

Certificate of Design

Date:	August 3, 2012	
From:	John A. Aharonian, RA, Aharonian & Associates, Inc.	
These plans and / o	or specifications covering construction work on:	
Renovation & Addit	ion to existing Cumberland Farms Store # 5604	

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.



Signature: MM MM

Title: President

Firm: Aharonian & Associates, Inc.

Address: 310 G Washington Hwy, Suite 100

Smithfield, RI 02917

Phone: 401-232-5010

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90.1 (2007) Standard

Section 1: Project Information

Project Type: Addition

Project Title: Cumberland Frams

Construction Site: 801 Washington Ave Portland, ME Owner/Agent: Cumberland Farms 100 Crossing Blvd Framingham, MA Designer/Contractor:
Aharonian & Associates Inc.
310 George Washington Highway
Suite 100
Smithfield, RI

Section 2: General Information

Building Location (for weather data):

Portland, Maine

Climate Zone:

6a

Building Type for Envelope Requirements:

Non-Residential

Vertical Glazing / Wall Area Pct.:

16%

Activity Type(s)
Retail:Sales Area

Floor Area 3880

Section 3: Requirements Checklist

Envelope PASSES: Design 9% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
South Wall (Addition): Metal Building Wall	229	0.0	20.0	0.048	0.113
South Wall: Steel-Framed, 16" o.c.	826	21.0	0.0	0.106	0.064
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.36	181		<u></u>	0.440	0.550
Window 3: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.36	109			0.440	0.550
Door 3: Glass (> 50% glazing):Metal Frame, Clear, Entrance Door, SHGC 0.36	42			0.540	0.800
Window 4: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.36	138			0.440	0.550
West Wall (Addition): Metal Building Wall	655	0.0	20.0	0.048	0.113
North Wall (Addition): Metal Building Wall	636	0.0	20.0	0.048	0.113
North Wall: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density , Furring: Metal	419	0.0	12.0	0.066	0.080
Door 1: Insulated Metal, Swinging	32			0.091	0.700
East Wall (Addition): Metal Building Wall	143	0.0	20.0	0.048	0.113
East Wall 1: Concrete Block:12", Partially Grouted, Cells Empty,Normal Density , Furring: Metal	195	0.0	12.0	0.065	0.080
East Wall 2: Concrete Block:12", Partially Grouted, Cells Empty,Normal Density , Furring: Metal	317	21.0	0.0	0.115	0.080
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.36	16			0.440	0.550
Door 2: Glass (> 50% glazing):Metal Frame, Clear, Entrance Door, SHGC 0.36	45			0.540	0.800

Project Title: Cumberland Frams

Data filename: V:\11112 Portland, ME\COMcheck\Comcheck Portland.cck

Report date: 08/03/12

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, 1	Roof 1: Insulation Entirely Above Deck	3880		21.7	0.044	0.048
-	Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 4 ft.	131		12.0		
(a)	Budget U-factors are used for software baseline calculations ONLY, a	nd are not code	requirem	ents.		***************************************
	Insulation:					
	 Open-blown or poured loose-fill insulation has not been used in at Wherever vents occur, they are baffled to deflect incoming air abo Recessed lights, equipment and ducts are not affecting insulation No roof insulation is installed on a suspended ceiling with removal All exterior insulation is covered with protective material. Cargo and loading dock doors are equipped with weather seals. 	ve the insulatio thickness.	n.	g slope grea	iter than 3 in	12.
	Fenestration and Doors:					
	 Windows and skylights are labeled and certified by the manufacture. Fixed windows and skylights unlabeled by the manufacturer have. Other unlabeled vertical fenestration, operable and fixed, that are a default U-factor and SHGC. No credit has been given for metal frainsulating spacers. 	been labeled us unlabeled by th	sing the de e manufac	efault U-fact cturer have	been site labe	eled using the
	Air Leakage and Component Certification:					
	10. All joints and penetrations are caulked, gasketed, weather-stripped	d, or otherwise	sealed.			
_	11. Windows, doors, and skylights certified as meeting leakage require	ements.				
	12. Component R-values & U-factors labeled as certified.					
	13. 'Other' components have supporting documentation for proposed to		27 100 17		907 B	
	14. Building entrances that separate conditioned space from the exterior self-closing devices. Interior and exterior doors in the closed posit requirements for a conditioned space. Unconditioned vestibules c Exceptions:	ion are no less	than 7 ft a	part. Condi	tioned vestibu	ules comply with th
	☐ Building entrances with revolving doors.					
	☐ Doors not intended to be used as a building entrance.					
	□ Doors opening directly from a dwelling unit.					
	☐ Doors that open directly from a space less than 3000 sq. ft. in a	area and is sep	arate from	the building	g entrance.	
Se	ection 4: Compliance Statement					
oth	mpliance Statement: The proposed envelope design represented in the er calculations submitted with this permit application. The proposed er uirements in COMcheck Version 3.9.1 and to comply with the mandate	nvelope system	has been	designed to	o meet the 90	

3880

PAVIO HORTON Name - Title

Roof 1: Insulation Entirely Above Deck

Project Title: Cumberland Frams

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