

## *Sustainability*


We believe all building projects should seek to achieve four basic goals. These can be seen as sustainable design goals, but they are also basic goals all buildings should meet as part of “good design”.

1. Buildings must be safe for their residents, visitors, and neighbors.
2. Buildings must be resource – efficient.
3. Buildings must be flexible and adaptable.
4. Buildings must be durable and maintainable.

*Excerpted from Chris Schaffner, “MIT Graduate Student Residence: Initial Thoughts on Sustainability,” March 2006.*



**LOCAL REGIONAL MATERIALS**



**MR4.2** 20% OF ALL BLDG MATLS MANUFACTURED WITHIN 500 MILES

**CONCRETE USE 40% RECYCLED GLASS & ALUMINUM**



**MR4.2** 20% OF BLDG CONSTRUCTED USING RECYCLED MATLS.

**40% RECYCLED STEEL**



**MR4.2** 20% OF BLDG CONSTRUCTED USING RECYCLED MATLS.

**RECYCLE 60% OF CONSTRUCTION WASTE**



**MR2.2** CONSTRUCTION WASTE MANAGEMENT

**40% RECYCLED INSULATION (FIBERGLASS)**



**MR4.2** 20% OF BLDG CONSTRUCTED USING RECYCLED MATLS.

Materials and Resources

**WATER EFFICIENT APPLIANCES IN SUITES**



**WE3.2** 30% REDUCTION IN BUILDING WATER CONSUMPTION

**WATERLESS URINAL IN PUBLIC RESTROOM**




**WE3.2** 30% REDUCTION IN BUILDING WATER CONSUMPTION

**LOW FLOW SHOWERERS IN ALL BATHROOMS**



**WE3.2** 30% REDUCTION IN BUILDING WATER CONSUMPTION

**DUAL FLUSH TOILETS IN APARTMENT SUITES**



**WE3.2** 30% REDUCTION IN BUILDING WATER CONSUMPTION


**RECYCLE 60% OF WASTE ON CAMPUS WIDE**



**EQ4.1-4.40** ENGAGE CAMPUS RECYCLING PROGRAM

Water Efficiency

**ALTERNATIVE FUEL CAR RENTAL PROGRAM**



**SS4.3** ALTERNATE TRANSPORTATION PARKING

**ON-SITE STORM DRAIN RETENTION SYSTEM**




**SS6.1** STORM WATER MANAGEMENT

**SHADE REFLECTIVE SITE SURFACES**



**SS7.1** REDUCE HEAT ISLAND ON NON-ROOF SURFACES

**ZERO CUT OFF SITE LIGHTING**



**SS8.0** REDUCE LIGHT POLLUTION

**INNOVATION & DESIGN PROCESS**




**DP2.0** LEED ACCREDITED PROFESSIONAL

Sustainable Sites


• Innovation + Design Process

**HIGH EFFICIENCY ENERGY STAR ROOFING**



**EA1.4** OPTIMIZE ENERGY 30%

**LOWE AND FITTED GLAZING SYSTEMS**



**EA1.4** OPTIMIZE ENERGY 30%

**ENERGY STAR APPLIANCES IN SUITES**



**EA1.3** 30% REDUCTION IN BUILDING ENERGY CONSUMPTION

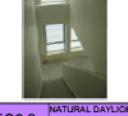
**COMPACT FLUORESCENT LOW MERCURY LAMPING**



**EA1.3** 30% REDUCTION IN BUILDING ENERGY CONSUMPTION

Energy and Atmosphere

**DAYLIGHT & VIEWS FOR 90% OF SPACES**



**EQ8.2** NATURAL DAYLIGHT & VIEWS FOR BUILDING DAYLIGHTING

**LOW EMITTING + RECYCLED FLOORING, PAINTS, & SEALANTS**



**EQ4.1-4.40** 20% OF BLDG CONSTRUCTED USING RECYCLED MATLS.

**OCCUPANCY AIR, TEMP & LIGHTING CONTROL**



**EQ6.2** CONTROLLABILITY OF LIGHTING, VENTILATION & HEATING

Indoor Environmental Quality