



## LEED® FOR SCHOOLS

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### **New guidelines.**

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As of April 20, 2007, all new construction and major renovations of K-12 school facilities seeking LEED certification must use the LEED for Schools Rating System. LEED for New Construction can no longer be used to certify K-12 school building projects.

### **Achieving a higher standard.**

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The LEED for New School Construction rating system takes into account both the uniqueness of school spaces and children's health issues. As a result, the rating system is the recognized third-party standard for high-performance schools that are healthy for students, comfortable to teachers and cost-effective to school systems. LEED rating covers:

- classroom acoustics
- master planning
- mold prevention
- environmental site assessment

### **Hobart and your LEED School certification goals.**

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The commercial kitchen equipment and/or foodservice operation within a school building typically uses:

- the most energy per square foot
- the most disposable products
- toxic cleaning chemicals
- considerable amounts of water

However, commercial kitchen equipment can support a building's sustainability goals and contribute toward LEED points. What follows are two examples (Water Efficiency and Energy & Atmosphere) of how Hobart products may help support your LEED certification goals.

### **Water Efficiency.**

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#### **Water Efficiency Credit 4: Process Water Use Reduction – 20% Reduction, 1 Point**

To receive this credit, buildings must have:

- No refrigeration equipment using once-through cooling with potable water.
- No garbage disposals.
- At least four process items where water use is at or below the levels shown in the table that follows. For equipment not addressed in the table, additional equipment performance requirements can be proposed, provided documentation supporting at least a 20% reduction over the proposed benchmark or industry standard is submitted.



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Hobart offers three warewashers that can easily meet these standards, allowing you to save water, time, and money.

- The LXI undercounter uses .74 gallons per rack, for 38% estimated water savings and \$400 annually.
- The AM Select door-type also uses .74 gallons per racks while boosting water savings to 40% and estimated annual savings to \$900.
- The C-Line conveyor-type uses just .39-.64 gallons per rack for an estimated 57% savings in water usage and annual cost savings of \$2,500.

### Commercial Equipment Performance Requirements Table

Equipment Type	Maximum Water Usage	Other Requirements
Commercial Clothes Washer <sup>1</sup>	7.5 gallons/CF/cycle	
Commercial Dishwashers <sup>2</sup>	1.0 gallons/rack	
Commercial Ice Machine <sup>3</sup>	Lbs/day>175 = 20 gallons/100 lbs Lbs/day<175 = 30 gallons/100 lbs	No water-cooled machines
Food Steamers	2 gallons/hour	Boilerless steamers only
Pre-Rinse Spray Valves	1.4 gallons/minute	

<sup>1</sup> Commercial CEE Tier 3a – Residential CEE (Consortium for Energy Efficiency) Tier 1

<sup>2</sup> Hobart Warewashers that exceed the maximum water usage: LXi undercounter, CLe conveyor-type, and AM Select door-type

<sup>3</sup> CEE Tier 3

### Energy & Atmosphere.

#### Energy & Atmosphere Credit 1: Optimize Energy Performance, 2-10 Points

When a school achieves increasing levels of energy performance above the baseline prerequisite and meets one of three options, points may be awarded. Only Option 1 includes process energy loads from kitchen cooking, preparation and refrigeration equipment. In order to take advantage of energy saving with kitchen equipment, project teams need to follow the Exceptional Calculation Method (ASHRAE 901-2004 G2.5) to document process energy saving.



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Option 1 – Whole Building Energy Simulation: Reduce the building performance rating compared to baseline building performance rating per ASHRAE/IESNA Standard 90.1-2004 for total energy consumption by the following percentages:

New Buildings	Existing Building Renovations	Points Awarded
14%	7%	2
17.5%	10.5%	3
21%	14%	4
24.5%	17.5%	5
28%	21%	6
31.5%	24.5%	7
35%	28%	8
38.5%	31.5%	9
42%	35%	10

These are the 10 most popular Hobart and Traulsen products for schools seeking to reduce their overall building process energy load consumption to achieve LEED certification.



**Hobart Warewashers**

- LXi Undercounter – Energy Star Rated Dish Machines
- AM Select Door-Type Warewashers
- CLe Conveyor-Type Warewashers



**Traulsen Refrigeration**

- R & A Series Refrigerators, Freezers and Hot-Food Holding Cabinets
- G-Series Refrigerators and Freezers
- Banquet and Transport Carts
- Compact Undercounters

For a complete list of the 200-plus Hobart and Traulsen Energy Star Rated products that may contribute to your LEED certification points, visit us at [www.hobartcorp.com/sustainabledesign](http://www.hobartcorp.com/sustainabledesign).



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**Energy & Atmosphere Credit 4: Enhanced Refrigerant Management, 1 Point**

Select refrigerants in HVAC and refrigeration equipment that minimize or eliminate the emissions of compounds that contribute to life-cycle ozone depletion (LCODP) and life-cycle global-warming potential (LCGWP). The base building HVAC and refrigeration equipment (includes refrigeration units using more than ½ lb. of refrigerant) must comply with the following formula, which sets a maximum threshold for combined contributions to LCODP and LCGWP:

$$LCGWP + LCODP \times 10^5 \leq 100$$



For online users, enter your data here to have Hobart calculate your score. Or use the formula below to calculate your own.

LCGWP\_\_\_\_\_ + LCODP\_\_\_\_\_ x 10<sup>5</sup> = Your Score \_\_\_\_\_

**Innovation and Design Process.**

Projects can be awarded an ID Credit Point(s) for the following:

- ID Credit 2: LEED-Accredited Professional (1 point)  
At least one principal participant of the project team shall be a LEED-AP
- ID Credit 3: Using the School as a Teaching Tool (1 Point)  
(Strategies might include Farm-to-School Programs, schoolyard gardens, composting, recycling or conducting a lifestyle analysis of Disposables vs. Permanent Ware.)

**Additional Help.**

If you need additional help answering LEED questions or starting the process, please feel free to give us a call at 888-4HOBART (888-446-2278). Or visit the USGBC site at [www.USGBC.org](http://www.USGBC.org).



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