

Section 1: Project Information

Energy Code: 2009 IECC

Project Title: Anderson Creek Plaza Shoppes

Project Type: New Construction

Construction Site:

Ray Road at Overhills Road

Spring Lake, NC 28390

Jason Wellons

511-NC 210

910-436-3131

Building Location (for weather data):

Climate Zone:

Vertical Glazing / Wall Area Pct.:

Building Use: Activity Type(s) 1-Retail: Nonresidential

Owner/Agent:

Designer/Contractor:

Fayetteville, NC 28305

George Rose

P.O. Box 53441

910-977-5822 grose9295@gmail.com

W. S. Wellons Realty

Spring Lake, NC 28390

jason@wswellonsrealty.com Spring Lake, North Carolina

Floor Area 5600

Section 2: Envelope Assemblies and Requirements Checklist

10%

Envelope PASSES: Design 3% better than code.

Envelope Assemblies:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Orientation: NORTH					
Exterior Wall 1: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Retail] (b)	1085			0.040	0.089
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	110			0.500	0.600
Window 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	110		(0.500	0.600
Window 3: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	110		(111)	0.500	0.600
Window 4: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	110			0.500	0.600
Window 5: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	14			0.500	0.600
Window 6: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID na, SHGC 0.70, PF 0.44, [Bldg. Use 1 - Retail] (c)	14			0.500	0.600
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	***		0.067	0.700
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	***		0.067	0.700
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21			0.067	0.700
Door 4: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21			0.067	0.700
Orientation: EAST					
Exterior Wall 4: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Retail] (b)	1120			0.040	0.089
Orientation: SOUTH					
Exterior Wall 2: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Retail] (b)	1085			0.040	0.089
Orientation: WEST					
Exterior Wall 3: Other Mass Wall, Heat capacity 1.0, [Bldg. Use 1 - Retail] (b)	1360			0.040	0.089

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Orientation: UNSPECIFIED ORIENTATION								
Ro	of 1: Metal Building, Standing Seam, [Bldg. Use 1 - Retail]	5600	30.0	0.0	0.051	0.055		
Flo	or 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - Retail]	300						
(a) Bu	(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.							
(b) 'Other' components require supporting documentation for proposed U-factors.								
(c) Fe	nestration product performance must be certified in accordance wit	h NFRC and re	equires supp	orting doc	umentation.			
At a large Comment Contification and Veneral Retailer Requirements.								
Air Leakage, Component Certification, and Vapor Retarder Requirements:								
□ 1.	 All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions. 							
2 .	 2. Windows, doors, and skylights certified as meeting leakage requirements. 							
□ 3.	3. Component R-values & U-factors labeled as certified.							
4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.								
	5. 'Other' components have supporting documentation for proposed U-Factors.							
☐ 6.	6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.							
□ ^{7.}	Stair, elevator shaft vents, and other outdoor air intake and exhaudampers.	ist openings in	the building	envelope	are equipped	with motorized		
□ 8.	Cargo doors and loading dock doors are weather sealed.							
9.	Recessed lighting fixtures installed in the building envelope are T	ype IC rated as	s meeting A	STM E283	, are sealed w	ith gasket or caulk.		
☐ 10	D. Building entrance doors have a vestibule equipped with self-closin Exceptions:	ng devices.						
	 Building entrances with revolving doors. 							
	☐ Doors not intended to be used as a building entrance.							

Section 3: Compliance Statement

 $\hfill \square$ Doors that open directly from a space less than 3000 sq. ft. in area.

Doors opening directly from a sleeping/dwelling unit.

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specific and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 requirements in COMcheck Version 4.0.5.3 and to comply with the mandatory requirements in the Requirements Checklist.						
Name - Title	Signature	Date				

Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.

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