

Compliance Checklist - Schools

School Name: New PK-5 Elementary School, Madison CT
 School State Project #: 076-0067 N
 School Address: Mungertown Road
 City, State, Zip: Madison, CT
 Total # Credits Required: 46
 Total # Credits Targeted: 58
 Total # Credits Attempted: 53
 Total # Credits Achieved: 18



TectonArchitects

Initial Integrated Design Meeting: 3/10/23
 Follow-up Meeting: 8/17/23

Mandatory Requirements						
Targeted	Attempted	Achieved	Requirement	Requirement Description	Provided By:	Documentation Detail
1	1	1	16a-38k-3(a)	Building Commissioning	Cx	Cx Contract
1	1	1	16a-38k-3(b)	Integrated Design Process	Arch. / MEP	3/10 Integrated Design Meeting KR to provide narrative on why other two options were not selected (clear town desire to go all electric, geothermal, heat pump for EUI considerations and to align with shift for geothermal across town facilities, so no extensive analysis done of other systems). Construction Kickoff to be Scheduled Refer to SD Energy Model report dated 10/27/2022.
1	1	1	16a-38k-3(c)	Base Energy Performance 21% Better than Code	MEP	Forthcoming models to confirm.
1	1	1	16a-38k-3(d)	ENERGY STAR Products	Arch./Owner	
1	1	1	16a-38k-3(e)	Indoor Air Quality Management Plan	CM	CM/Arch Coord. Specification (Div 1) During Construction Gilbane to provide a IAQM plan, meeting minutes, photos and logs regarding ongoing plan implementation.
1	1	1	16a-38k-3(f)	Water Efficiency	MEP	
1	1	1	16a-38k-3(g)	Recycling of Materials	Arch./Civil	
1	1	1	16a-38k-3(h)	Construction Activity Pollution Prevention	CM	See Civil Drawings for plan. CM to provide documentation of compliance during construction.
1	1	1	16a-38k-3(i)	Environmental Tobacco Smoke (ETS) Control	CM/Owner	Confirm official town ordinances/BOE regulations to cite for compliance
1	1	1	16a-38k-3(j)	Integrated Pest Management Plan	Owner	Confirm official town/BOE pest management plans to cite for compliance. Coordinate with Facilities for construction pest management.
1	1	1	16a-38k-3(k)	CFC Refrigerant Ban or Phase-out Plan	MEP/Owner	
1	1	1	16a-38k-3(l)	Minimum Ventilation	MEP	
1	1	1	16a-38k-5(a)	Acoustical Standards	Arch.	
1	1	1	16a-38k-5(b)	Properly Locate Outside Air Intakes	MEP	
1	1	1	16a-38k-5(c)	Electronic Ignition on Natural Gas Equipment	MEP	No gas equipment used in this project.
1	1	1	16a-38k-5(d)	Use of Low VOC Products	Arch. / CM	Incorporate into specs (e.g., Div 9) CM to provide tabulation and matrix confirming compliance with the requirements. E.g., develop Div 1 – Sustainable Design Requirements.
1	1	1	16a-38k-5(e)	Environmental Site Assessment	Owner	Phase I completed by SLR May 2021 and determined no Phase II needed. CPL to include in DDR/PCR packages.
1	1	1	16a-38k-5(f)	HEPA Vacuuming	CM	CM/Arch Coord. Specification (e.g., Div 1 Closeout Procedure) CM to provide photos/log of vacuuming and submittals for HEPA Filters
18	18	18				

Building Standard Options						
(A minimum of 28 of the following strategies must be implemented.)						
Targeted	Attempted	Achieved	Requirement	Requirement Description	Provided By:	Documentation Detail
<i>At least one measure in subsection (a) must be selected</i>						
1	1		16a-38k-6(a)(1)	Energy Performance 24.5% Better Than Code	MEP	
1	1		16a-38k-6(a)(2)	Energy Performance 28% Better Than Code	MEP	8/17: Per KR, baseline appropriate for this project allows for over 42% improvement, so can achieve all 6 points (currently tracking 56% improvement)
1	1		16a-38k-6(a)(3)	Energy Performance 31.5% Better Than Code	MEP	8/17: Per KR, baseline appropriate for this project allows for over 42% improvement, so can achieve all 6 points (currently tracking 56% improvement)
1	1		16a-38k-6(a)(4)	Energy Performance 35% Better Than Code	MEP	8/17: Per KR, baseline appropriate for this project allows for over 42% improvement, so can achieve all 6 points (currently tracking 56% improvement)
1	1		16a-38k-6(a)(5)	Energy Performance 38.5% Better Than Code	MEP	8/17: Per KR, baseline appropriate for this project allows for over 42% improvement, so can achieve all 6 points (currently tracking 56% improvement)
1	1		16a-38k-6(a)(6)	Energy Performance 42% Better Than Code	MEP	8/17: Per KR, baseline appropriate for this project allows for over 42% improvement, so can achieve all 6 points (currently tracking 56% improvement)
			16a-38k-6(a)(7)	On-Site Renewable Energy - 3%	MEP/Owner	Coord. w/PV Intention
			16a-38k-6(a)(8)	On-Site Renewable Energy - 7%	MEP/Owner	Coord. w/PV Intention

			16a-38k-6(a)(9)	On-Site Renewable Energy - 10%	MEP/Owner	Coord. w/PV Intention
			16a-38k-6(a)(10)	Purchase Renewable Energy		Not Pursued
1	1		16a-38k-6(a)(11)	Energy Measurement and Verification		

7 7

At least two measures in subsection (b) must be selected

1	1		16a-38k-6(b)(1)	Install Permanent Indoor Air Monitoring System	MEP	
1			16a-38k-6(b)(2)	Provide Increased Outdoor Ventilation	Arch.	30% Threshold, KR to Confirm. 8/17 - won't meet per KR.
			16a-38k-6(b)(3)	Building Flushout	CM	Not Pursued (DOAS unit cannot easily support, and difficult for CM to integrate into construction sequencing/schedule)
1	1		16a-38k-6(b)(4)	Composite Wood and Agrifiber Products	Arch.	TA to Verify. 8/17 - Tecton - yes specs call to meet.
1	1		16a-38k-6(b)(5)	Individual Lighting Control	MEP	
1	1		16a-38k-6(b)(6)	Individual Thermal Comfort Control	MEP	
1			16a-38k-6(b)(7)	Building Occupant Survey	Owner	Confirm w/Owner. 8/17 no per owner.
1			16a-38k-6(b)(8)	Daylight Contribution	Arch.	TA to Verify. 8/17 Tecton needs to run model. Presume not for now.
1	1		16a-38k-6(b)(9)	Visual Gazing - View to the outdoor Environment	Arch.	
1	1		16a-38k-6(b)(10)	Mold Prevention	Arch.	
1	1		16a-38k-6(b)(11)	Low VOC Furniture	Arch.	
1			16a-38k-6(b)(12)	Isolation of Chemical Use Areas	Arch./MEP	TA Verify Custodial Spaces. 8/17: KR won't get with standard chemicals because DOAS doesn't run 24/7. If switch to green cleaners, then yes. Colliers: anticipate not using green chemicals based on town conversations.
1	1		16a-38k-6(b)(13)	Control of Particulates at Pedestrian Entryways		

12 8

Building Standard Options Continued....

Targeted	Attempted	Achieved	Requirement	Requirement Description	Provided By:	Documentation Detail
At least one measure in subsection (c) must be selected						
1	1		16a-38k-6(c)(1)	Reduce Total Potable Water Usage by 30%	MEP	KR to do the math
1	1		16a-38k-6(c)(2)	Reduce Water Consumption for Landscaping 50%	Arch. / Civil	No Irrigation
1	1		16a-38k-6(c)(3)	Eliminate Potable Water Usage for Landscaping	Arch. / Civil	No Irrigation
			16a-38k-6(c)(4)	Reduce Total Potable Water Usage by 50%		

3 3

At least two measures in subsection (d) must be selected

			16a-38k-6(d)(1)	Maintain 75% of an Existing Building Structure		No Existing Structure
			16a-38k-6(d)(2)	Maintain 95% of an Existing Building Structure		No Existing Structure
			16a-38k-6(d)(3)	Re-use Existing Non-Structural Building Elements		No Existing Structure Gilbane to Verify.
1	1		16a-38k-6(d)(4)	Recycle or Salvage 50% of Construction and Demolition Debris	Arch./CM	Incorporate into Div 1 specs. CM to provide a narrative describing the project's construction waste management approach and plan. CM to provide a tabulation of Diverted / Recycled Materials, including the Diversion / Recycling Hauler or Location and the Quantity of Diverted / Recycled Waste, Landfilled Materials, including the Landfill Hauler or Location and the Quantity of Landfilled Waste.
1	1		16a-38k-6(d)(5)	Recycle or Salvage 75% of Construction and Demolition Debris	Arch./CM	Gilbane to Verify
			16a-38k-6(d)(6)	Use 5% Refurbished, Salvaged or Reused Materials		
			16a-38k-6(d)(7)	Use 10% Refurbished, Salvaged or Reused Materials		
1	1		16a-38k-6(d)(8)	Use 10% Recycled Content Materials	Arch./CM	Front-End Specs. CM to provide tabulation and matrix confirming compliance with the requirements
1	1		16a-38k-6(d)(9)	Use 20% Recycled Content Materials	Arch./CM	Front-End Specs. CM to provide tabulation and matrix confirming compliance with the requirements
1	1		16a-38k-6(d)(10)	Use 10% Local Materials	Arch./CM	Front-End Specs. CM to provide tabulation and matrix confirming compliance with the requirements
1	1		16a-38k-6(d)(11)	Use 20% Local Materials	Arch./CM	Front-End Specs. CM to provide tabulation and matrix confirming compliance with the requirements
1	1		16a-38k-6(d)(12)	Use Building Materials Made from Short Harvest Cycle Plants		TA to Verify. 8/17: Tecton - yes listed in specifications
1	1		16a-38k-6(d)(13)	Use Forest Stewardship Council (FSC) Certified Wood Products	Arch./CM	Coordinate w/Gilbane

8 8

Building Standard Options Continued....

Targeted	Attempted	Achieved	Requirement	Requirement Description	Provided By:	Documentation Detail
At least two measures in subsection (e) must be selected						
			16a-38k-6(e)(1)	Re-develop a Local Site		
			16a-38k-6(e)(2)	Select a Site with Public Transportation Access		
			16a-38k-6(e)(3)	Encourage Bicycle Transportation		

1	1		16a-38k-6(e)(4)	Encourage Low-Emission Vehicle Use with Preferred Parking	Civil	Benesch to Incorporate Signage
1	1		16a-38k-6(e)(5)	Encourage Car and Van-Pooling	Civil	Benesch to Incorporate Signage
			16a-38k-6(e)(6)	Protect Natural Areas at the Construction Site		
1	1		16a-38k-6(e)(7)	Maximize Open Space	Civil	
			16a-38k-6(e)(8)	Implement a Stormwater Mgmt Plan Reducing Run-off by 25%		
1	1		16a-38k-6(e)(9)	Implement a Stormwater Mgmt Plan that Treats 90% of Annual Rainfall	Civil	Per DEEP Water Quality Req'ts
			16a-38k-6(e)(10)	Reduct Heat Island Effect Through Landscaping Strategies		
1	1		16a-38k-6(e)(11)	Select Roofing materials to Reduce Heat Island Effect	Arch.	Review w/Gilbane RE: Procurement (white/low albedo roofing has been more difficult to procure as of late).
1	1		16a-38k-6(e)(12)	Reduce Outdoor Light Pollution	MEP	
1	1		16a-38k-6(e)(13)	Orient Building for Daylighting and Energy Performance	Arch.	
			16a-38k-6(e)(14)	No Building in Floodplain and Sustainable Site Development		
1	1		16a-38k-6(e)(15)	Site Building away from External Sources and Excessive Noise	Arch.	
8	8					
No minimum requirement for measures in subsection (f)						
			16a-38k-6(f)(1)	Eliminate the use of CFCs, HCFCs and Halons		
1	1		16a-38k-6(f)(2)	Building Innovation		
1			16a-38k-6(f)(3)	Curriculum on Sustainable Building Features		Review Owner Requirements 8/17: not anticipated to be achieved.
2	1					
40	35		Total Building Standard Optional Strategies (28 Needed for Compliance)			
58	53	18	Total Credits Achieved (46 Needed for Compliance)			

Arch. Tecton Architects
 Owner Madison Public Schools (CPL Representation)
 MEP Kohler Ronan
 Cx BVH / Salas O'Brien
 Civil Benesch
 CM Gilbane