Northeastern University
International Village
LEED Gold

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Project Architect
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International Village Facts & Data

480,000 square foot mixed use facility
- 1,200 student beds in 1000+ rooms
- 450 seat dining hall
- 6 classrooms
- 5 story administrative office building
- 3,400 square feet of retail

“Fast track” schedule: design and construction overlap
- May 2006 design begins
- February 2007 steel package issued
- April 2007 construction begins
- June 2007 construction documents complete
- August 2009 construction complete
Present Northeastern Campus

Site History

Fenway

South End

Roxbury

Present Northeastern Campus
1960s Urban Renewal - Interchange at Ruggles & Tremont Streets

Site History
Asphalt Parking Lot - Brownfield
Density and Community Connections
Perimeter Towers - Maximize Open Space & Restore Habitat
Zinc Panels
22% by material weight

Aluminum Panels
53% by material weight

Windows
19% by material weight

Recycled Materials
Precast Concrete Panels
assembly - Alma, QC
materials:
cement - St. Constant, QC
sand - Mt. Carmel, QC
aggregate - St. Cyrille, QC
reinf. steel - Longueuil, QC

Glass
assembly - S. Easton, MA
material - Carlisle, PA

Materials Manufactured & Harvested Within 500 miles
Natural Light Saves Energy

Daylight sensors turn lights on only when there is not enough natural light.

94% of regularly occupied rooms have views to outside.
Energy Efficient Exterior Exceeds Building Code by 20% and Reduces HVAC Energy Use

- Low-e coating on glass reduces heat gain from sun but transmits natural light
- Spray-on foam insulation behind precast concrete panels minimizes heat loss through walls
- Rainscreen system for metal panels increases thermal performance
Careful Detailing & Independent Testing of Components Minimizes Energy Loss Through Air Leaks
White color reflects sun’s heat —

White Roof Minimizes Summer Heat Gain and Reduces Urban Heat Island Effect
Structural Innovation
Structural Innovation - 1,300 tons of steel or $2,700,000
Roof Garden Benefits

- Plants and soil help insulate the roof and reduce stormwater into sewers.
- Plantings reduce urban heat island effect.
- Garden increases green space on site.
The plant selection in combination with high-efficiency irrigation reduces water consumption 85% (or 16,500 gallons in July) over a baseline design.
INTERIORS  26 LEED CREDITS
Resource Savings:

Construction Waste:

91% waste diverted from landfills
10,308,000 pounds recycled or reused

21% yearly energy savings
2,394,000 kWh electricity saved
63,076 therms gas saved
27% yearly energy cost savings
$461,000 saved

38% yearly water savings
5,900,000 gallons water saved