

OVERVIEW: GREEN BUILDING CATEGORIES AND FEATURES

SITE USE

ORIENTATION, PROTECTED OUTDR. AREA, MIN. PAVED AND CONCRETE, XERISCAPE, DRIP IRRIGATION SYSTEM, WATER CATCHMENT AND DISTRIBUTION, NO PESTICIDES /HERBICIDES INCLUDING TERMITE PRETREATMENT WITHIN BLDG FOOTPRINT, ORIENTATION WITHIN 20 DEGREES OF S., PROTECTED OUTDOOR AREA ON E. / S. SIDE, PROTECTED MIN. OF 25%, OUTDOOR STRUCTURES, DECKING &LANDSCAPING MATERIALS FROM RECYCLED CONTENT OR NON-TOXIC LUMBER, XERISCAPE MIN 90% OF LANDSCAPED AREA NOT INCLUDING NATIVE DESERT, NON-SPRINKLER/ ZONED IRRIGATION SYSTEM W/ SEPARATE VALVING, RAIN SENSOR SHUT OFF, NO LAWN, RAINWATER COLLECTION/STORAGE SYSTEM W/ON SITE DISTRIBUTION

STRUCTURAL ELEMENTS

WESTERN COAL FLY ASH CONCRETE W/ MIN 18% SUBSTITUTE VOLUME, FLOOR STRUCTURE, ROOF STRUCTURE, BEAMS, INTERIOR FRAMING AND HEADERS AT LEAST 75% NON-SOLID SAWN LUMBER UNLESS FROM CERTIFIED SUSTAINABLE SOURCE, ROOF STRUCTURE MIN, 75% IS NON-SOLID SAWN LUMBER UNLESS FROM CERTIFIED SUSTAINABLE SOURCE, INTERIOR BORATE TREATED LUMBER MIN 50% OF WOOD STRUCTURE EXCLUDING TRUSSES, LOW TOXIC SUB FLOOR AND OR SHEATHING FOR ROOF AND WALLS, INTEGRAL WALL SYSTEM (SIP), MASONRY, ADOBE, RAMMED OR CAST EARTH, STRAWBALE FROM REGIONALLY EXTRACTED RESOURCES, PURCHASE REGIONALLY MANUFACTURED

BUILDING ENVELOPE

STEM OR FOUNDATION INSULATED WITH MIN. R-7 FROM GRADE TO TOP OF FOOTING, WALL ASSEMBLY MIN (R-25) AND U-FACTOR OF (R-30), CEILING INSULATED TO MIN R-38, RADIANT BARRIER INSTALLED AT ROOF OR CEILING ASSEMBLY, HOUSE WRAPPED W/ EXT. AIR INFILTRATION BARRIER OR BDLG SYSTEM PROVIDING INTEGRAL AIR INFILTRATION BARRIER, EXTERIOR OPAQUE GARAGE DRS INSULATED MIN R-2, GLAZING W/ SOLAR HEAT GAIN COEF.40 OR LESS, EXT.SHADING W/ MIN COEF OF 0.45 ON WINDOWS, INT WINDOW COVERING LT COLOR AND REFLECTIVE, INSULATION VALUE OR SHADING COEFFICIENT, SKYLIGHTS WITH NFRC RATING OF R-2 MAX, SOLAR HEAT GAIN COEF OF 0.40 OR LOWER, SOUTH GLASS W/ FULL SHADING IN MAY-JULY AT NOON, MAX, 25% OF TOT. GLASS LOCATED ON EAST & WEST WALLS COMBINED, STRUCTURES OR LANDSCAPING TO CONTROL SUMMER HEAT GAIN MIN. 50% OF EAST AND WEST WALL SURFACES, INSULATION MIN 25% RECYCLED CONTENT OR NATURAL & FORMALDEHYDE-FREE

HEAT--COOL--VENTILATION

GAS UNIT 0.6 COP, ZONED HVAC, DUCT BLASTER TEST, EVAPORATIVE COOLING, MINIMUM 3 CEILING FANS, DUCTWORK INSULATION GRATER THAN R-4 IN CONDITIONED SPACE AND GREATER THAN R-6 IN UNCONDITIONED SPACE, COOL TOWER OR OTHER PASSIVE COOLING, VENTED ROOF CAVITY WITH CONTINUOUS RIDE & EAVES VENTING OR INSULATION ON UNDERSIDE OF ROOF, WHOLE HOUSE FAN, STACK / OR CROSS VENTILATION, PASSIVE SOLAR WINTER HEATING GREATER THAN 50% OF TOTAL HEATING DEMAND, SEALED COMBUSTION FIREPLACE, HEAT RECOVERY VENTILATOR OR AIR TO AIR HEAT EXCHANGER, WHOLE HOUSE FILTRATION SYSTEM, EXHAUST FAN IN GARAGE ON TIME, DETACHED GARAGE, EXHAUST FANS RATED 1.5 SOME OR LESS, PASSIVE RADON VENTILATION SYSTEM PER EPA FIGURES

ELECTRIC POWER--LIGHTING---APPLIANCES

SOLAR ELECTRIC LIGHTING MIN 50%, ENERGY STAR APPLIANCES, GAS DRYER, SUFFICIENT NATURAL LIGHTING W/O SOLAR LIGHT TUBE, SMART WIRING FOR LIGHT CONTROL AND TELECOMMUNICATIONS, ENERGY STAR APPLIANCES, PASSIVE CLOTHES DRYING SYSTEM, SUBSCRIBE TO UTILITY COMPANY SOLAR POWER GENERATION PROGRAM,

PLUMBING SYSTEM

SOLAR WATER HEATING, SOLAR PANELS, HOT WATER RECIRCULATION SYSTEM LOW-FLOW TOILET WITH DUAL CONTROL FLUSH, COMBINED SINK UNIT OR COMPOSTING TYPE TOILET, MANIFOLD WATER DISTRIBUTION SYSTEM, TOW PIPE DRAIN SYSTEM FOR GRAYWATER RECOVERY SYSTEM, POINT OF USE WATER PURIFICATION SYSTEM THAT MEETS AMS/NSF STANDARD (DOES NOT INCLUDE REVERSE OSMOSIS SYSTEM POINT OF ENTRY WATER PURIFICATION SYSTEMS)

ROOFING

MIN 25% RECYCLED CONTENT HIGH DURABILITY ROOF (CONCRETE, SLATE CLAY, METAL, FIBER-CEMENT, REFLECTIVE ROOF SURFACE MIN 75% LRV WARRANTY MIN 25 YEARS

EXTERIOR FINISHES

REGIONALLY QUARRIED & PROCESSED OR CULTURED STONE-BRICKS, SIDING, FASCIA, SOFFIT, OR TRIM, MIN 50% PRE /POST CONSUMER OR ENGINEERED WOOD CONTENT, INTEGRALLY COLORED STUCCO APPLIED W/O LATH (MASONRY, ICF) FIBER CEMENT SIDING, WEATHER RESISTANT MATERIALS IN NATURAL STATE, WALL COLORS LRV OF 40% OR LESS

INTERIOR FINISHES

WALLBOARD MIN.25% RECYCLED MATERIAL(WHEAT BOARD, DRYWALL W/ FLU- GAS, BY-PRODUCT GYPSUM),ZERO VOC PAINT, ETHYLENE GLYCOL FREE LATEX PAINT, PAINT FINISHES W/ MIN. 20% RECYCLED CONTENT, ADHESIVES & FINISHES W/ MAX VOC CONTENT OF 150 GRAMS/LTR, DOMESTIC HARDWOOD FROM CERTIFIED FORESTS, COMPOSITE DOORS WO/ FORMALDEHYDE OR SEALED W/ H2O-BASED SEALANT, RECYCLED CONTENT CONCRETE OR REGIONALLY QUARRIED AND PROCESSED STONE COUNTERTOPS, NO WOOD BASE, COVE, DOOR/ WINDOW TRIM, CARPET AND PADDING TACKED WO/ GLUE, NATURAL LINOLEUM, RECYCLED CONTENT OR SALVAGED FLOORING, NATURAL FIBER CARPET OR RUGS, LOCAL STONE, FINISHED CONCRETE , BAMBOO, SALTILLO, OR CORK OR, HARD FLOORING MIN. 75% CONDITIONED FLR AREA,

POOLS AND SPAS

NO POOL OR SPA, SPA ONLY (CAPACITY LESS THAN 300 GAL), POOL & SPA SEPARATE, GAS SPA HEATER WITH MIN. 0.8 ENERGY FACTOR, RETRACTABLE COVER, LOW-CHLORINE POOL

SOLID WASTE AND RECYCLING

CONSTRUCTION WASTE RECYCLE BINS, DONATION OF EXCESS MATERIALS TO NON-PROFIT BLDG ORGANIZATION, COMPOSTING SYSTEM, CITY RECYCLING ON SITE

INDOOR AIR QUALITY

VENTILATION PER ASHRAE, SEALED COMBUSTION/POWER VENTED FURNACE, HEATER, FIREPLACE, HEAT RECOVERY VENTILATOR, WHOLE HOUSE FILTRATION, GARAGE DOOR WIRED TO EXHAUST FAN, DETACHED GARAGE, PASSIVE RADON VENTILATION PER EPA

THIS LIST IS NOT A COMPLETE DETAIL OF ALL EXAMPLES IN EACH CATAGORY--OR MORE INFO GO TO www.ci.scottsdale.az.us/greenbuilding/