



## City of Dallas Commercial Project Chapter 61 Project Summary and Checklist New Construction

Summary						
<b>Date of Application</b>						
<b>Project Identification</b>						
<b>Project Address</b>						
<b>Owner Identification</b>						
<b>Architect Identification</b>						
<b>Contractor Identification</b>					<b>Permit No.</b>	
<b>Third Party Provider</b>					<b>Registration No.</b>	
<b>Building Code</b>	IBC	IBC Residential Occupancy				
<b>Occupancy/Use</b>				Mixed Use	Multifamily: IBC Group R Occupancy: (circle one) R-1. R-2. R-3. R-4	
<b>Number of:</b>	<b>Stories</b>					
<b>Parking</b>	Attached Garage	Open Lot	None			
<b>Building Sq. Footage</b>	<b>Lot Size:</b>		<b>Building Total Sq. Ft:</b>		<b>Area Under Roof:</b>	<b>Total Nonroof Area:</b>
<b>IECC Climate Zone</b>	3A					
<b>Zoning:</b>						
Chapter 61 is based on the IgCC 2015 with Dallas amendments. <b>Note: Buildings shall be designed and constructed in accordance with the Energy provisions of Dallas Energy code. Compliance with IECC must be demonstrated separately by City of Dallas registered Third Party Energy Inspector</b>						





Chapter 61								
Item	Green Building Practice	Plan Review		Inspection			Field Notes	Comments
		Yes	N/A	Yes	No	N/A		
<b>Chapter 3 Jurisdictional Requirements</b>								
	<b>Chapter 3 Jurisdictional Requirements</b>	Refer Table 302.1 for Requirement determined by the jurisdiction.						
<b>Chapter 4 Site Development and Land Use</b>								
Section 402.2 through 402.6 deleted								
<b>406</b>	<b>Building Site Waste Management</b>						Coordinate with Sections 502, 503 Verify requirements specified for waste management plan at plan review (Specification Section 017400). Completed waste management plan submitted by contractor prior to commencing work	
<b>406.1</b>	A building site waste management plan shall be developed and implemented to divert not less than 50% percent of the land-clearing debris and excavated soils from disposal. Land-clearing debris includes rock, trees, stumps and associated vegetation.						Plan must address disposal by reuse, recycling, effective/efficient material use; destruction and disposal of invasive plants; proper removal of contaminated soils. Require receipts and documentation maintained and available for review; coordinated with Section 503	
<b>407</b>	<b>Transportation Impact</b>						Verify at plan review; indicated on drawings	
<b>407.1</b>	Walkways and Bicycle Paths: 1. Minimum of one walkway and bike path connects streets and other paths to building entrances 2. Paved walkways and paths designed to minimize storm water runoff 3. Permeable and pervious pavements comply with Section 408.2.4.							
Section 407.2 through 407.4 deleted								
<b>408</b>	<b>Heat Island Mitigation</b>						Plan Review: Verify locations indicated on drawings; materials and required performance specified: Site Inspections/Submittals: Verify compliance Select one or any combination	
<b>408.2</b>	<b>Site Hardscape:</b> Minimum of 50% of hardscape shall be provided with one or combination of sections 408.2.1 through 408.2.4:							





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		Yes	N/A	Yes	No	N/A		
408.2.1	<b>Site hardscape materials:</b> Minimum initial SRI of 0.30							Note Exceptions
408.2.2	<b>Shading by structures</b>							
408.2.3	<b>Shading by trees</b>							
408.2.4	<b>Pervious pavement and permeable unit pavement:</b> Open grid paving systems, and open graded aggregate systems shall have an infiltration rate not less than 2 gallons / minute per square foot (100L / min x m <sup>2</sup> )							
408.3	<b>Roof Surfaces:</b> Minimum 75% of roof surfaces of buildings and covered parking:							Roof materials must be listed, labeled, and certified by manufacturer; Product testing must occur after 3 year exposure Note exceptions in the code Vegetative roof system must be preapproved by building official
408.3.1	<b>Roof coverings –solar reflectance and thermal emittance.</b> Aged SRI and Thermal Emittance complies with Table 408.3.1, Or							
408.3.2	<b>Vegetative roof</b>							
409	<b>Site Lighting</b>							Verify at plan review on site plan and through specifications; verify submittals; and site inspections Note Areas of Use in code
409.1	<b>Outdoor Lighting Restrictions: (Jurisdictional Requirement)</b>							Note exceptions in code.
409.1.1	<b>Area of Use:</b> Horizontal surface lighting is aimed straight down with full cutoff or fully shielded							
409.1.2	Maximum Lamp Wattage: <b>Commercial:</b> Fully shielded with maximum 250 watt lamp. <b>Residential:</b> Maximum 100 watts incandescent lamps or 32 watts for compact fluorescent bulbs.							
<b>Chapter 5 Material Resource Conservation and Efficiency</b>								
501	<b>Materials Selection</b>							
502	<b>Construction Material Management</b>							Coordinate with Section 406





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		Yes	N/A	Yes	No	N/A		
502.1.1	<b>Storage and Handling of Materials:</b> Comply with applicable manufacturer's printed or electronic media instructions for storage and handling							
502.1.2	<b>Construction Phase Moisture Control:</b> Materials protected from moisture							
503	<b>Construction Waste Management</b>						Plan Review: Verify requirements specified for waste management plan (Specification Section 017400) Submittal: Completed WMP submitted by contractor prior to commencing work Final Inspection: Diversion documentation submitted	
503.1	<b>Construction Material and Waste Management Plan: (Jurisdictional Requirement)</b> A CMWMP shall be developed and implemented to recycle or salvage construction materials and waste where such salvage and recycling facilities are available within 75 miles of building site. Divert not less than 50 % of the waste; OR						Construction Submittal: CMWM Plan, sorting location shown on submittal drawings Final Inspection: Diversion documentation The percentage shall be calculated by weight, or volume, but not both.	
	For projects that generate not more than 2.5 pounds per square foot of affected project area, divert not less than 25% of the waste; OR						CMWM Plan will need to be able to prove up the criteria	
	For projects that generate not more than 1.5 pounds per square foot and the project area is 2,500 square feet or less, then diversion is not required.						CMWM Plan will need to be able to prove up the criteria	
504	<b>Waste Management and Recycling</b>							
504.1	Recycling areas for waste generated post certificate of occupancy.						Plan Review: Verify designated post occupancy recycling area	





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		Yes	N/A	Yes	No	N/A		
505	<b>Material Selection</b>							Plan Review: Review specifications Submittal: Verify submittals and contractor documentation; minimum 45% of total building materials complies with required attributes Calculate by mass (weight), volume, or cost. Material may comply with multiple attributes
505.1	<b>Material selection and properties:</b> Building materials shall conform to Section 505.2, 505.3, Or 505.4							
505.2	<b>Material Selection:</b> Minimum 45% of total building materials shall comply with any of the following:							
505.2.1	<b>Used Materials and components</b>							Reuse of materials without additional processing
505.2.2	<b>Recycled content building material:</b> shall comply with one of the following: 1. Contains minimum 25 percent combined postconsumer and preconsumer recovered material, and comply with Section 505.2.3 2. Contains minimum 50 percent combined postconsumer and preconsumer recovered material							
505.2.3	<b>Recyclable Building Materials and Building Components:</b> shall comply with one of the following: 1. Materials capable of being recycled with minimum recovery rate of at least 30 percent, or 2. Materials recyclable through manufacturer take back program							





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505.2.4	<b>Bio-based Materials:</b> shall comply with one or more of the following: 1. Minimum content of 75% compliance with ASTM D 6866; 2. Wood and wood products compliant with SFI Standard, FSC STD-40-004 V2-1EN, PEFC Council Technical Document 3. Compliant with USDA 7CRF Part 2902							
505.2.5	<b>Indigenous Materials:</b> Resources that are recovered, harvested, extracted, and manufactured within a 500 miles radius of the building site.							
Section 505.3 through 505.4: Deleted								
506	<b>Lamps</b>							Verify through construction submittals, site inspections
506.1	<b>Mercury content in fluorescent Lamps:</b> Mercury content in lamps shall comply as follows:							Note exception
506.1.1	<b>Straight Fluorescent Lamps:</b> shall comply with: 1. T-5 lamps with rated lifetime of less than 25,00 hrs at 3 hrs per start, shall contain a not more than an average of 3 milligrams of mercury per lamp 2. T-8 lamps with rated lifetime less than 25,000 hrs at 3 hrs per start, on an instant start ballast shall contain not more than an average of 4 milligrams of mercury per lamp 3. All other T5 or T8 lamps shall contain not more than an average of 5 milligrams of mercury per lamp							Verify with submittals and at site inspections





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506.1.2	<b>Compact Fluorescent Lamps:</b> Maximum mercury content 5 milligrams per lamp, shall be listed and labeled in accordance with UL 1993.							Verify with submittals and at site inspections
<b>Chapter 6 Energy Conservation, Efficiency, and CO<sub>2</sub>e Emission Reduction</b>							<b>Buildings shall be designed and constructed in accordance with energy provisions of the Dallas Energy Code</b>	
<b>Chapter 7 Water Resource Conservations, Quality, and Efficiency</b>								
701.2	<b>Water usage Metering required:</b> Water consumed from any source associated with building or building site may be metered.							IgCC Table 701.2.1 required for application and metering <b>Exception:</b> Fire sprinkler systems installed in accordance with Section 903.3 of Dallas Fire Code shall not be required to be metered.
701.2.1	<b>Individual metering required:</b> All Potable and non-potable water individually metered per Table 701.2.1, or appliances/equipment shall be grouped and supplied from piping connected to a single meter.							IgCC Table 701.2.1 required for application and metering. <b>Exception:</b> In Group I-2 occupancies and ambulatory care facilities, water used for patient treatment or to support patient care shall not be required to be individually metered.
702	<b>Fixtures, Fittings, Equipment, and Appliances</b>							Verify at plan review; with construction submittals, verify at site inspections
702.1	<b>Fitting and Fixture Consumption:</b> Comply with table 702.1, and the following:							Refer to Table 702.1 and notes  Average flow rate is per fixture.
	1. Dwelling Unit/Guestroom showerheads: max 2.0 gpm							Refer to manufacturer data sheets to verify
	2. Combined Flow Rate Simultaneous water outlets: max 2.0 gpm							
	3. Gang Showers: max 2.0 gpm							
	4. IBC Chapter 11 Accessibility: max 4.0 gpm							
Section 702.2 through 702.6 deleted.								
702.7	<b>Hot and Tempered Water Distribution:</b> Shall comply with either of the following sections:							Plan Review: Verify drawings; water calculations required. Site Inspections: Verify





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702.7.1	<b>Maximum allowable pipe length method:</b> Table 702.7.2(2) through 702.7.2(10). Where type of pipe is unknown table 702.2(1) shall be used, <b>OR</b>							The end of the fixture supply pipe to the fixture is the end of the measurement point to the fixture.
702.7.2	<b>Maximum allowable pipe volume method:</b> Water volume in the piping shall be calculated in accordance with Section 702.7.2.1							
702.7.2.1	<b>Maximum volume determination:</b> Volume shall be determined using Tables 702.7.2(2) through 702.7.2(10). Where type of pipe is unknown table 702.2(1) shall be used,							
<b>Section 702.8 through 702.19 deleted</b>								
703	<b>HVAC Systems and Equipment</b>							For applicable provisions, review at plan review, verify with submittals and at site inspections
703.1	<b>Hydronic Closed System:</b> is not connected to potable makeup water supply							
703.2	<b>Humidification System:</b> System locked out when relative humidity greater than 55%							Note exceptions
703.3	<b>Condensate Coolers and Tempering:</b> Potable water not used as tempering water for sanitary discharge							Note volume requirement
703.4	<b>Condensate Drainage Recovery:</b> Condensate collected and reused onsite							Note conditions of collection and reuse and exception
703.5	<b>Heat Exchangers:</b> Heat exchanger connected to recirculating water system							Once through cooling prohibited
703.6	<b>Humidifier Discharge:</b> Water discharge collected for reuse							
703.7	<b>Cooling Towers, Evaporative Condensers, &amp; Fluid Coolers</b>							Coordinated with IMP Section 908; Location on site governed by IBC







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703.7.1	<b>Location:</b> Located to prevent discharge vapor plumes from entering occupied spaces							
703.7.2	<b>Once through cooling:</b> prohibited							
703.7.3	<b>Controllers and alarms:</b> Equipped with controllers, alarms, and high water level sensors							
703.7.4	<b>Drift:</b> Maximum drift loss of 0.002% of recirculated water volume for counter flow system; maximum 0.005 % of recirculated water for cross flow system							
703.7.5	<b>Water quality:</b> Nonpotable water complies with water quality and treatment process of AHJ and manufacturer guidelines							
Section 703.7.6 through 703.8 deleted								
703.9	<b>Evaporative Cooling:</b> Systems shall use less than 4 gallons of water per ton-hour (4.2 L per kWh) at maximum use.							Water use information shall be readily available at site inspection
703.9.1	<b>Overflow alarm</b>							
703.9.1.1	<b>Group I-2 condition 2 occupancies overflow alarm supervision</b>							
703.9.2	<b>Automatic pump shutoff</b>							
703.9.3	<b>Cooler reservoir discharge</b>							
703.9.4	<b>Discharge water reuse</b>							
703.9.5	<b>Discharge water to drain</b>							
704	<b>Water Treatment Devices and Equipment</b>							If provision is applicable to project, verify at plan review, with submittals, site inspections
704.1	<b>Water Softeners:</b> Shall comply with sections 704.1.1 through 704.1.4							
704.1.1	<b>Demand initiated regeneration control system</b>							





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704.1.2	<b>Water Consumption:</b> Maximum water consumption limited during regeneration to 5 gallons per 1000 grains (NFS 44)							
704.1.3	<b>Waste connection:</b> does not discharge to reclaimed water collection system, discharge per IPC							
704.1.4	<b>Efficiency &amp; listing:</b> per NFS 44							
704.2	<b>Reverse osmosis water treatment system:</b> NSF 58 listed and labeled with discharge pipe from unit connected to building drainage system and point of use system equipped with automatic shutoff valve							Coordinated with IPC Section 611.2.
704.3	<b>Onsite reclaimed water treatment systems:</b> listed and labeled to NSF 350							Inspected by Building Inspections
<b>Chapter 8 Indoor Environmental Quality and Comfort</b>								
801	<b>Indoor Air Quality Management Plan</b>							Plan Review: Construction IAQ plan requirements (Specification Section 0157xx) Submittal: Contractor submits plan prior to commencement of construction Inspection: Verify plan exist and is followed
801.2	Indoor air quality Management Plan required							
802	<b>Building Construction Features, Operations, and Maintenance Facilitation</b>							Site verify reasonable access to air handling system and filters for cleaning and replacement exists
802.2	Air-handling system access							
802.3	Air-handling filtration and bypass pathways							
803	<b>HVAC Systems</b>							
803.1.1	<b>Duct openings:</b> covered during construction. Dust and debris cleaned from ducts prior to system start up							





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803.1.2	<b>Indoor air quality during construction:</b> Temporary ventilation during construction per sections 803.1.2.1 through 803.1.2.3							
803.1.2.1	<b>Ventilation:</b> Temporary ventilation during construction per sections 803.1.2.1 through 803.1.2.3							
803.1.2.2	<b>Protection of HVAC system openings</b>							
803.1.2.3	<b>Return air filters:</b> New return air filters installed prior to system flushout and building occupancy							
803.1.3	<b>Construction Phase Ductless System or Filters:</b> MERV 8 or greater per ASHRAE 52.2, compatible system design							
803.2	<b>Thermal environmental conditions for human occupancy:</b> Building mechanical systems designed per ASHRAE 55							
803.3	<b>Isolation of pollutant sources:</b> Enclosed spaces for printers, copiers, and janitorial room							Plan Review: Verify indicated in specifications Inspection: Verify at final inspection
803.3.1	<b>Printer, copier, and janitorial rooms:</b> Enclosed spaces for printers, copiers, and janitorial room							
803.4	<b>Filters:</b> HVAC system designed for minimum MERV 11 filters per ASHRAE 52.2; no pressure drop Minimum MERV 11 filters installed							Plan Review: Verify indicated in specifications. Note: Exception for multifamily (Minimum MERV 6 for systems rated up to 30,000 BTU or MERV 8 for systems rated between 30,000 to 60,000 BTUs)
804	<b>Specific Air Indoor Quality and Pollutant Control Measures</b>							Section 804.2 amended
804.1	<b>Fireplaces and appliance:</b> Fireplaces and fuel burning appliances vented to outdoors							Plan Review: Indicated on drawings Inspection: Visual verification
804.1.1	<b>Venting and combustion air:</b> Fireplaces and fuel burning appliances provided with combustion air from outdoors							Plan Review: Indicated in specifications





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804.1.2	<b>Wood fired appliances:</b> Wood burning appliances listed and labeled per EPA standards							Plan Review: Indicated in specifications Inspection: Visual inspection
804.1.3	<b>Biomass appliances:</b> Biomass fireplaces listed and labeled per ASTM E1509 or UL 1482							Plan Review: Indicated in specifications Inspection: Visual verification
	Biomass furnaces listed and labeled per CSA B366.1 or UL 391							Plan Review: Indicated in specifications Inspection: Visual verification
	Biomass boilers listed and labeled per CSA B366.1 or UL 2523							Plan Review: Indicated in specifications Inspection: Visual verification
804.2	<b>Post Construction, Preoccupancy Baseline IAQ Testing: (Jurisdictional Requirement)</b> First time occupied space tested for VOC compliance							Plan Review: Indicated in specifications Submittal: Contractor submits prior to commencement of construction Jurisdictional requirement per IgCC Table 302.1: Note exceptions.
	If space failed testing, building flushed for 14 days							Note: Occupancy shall be permitted to start 7 days after start of the flush out.
805	<b>Prohibited Materials</b>							Plan Review: Verify through specified materials (project specifications); field verify at site inspections
805.1	The use of following materials shall be prohibited: 1. No asbestos containing materials 2. No urea formaldehyde foam insulation							
806	<b>Material Emissions and Pollutant Control</b>							Plan Review: Indicated in specifications); verified through product submittals and visual verification at inspections
806.1	<b>Emissions from Composite Wood Products:</b> Compliance IgCC Table 806.1							
806.2	<b>Adhesive and Sealants:</b> Minimum 85% comply with VOC content per IgCC Table 806.2(1) or Table 806.2(2)							Note exceptions
806.3	<b>Architectural paints and coatings:</b> Minimum 85% comply with IgCC Table 806.3(1)							
806.4	<b>Flooring:</b> Minimum 85% comply with IgCC Table 806.4(2)							Note exceptions





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		Yes	N/A	Yes	No	N/A		
806.5	<b>Acoustical Ceiling Tiles and Wall Systems:</b> Minimum 85% comply with IgCC Tables 806.5(2)							Note exemptions
806.6	<b>Insulation:</b> Minimum 85% comply with Table 806.6(1)							
Sections 807 through 808 deleted								
Chapter 9, 10, and 11: Deleted								
End of Chapter 61 Checklist								

