Reference: E102; E701, PDF pp. 43, 53

Answer: MBI (AM)-The disconnect switch was revised to be 200A. Keynotes and SLD were revised to match.

Question 60: Salvaged and existing light fixtures
Identify the final locations of the twelve existing 2 x 4 fixtures to be salvaged and reinstalled under AD-110 keynote 00.01, and any corresponding reduction in new fixtures. Confirm whether the six storage-room fixtures keyed for reconnection on E104 are additional. State the required treatment of fixtures unsuitable for reuse.
Reference: AD-110 00.01; E104 note 2; A-120 note 4, PDF pp. 77, 47, 19

Answer: (12) light fixtures to be salvaged will be determined in the field with Owner. Light fixtures at storage rooms are existing. Contractor to dispose of light fixtures that are not salvaged.

Question 61: Disposer electrical connection
P-002 specifies a Badger 5XP disposer. Identify the required power connection, circuit/protection and control method, coordinated with the sink and casework layout.
Reference: P-002; E102/E701, PDF pp. 87, 43, 53

Answer: MBI (AM)-Power to the Garbage Disposal unit was coordinated and added to the electrical layout E102, and the panel schedule on E701. See attached cutsheet.

Question 62: Lighting fixtures and control components
Confirm final fixture models/finishes, type B mounting and compatible controls. Identify factory-integrated and separately supplied sensors, wall switches/dimmers, required communications wiring and commissioning requirements so the complete lighting package can be priced.
Reference: E104/E105, PDF pp. 47, 49

Answer: MBI (AM)-Lighting fixture finishes were added to the lighting schedule on sheet E105. The light fixture schedule calls for the mounting type, controls (mounted on fixture). The lighting layout on sheet E104 shows the local area controls (dimmers, switches, sensors).

Question 63: Data, AV and equipment interfaces
Specify data/AV cable types, endpoints, outlets/terminations and testing requirements. Identify Owner-furnished racks/active equipment, furniture, projector/mount and motorized screen, and define contractor pathway, cabling, feed-connector, power and final-connection requirements.
Reference: E001; E102 notes 2-5, 9-11, PDF pp. 5, 43

Answer: MBI (AM)-Refer to Owner/IT department for low voltage/data/telecom requirements.

Question 64: Electrical studies and acceptance testing
The NETA ATS testing clause on PDF p. 37 is incomplete. Provide the complete test and reporting requirements and any required independent testing provider. Confirm panel manufacturer/approval basis and fault ratings, required short-circuit/arc-flash studies, and any studies/testing furnished by the Owner.
Reference: E001; E002; E701, PDF pp. 5, 37, 53

Answer: MBI (AM)-The testing clause was revised to show on sheet E002 “PERFORM TESTING AS DESCRIBED IN NETA ATS. INCLUDING TESTING OF MOTORS FOR CORRECT OPERATION AND ROATATION. ANY PRODUCTS WHICH FAIL DURING THE TESTS OR ARE RULED UNSATISFACTORY BY THE ENGINEER SHALL BE REPLACED, REPAIRED, OR CORRECTED AS PRESCRIBED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR. TESTS SHALL BE PERFORMED AFTER REPAIRS, REPLACEMENTS, OR CORRECTIONS UNTIL SATISFACTORY PERFORMANCE IS DEMONSTRATED”.

Question 65: Thermostat selection and mounting
M-004 specifies Siemens, while M-100 calls for Pelican TC2. Confirm the required thermostat brand and complete control modules for the five systems. Coordinate the 48-inch mounting note with applicable accessibility conditions shown on M-300.
Reference: M-004; M-100; M-300, PDF pp. 59, 61, 65

Answer: OED Response 2026-11-12. Thermostat shall be Pelican TC2. Existing thermostat is pelican and wiring can be reused, but requires new control module (module location may vary will need to be investigated in field either at stat or unit) and thermostat. Call Pelican Rep Bryce Mercord (phone number indicated on plans see key note 2/M-100) for additional details.

Question 66: Exhaust-fan protection and controls
M-002 lists 15A maximum overcurrent protection for the exhaust fans, while E701 shows a shared 20A circuit. Confirm protection for each fan and the required relay, speed control and lighting interlock.
Reference: M-002; E102/E701, PDF pp. 55, 43, 53

Answer: OED Response 2026-11-12. Electrical to provide appropriately sized protection for fan, relay will be required to turn on fan when bathroom lights are turned on. Speed control is provided for Contractor to balance fan air flow. See Mechanical schedules on sheet M-002 for additional information.

Question 67: Duct dimensions, insulation and roof relief
Confirm coordinated duct routes and the locations requiring R-8 versus R-4.2 insulation. Reconcile net-inside sizing on PDF p. 9 with outside-dimension wording on p. 59. Define the 18 x 18-inch roof-relief route, CBD2/WD-100 damper locations and required curb/flashing/roofing interfaces.
Reference: M general notes; M-002/M-004/M-100/M-300, PDF pp. 9, 55, 59, 61, 65

Answer: OED Response 2026-11-12.

1. See sheet M-001 in the Air Distribution section note 5 for duct installation requirements.
2. All duct work has been sized with inside dimensions indicated on the floor plan. See note 5 in air distribution section of sheet M-001.
3. Relief air can be eliminated it is not a code requirement; current space does not utilize relief air and rear garage door will normally open to relieve excess pressure.

Question 68: Fire-alarm modifications and duct-smoke interfaces
Provide the fire-alarm modification drawings and existing system make/model/capacity. Confirm duct-detector quantities/locations, compatible devices and the required wiring/relays, HVAC shutdown, signal connections, programming and joint acceptance testing, including any Owner-designated service provider.
Reference: G-020; E001; M-100, PDF pp. 79, 5, 61

Answer: There is no Fire Alarm scope in this project.

Question 69: Sprinkler scope and design basis
A-120 requires new concealed heads/shop drawings and AD-100 refers to modification of existing sprinklers, while G-020 lists automatic sprinklers as NO. Confirm the existing condition and whether the scope is system modification or new installation. Provide applicable Division 21 requirements and head types for open-ceiling storage areas.
Reference: A-120; AD-100; G-020, PDF pp. 19, 75, 79

Answer: There is no Fire Sprinkler scope in this project.

Question 70: Extinguisher cabinets and extinguishers
Confirm new versus reused items at the five FEC-1 locations and identify any Owner-furnished items. Coordinate cabinet Nystrom FC-7013-A with the specified 10-lb / 2A10BC extinguisher, wall depth and mounting requirements.
Reference: A-110; A-550; G-020, PDF pp. 17, 31, 79

Answer: Refer to fire extinguisher schedule on sheet A-100.

All Project Documents remain unchanged except sections or parts of sections added to, revised, deleted, or clarified by this Addendum.

This Addendum shall be considered part of the Project Documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally herewith. Where provisions of the following supplementary data differ from those of the original Project Documents, this Addendum shall govern and take precedence.

Firms are hereby notified that they shall make any necessary adjustments in their proposal on account of this Addendum. It will be construed that each Firm's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Sincerely,
Kristin Lange
Kristin Lange
Assistant Director
Purchasing & Contracts

ADDENDUM #4 ATTACHMENTS

BID NUMBER: 26-05
ESPLANADE BUILDING 4 AND KALMUS BUILDING A INTERIOR IMPROVEMENTS

QUESTION 1 – LIGHTING CUTSHEET

LITHONIA LIGHTING®

DIGITAL NAVIGATION

Ordering Tree nLight Platform Sensor Switch JOT Photometrics Performance Data

Catalog Number	
Notes	
Type	

BLT Series LED

2BLT4

2' x 4' LED



ADP Diffuser Option



Ribbed Reflector Option

FEATURES & SPECIFICATIONS

INTENDED USE — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

CONSTRUCTION — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

The BLT reflector is available in both smooth and ribbed finishes. Choose RB from the fixture style section below for a ribbed finish.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. A typically configured 2BLT4 features a **Unified Glare Rating (UGR)** starting at 17, UGR data available on page 8. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Five diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight®controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intutitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminairs and wall switches through our mobile app, CL**AIR**ITY+, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

Integrated Wireless Sensor (single room control): Sensor Switch VERTEX JOT or JOTVTX15 luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space. See page X for more details on the integrated wireless sensor.

INSTALLATION — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. Designed for use in NEMA standard Type G (1" & 15/16") , NFG (9/16"), and SS (9/16") grid ceilings. Consult factory about other ceiling types.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN ACT— Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

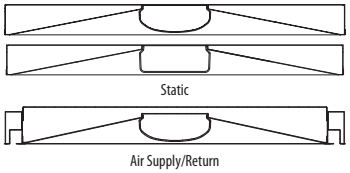
WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Specifications

Length: 47-3/4 (121.2)
Width: 23-3/4 (60.3)
Depth: 2-3/8 (6.0)
Depth with Air supply/return: 2-3/4 (6.9)

All dimensions are inches (centimeters) unless otherwise specified.



Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

2BLT Volumetric Recessed Lighting 2'x4'

Design Select options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2BLT4 40L ADP EZ1 LP840

2BLT4

Series	Fixture Style	Air function	Lumens ‡		Diffuser	Voltage	Driver	Color temperature
			Standard efficiency (>100 LPW)	**High efficiency ‡ (>130 LPW)**				
2BLT4 2x4 BLT	(blank) Smooth Reflector	(blank) Static	30L 3000	30LHE 3000	ADP Curved, ribbed	(blank) MVOLT	EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 82CRI, 3000 K
	RB Ribbed Reflector	A Air supply/ return ‡	40L 4000	40LHE 4000	ADSM Curved, smooth	120 120V	GZ1 Dims to 1% (0-10V dimming)	LP835 82CRI, 3500 K
			48L 4800	48LHE 4800	SDP Square, ribbed	277 277V	GZ10 Dims to 10% (0-10V dimming)	LP840 82CRI, 4000 K
			60L 6000	60LHE 6000	SDSM Square, smooth	347 347V ‡	SLD Step-level dimming ‡	LP850 82CRI, 5000 K
			72L 7200	72LHE 7200	LUGR Low UGR lens ‡			LP930 90CRI, 3000K
			85L 8500	85LHE 8500	**Includes trim rings to match sensored version**			LP935 90CRI, 3500K
			100L 10000		ADPT Curved, ribbed			LP940 90CRI, 4000K
			120L 12000		ADSMT Curved, smooth			LP950 90CRI, 5000K
					SDPT Square, ribbed			
					SDSMT Square, smooth			
					LUGRT Low UGR lens with trim ‡			

nLight Interface

nLight Wired

(blank)	no nLight ® interface
N80	nLight with 80% lumen management
N80EMG	nLight with 80% lumen management For use with generator supply EM power ‡
N100	nLight without lumen management
N100EMG	nLight without lumen management For use with generator supply EM power ‡

nLight Wireless

(blank)	no nLight AIR ® interface
NLTAIR2	nLight AIR Generation 2 enabled ‡

Control ‡

nLight Wired ‡

(blank)	No sensor control
NES7	nLight™ nES 7 PIR integral occupancy sensor
NESPDT7	nLight™ nES PDT 7 dual technology integral occupancy control
NES7ADCX	nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell
NESPDT7ADCX	nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell

nLight Wireless

RES7	nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell ‡
RES7PDT	nLight AIR control with PDT dual technology integral occupancy sensor and automatic dimming photocell ‡
RIO	nLight AIR radio module without sensor ‡
RES7EM	nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ‡
RES7PDTEM	nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ‡
RIOEM	nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ‡

Individual Control

MSD7ADCX	PIR integral occupancy sensor with automatic dimming control photocell ‡
MSDPDT7ADCX	PDT integral occupancy sensor with automatic dimming control photocell ‡
JOT	Wireless room control with "Just One Touch" pairing ‡
JOTVTX15	Wireless occupancy sensor with "Just One Touch" pairing ‡

Standy Mode

NOC	NOC Occupancy sensor disabled ‡

Options

BDP Disconnect Plug

EL7L	700 lumen battery pack (Noncompliant with CA T20) ‡
EL14L	1400 lumen battery pack (Noncompliant with CA T20) ‡
E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡

CP	Chicago plenum ‡
BGTD	Bodine Generator Transfer Device ‡
PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
PWS1846 PWSLV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡
PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage wires ‡

GLR	Fast-blowing fuse ‡
GMF	Slow-blowing fuse ‡
NPLT	Narrow pallet
RRL_	RELOC®-ready luminaire ‡
LATC	Earthquake clip
WH	Glossy White
DWAM	Anti-Microbial paint
JP14	Job packaging ‡
JP22	Job packaging ‡
IP5X	Gasketed diffuser compartment to meet IP5X rating ‡
BAA	Buy America(n) Act Compliant

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restictions chart on the next page. Options are sorted alphanumerically.

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved. Rev. 04/26/23

2BLT Volumetric Recessed Lighting 2'x4'

‡ Option Value Ordering Restrictions	
Option value	**Restriction**
347	Not available with SLD, EL7L, EL14L, or E10WLCP options.
A	Not available with RB fixture style, consult factory for air flow data. If a job pack is selected, use JP14 only.
BGTD	Not available with TD, JOT, JOTVTX15 sensor options or emergency battery options. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.
Controls	Must specify diffuser with trim rings.
CP	Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.
E10WLCP, EL7L, EL14L	When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
FAO	EZ1 driver required. Not available with USPOM, FAO or lumen packages > 6000LM. FAO restricts use of external Dimming controls. See chart on page 3 for additional details.
GLR, GMF	Must specify voltage. 120 or 277, with GLR and GMF fusing.
IP5X	Not available with air supply/return or Wired Networking (NES_) and Individual Control (MSD_) sensors.
JOT, JOTVTX15	Not available with standard efficiency 85L, 85LHE, 100L or 120L lumen options. Not available with SLD, nLight, NLTAIR2, NOC, or BGTD options.
JP14	Only available on fixtures with NES7, NESPDT7, NESPDT7ADCX, MSD7ADCX, MSDPDT7ADCX, RES7, RES7PDT, RIO, JOT,JOTVTX15. Not available when 'A' air supply/return function and sensor options are combined.
JP22	Not available with option: NES7, NESPDT7, NESPDT7ADCX, MSD7ADCX, MSDPDT7ADCX, RES7, RES7PDT, RIO, JOT, JOTVTX15. Not available when 'A' air supply/return function option.
Lumens	Approximate lumen output. For high Efficiency, all versions may not achieve 130+ LPW. Refer to photometry on www.acuitybrands.com. Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
LUGR, LUGRT	Due to the unique optics used to drive the low UGR distribution, the LUGR lens is not uniformly lit and presents visible striping.
MSD7ADCX, MSDPDT7ADCX	Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Requires N80, N80EMG, N100, or N100EMG. Only available with EZ1 driver.
NLTAIR2	Must order with nLight Wireless option from Control section. Not available with GZ10 driver. Not available with 85L, 85LHE, 100L, or 120L options.
NOC	Can only be ordered in conjunction with EZ1 or GZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
N80EMG, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
RES7, RES7PDDT, RIO	See UL 924 Sequence of Operation chart on page 3. When combined with the EZ1 option, can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.
RES7EM, RES7PDT, RIOEM	See UL924 Sequence of Operation chart on page 3. Not available with 72L, 72LHE, 85L or 85LHE lumen packages. Not available with GZ10 or GZ1 driver.
RRL_	For ordering logic consult: RRL_2013.
SLD	Not available with any nLight Interface or Control options.

Multiple Diffuser Options





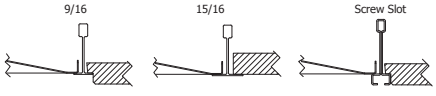
SDSM Diffuser Option

Non-Configurable BLT

Non-Configurable BLT								
Stock/MTO	**Catalog Description ***	**UPC**	**Lumens**	**Wattage**	**LPW**	**Color Temperature**	**Voltage**	**Pallet Qty**
Stock	2BLT4 40L ADP LP835	00190887470789	4000	31.69	126.22	3500K/82 CRI	120-277	28
	2BLT4 40L ADP LP840	00190887470765	4063	31.69	128.23	4000K/82CRI	120-277	28
	2BLT4 46L ADP LP835	00190887468656	4960	38	130.5	3500K/82 CRI	120-277	28
	2BLT4 46L ADP LP840	00190887468649	5039.18	38	132.58	4000K/82CRI	120-277	28
	2BLT4 40L ADP EL14L LP835	00190887470925	4000	31.69	126.22	3500K/82 CRI	120-277	28
	2BLT4 40L ADP EL14L LP840	00190887470918	4063	31.69	128.23	4000K/82 CRI	120-277	28
	2BLT4 46L ADP EL14L LP835	00190887468670	4960	38	130.5	3500K/82 CRI	120-277	28
	2BLT4 46L ADP EL14L LP840	00190887468663	5039.18	38	132.58	4000K/82 CRI	120-277	28

*Generic 0-10V Dimming to 10%.

MOUNTING DATA	
Ceiling Type	**Appropriate Trim Type**
Exposed grid tee (1' and 9/16")	G
Concealed grid tee	G
Plaster or plasterboard	G*



*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 24-3/4" (Tolerance is +1/8", -0").

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CL**AIR**ITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved.

2BLT Volumetric Recessed Lighting 2'x4'

Accessories & Replacement Parts

Accessories: *Order as separate catalog number.*

DGA24	Drywall grid adapter for 2x4 recessed fixture
2X4SMKSHP PAF	Surface Mount Troffer Kit Post Paint
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

Replacement Parts: *Order as separate catalog number.*

*249P2N	2DBLT48 ADP LENS ASSEMBLY	4 ft. replacement lens
*249P2T	2DBLT48 SDP LENS ASSEMBLY	4 ft. replacement lens
*249P30	2DBLT48 ADSM LENS ASSEMBLY	4 ft. replacement lens
*249P33	2DBLT48 SDSM LENS ASSEMBLY	4 ft. replacement lens
*237LT2	2DBLT48 ADPT LENS ASSEMBLY	4 ft. replacement lens
*237LT4	2DBLT48 SDPT LENS ASSEMBLY	4 ft. replacement lens
*237LT6	2DBLT48 ADSMT LENS ASSEMBLY	4 ft. replacement lens
*237LT8	2DBLT48 SDSMT LENS ASSEMBLY	4 ft. replacement lens
*237LTA	2DBLT48 ADPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237M52	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237M5A	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237M5L	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

JOT Wireless

JOT Just One Touch

Sensor Switch JOT Enabled Wireless Solution

Designed with contractors in mind, the Sensor Switch JOT enabled wireless solution offers a straightforward approach to the installation and pairing of lighting fixtures and controls. Absolutely no 0-10V control wires and no mobile apps are needed with JOT enabled products, allowing for lightning speed installation right out of the box.

1. **Power:** Install JOT enabled fixtures and controls as instructed.
2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.



BLT Series



Sensor Switch
WSXA JOT



BLT Series
with integrated
JOT OCC
Sensors



Sensor Switch
SPODMRA JOT

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved. Rev. 04/26/23

2BLT Volumetric Recessed Lighting 2'x4'

nLight Platform

nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

nLight Air Wireless



BLT Series

Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CL**AIR**ITY+ app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



nLight AIR rPODBA

Mobile Device

nLight Wired Networking



BLT Series

Simple as 1,2,3

1. Install the nLight® Wired fixtures with embedded control
2. Install the nLight Wired wall switch
3. Connect the fixtures using standard CAT5e cables and the devices will automatically discover each other and work (plug and play)



nLight Wired nPODMA

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved. Rev. 04/26/23

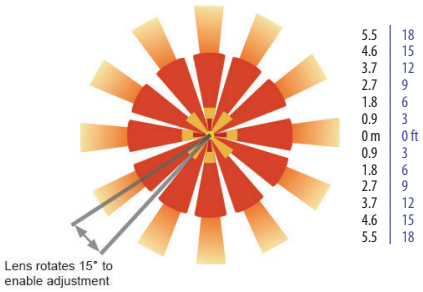
2BLT Volumetric Recessed Lighting 2'x4'

Sensor Options					
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking
		PIR	PDT		
MSD7ADCX	X	X			
MSDPDT7ADCX	X		X		
NES7		X		X	
NES7ADCX	X	X		X	
NESPDT7			X	X	
NESPDT7ADCX	X		X	X	
RES7	X	X			X
RESPDT7	X	X	X		X

Sensor Coverage Pattern
Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

9 FT Mounting



Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

nLight AIR Wireless

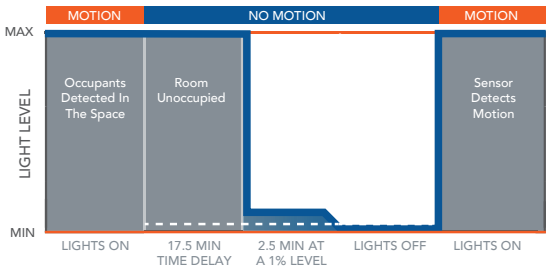
nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. The integrated rES7 or rES7PDT smart sensors are part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the nES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

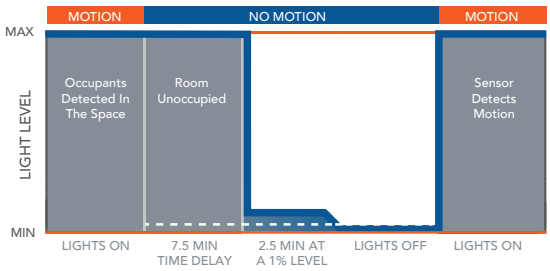
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the nESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation (MSD7 Sensor)



*The presetting on the automatic dimming photocell is 5fc.

Sequence of Operation (nES7 and rES7 and Sensor)



*The presetting on the automatic dimming photocell is 5fc (NES7) and 10fc (RES7).

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved.

2BLT Volumetric Recessed Lighting 2'x4'

Controls Accessories

nLight® Wired Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

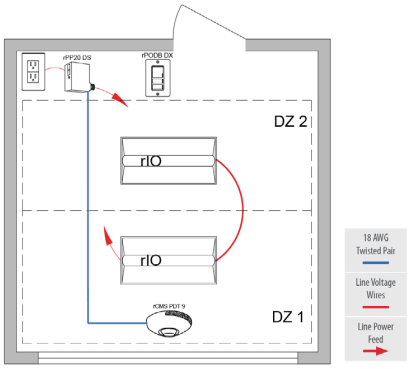
WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODMA [Color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODMA DX [Color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD TOUCH [Color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODBA [color] G2
On/Off two pole	rPODB A2P [color] G2
On/Off & raise/lower single pole	rPODBA DX [color] G2
On/Off & raise/lower two pole	rPODBA 2P DX [color] G2

BLT fixtures with integrated rIO devices complement any small office space. Pair them with an rCMS occupancy sensor and the space now has wireless occupancy sensing and dimming capability. For additional configuration options please consult with Tech Support.





rCMS[1] — **Example: RCMS PDT 10 AR G2**

Series / Detection	Power Supply[1]	Occupancy Detection	Lens (Required)	Operating Mode	Generation
RCMS nLight AIR occupancy and daylight sensor	[blank] Power Supply ordered separately PS 150 Standard 150 mA Power Supply	[blank] PIR Detection PDT Dual Tech PIR/ Microphonics	10 Large Motion/ Extended Range 360° 9 Small Motion/ Extended Range 360° 6 High Bay 360° Lens	[BLANK] None AR Auxiliary Relay	G2 Generation 2 compatibility

Notes
1 RCMS requires low voltage power from either RPP20 DS 24V G2 or PS150.


Sensor Switch WSX


nLight WIRED NPOD UNITOUCH


nLight WIRED nPODMA DX


nLight AIR rPODBA


BLT with rIO


rPODBA

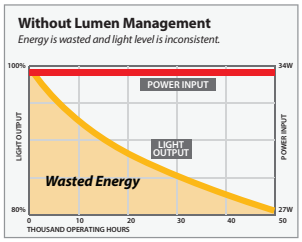

RCMS

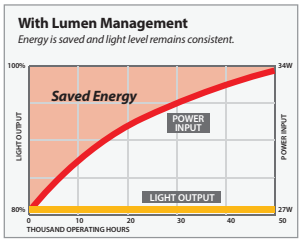
© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved.

2BLT Volumetric Recessed Lighting 2'x4'

Constant Lumen Management

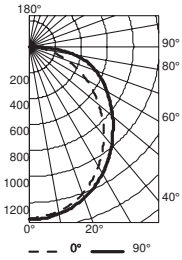
Enabled by the embedded nLight control, the BLT actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.





PHOTOMETRICS

2BLT4 40L ADP LP835, 4000 delivered lumens, test no. ISF36900P109, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1325	1325
5°	1309	1325
15°	1250	1278
25°	1136	1187
35°	981	1058
45°	797	909
55°	601	761
65°	408	621
75°	212	460
85°	48	197
90	1	17

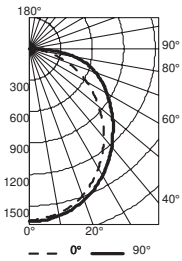
Coefficients of Utilization

RCR	pf 20% pc 80% pw	70%	50%	30%	pf 20% pc 70% pw	50%	30%	10%	pf 20% pc 50% pw	50%	30%	10%
0		119	119	119		116	116	116		111	111	111
1		108	102	97		100	96	92		96	92	89
2		97	88	81		86	80	74		83	77	72
3		88	77	69		76	68	61		72	66	60
4		81	68	59		67	58	52		64	57	51
5		74	61	51		60	51	44		57	50	44
6		68	55	45		54	45	39		52	44	38
7		63	50	40		49	40	34		47	39	34
8		59	45	36		44	36	30		43	36	30
9		55	41	33		41	33	27		40	32	27
10		52	38	30		38	30	25		37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1024	25.6	25.6
0° - 40°	1669	41.7	41.7
0° - 60°	2960	74.0	74.0
0° - 90°	3998	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4000	100.0	100.0

2BLT4 48L ADP LP835, 4960 delivered lumens, test no. ISF 36900P117, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1643	1643
5°	1623	1644
15°	1550	1585
25°	1409	1472
35°	1217	1312
45°	988	1127
55°	745	943
65°	505	769
75°	263	571
85°	59	244
90	1	21

Coefficients of Utilization

RCR	pf 20% pc 80% pw	70%	50%	30%	pf 20% pc 70% pw	50%	30%	10%	pf 20% pc 50% pw	50%	30%	10%
0		119	119	119		116	116	116		111	111	111
1		108	102	97		100	96	92		96	92	89
2		97	88	81		86	80	74		83	77	72
3		88	77	69		76	68	61		72	66	60
4		81	68	59		67	58	52		64	57	51
5		74	61	51		60	51	44		57	50	44
6		68	55	45		54	45	39		52	44	38
7		63	50	40		49	40	34		47	39	34
8		59	45	36		44	36	30		43	36	30
9		55	41	33		41	33	27		40	32	27
10		52	38	30		38	30	25		37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1270	25.6	25.6
0° - 40°	2070	41.7	41.7
0° - 60°	3671	74.0	74.0
0° - 90°	4957	100.0	100.0
90° - 120°	2	0.0	0.0
90° - 130°	2	0.0	0.0
90° - 150°	2	0.0	0.0
90° - 180°	2	0.0	0.0
0° - 180°	4960	100.0	100.0

UNIFIED GLARE RATING (UGR)

Lumen Package	UGR Values of BLT 2x4 @ **80CRI** and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)																			
	ADP		ADPT		ADSM		ADSMT		SDP		SDPT		SDSM		SDSMT		LUGR		LUGRT	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
30L	16.7	20.5	16.6	20.7	16.8	20.5	16.7	20.5	16.9	20.4	16.6	20.5	16.9	20.4	16.9	20.4	17	17.2	16.8	17.4
30LHE	16.8	20.7	16.8	20.8	16.9	20.6	16.8	20.7	17	20.6	16.8	20.7	17.1	20.5	17.1	20.6	16.9	17.2	16.8	17.3
40L	17.7	21.5	17.7	21.7	17.8	21.5	17.7	21.5	17.8	21.4	17.7	21.6	18	21.4	18	21.5	17.9	18.2	17.8	18.3
40LHE	17.8	21.6	17.8	21.8	17.9	21.6	17.8	21.6	18	21.5	17.7	21.6	18.1	21.5	18	21.6	17.9	18.1	17.7	18.2
48L	18.5	22.3	18.4	22.5	18.5	22.3	18.5	22.3	18.7	22.2	18.4	22.3	18.7	22.1	18.7	22.2	18.6	18.8	18.4	18.9
48LHE	18.3	22.2	18.3	22.3	18.4	22.1	18.3	22.2	18.5	22.1	18.3	22.2	18.6	22	18.6	22.1	18.8	19.1	18.7	19.2
60L	19.1	23	19.1	23.1	19.2	22.9	19.1	23	19.3	22.9	19.1	23	19.4	22.8	19.4	22.9	19.2	19.5	19.1	19.6
60LHE	19.1	22.9	19	23.1	19.1	22.9	19.1	22.9	19.3	22.8	19	22.9	19.3	22.7	19.3	22.8	19.2	19.4	19	19.5
72L	19.8	23.6	19.7	23.8	19.9	23.6	19.8	23.6	20	23.5	19.7	23.6	20.1	23.5	20	23.5	19.9	20.2	19.8	20.3
72LHE	19.7	23.6	19.7	23.7	19.8	23.5	19.7	23.6	19.9	23.5	19.7	23.6	20	23.4	20	23.5	19.8	20.1	19.7	20.2
85L	20.4	24.2	20.3	24.4	20.4	24.1	20.4	24.2	20.6	24.1	20.3	24.2	20.6	24	20.6	24.1	20.4	20.7	20.3	20.8
85LHE	20.2	24	20.2	24.2	20.3	24	20.2	24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.2	20.5	20.1	20.6
100L	20.8	24.7	20.8	24.8	20.9	24.6	20.8	24.7	21	24.6	20.8	24.7	21.1	24.5	21.1	24.6	20.9	21.2	20.7	21.3
120L	21.5	25.3	21.4	25.5	21.5	25.2	21.4	25.3	21.6	25.2	21.4	25.3	21.7	25.1	21.7	25.2	21.5	21.8	21.3	21.9

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values.
To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved.

2BLT Volumetric Recessed Lighting 2'x4'

Performance Data					
Model Number	**Lumens**	**LPW**	**Watts**	**DLC Listing**	**DLC ID**
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	3188	141.56	22.5	Premium	PWJDEMHS
2BLT4 30L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	3276	145.44	22.5	Premium	P18J5GLD
2BLT4 30L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	3201	142.13	22.5	Premium	P3HB2XSG
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4197	137.81	30.5	Premium	PDWKYXFD
2BLT4 40L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4312	141.58	30.5	Premium	PEYXAZWD
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	4102	134.67	30.5	Premium	PS63CPK6
2BLT4 40L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	4214	138.36	30.5	Premium	PK79UR9W
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	5032	128.09	39.3	Premium	PJ9CK6C1
2BLT4 48L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	5169	131.6	39.3	Premium	P9W2R5AK
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	4917	125.17	39.3	Premium	PPFKZU3U
2BLT4 48L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	5052	128.6	39.3	Premium	PC8HMCH9
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	6083	130.54	46.6	Premium	PSJ6QERM
2BLT4 60L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	6250	134.12	46.6	Premium	PVXQXPUV
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	5944	127.57	46.6	Premium	PHT84BW4
2BLT4 60L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	6107	131.06	46.6	Premium	PXV55BC8
2BLT4 72L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	7493	126.6	59.2		
2BLT4 72L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	7322	123.7	59.2		
2BLT4 72L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	7322	123.69	59.2	Standard	PDQS3CYK
2BLT4 72L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	7523	127.08	59.2	Standard	P2KKMMVN
2BLT4 85L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	8572	128.43	66.7	Standard	PYD2G06V
2BLT4 85L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	8699	130.33	66.7	Standard	P8Z4IV4X
2BLT4 85L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	8377	125.5	66.7	Standard	PTZEW3QM
2BLT4 85L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	8501	127.36	66.7	Standard	P01DMEK9
2BLT4 120L ADP EZ1 (GZ1, GZ10) LP835 [All Options]	11716	130.63	89.7	Standard	PGM4Y7DP
2BLT4 120L ADP EZ1 (GZ1, GZ10) LP840 [All Options]	11889	132.56	89.7	Standard	P0ODDCG2
2BLT4 120L ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	11449	127.65	89.7	Standard	PXM0FS09
2BLT4 120L ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	11619	129.54	89.7	Standard	PJ4GEBZM

DLC information is subject to change, for the most up-to-date information please refer to www.dlc.org. Above listings do not cover 347v or SLD.

HE Performance Data					
Model Number	**Lumens**	**LPW**	**Watts**	**DLC Listing**	**DLC ID**
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	3138	135.16	23.2	Premium	P7KEICW5
2BLT4 30LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	3224	138.86	23.2	Premium	PDOM06BH
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	3067	132.08	23.2	Premium	P7PZAJDZ
2BLT4 30LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	3151	135.7	23.2	Premium	P2N23EBP
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	4111	142.98	28.8	Premium	P67P6S5Y
2BLT4 40LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	4224	146.9	28.8	Premium	P95UQD66
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	4018	139.73	28.8	Premium	PC15DQEC
2BLT4 40LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	4128	143.55	28.8	Premium	PGRCSJ2T
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	5424	158.16	34.3	Premium	PXBJBGN8
2BLT4 48LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	5573	162.5	34.3	Premium	P5PQ5RRX
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	5301	154.56	34.3	Premium	P2NK2H33
2BLT4 48LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	5446	158.8	34.3	Premium	PK8C1321
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	5970	139.64	42.8	Premium	PQZN176R
2BLT4 60LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	6134	143.46	42.8	Premium	PG5CYJUC
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	5834	136.46	42.8	Premium	PZ72TAWM
2BLT4 60LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	5994	140.19	42.8	Premium	PRC4W72B
2BLT4 72LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	7275	144.19	50.5	Standard	PUB38GEQ
2BLT4 72LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	7475	148.14	50.5	Standard	P7GDHZTN
2BLT4 72LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	7110	140.91	50.5	Standard	P5CC2VKV
2BLT4 72LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	7304	144.77	50.5	Standard	P6P1BKDM
2BLT4 85LHE ADP EZ1 (GZ1, GZ10) LP835 [All Options]	8162	130.76	62.4	Standard	PRTW6BXW
2BLT4 85LHE ADP EZ1 (GZ1, GZ10) LP840 [All Options]	8283	132.69	62.4	Standard	P6H1V2D6
2BLT4 85LHE ADPT EZ1 (GZ1, GZ10) LP835 [All Options]	7977	127.78	62.4	Standard	P1VG5TA3
2BLT4 85LHE ADPT EZ1 (GZ1, GZ10) LP840 [All Options]	8095	129.67	62.4	Standard	PN5BKJ6E

DLC information is subject to change, for the most up-to-date information please refer to www.dlc.org. Above listings do not cover 347v or SLD.

How to Estimate Delivered Lumens in Emergency Mode
Use the formula below to estimate the delivered lumens in emergency mode
Delivered Lumens = 1.25 x P x LPW
P = Ouput power of emergency driver. P = 10W for E10WLCP option. LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

© 2016-2023 Acuity Brands Lighting, Inc. All rights reserved.

ADDENDUM #4 ATTACHMENTS

BID NUMBER: 26-05
ESPLANADE BUILDING 4 AND KALMUS BUILDING A INTERIOR IMPROVEMENTS

QUESTION 36 – Room 122 sink/casework coordination

Manual Sink Faucets
2300-8ABCP

CHICAGO FAUCETS
Geberit Group

Product Type

Deck-mounted manual sink faucet with 8" deck plate

Features & Specifications

- 8" fixed centers
- Pressure compensating Softflo aerator 2.2 GPM
- 4-5/8" lever handle
- Ceramic operating cartridge with volume control and hot water limit stop
- ECAST® design provides durable cast brass construction with total lead content equal to or less than 0.25% by weighted average
- Complies with the requirements of the Buy American Act of 1933.

Performance Specification

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F

Warranty

- 5-Year Limited Cartridge Warranty
- Lifetime Limited Faucet Warranty
- 1-Year Limited Finish Warranty

Codes & Standards

- ASME A112.18.1/CSA B125.1
- ADA ANSI/ICC A117.1
- NOTE: This fitting is not intended to be sold in California after January 1, 2016
- NSF/ANSI 372 Low Lead Content

Job Name _____

Item Number _____

Section/Tag _____

Model Specified _____

Architect _____

Engineer _____

Contractor _____

[ ] Submitted as Shown [ ] Submitted with Variations

Date _____



ECAST

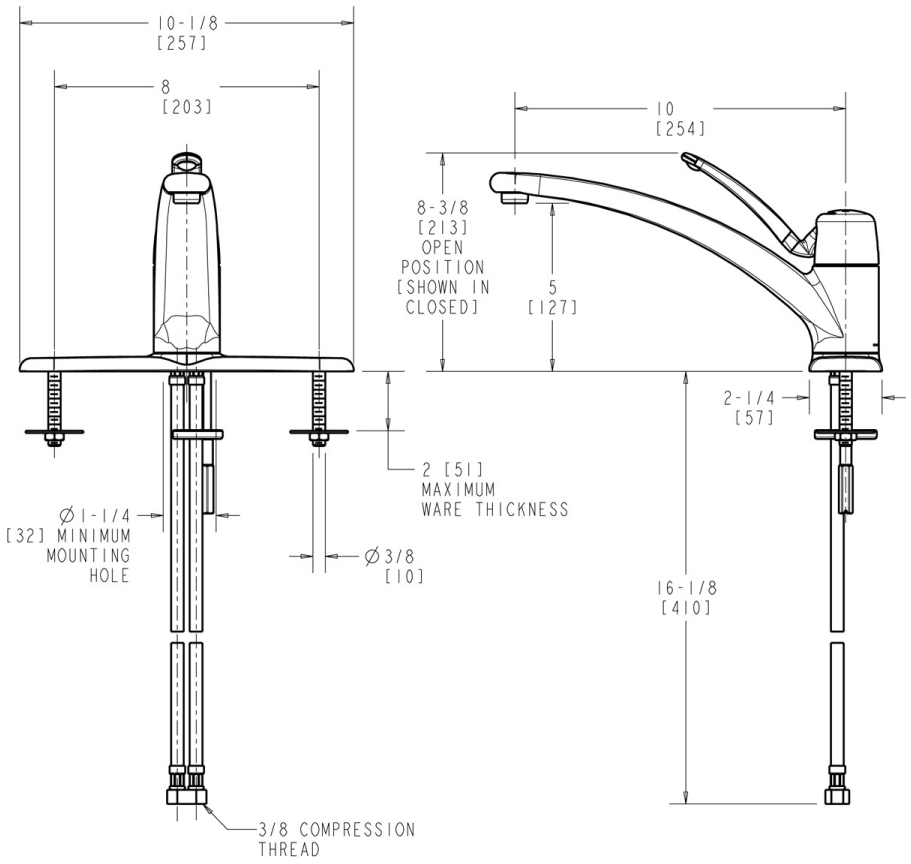
ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

2100 South Clearwater Drive
Des Plaines, IL
P: 847/803-5000
F: 847/803-5454
Technical: 800/TEC-TRUE
www.chicagofaucets.com

2300-8ABCP

Architect/Engineer Specification

Chicago Faucets No. 2300-8ABCP, Sink Faucet for hot and cold water, single lever, deck-mounted with 8" fixed centers, chrome plated. Integral, cast brass, swing spout, 10" center-to-center. 2.2 GPM (8.3 L/min) pressure compensating Softflo aerator. 4-5/8" metal lever handle with blue-and-red temperature indicator. Ceramic quarter-turn cartridge, features square, tapered stem. Flexible stainless steel supply hoses with 3/8" compression fitting. ECAST® construction with less than 0.25% lead content by weighted average. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152, and NSF/ANSI 372 Low Lead Content.



Operation and Maintenance

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at www.chicagofaucets.com.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.

2100 South Clearwater Drive
Des Plaines, IL
P: 847/803-5000
F: 847/803-5454
Technical: 800/TEC-TRUE
www.chicagofaucets.com

insinkerator®

Food Waste Disposers

POWER SERIES

Badger® 5XP



Submittal Sheet

Our Badger 5XP® model provides more power and a longer warranty than the Badger® 5 or Badger® 1.

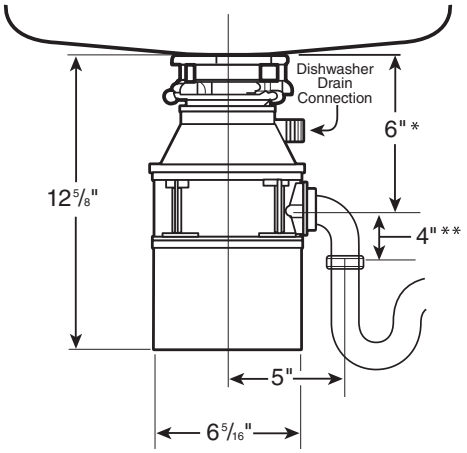
This model also offers the following features and benefits:

- 3/4 Horsepower Heavy Duty Motor (Quiet Dura-Drive® Induction Motor)
- 4-Year *We Come To You*® In-Home Parts And Labor Service Warranty
- Rugged Galvanized Steel Construction (For Disposer Durability)
- Space-Saving Compact Design
- Available with or without a factory installed power cord.

Specifications

Type of Feed	Continuous
On/Off Control	Wall Switch
Motor	Single Phase
HP	3/4
Volts	120
HZ	60
RPM	1725
Amp. (Avg. Load)	9.5
Time Rating	Intermittent
Lubrication	Permanently Lubricated Upper & Lower Bearings
Shipping Weight (Approx.)	15 lbs. 2 oz.
Unit Finish	Waterborne Grey Enamel
Overall Height	12-5/8"
Grind Chamber Capacity	26 oz.
Motor Protection	Manual Reset Overload
Average Water Usage	Approx. 1 Gallon per Person Per Day
Average Electrical Usage	3-4 KWh per Year
Drain Connection	1-1/2" Cushioned Slip Joint
Dishwasher Drain Connection	Yes
Factory Installed Power Cord	Available with or without

Dimensions



* Distance from bottom of sink to center line of disposer outlet. Add 1/2" when stainless steel sinks are used.

** Length of tailpipe from center line of disposer outlet to end of tailpipe. NOTE: Plumb waste line to prevent standing water in disposer motor housing.

Sample Specification

Food Waste Disposer(s) shall be InSinkErator Badger 5XP®, continuous feed, with 3/4 H.P. motor, galvanized steel grinding elements with two stainless steel 360° swivel lugs. Self-service wrench.

Available with or without a factory installed power cord.

Warranty:
4-Year parts and in-home service.

* The complete InSinkErator warranty is included in the Care & Use Booklet packed with each unit.

Food waste is roughly 80% water. By using your disposal regularly, you can help divert food waste from landfills and reduce greenhouse gas emissions. Make sustainability a family affair by using your disposal. After all, the smallest changes can make the biggest impact.

Job Specifications

c UL us LISTED · IAPMO Listed · ASSE 1008 · ASSE Sanitary Engineering · Assembled in USA

EMERSON™

The Emerson logo is a trademark and service mark of Emerson Electric Co. The mounting collar configuration is a trademark of Emerson Electric Co. Quick Lock® is a registered trademark of Emerson Electric Co.

InSinkErator may make improvements and/or changes in the specifications at any time, in its sole discretion, without notice or obligation and further reserves the right to change or discontinue models.

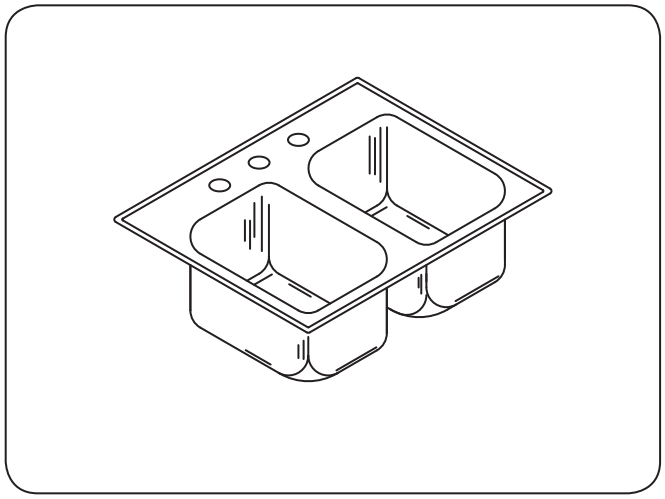
1-800-558-5700
www.insinkerator.com

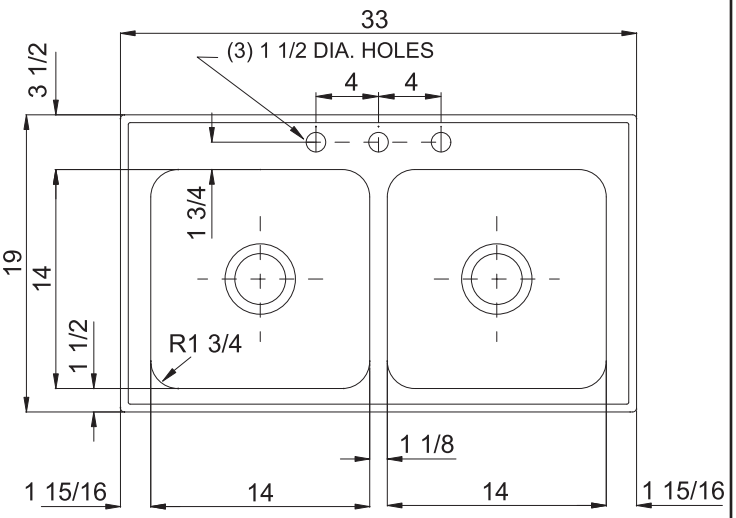
© 2019 InSinkErator, InSinkErator® is a business unit of Emerson Electric Co. All Rights Reserved.

DL-ADA-1933-A-GR

SUBMITTAL DATA

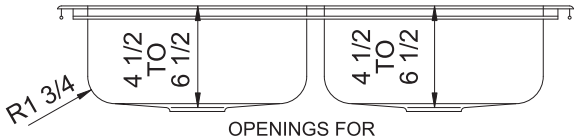
STYLIST GROUP
LEDGE TYPE - DOUBLE BOWL
18 GAUGE





SPECIFICATION

Seamless die-drawn construction of Type 304, 18-8 stainless steel. Interior and top surfaces polished to a non-porous Hand-Blended Just Finish with highlighted bowl rim. Fully coated underside insulated for sound and reduces condensation. Straight-sided compartment with radius corners provides greater capacity.Self-rimming top mount Grip-Rim Plus with stainless steel mounting channels. Conforms to ASME/ANSI A112.19.3M. Certified conformance with ASME A112.19.3/CSA B45.4, Canadian Standards (CSA), Uniform Plumbing Code (UPC) and Inter national Plumbing Code (IPC) and Americans with Disabilities Act(ADA).Drain punch 3-1/2” centered for Just J-35 drain.



OPENINGS FOR
J-35 CUP STRAINERS

10.60 Gallon Capacity*

Capacity Matters
Max ID sizing with straight sided bowl configuration (non tapered sides). Tight corner radius design.

**Capacity is based on 6-1/2” Depths*

CUTOUT DIMENSIONS		
Model Number	Front-to-Back	Left-to-Right
DL-ADA-1933-A-GR	18-1/4	32-1/4

FAUCET PUNCHING - MUST BE SPECIFIED	
☐ (1) Hole Centered	
☐ (2) Holes on 4" centers	
☐ (3) Holes on 4 "centers(illustrated)	
☐ Alternate Punching: Faucet Model:	Punching Required:

DEPTH - MUST BE SPECIFIED:					
☐ 4 1/2" DEEP	☐ 5" DEEP	☐ 5-1/2" DEEP	☐ 6" DEEP	☐ 6-1/2" DEEP	

DRAIN LOCATION - MUST BE SPECIFIED:				
☐ CENTER	☐ CENTER REAR	☐ LEFT REAR	☐ RIGHT REAR	

APPROVED FOR MANUFACTURING

MODEL NO.: DL-ADA-1933-A-GR QTY: _____

JOB NAME: _____

TAG/ITEM: _____

CUSTOMER: _____

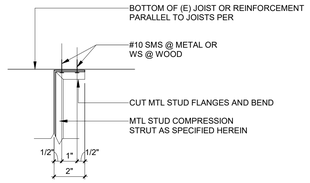
SIGNATURE: _____

MADE IN U.S.A.

JUST MFG. COMPANY CONTINUES TO MAKE QUALITY AND FUNCTIONALITY A MARK OF THE JUST PRODUCT LINE. TO DO SO REQUIRES THAT WE RESERVE THE RIGHT TO CHANGE PRODUCT INFORMATION WITHOUT NOTICE. DIMENSIONS MAY VARY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. NO RESPONSIBILITY IS ASSUMED FOR USE OF SUPERSEDED OR VOIDED DATA. FOR THE MOST CURRENT AND ACCURATE INFORMATION REGARDING THE COMPLETE LINE OF JUST SINKS, FAUCETS AND DRAINS, CLICK ON THE ***SPEC LINE DRAWINGS*** LINK ON OUR WEB SITE AT ***www.justmfg.com***

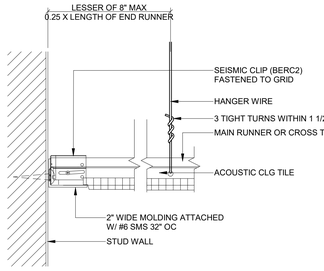
JUST MANUFACTURING COMPANY
9233 KING STREET . FRANKLIN PARK . ILLINOIS . 60131-2111
PH: 847-678-5150 . FAX: 847-678-6817 . E-MAIL: custserv@justmfg.com . www.justmfg.com

©2007-JUST MFG-REVISED-1/2009



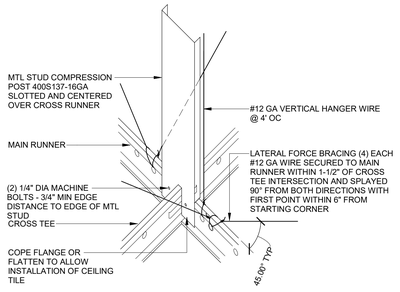
COMPRESSION STRUT TO DECK — D5

3" = 1'-0"



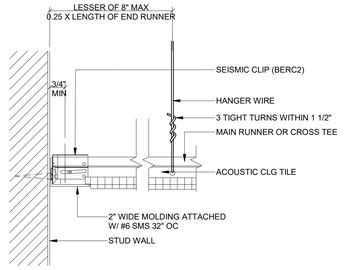
T-BAR GRID PERIMETER FIXED JOINT — C5

3" = 1'-0"



COMPRESSION STRUT TO T-BAR CLG — D4

3" = 1'-0"



T-BAR GRID PERIMETER SLIP JOINT — C4

3" = 1'-0"

ALLOWABLE CEILING SPANS - DEFLECTION LIMIT L/240						
SSMA NO/SIZE	GAGE	SPACING	A (IN^2)	I (IN^4)	S (IN^3)	ALLOW. SPAN
162S125-33	20	12	0.145	0.067	0.083	7'-0"
162S125-33	20	16	0.145	0.067	0.083	6'-4"
250S125-33	20	12	0.176	0.178	0.142	9'-7"

NOTE:
1) STEEL FRAMING DESCRIBED IN ICC ESR-3064P IS USED FOR FRAMING OF NONLOAD-BEARING INTERIOR WALLS, CURTAIN WALLS, AND LOAD-BEARING WALLS, FLOORS AND ROOFS.

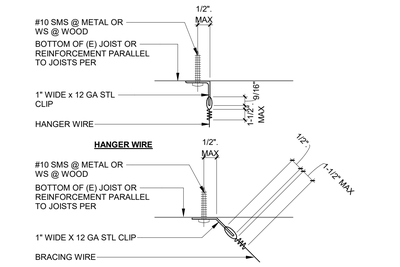
2) THE FRAMING MEMBERS MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE, APPROVED PLANS AND ICC ESR-3064P. IF THERE IS A CONFLICT BETWEEN APPROVED PLANS AND ICC ESR-3016, THE REPORT SHALL GOVERN.

3) ALL JOISTS SHALL BE FULLY SUPPORTED OR LATERALLY BRACED AT MIDSPAN.

4) LOADS ARE BASED ON 13 PSF ON STUDS WITH APPROVED CP60 COATING

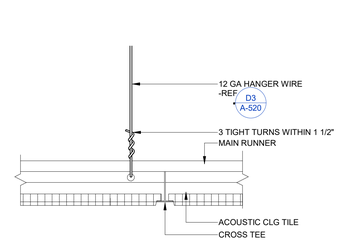
CEILING JOIST SCHEDULE — E3

12" = 1'-0"



BRACING & HANGER WIRE TO DECK — D3

3" = 1'-0"



HANGER WIRE TO T-BAR CLG — C3

3" = 1'-0"

EXPANSION ANCHORS INSTALLATION CRITERIA	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN ANCHOR SPACING (3 x EMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

EXPANSION ANCHOR ALLOWABLE STRENGTHS FOR NORMAL WEIGHT CONCRETE (f' MIN=3000 PSI)

ANCHOR DIA (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1020	961
1/2	2 1/4	1580	1101
1/2	3 1/4	2591	2003
5/8	3 1/4	2579	2150
5/8	4 1/4	3772	3113

EXPANSION ANCHOR GENERAL NOTES — B3

6" = 1'-0"

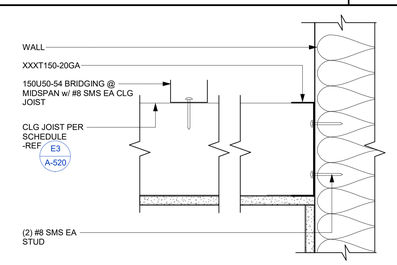
EXPANSION ANCHORS INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE **2025 CBC SECTION 1605A.3.1.**
2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS IN ACCORDANCE WITH THE TABLE & SECTION BELOW.
3. MINIMUM CONCRETE STRENGTH f'c=3000 PSI.
4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.
5. STEEL DECK TO BE MIN. 20 GA. W-DECK.
6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK IN ACCORDANCE WITH THE SECTION AND INSTALLATION CRITERIA BELOW.
7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION
8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE ARCHITECT RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.
9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO AHJ.
10. TESTING OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH **2025 CBC SECTION 1913A.7.**
11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY WITH THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.
12. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON **ACI 318-11 SECTION D.3.3.4.4** REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE **ICC ESRS 1917, 2427, 2502 & 3037** AND USING AN ALLOWABLE STRENGTH CONVERSION FACTOR OF 1.4.
13. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVER STRENGTH FACTOR IN ACCORDANCE WITH **ASCE 7-10 SECTION 12.4.3.3.**

NOTES — A1

6" = 1'-0"

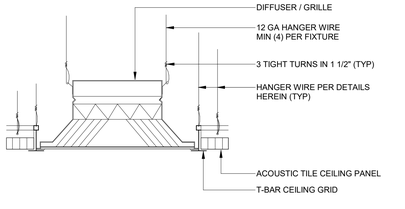
1. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO **ASTM A653-11** MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE **AISI S100-07/S2-10**, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAUGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAUGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON **TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION**. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ) FOR ANY SUBSTITUTIONS.
2. THE FOLLOWING REQUIREMENTS SHALL BE MET
   a. SHEET METAL SCREWS SHALL COMPLY WITH **ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118.** PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH **2025 CBC SECTION 1705A.2.**
   c. POST- INSTALLED ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE **2025 CBC SECTIONS 1705A.3 & 1913A.7.** FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE **2025 CBC SECTIONS 1616A.1.19 AND 1908A.1.1.** LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO AHJ) SHALL BE REQUIRED FOR FASTENER USED.
   d. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT **AC70**- ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE **2025 CBC SECTION 1908A.1.1.** LISTING OF CURRENT ICC ES EVALUATION REPORTS SHALL BE REQUIRED FOR FASTENERS USED.
   e. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO THE AHJ.
3. DESIGN CRITERIA
   a. BUILDING CODE: 2025 CALIFORNIA BUILDING CODE **(2025 CBC), ASCE 7-22, AISI S100-16/S2-20, ASTM E580-24a, C635-24a, AND C636-20**. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH **2025 CBC SECTION 1605A.3.1.**
   b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
   c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.
   d. THIS DESIGN IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINARIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS PROJECT AND WILL REQUIRE PROJECT SPECIFIC DESIGN.
4. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
5. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN **ASTM A641** (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
   a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
   b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
6. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH **ASTM C635 AND E580 SECTION 5.1**:
   a. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY **ASTM C635**.
   b. HANGER AND BRACING WIRES SHALL BE #12 GAUGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
   c. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.
7. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH **ASTM C636 AND E580 SECTION 5.2**:
   a. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8 INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS 8 INCHES OR LESS.
   b. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
   c. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS OPD.
   d. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8 INCHES OR LESS, THIS INTERCONNECTION IS NOT REQUIRED.
8. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS
   a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
   b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
   c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF 1 INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
9. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON. EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
   a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND 4 - #12 GAUGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
   b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
   d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
10. ATTACHMENT OF HANGER AND BRACING WIRES:
   a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
   b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES.
   c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
   d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.
   e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
   f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.
   g. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
11. CEILING FIXTURES, TERMINALS, AND DEVICES
   a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).
   b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
   c. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.
   d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAUGE. 12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
   e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LBS SHALL HAVE 2 -12 GAUGE SAFETY WIRES CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   g. ALL FIXTURES WEIGHING GREATER THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
   h. PENDANT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
   i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF 2 - 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.
12. ADDITIONAL REQUIREMENTS
   a. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
   b. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
   c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH **SECTION 13.5.6.2.2(1)** OF **ASCE 7-22** AS AMENDED BY **2025 CBC SECTION 1616A.1.20.** SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.



NOTE: "XXX" REFERENCES STUD DEPTH

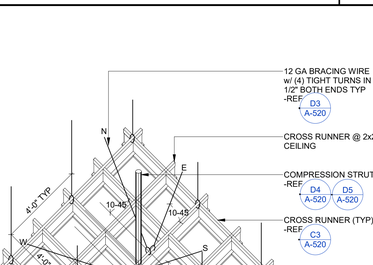
METAL STUD CEILING JOIST DETAIL — E2

3" = 1'-0"



MECH REGISTER AT T-BAR CLG — D2

1 1/2" = 1'-0"

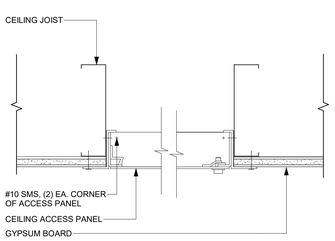


NOTES:

1. THE SUSPENDED CEILING FRAMING SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH ICC ESR REPORT AND THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
2. COMPRESSION STRUTS: STEEL SECTION WITH L/R RATIO OF 200 MAX STARTING NOT MORE THAN 3'-0" FROM ADJACENT WALLS TO SUPPORT A TRIBUTARY AREA OF 96 SF MAX. ATTACH TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER AS INDICATED HEREIN.
3. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE.
4. REFERENCE SUSPENDED T-BAR GENERAL NOTES -REF A1 A-520

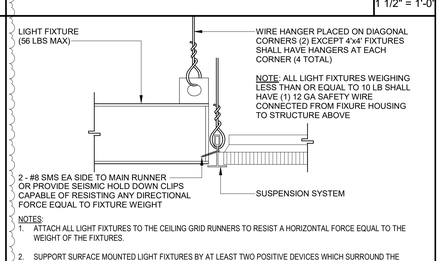
SUSPENDED T-BAR CEILING DIAGRAM — C1

3" = 1'-0"



CEILING ACCESS PANEL — E1

3" = 1'-0"



NOTES:

1. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
2. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA WIRE - SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.
3. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE - SPECIAL DETAILS ARE NECESSARY FOR THIS CONDITION AT THE CEILING GRID.

LIGHT FIXTURE TO T-BAR CLG — D1

1 1/2" = 1'-0"

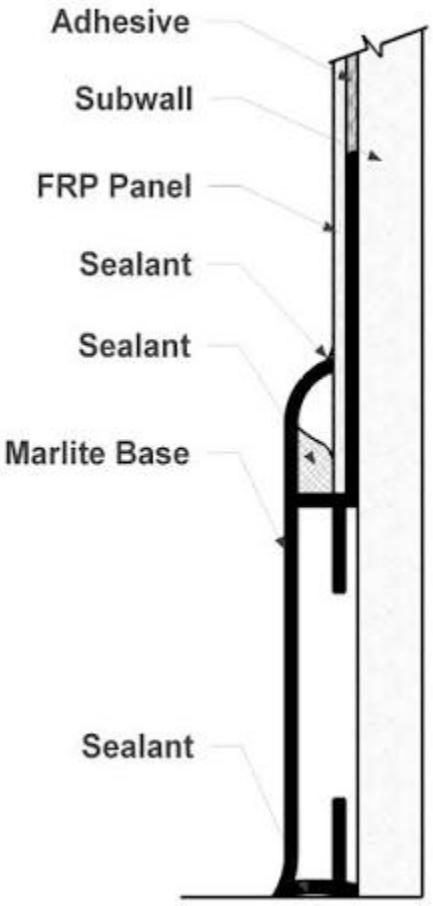
POWER ACTUATED FASTENER (PAF) INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).
2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE **2025 CBC SECTION 1605A.3.1.**
3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS IN SECTIONS BELOW. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE **ICC ESRS 1799, 2024, 2138 & 2269.**
4. MINIMUM CONCRETE STRENGTH f' =2000 PSI FOR NORMAL WEIGHT CONCRETE AND f' =3000 PSI FOR ALL LIGHT WEIGHT CONCRETE UNLESS OTHERWISE NOTED.
5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTIONS BELOW.
6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.
7. STEEL DECK SHALL BE A MINIMUM OF 20GA.
8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK SHALL BE A MINIMUM OF 3 1/4" LIGHT WEIGHT CONCRETE.
9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY **2025 CBC SECTION 1908A.1.1**) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY **2025 CBC SECTION 1616A.1.18** (NOT PERMITTED TO TAKE SEISMIC SHEAR BY **ICC-ES AC70** FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE

ADDENDUM #4 ATTACHMENTS

BID NUMBER: 26-05
ESPLANADE BUILDING 4 AND KALMUS BUILDING A INTERIOR IMPROVEMENTS

QUESTION 48 – FRP panels and base interface



ADDENDUM #4 ATTACHMENTS

BID NUMBER: 26-05
ESPLANADE BUILDING 4 AND KALMUS BUILDING A INTERIOR IMPROVEMENTS

QUESTION 61 – Disposer electrical connection

insinkerator®

Food Waste Disposers

POWER SERIES

Badger® 5XP



Submittal Sheet

Our Badger 5XP® model provides more power and a longer warranty than the Badger® 5 or Badger® 1.

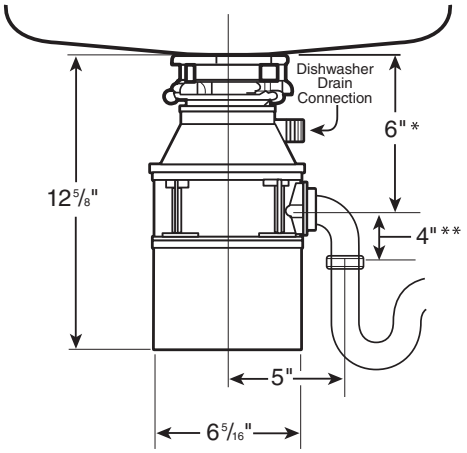
This model also offers the following features and benefits:

- 3/4 Horsepower Heavy Duty Motor (Quiet Dura-Drive® Induction Motor)
- 4-Year *We Come To You*® In-Home Parts And Labor Service Warranty
- Rugged Galvanized Steel Construction (For Disposer Durability)
- Space-Saving Compact Design
- Available with or without a factory installed power cord.

Specifications

Type of Feed	Continuous
On/Off Control	Wall Switch
Motor	Single Phase
HP	3/4
Volts	120
HZ	60
RPM	1725
Amp. (Avg. Load)	9.5
Time Rating	Intermittent
Lubrication	Permanently Lubricated Upper & Lower Bearings
Shipping Weight (Approx.)	15 lbs. 2 oz.
Unit Finish	Waterborne Grey Enamel
Overall Height	12-5/8"
Grind Chamber Capacity	26 oz.
Motor Protection	Manual Reset Overload
Average Water Usage	Approx. 1 Gallon per Person Per Day
Average Electrical Usage	3-4 KWh per Year
Drain Connection	1-1/2" Cushioned Slip Joint
Dishwasher Drain Connection	Yes
Factory Installed Power Cord	Available with or without

Dimensions



* Distance from bottom of sink to center line of disposer outlet. Add 1/2" when stainless steel sinks are used.

** Length of tailpipe from center line of disposer outlet to end of tailpipe. NOTE: Plumb waste line to prevent standing water in disposer motor housing.

Sample Specification

Food Waste Disposer(s) shall be InSinkErator Badger 5XP®, continuous feed, with 3/4 H.P. motor, galvanized steel grinding elements with two stainless steel 360° swivel lugs. Self-service wrench.

Available with or without a factory installed power cord.

Warranty:
4-Year parts and in-home service.

* The complete InSinkErator warranty is included in the Care & Use Booklet packed with each unit.

Food waste is roughly 80% water. By using your disposal regularly, you can help divert food waste from landfills and reduce greenhouse gas emissions. Make sustainability a family affair by using your disposal. After all, the smallest changes can make the biggest impact.

Job Specifications

c UL us LISTED · IAPMO Listed · ASSE 1008 · ASSE Sanitary Engineering · Assembled in USA

EMERSON™

The Emerson logo is a trademark and service mark of Emerson Electric Co. The mounting collar configuration is a trademark of Emerson Electric Co. Quick Lock® is a registered trademark of Emerson Electric Co.

InSinkErator may make improvements and/or changes in the specifications at any time, in its sole discretion, without notice or obligation and further reserves the right to change or discontinue models.

1-800-558-5700
www.insinkerator.com

© 2019 InSinkErator, InSinkErator® is a business unit of Emerson Electric Co. All Rights Reserved.