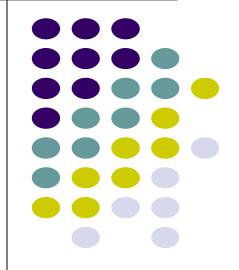
# City of Scottsdale Green Code Adoption

Top 10 Green Code Provisions 2021 International Green Construction Code

April 16, 2024

Anthony Floyd, FAIA, LEED BD+C, NOMA Office of Environmental Initiatives Planning and Development Community and Economic Development City of Scottsdale





PROGRAM

## IgCC Adoption as Mandatory Code Multifamily and Commercial



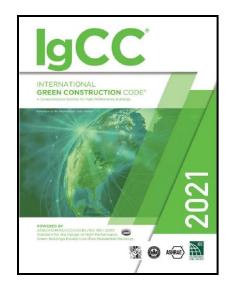
- IgCC Categories
  - Site Sustainability
  - Water Use Efficiency
  - Energy Efficiency (IECC)
  - Indoor Environmental Quality
  - Materials and Resources



Scottsdale is the first jurisdiction in the state to adopt a mandatory green construction code and one of the first in the nation.



# **International Green Construction Code**





### Application

- New commercial, multifamily, remodels and TIs
- LEED is deemed to comply

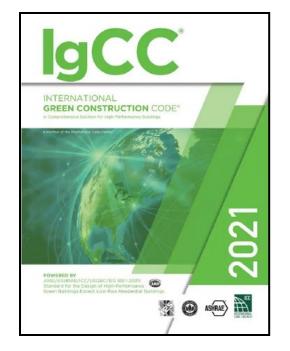
### Scope

- Heat Island Mitigation
- Indoor and outdoor water efficiency
- On-site renewable energy
- Indoor environmental quality
- Construction waste management
- Recycling infrastructure
- Reduced impact building materials

# **IgCC for Multifamily and Commercial**

### Top 10 Green Code Provisions

- 1. Heat Island Mitigation
- 2. Water Use Efficiency
- 3. Cool Roofs
- 4. On-Site Renewable Energy
- 5. Solar-Ready Zone
- 6. EV Charging Infrastructure
- 7. Construction Waste Management
- 8. Recycling Facilities
- 9. Reduced Impact Materials
- 10. Indoor Environmental Quality





# **1** IgCC and Site Sustainability

## **Head Island Mitigation**

- At least 50% of site hardscape shall be shaded by structures or trees

   or
- Light color paving surfaces with a solar reflective index (SRI) of 29 or more











# **2** IPC/IECC/IgCC Water Conservation



### Water Efficiency in Plumbing, Energy and Green codes

- High-efficiency plumbing fixtures and fittings
  - Water closets, urinals, lavatory faucets, showerheads, kitchen faucets
- Efficient hot water delivery
  - Pipe insulation and circulation pumps for remotely located water heaters
- Commercial food service operations
  - High-efficiency prewash spray valves
  - Dishwashers and ice machines
- Water-bottle filling stations
  - Water-bottle filling stations for all drinking fountains









### Water Efficiency in Green codes

### Water softeners

- Water softeners shall be equipped with <u>demand-initiated regeneration</u> control systems. Timer-based control systems are prohibited.
- <u>Reverse osmosis water treatment</u>
  - Reverse osmosis systems shall be equipped with an automatic shutoff valve that prevents the production of reject water when there is no demand for treated water.
- Water efficient HVAC systems
  - Once-through cooling with potable water is prohibited.

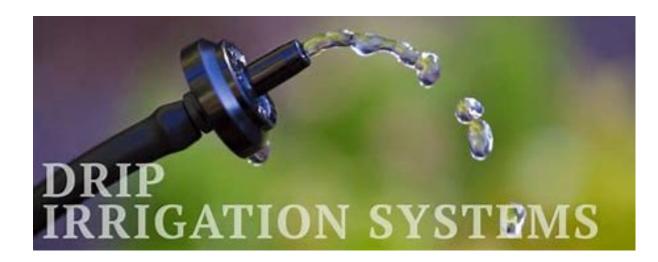




# **2** IgCC Water Conservation

### **Outdoor Water Efficiency**

- Weather-based smart controllers that are <u>WaterSense</u> labeled
- Efficient irrigation system design







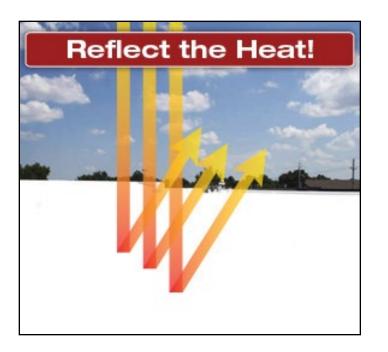






### Low Slope roofs (less than 2 in 12 slope)

### Solar reflectance index (SRI) of 64 or higher over conditioned and non-conditioned spaces





# 4 IgCC and Renewable Energy

- On-site solar PV system shall be provided with a total rated capacity of one of the following:
  - 1. Not less than <u>3% of estimated annual energy</u> used within the building for heating, cooling and lighting
  - 2. Not less than <u>2 watts per sq. ft.</u> of roof area over conditioned space

### Exceptions:

- 1. Building floor area less than <u>5,000 sq ft</u>
- 2. Energy efficiency measures resulting in 20% annual energy savings







### Solar-Ready Zone

 Minimum 40% of roof area free and clear of obstructions

### **Exceptions**:

- 1. A building with an installed, on-site renewable energy system
- 2. Roof areas obstructed by roof decks, walkways, equipment, vents, skylights

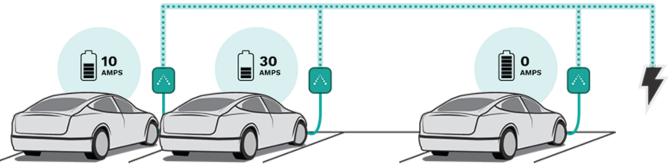


## 6 Electric Vehicle Capable Charging 2021 IECC Section C405.13

### New Multifamily & Hotels

- <u>4%-installed</u> and <u>20% EV-capable</u> parking spaces shall provide accommodates for future EV charging (ALMS)
- For EV-capable, <u>reserve electrical service panel space</u> for future circuit breakers labeled "<u>Future EV Charging</u>"
- Install raceway from the electrical service panel to parking area, with junction box or outlet labeled "Future EV Charging".



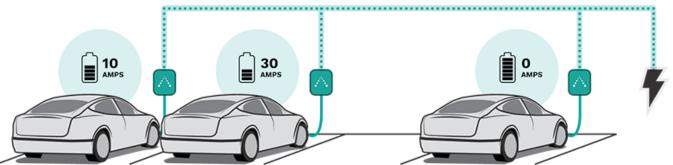




## 6 Electric Vehicle Capable Charging 2021 IgCC Section 501.3.7.3

### New Commercial Buildings

- <u>4%-installed</u> and <u>10% EV-capable</u> parking spaces shall provide accommodates for future EV charging (ALMS)
- For EV-capable, <u>reserve electrical service panel space</u> for future circuit breakers labeled "<u>Future EV Charging</u>"
- Install raceway from the electrical service panel to parking area, with junction box or outlet labeled "Future EV Charging".





Source: EverCharge SmartPower

# 7 IgCC and Building Waste Multifamily and Commercial



### **Construction Waste Management**

- Divert not less than <u>50% of construction waste</u> from landfill for recycling and reuse
- Metal, wood, cardboard, foam, concrete, masonry, asphalt
- Recyclable materials can be comingled and sorted off-site at <u>Material Recovery Facility</u> (MRF)



### **Plan Review Correction Stamp**

### **CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT**

Add note: "A minimum of 50% of nonhazardous construction, demolition, or deconstruction waste material shall be diverted from disposal in landfills and incinerators through reuse, recycling, repurposing, and/or composting. Such materials include paper, cardboard, concrete, masonry, wood, and metal. All diversion calculations shall be based on weight throughout the construction process (IgCC 901.3.1.1)."

"The following Construction and Demolition Waste Management Plan form must be submitted prior to permit issuance –

https://www.scottsdaleaz.gov/Assets/ScottsdaleAZ/Design/greenbuilding/2021+IgCC+Construction+Demolition+Waste+Management+Plan.pdf "



### Construction and Demolition Waste Management Plan - 2021 IgCC

lan Review #_6374-23 Permit No #				
Building Project Information				
Project Name: Berkley Insurance TI Date: 10/27/2023				
Project Address:	85260			
Contractor: Clune Construction Company Phone: 480-901-2969				
Owner: Berkley Insurance Company				
When Required				
Construction and Demolition (C&D) Waste Management: Complete this form for all new construction, demolition or deconstruction for buildings with a total floor area of <u>5,000 sq. ft. or more</u> (IgCC amended Sec. 901.3.1.1). Review: This form must be submitted and approved before permit(s) are issued.				
Materials to be Recycled				
At least 50% of all construction debris must be diverted from the landfill by either source-separating the waste by material type or by mixing the materials in a mixed C&D materials container. Mixed C&D materials are required to be processed at a mixed C&D sorting facility. See Definitions on next page for more information. Recycled and salvaged materials include but not limited to metal, wood, cardboard, paper, plastic, masonry, tile, concrete, and asphalt.				
Material Management				
How will the C&D debris be collected on proj	ect site: 📕 Source-Separated	□ Mixed C&D		
Materials to be collected & hauled	Facilities to receive materi	als for reuse		
Ceiling tiles and grid	Ceiling tiles and grid Northwest Regional 19401 W Deer Valley Rd, Surprise, AZ			
metal track, studs and screws	Liberty Metals 4708 W Pasadena Ave, Phoenix, AZ			
Millwork - 1 dimensional lumber Grow Well 2807 S 27th Ave, Phoenix, AZ				
	velopment Services	70.90		

#### Construction Waste Management (continued)

Materials to be collected & hauled	Facilities to receive materials for reuse			
Electrical piping	Liberty Metals 4708 W Pasadena Ave, Phoenix, AZ			
Aluminum Framing	Liberty Metals 4708 W Pasadena Ave, Phoenix, AZ			
Carpet and Tile	Northwest Regional 19401 W Deer Valley Rd, Surprise, AZ			
Glass	Sky harbor transfer - for recycling at Northwest Regional 19401 W Deer Valley Rd, Surprise, AZ			
Definitions				
Self-haul: Permit holder, general contractor, or a sub recycling, reuse, salvaging or disposal at recycling/wa				
Hauler: A company that collects, hauls and tracks mi	xed C&D materials for diversion from landfill.			
Source separation: Collection of wood, metal, cardboard, and other recyclables in separate containers.				
Mixed C&D material: Collection of all recyclable material in same container. Mixed material is required to be sent to a mixed C&D sorting facility to have the recyclable materials extracted and recovered. This option will save the most space on tight construction sites.				
Mixed C&D sorting facility: Specialized facilities that extract recyclable materials from mixed C&D debris. All mixed C&D material must go to a mixed C&D sorting facility.				
Terms and Conditions				
1. This <u>C &amp; D Waste Management Plan</u> must be kept on the job site in the permit folder for the duration of the project. City of Scottsdale staff may enter the jobsite to inspect waste and recycled collection areas.				
2. Salvaged materials, recyclables, and waste shall be tracked and documented by means of receipts from the waste management subcontractor. <u>Percentages of all salvaged, recycled and waste materials shall be calculated, demonstrating amounts based on weight and entered into the waste diversion log, including information from any subcontractors who self-hauled their own debris off-site.</u>				
<ol> <li>Documentation shall be maintained through the course of construction. Where requested by code official, evidence of diversion shall be provided.</li> </ol>				
4. Construction and demolition debris shall not be burned or dumped illegally.				
<ol> <li>Waste diversion rates shall be available prior to <u>framing and final building inspections</u> with ≥ 50% average diversion rate.</li> </ol>				
Applicant's Signature: Anthony Semenza District Values District Researce District Re				
Applicant (print): Tony Semenza	Company Clune Construction			

#### Planning and Development Services

7447 E Indian School Road, Suite 125, Scottsdale, AZ 85251 \* Phone: 480-312-7080



Construction and demolition waste constitutes about 40 percent of the total solid waste stream in the United States. Besides source reduction, building and material reuse is the most effective strategy for reducing the environment impacts of the waste stream. Reusing existing materials reduce the environmental burden of the manufacturing process. Replacing existing materials with new ones broadens environmental impacts associated with natural resource extraction, production, and transportation.

In most urban areas, landfill space is reaching capacity, requiring the conversion of more land elsewhere and raising the transportation costs of waste. Innovations in recycling technology improve sorting and processing to supply raw material to secondary markets, keeping those materials in the production stream for an extended period.

#### Material Reuse

By reusing materials on-site, donating, or selling salvageable items, you can cut waste costs and reduce material expenses. Determine the savings and cost of reusing, donating, and/or selling salvageable materials. The following are just a few of the materials that can be salvaged and/or donated locally:

Appliances, block, bricks, carpeting, doors, flooring, lighting fixtures, metal framing, pipes, shelving, tile, windows, bathroom fixtures, cabinets, dimensional lumber, ductwork, insulation, marble, paneling, OSB & plywood, siding, trim, wood beams.

#### Construction Site Recycling

Recommended steps for an effective construction site recycling program:

- Include requirements for on-site recycling in all project documents and subcontracts.
- Decide what materials will be recycled on the project and determine which wastes subcontractors will be responsible for recycling.
- · Clearly designate the recycling bins.
- Place garbage and recycling bins near each other, and close to the point of waste generation but out of the traffic pattern.
- Periodically check bins for contamination and check the wastes in the garbage dumpsters to see if recyclables are being thrown away.

Local Recycling and Reuse Facilities

#### Metal and steel

- Copper State Metals
- · Davis Metals and Salvage
- Hendrix Salvage
- Liberty Iron and Metal
- Southwest Metals
- American Metals
- DeReel Tech Scrap Metal Processioning

#### Concrete, asphalt, masonry

- Johnson-Stewart
- Contractors Landfill & Recycling

#### Cardboard, wood, metal, and multiple materials

- Waste Management
- Weinberger Waste Disposal
- Republic Services
- Friedman Recycling
- Sierra Waste Systems
- SA Recycling

High density polyethylene (HDPE), low density polyethylene (LDPE), polyethylene, polyetyrene (PS), terephthalate (PET)

Friedman Recycling

#### Wood and millwork

- AZ Wood Grinding and Recycling
- Gro-Well

Ceiling tiles, millwork, doors, windows, misc.

- Stardust Building Supply
- Armstrong ceiling recycling program

#### Carpeting

Aquafil Carpet Recycling

Please note that <u>Tenant Improvement projects</u> often reuse existing materials including doors, interior partitions, suspended ceiling, light fixtures, and mechanical duct work.

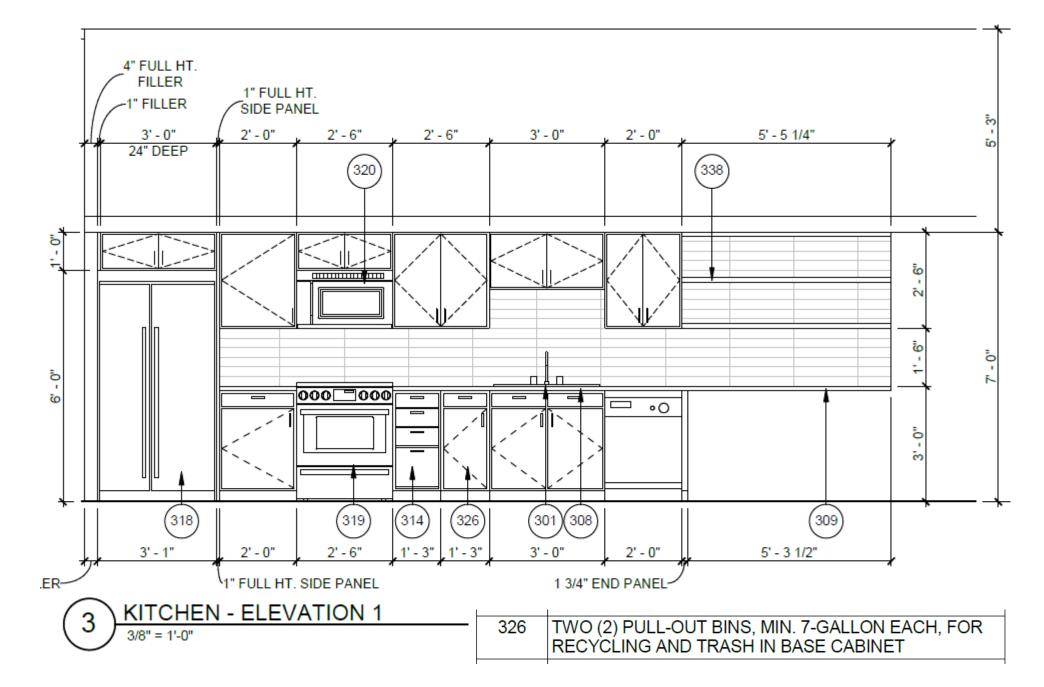
# 8 IgCC/IBC Recycling Multifamily (Apts and Condos)

### **Recycling Facilities**

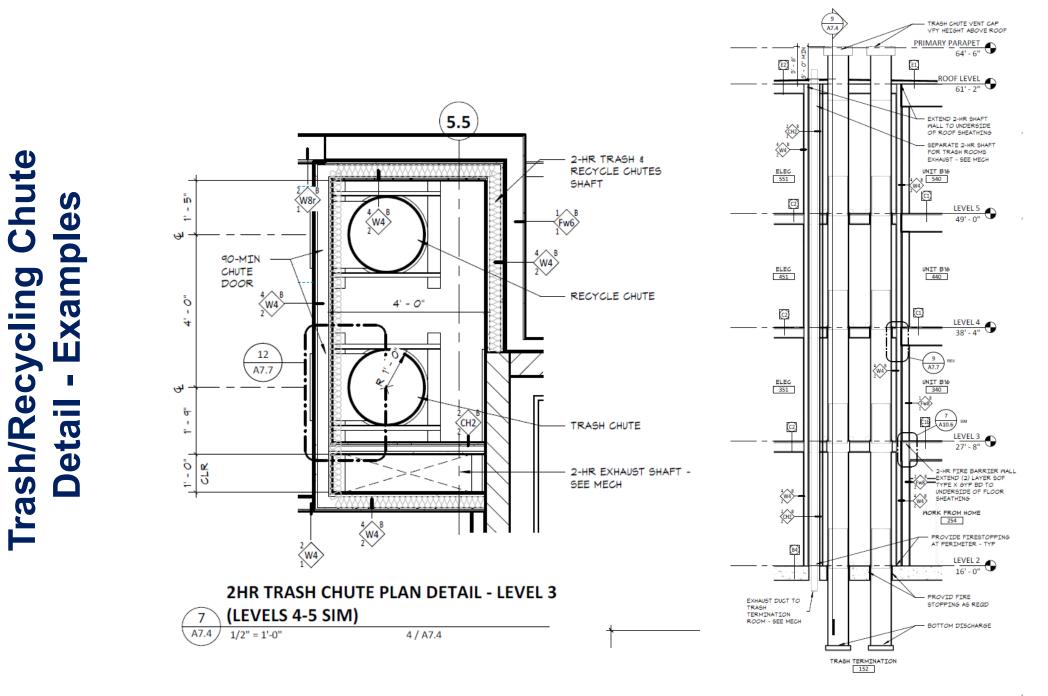
- Provide <u>recycling/trash pull-out</u> <u>collection bins</u> in kitchen cabinet of multi-family buildings
- Provide recycling and trash chutes in multifamily buildings (> 3 stories) or provide recycling collection area on each floor







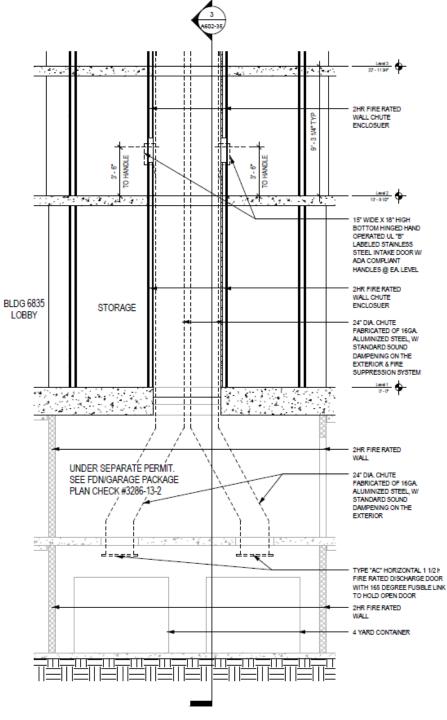
Example Interior Elevation

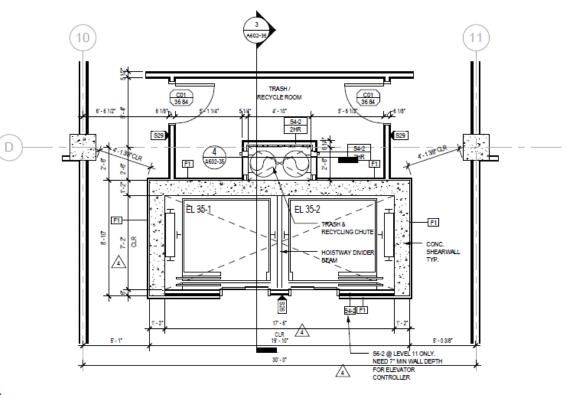


**CROSS SECTION AT TRASH CHUTES** A7.4 1/4" = 1'-0"

8

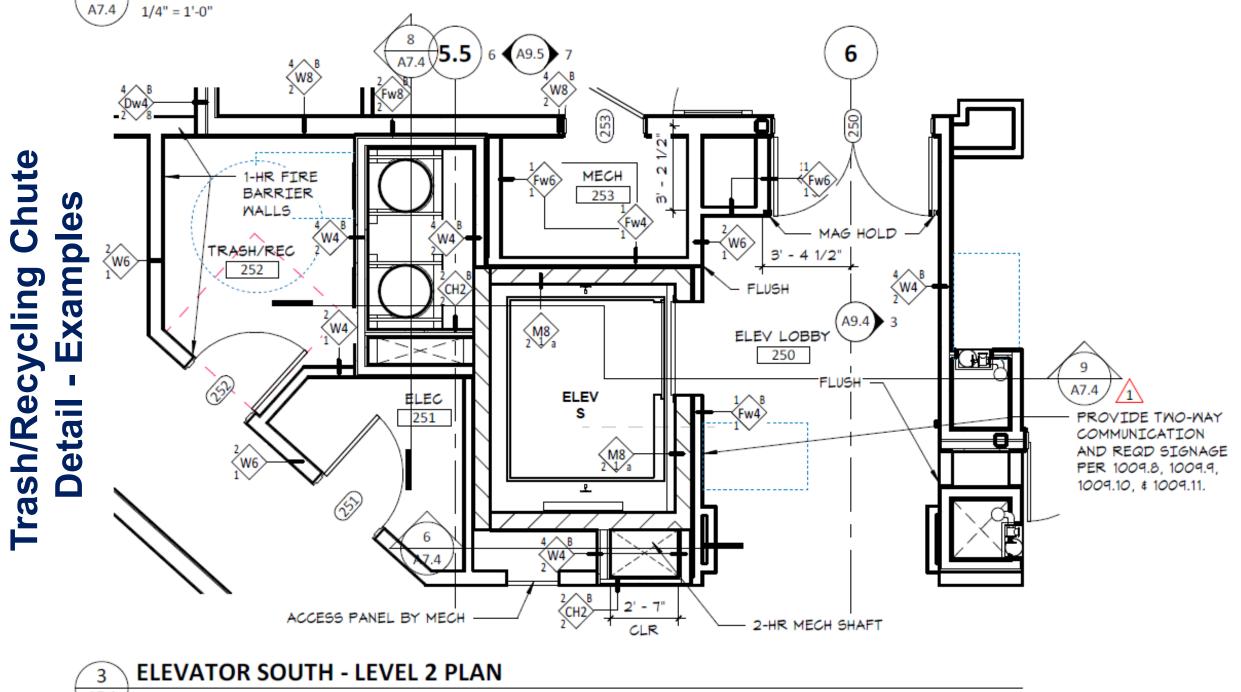






#### 2 ENLARGED PLAN @ ELEVATOR 6835 (L2) TYPICAL

A502-35 SCALE: 1/4" = 1'-0"



A7.4 / 1/4" = 1'-0"

### 8 IgCC/IBC Recycling Commercial (common areas)

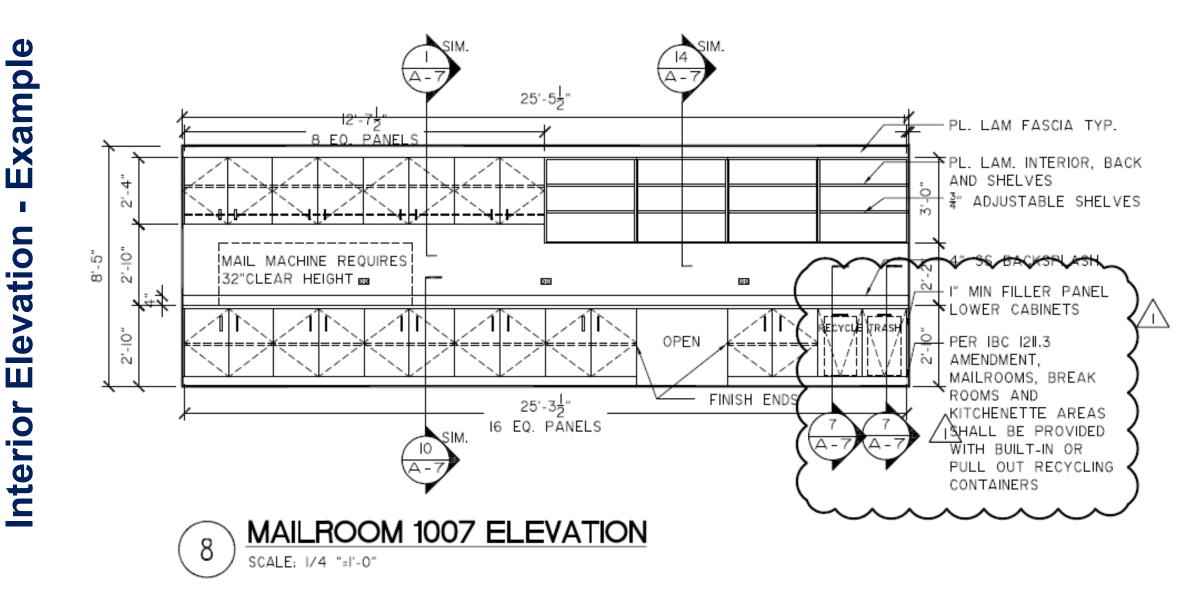
### **Recycling Facilities**

- <u>Common kitchen areas</u> in multi-family buildings (i.e. – club house)
- Provide <u>recycling collection in mailrooms</u> and breakrooms (i.e. – offices)

**IgCC 901.3.4.1 Recyclables.** Mailrooms, break rooms, and kitchen/kitchenette areas shall be provided with built-in or pull-out trash/recycling containers.







# 9 IgCC Reduced Impact Materials Commercial and Multifamily

### Comply with any two reduced impact materials

- a) Recycled content materials
  - Not less than <u>10% of materials</u> (based on cost)

### **b)** Regional materials

- Not less than <u>15%</u> (based on cost)
- c) Biobased and wood components
  - Not less than <u>5%</u> (based on cost)
- d) Environmental product declarations
  - Not less than <u>3 building products TI's</u>





Metal

Masonry

### **IgCC Reduced Impact Materials**



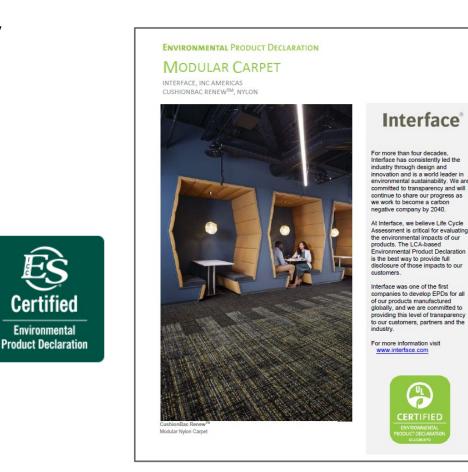
Core and Shell building

Butler Design Group

### **Environmental Product Declaration (EPD)**

CERTIFIED

- EPDs are similar to Material Safety Data Sheets (MSDS) or <u>ICC ES</u>
- Common materials and products
  - Ready mixed concrete
  - Metal framing
  - Drywall
  - Flooring and wall bases
  - Acoustical ceiling tiles
- Industry-wide and product-specific



## **10** IgCC Indoor Environmental Quality Multifamily and Commercial

### Low VOC Finishes

- At least <u>85% of interior finishes to be low-VOC (volatile organic compound)</u>
  - Adhesives & sealants
  - Paints & coatings
  - Floor coverings
  - Acoustical ceiling tiles



### **Plan Review Correction Stamp**

### IgCC LOW-VOC FINISH MATERIALS

Newly installed interior wall, ceiling, and floor finish materials, including new carpeting and ceiling tiles shall comply with low-VOC limits of <u>Scottsdale</u> <u>amended Section 801.4.2 of the *International Green Construction Code* (IgCC).</u>

801.4.2.1 Adhesives and sealants.

801.4.2.2 Paints and coatings.

801.4.2.3 Floor covering materials.

801.4.2.4 Composite woods, agrifiber and laminated products.

801.4.2.6 Ceiling tile and wall systems (excluding office furniture systems).

Floor covering materials, ceiling tiles, and wall system products certified under nationally recognized third-party low-emission certification programs such as Carpet and Rug Institute <u>Green Label Plus</u>, Resilient Floor Covering Institute <u>FloorScore</u> and <u>UL GreenGuard</u>, are deemed to comply with IgCC emission limits.

#### IgCC TABLE 801.4.2.2 VOC CONTENT LIMITS FOR PAINTS AND COATINGS

CATEGORY	VOC LIMIT grams per liter (g/L) <sup>a,b</sup>
Flat paints	50
Nonflat paints	50
Nonflat High-gloss paints	150
Specialty coatings:	
Concrete/masonry sealers	100
Floor coatings	50
Primers, sealers, and undercoats	100
Stains	250
Wood coatings	275

### Plan Review Correction Stamps

#### IgCC TABLE 801.4.2.1 VOC CONTENT LIMITS FOR ADHESIVES AND SEALANTS

ADHESIVES	VOC LIMIT grams per liter (g/L) <sup>a,b</sup>	
Building envelope membrane adhesive	250	
Carpet and carpet pad adhesives	50	
Ceramic tile adhesives	65	
Cove base adhesives	50	
Drywall and panel adhesives	50	
Multipurpose construction adhesives	70	
Rubber floor adhesive	60	
Structural glazing adhesives	100	
Subfloor Adhesive	50	
VCT and asphalt tile adhesives	50	
Wood flooring adhesives	100	
SEALANTS		
Architectural sealants including foam and grout	250	

### MANUFACTURER REPRESENTATIVE CONTACT INFORMATION MANUFACTURER NAME CONTACT INFORMATION

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THOMAS OECHEL	MOBILE: 415.516.4235, EMAIL: THOMAS@GGRANTASSOCIATES.COM
THOMAS OECHEL	MOBILE: 415.516.4235, EMAIL: THOMAS@GGRANTASSOCIATES.COM
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	DAI-NEE TAN SHARLENE MURTAGH TODD CARPENTER THOMAS OECHEL THOMAS OECHEL MIKE HUBERT BRIAN CARLSON SUZI HERRMANN CARLOS HERRERA JERRY CORDOVA MARY YOCUM CARLY MILLER JOHN DUMESNIL CARMELA LURIE TROY WITTENBACH SHERYL GAYESKI RYAN LASARSKY MARC DI ZINNO EILEEN CAPELLE

#### GENERAL NOTES

- SEE FINISH PLANS FOR PATTERNS, ACCENT TILE LOCATIONS, THRESHOLDS, TRANSITIONS, CARPET PATTERNS, & CARPET DIRECTION.
- AT AREAS SCHEDULED TO RECEIVE NEW FINISHES ADJACENT TO EXISTING FINISHES, BLEND MATERIALS TO CREATE A SEAMLESS INTERFACE BETWEEN THE NEW & EXISTING FINISHES.
- "EX" SHOWN IN FINISH SCHEDULE MEANS: "EXISTING FINISH TO REMAIN, NO CHANGE UNLESS NOTED OTHERWISE" - SEE REMARKS.
- SEE A930 FOR TYPICAL FINISH DETAILS.
- WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN IBC TABLE 803.13. FINISHES SHALL BE CLASS 'C' MINIMUM.
- 6. INTERIOR FLOOR FINISH & COVERINGS SHALL COMPLY WITH IBC SECTION 804.

#### FINISH SCHEDULE & LEGEND REMARKS

- EXISTING FINISHES TO REMAIN IN ENTIRE ROOM. PATCH AS REQUIRED FOR NEW CONSTRUCTION TO ADJACENT SPACES AND MATCH EXISTING.
- 2. SEE FINISH FLOOR PLANS FOR FLOORING PATTERN AND DIRECTION.
- 3. SEE FINISH FLOOR PLANS FOR SPECIALTY WALL FINISH LOCATION.
- NOT USED.
- 5. SEE REFLECTED CEILING PLANS FOR CEILING PANEL PATTERN & ADDITIONAL SOFFIT INFORMATION.
- SEE INTERIOR ELEVATIONS FOR CASEWORK LAYOUT AND ADDITIONAL INFORMATION REGARDING CASEWORK FINISHES AND DETAILS.
- 7. SEE FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR WALL TILE LOCATION AND PATTERN.
- 8. PROVIDE ANODIZED ALUMINUM TRIM PIECES PER FINISH LEGEND.
- PAINT ALL CEILING SURFACES EXPOSED TO VIEW INCLUDING BUILDING STRUCTURE, HVAC DUCTS, PIPING, CONDUIT, ETC. AS INDICATED ON THE FINISH SCHEDULE - DO NOT PAINT LIGHT FIXTURES, UNO.
- 10. PROVIDE CONTINUOUS BASE AROUND ALL PERMANENT FIXED CASEWORK AND IN KNEE SPACES.

#### IGCC NOTES

NEWLY INSTALLED INTERIOR WALL, CELING, AND FLOOR FINISH MATERIALS, INCLUDING NEW CARPETING AND CELING TILES SHALL COMPLY WITH LOW-VOC LIMITS OF SCOTTSDALE AMENDED SECTION 801.4.2 OF THE INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC).

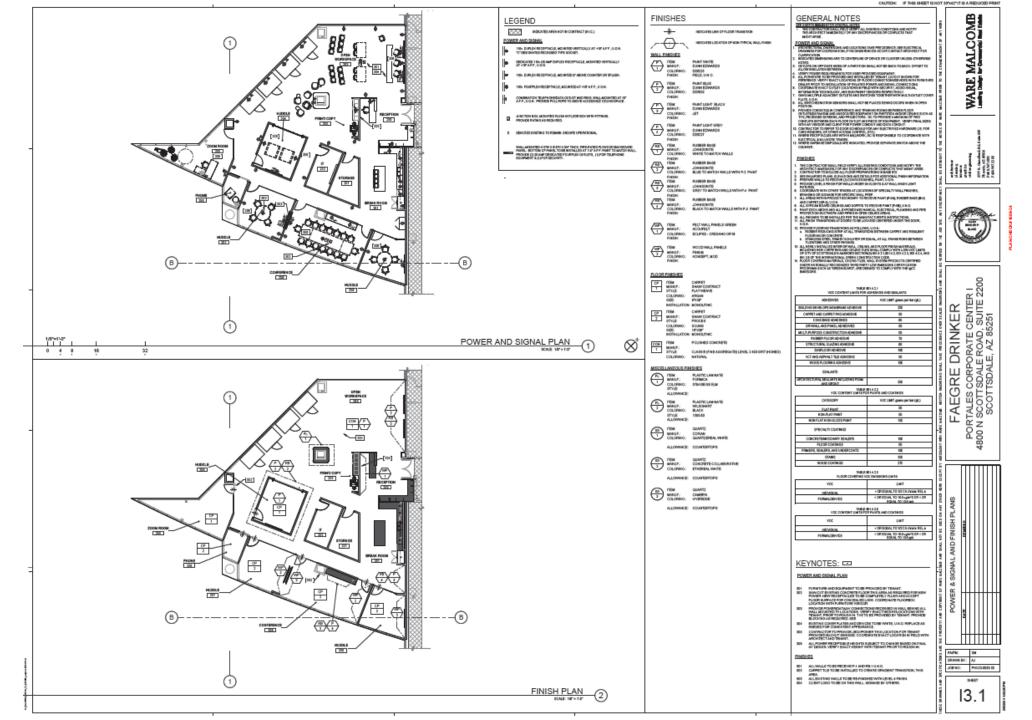
- 801.4.2.1 ADHESIVES AND SEALANTS.
- 801.4.2.2 PAINTS AND COATINGS.
- 801.4.2.3 FLOOR COVERING MATERIALS.
- 801.4.2.4 COMPOSITE WOODS, AGRIFIBER AND LAMINATED PRODUCTS.
- 801.4.2.4 CEILING TILE AND WALL SYSTEMS (EXCLUDING OFFICE FURNITURE SYSTEMS).
- FLOOR COVERING MATERIALS, CELING TILES, AND WALL SYSTEM PRODUCTS CERTIFIED UNDER NATIONALLY RECOGNIZED THIRD-PARTY LOW-EMISSION CERTIFICATION PROGRAMS SUCH AS CARPET AND RUD INSTITUTE, GREEN LABEL PLUS, RESILIENT FLOOR COVERING INSTITUTE, FLOORSCORE, AND UL GREENGUARD, ARE DEEMIED TO COMPLY WITH IGCC EMISSION LIMITS.

VOC CONTENT LIMITS FOR ADHESIVES AND SEALANTS - TABLE 801.4.2.1 VOC LIMIT GRAMS PER LITER (g/L ADHESIVES BUILDING ENVELOPE MEMBRANE ADHESIVE CARPET AND CARPET PAD ADHESIVES 50 CERAMIC TILE ADHESIVES COVE BASE ADHESIVES DRYWALL AND PANEL ADHESIVES MULTIPLURPOSE CONSTRUCTION ADHESIVES RUBBER FLOOR ADHESIVE STRUCTURAL GLAZING ADHESIVES 100 SUBFLOOR ADHESIVE VCT AND ASPHALT TILE ADHESIVES WOOD FLOORING ADHESIVES 100 SEALANTS ARCHIECTURAL SEALANTES INCLUDING FOAM AND GROUT 250

VOC CONTENT LIMITS FOR PAINTS AND COATINGS - TABLE 801.4.2.2					
CATEGORY	VOC LIMIT GRAMS PER LITER (g/L				
FLAT PAINTS	50				
NONFLAT PAINTS	50				
NONFLAT HIGH-GLOSS PAINTS	15				
SPECIALTY COATINGS					
CONCRETE / MASONRY SEALERS	10				
FLOOR COATINGS	5				
PRIMERS, SEALERS, AND UNDERCOATS	10				
STAINS	25				
WOOD COATINGS	27				

Λ-A





	FINISH SCHEDULE						I	
MARK	PRODUCT TYPE	MANUFACTURER	STYLE/PATTERN/MODEL#	COLOR/FINISH#	VOC g/L	SPECIFICATIONS	LOCATIONNOTES	1
ACTIAO	OUSTIC CELLING THE							
	ACOUSTIC CELLING TILE SYSTEM	ARMSTRONG	247 X 48° CLEAN ROOM VL 870	WHITE	GREENGLARD GOLD	Sile" THORNESS, LAV-IN 15/16"	NTCHEN CELING	
DHE DEC	ORATIVE HARDWARE							
	6" DRAWER PULL HANDLE	RELIVENATION	6" LARGE DRAWER EDGE PULL	OIL-RUBBED BRONZE			MILLWORK DRAWER / CABINET PULLS	-
DRI DRA	DE DOC							-
	DRAPERY	COVINGTON CONTRACT	ALLURE.	BRONZE, RALROADED		V-0.200 H-0.200" FLAME RATING NPRA 701	CHAMPAGNE ROOM, RECESSED DRAPERY ROD ABOVE BASED ON SAMPSON MILLS F16 (OR EQUAL)	-
								-
(TA) FAOF FA-01	IC FARE	MAYER PARRIES	BCTUGE	CACTUS (60-613	1	L	SANQUETTE SEAT BACK	-
PA-02	FARE	PL DOUX TEXTLES	NELL.	GRASS			DANQUETTE SEAT	-
FA-03	MARC	CONCERTEX	PEDBLED	PLASTER		PRO-TECH STAIN PROTECTION	ENTRY BENCH SEAT	- 1
								-
	ER REINPORCED PLASTIC				r			_
PRP-01	FIBER REINFORCED PLASTIC	MARLITE	SMOOTH S 100 S/2/S	WHITE	GREENGLARD	SMOOTH	KITCHEN AND PREP AREA WALLS AS INDICATED LINO.	
								-
(TL) FLO								_
PTL-01	2" X 2" MOSAIC FLOOR THE	DALTILE	23% OAK MOSS, 67% MOONSHINE - IN STANDARD DALTILE PATTERN 0P3023	OAKMOSS(1) D1957 MOONSHINE (2) D117		HOSAIC TILE GR: GR-05	TASTING BAR FLOORING	
PTL-02	FLOOR THE	wow	ABBEY STONE COLLECTION TIMELESS	RIA MATTE		TWO SIZES: 4.3" x 4.3" AND 4.3" x 8.6". INSTALL PATTERN: SEE FINISH PLAN GR: GR-02	RESERVE ROOM PLOOR	7
		-						-
GLI GLAS			Exception and a		1		ACTIVITY OF A CONTRACT ON THE	-
GL-01	DECORATIVE MIRRORED GLASS PANELS	MIRROR UNIQUE	IODIMO GOLD	MIRRORED			CHAMPAGNE ROOM CELING	
61-02	RIBBED GLASS PANELS	WRIGHT BROTHERS GLASSWORKS	TIGHT REED	CL648		PATTERN IN VERTICAL ORIENTATION, REBED SIDE NOTTO BE EXPOSED	BETWEEN TAGING BAR AND CHAMPAGNE ROOM	1
GL-03	GLASS PANELS	ARCADIA	LOW-E TEMPERED GLASS	CLEAR				_
GL-04	DECORATIVE MIRRORED GLASS PANELS	MIRROR UNIQUE	IODXIMO ANTIQUE HEAVY DISTRESSED	MIRRORED			WALL BEHIND BAR AND BACK OF RESERVE ROOM MILLWORK	
(GR) GRO	uт							
	EPOXY GROUT	CUSTOM BUILDING PRODUCTS	CES-UTE SOLDS EPOXY GROUT	#90 CHARCOAL	UNDER 50	-	CHAMPAGNE ROOM BACKSPLASH	-
GR-02	EPOXY GROUT	CUSTOM BUILDING PRODUCTS	CEG-UTE SOUDS EPOXY GROUT	#183 CHATEAU	UNDER 50	(1/16" THICK AT WIT-02/ LESS THAN 1/8" @ RESERVE ROOM PLOOP	POOD PREP WALL TILE RESERVE ROOM PLOOR	1
GR-03	EPOXY GROUT	CUSTOM BUILDING PRODUCTS	CES-UTE SOUDS EPOXY GROUT	8944 SHADOW	UNDER 50	LESS THAN DRYTHICK	BATHROOM WALL TILE	_
	EPOXY GROUT	CUSTOM BUILDING PRODUCTS	CES-UTE SOLDS EPOXY GROUT	1943 WARMGRAY	UNDER 50	SMM THICK	BAR PRONT TILE	_
	EPOXY GROUT EPOXY GROUT	CUSTOM BUILDING PRODUCTS CUSTOM BUILDING PRODUCTS	CEG-UTE SOLDS EPOXY GROUT CEG-UTE SOLDS EPOXY GROUT	IS45 BLEACHED WOOD TOMATCH MAPEL112 - PECAN	UNDER 50 UNDER 50	LESS THAN VIETTHICK LESS THAN VIETTHICK	BAR TLE FLOOR TLE PREP AREA / KTICHEN FLOORING	-
								•
(GTP) GTP	SUM .							
GP-01	GYPSUM BOARD CELING	-	an	SEE RCP FOR COLOR. FINISH TO BE FLAT	GREENGUARD GOLD		HARDLID CELINGS: TYPICAL UND	-
	·			an est	antes.			-
(MT) META	4L.							
MT-CL	BARCOUNTERTOP	LABASTILLE	MEDIUM PATINA/ MEDIUM TEXTURE	ZINC W/ LAQUER FINISH				
	TAL BASE METAL BASE	-	VIP THICK 4" HIGH BLACKENED STEEL PLAT STOCK	BLACKENED	1	PROTECTANT SEAL	WINE DISPLAY AND RETAIL MILLWORK DASE	-
	METAL BASE	WEST COAST INDUSTRIES	SATIN BRASS - MSB	PLATED			MATCH PRODUCT SPECIFIED, SC TO PROVIDE SAMPLE FOR APPROVAL PRIOR TO PARRICATION	1
(PT) PAIN								
PT-01	INTERIOR PAINT	BENJAMIN MOORE	HELDPAINT	CHANTILLY LACE CC-65	U - BCO SPEC	Insertell Indian	HELD PAINT THROUGHOUT. SEE INTERIOR ELEVATIONS	=
								1



Tenant Improvement (TI) Green Code Plan Review Checklist 2021 International Green Construction Code (IgCC)

rev. 3/15/24



#### Project Name \_\_\_\_\_ Date \_\_\_\_\_

Project Address

Submitted By \_\_\_\_\_

### Water Use Efficiency Compliance (IgCC)

□ Comply with amended IgCC 601.3.2 for new fixtures, fittings, appliances, and equipment: □ Plumbing fixtures and fittings (601.3.2.1)

Appliances (601.3.2.2)

Appliances (601.3.2.2)

HVAC systems and equipment (601.3.2.3)

Commercial food service equipment (601.3.2.5)

□ Water softeners (601.3.6) and/or reverse osmosis systems (601.3.7) where installed

#### Energy Efficiency Compliance (IECC)

Comply with energy code (IECC).

#### Indoor Environmental Quality Compliance (IgCC)

□ Comply with the VOC limits of amended IgCC Section 801.4.2 for newly installed materials:

Adhesives and sealants (801.4.2.1)

Paints and coatings (801.4.2.2)

□ Floor covering materials (801.4.2.3)

□ Composite wood products, agrifiber, hardwood plywood and laminated products (801.4.2.4) □ Acoustical ceiling tiles and wall systems (801.4.2.6)

#### Materials and Resources Compliance (IgCC)

#### $\Box$ Comply with amended IgCC 901.3 for new and waste materials:

Divert a minimum of 50% of nonhazardous construction, demolition of deconstruction waste material from disposal in landfills or incinerators through reuse, recycling, repurposing and/or composting (901.3.1.1)

Exception: Building projects less than 5,000 sq. ft. of new, added, or remodeled area.

#### Reduced impact material options (select two) (901.4.1)

☐ Minimum 10% recycled content and salvaged material content (901.4.1.1)

☐ Minimum 15% regional materials (901.4.1.2)

☐ Minimum 5% biobased products (901.4.1.3)

□ Minimum 3 environmental product declarations or certifications (901.4.1.4)

Scottsdale's Commercial Green Construction Code link – https://www.scottsdaleaz.gov/green-building-program/green-codes

### **Tenant Improvement Checklist**

City of Scottsdale

С

2021 International Green Construction Code (IgCC)

Building Plan Review Checklist – Commercial Building Projects rev. 4/20/23



Use this checklist for tracking compliance requirements with Scottsdale's amended International Green Construction Code (IgCC). Online resources are available including amendments and helpful worksheets for Heat Island Mitigation (Sec. 501.3.5) at <u>https://www.scottsdaleaz.gov/green-building-program/green-codes</u> The full text of the unamended IgCC code book is available for viewing and/or purchase at 2021 International Green Construction Code (IgCC) | ICC Digital Codes (iccsafe.org)

Project Name: _	 Date:	Plan Review #

CHA	PTER 5 – SITE SUSTAINABILITY	Verifie	cation	
$\checkmark$	501.3.5 Mitigation of Heat Island Effect	Plan Review Inspection		
	<ul> <li>501.3.5.1 Site Hardscape. At least 50% of the <i>site hardscape</i> of new commercial building projects shall comply with one or any combination of the following:</li> <li>a. Trees and vegetation planted to provide full shade no later than ten years after project completion. The effective shade coverage on the <i>hardscape</i> shall be the arithmetic mean of the shade coverage calculated at 10 a.m., noon, and 3 p.m. on the summer solstice.</li> <li>b. Paving materials with a minimum initial <i>solar reflectance index (SRI)</i> of 29. A default <i>SRI</i> value of 35 for new concrete without added color pigment is allowed to be used instead of measurements.</li> <li>c. <i>Open-graded (uniform-sized) aggregate, permeable pavement, permeable pavers</i>, and <i>porous pavers (open-grid pavers). Permeable pavement</i> and <i>permeable pavers</i> shall have a percolation rate of not less than 2 gal/min • ft<sup>2</sup>.</li> <li>d. Shading through the use of structures, provided that the top surface of the shading structure complies with the provisions of Section 501.3.5.3.</li> <li>e. Parking under a building, provided that the <i>roof</i> of the building complies with the provisions of Section 501.3.5.3.</li> <li>f. Adjacent buildings or structures that provide shade to the <i>site hardscape</i>. The effective shade coverage on the <i>hardscape</i> shall be the arithmetic mean of the shade coverage calculated at 10 a.m., noon, and 3 p.m. on the summer solstice.</li> </ul>	Planning and Green/Energy Review	Planning and Green/Energy Inspection	
	1 of 11		rev. 4/20/23	

#### **New Construction Checklist**

More information at Scottsdale Building Code <u>www.scottsdaleaz.gov/codes/building-code</u>

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