

<u>000</u>	<u>SPECS/STANDARDS/CODES</u>				
_001	Specifications	_386	Material Compatibility	4800	Prestress (Double Tee, I-Beams, Folded/Flat Plates)
_010	AASHTO	_410	Microscopy (Microstructures)		
_020	ACI	<u>420</u>	Wind/Blasts/Shock	4804	Prestress Misc. R/R ties, Poles, Rails
_030	AIA	_430	Sound Absorption, Barrier, Transmission	4810	Tilt-up
_040	ANSI	_440	Color/Stain	4820	Precast (Vaults, Tanks, Ornamental, Wall Panels, Etc.)
_050	ASCE	_450	Pop-outs	4830	Roof Tile
_060	ASHRAE	_480	Skid Resistance	4840	Wallboard (cement)
_070	ASTM	<u>499</u>	<u>Other</u>	4850	Artificial Stone
_080	CRSI	_500	Computer Software	4870	Refract. Fireplace Logs, Hi-temp Pipe
_090	CSI	_505	Sustainability	4880	
_100	DOT	_510	LWA Handbook, Design Manuals	<u>4889</u>	<u>Misc. Concrete</u>
_110	FHWA	_514	Eng. Submittals/Research/Investigation	4900	Low-Density, Wood Floors, Roof
_120	ISO	_516	Test Data/Methods	4930	Insulating
_130	MSDS	_520	Repair, Rehabilitation	4940	Cellular
_140	TMS	_530	Economy, Cost, Life Cycle	<u>5000</u>	<u>Asphalt Pavement, Overlays</u>
_150	UL	_535	LCI – Life Cycle Inventory	5640	Black Bases
		<u>539</u>	<u>Mix Design</u>	5650	Chip Seal, Surface Treatment
<u>200</u>	<u>PHYSICAL PROPERTIES</u>	_540	STR Mix Design	5700	Hot Mix
	<u>OF END PRODUCTS</u>	_541	Block Mix Design	5730	Plant Mix Seal, Open Graded
<u>201</u>	<u>Thermal Properties</u>	_542	Low Density Mix Design	5750	Micro-Surfacing, Slurry Seals
_202	Condensation	_543	Flowable Fill Mix Design	5770	Pot Hole Patch, Cold Mix
_204	Conductivity	_544	Asphalt Mix Design	5900	Water-Rain Depth
_206	Cryogenic	_550	Admixture, Resins	<u>6000</u>	<u>Geotechnical</u>
_208	Diffusivity	_552	Aggregate-Coarse: LWA	6640	LW Backfill, Embankment, Plaza
_210	Energy Efficiency (Heat Flow)	_553	Aggregate-Coarse: NW	6650	Pipe/Conduit Bedding/Fill
_212	Heat of Hydration-Mass	_555	Aggregate-Fine: LWA	6660	Insulating Fill
_214	Insulation (R, U, K Values)	_556	Aggregate-Fine: NW	6690	Drainage, Sanitary Landfill
_216	Specific Heat (SH) Thermal-Mass	_558	Air less than 8%	<u>7000</u>	<u>General</u>
		_559	Air more than 8%	7630	Design/Structural Analysis (studies equations, relationships)
<u>220</u>	<u>Fire Resistance</u>	_560	Cement: I, II, III		Passive Solar
		_561	Cement: IV, V, K	7640	Abstracts, Indexes
<u>240</u>	<u>Unit Weight/Density</u>	_564	Fiber (Plastic/Metal)	7670	Failures, LWC
_241	NW >130pcf 2080 Kg/m ³	_566	Fly Ash, Silica Fumes	7680	Sustainability, Environmental
_242	Med W 115-130 1840-2080	_568	Foam (Aluminum Powder)	7700	LEED
_243	Semi LW 100-115 1600-1840	_570	Ground Gran. Blast Furnace Slag	7740	ESCSI Literature
_244	LW 85-100 1360-1600	_572	No-Fines	7900	
_245	Ultra LW 50-85 800-1360	_574	Retracting Aggregate, vacuum saturation, Hydrothermal	<u>8000</u>	<u>Horticulture & Special Uses</u>
_246	Insulative <50 800		Reversed Blend	8620	Medium for Plant Growth: Golf Greens
_248	CDC Specified Density	_576	Rubberized Asphalt		Potting Soil, Top dressing, Urban
<u>250</u>	<u>Strength/Performance</u>	_578	Slump	8660	Trees, Green Roofs
_251	Bond Anchorage (pull out)	_580	Temperature: High-Low	8670	Ground Cover/Landscape
<u>252</u>	<u>Compressive Strength:</u>	_582	Water Cement Ratio	8675	Wetlands, Filter Medium
_253	Less than 5000 psi (34 MPa)	_584	<u>Curing</u>	8680	Storm water filtration
_254	More than 5000 psi (34 MPa)	_590	Autoclave Curing	8685	Hydroponics
_256	Deformation	_592	Hot & Cold Weather Curing	8700	Hydroculture
_257	Deflection (Moment of Inertia)	_594	Moist Curing	8710	Herbicide Carrier
_258	Ductility	_596	Steam Curing	8750	Filler (Fertilizer)
_259	Brittle	_598	Internal/Self Curing	8790	Stonewash
_260	Flexure	<u>600</u>	<u>Marketing: History, Overview</u>	8800	Deslicking (traction) Grit
_262	High Performance	<u>2998</u>	<u>USE/APPLICATION</u>	8810	Dirt Tracks, Ball Fields
_264	High Strength	<u>3000</u>	<u>Lightweight Masonry</u>	8850	Soil Stabilization
_265	Strength Ceiling	3640	CMU “Block”	8870	Roof Granules
_266	High Early Strength	3645	Stone Masonry Veneer	8880	Grog, Clay Brick
_267	Modulus of Elasticity “E” (Young)	3650	Wall Systems (Fences)	9600	Pest Control
_268	Modulus of Rupture, Failure	3660	Concrete Brick	9601	<u>LW AGGREGATE</u>
_270	Stress/Strain (Poisson’s Ratio)	3665	Floor & Roof Systems	9605	LWA Companies
_272	Shear Strength (Punching, Nailability)	3680	Retaining Wall Units (SRW)	9610	Agriculture Waste (Rice, Straw)
_274	Tensile Strength (Splitting, Diagonal)	3690	Chimney Block	9610	Bottom Ash
_276	Torsion	3700	Productivity	9620	Cementitious Mortars (Cold/Chemical)
_277	Young’s Modulus (Rigidity/Stiffness)	3710	24” Unit – Super Block		Bonded Fly Ash, Crushed Cellular Concrete)
<u>280</u>	<u>Ratios:</u>	3750	Mortar	9630	Coal Cinders
_281	Depth to Length	3860	Pavers	9640	Crushed Brick/Block
_282	Strength to Age	<u>4000</u>	<u>STR Lightweight Concrete Bldg. Components & Misc. Uses</u>	9645	Diatomaceous Earth
_283	Strength to Weight	4610	Beams	9650	ESCS – Haydite
<u>300</u>	<u>Dimensional/Volume Stability</u>	4620	Column, Corners	9660	Expanded Clay
_302	Creep	4630	Walls	9670	Expanded Shale
_304	Shrinkage, Drying, Plastic	4635	Concrete Homes	9680	Expanded Slate
_308	Thermal Movement	4640	Floors (slabs) Lift Slabs	9690	Glass
<u>320</u>	<u>Cyclic & Rate of Loading</u>	4654	Ferrocement, Shotcrete/Gunite	9700	MSWIF
_322	Dynamic Modulus (Pulse Velocity)	4660	Pavement, Slab on Grade	9710	Neutralysis, Municipal Solid Waste
_324	Fatigue	4680	Domes	9720	Normal Weight (sand, gravel, limestone, Dolomite)
_326	Seismic	4682	Roof	9730	Perlite
_328	Vibration Damping	4684	Hyperbolic Paraboloid, Shells	9740	Polystyrene Beads/Fly Ash
<u>340</u>	<u>Influence of Moisture</u>	4686	Exposed Aggregate Concrete	9750	Pumice
_344	Absorption	4689	Elevated Structures	9760	Rhyolite
_346	Chloride Ion	4688	Self Compacting	9770	Rotary Kiln Fly Ash
_350	Corrosion of Reinforcement	4690	Parking Structures	9780	Scoria
_354	Efflorescence	4700	Bridges	9785	Shell Aggregate
_358	Permeability	<u>4709</u>	<u>Aqueous Environment</u>	9790	Shredded Tires
_360	Porosity	4710	Boats, Docks, Off-shore Platforms, Marine	9800	Sintered Fly Ash
_362	internal curing		Environmental Engineering Structures	9803	Sintered Shale & Clay
_366	Floor coverings	4720	Sanitary	9810	Slag (expanded, air cooled, blast furnace)
<u>370</u>	<u>Durability/Deterioration</u>	<u>4729</u>	<u>Building</u>	9820	3-M Macrolite
_372	Abrasion Resistance (Ice)	4730	Fill on Metal Deck, Composites	9830	Tuff
_374	Carbonation	4740	Post Tension	9840	Vermiculite
_376	Chemical	4750	Concrete Frame	9850	Volcanic Cinders
_378	Contact & Transition Zone	<u>4759</u>	<u>Construction Activities</u>	9860	Waste Sludge
_380	Cracking (Micro-cracking)	4770	Pumping, Handling, Placing	9870	Wood Chips, Cork
_382	Elastic Compatibility	4780	Finishing		
_384	Freeze/Thaw	<u>4789</u>	<u>Precast/Prestress</u>		

