

# Latham

## Certification of Vapor Barrier

To Whom it May Concern,

This letter states that the fabrics used by Latham Auto Cover Division, brands CoverStar and Pool Cover Specialists, are certified as a Class II vapor retardant barrier as defined by the IECC Standard and per the test parameters outlined in ASTM E96/E96M-24a, procedure B, rated in grams of water vapor permeated per square meter over a 24 hour time period at 23 degrees Celsius.

Based on the test parameters and results, our fabrics in compliance with IECC and IECC based energy codes across the US as well as 2021 IBC, 2024 ECCCNY, BEES 2012, Title 24. For a full list of state-by-state energy requirements please see page 2.

### Test Method:

In this test method, the amount of grams of water vapor allowed to pass through 1 square meter of the fabric material over a 24-hour time period is measured. This is measured in a humidity chamber kept at 50% relative humidity and 23 degree Celsius. This number is then converted to "PERMS", where 1 perms = 64.8grams per square meter over 24-hour period.

### Test Results:

Therefore, our test result of "10" grams of water permeated per square meter over 24-hours yields a result is 0.146perms, defining this product as a class II vapor retardant barrier as defined by IECC, for which the acceptable range of perms within this class is 0.1-1.0 Perms.

Signed:

*Jamie Long 3/24/26*

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Latham, The Pool Company  
Director of Auto Covers

Summary of State-By-State Energy Codes for outdoor heated pools:

State	Applies To	Evaporation Barrier Parameters	Exceptions	Enforcing Code / Bill Name	Energy Code Basis
Alabama	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Alabama Energy & Residential Codes Board adoption (2015 IECC)	2015 IECC (res) / ASHRAE 90.1-2013 (comm)
Alaska	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Alaska Building Energy Efficiency Standard 2012	BEES 2012
Arizona	Varies	Varies	Varies	No statewide code	Local IECC
Arkansas	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Arkansas Energy Code 2015 (2009 IECC)	2009 IECC
California	Outdoor heated pools & spas with heaters	Mandatory pool cover as primary evaporation barrier	Unheated pools exempt	CA Title 24 replaces IECC; pool cover language tied to pool heating provisions	Title 24 (non-IECC)
Colorado	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	No statewide code by law	Local IECC adoption
Connecticut	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Connecticut State Building Code 2022 (IECC-based)	2021 IECC
Delaware	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Delaware State Energy Code 2020 (2018 IECC)	2018 IECC

<b>District of Columbia</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	DC Energy Conservation Code	2018 IECC
<b>Florida</b>	All heated pools	Vapor-retardant pool cover	Some above-ground pools exempt	Florida Building Code – Energy Conservation 2020	2018 IECC
<b>Georgia</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Georgia State Minimum Standard Energy Code	2015 IECC
<b>Hawaii</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Hawaii energy code based on 2020 IECC	2020 IECC
<b>Idaho</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Idaho adopted 2018 IECC	2018 IECC
<b>Illinois</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Illinois statewide 2021 IECC (with amendments)	2021 IECC
<b>Indiana</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Indiana Residential 2018 IECC; Comm outdated	2018 IECC (res) / older comm code
<b>Iowa</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Iowa State Energy Code 2024	2021 IECC
<b>Kansas</b>	Varies	Varies	Varies	No statewide code	Local IECC
<b>Kentucky</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	KY Building Code 2018 based on IECC	2015 IECC

Louisiana	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Louisiana code 2015 IECC	2015 IECC
Maine	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	MUBEC 2020 based on 2015 IECC	2015 IECC
Maryland	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Maryland Building Performance Standards	2018 IECC
Massachusetts	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Massachusetts Energy Code 10th Ed.	2021 IECC
Michigan	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Michigan Uniform Energy Code 2024	2021 IECC
Minnesota	Heated pools & permanent spas	Vapor-retardant cover; R-12 if >90°F	Solar/site-recovered energy exemption	Minnesota Energy Code (adopted pool cover explicit)	2018 IECC
Mississippi	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Mississippi code 2015 IECC	2015 IECC
Missouri	Varies	Varies	Varies	No statewide code; local adopt	Local / state orders
Montana	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Montana 2018 IECC (with amendments)	2018 IECC
Nebraska	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Nebraska Energy Code 2024	2021 IECC
Nevada	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Nevada statewide IECC 2024	2021 IECC

<b>New Hampshire</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	NH energy code 2023	2021 IECC
<b>New Jersey</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Uniform Construction Code	2021 IECC
<b>New Mexico</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	New Mexico adopted 2021 IECC (with amendments)	2021 IECC
<b>New York</b>	Outdoor heated pools & permanent spas	Vapor-retardant cover; R-12 if >90°F	Solar/site-recovered energy exception	New York ECCCNYIS incorporating IECC activity	2024 ECCCNYIS (IECC-based)
<b>North Carolina</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	NC Energy Conservation Code 2018	2018 IECC
<b>North Dakota</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	ND adopted IECC 2021	2021 IECC
<b>Ohio</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Ohio adopting by 2024 / mixed levels	2021 IECC (comm) & 2018 res
<b>Oklahoma</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Oklahoma Uniform Building Code	2021 IBC (includes IECC)
<b>Oregon</b>	Outdoor heated pools & spas	Pool cover required to reduce evaporation	Solar exception	OR specialty code equivalent to IECC	Oregon specialty code / 2021 IECC alt
<b>Pennsylvania</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	PA Uniform Construction Code	2021 IECC
<b>Rhode Island</b>	Outdoor heated pools	Vapor-retardant pool cover	Solar/site-recovered	RI State Energy Code	2021 IECC

	& permanent spas		energy exception		
<b>South Carolina</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	SC Energy Standard	2018 IECC
<b>South Dakota</b>	Varies	Varies	Varies	No mandatory statewide code	Voluntary / local
<b>Tennessee</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	TN IECC 2018	2018 IECC
<b>Texas</b>	Varies	Varies	Varies	No statewide code	Local adoption only
<b>Utah</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Utah IECC adoption	2021 IECC
<b>Vermont</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	VT approved codes beyond 2021 IECC	2021 IECC
<b>Virginia</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	VA Uniform Statewide Code	2021 IECC
<b>Washington</b>	All heated pools & permanent spas	Vapor-retardant cover; R-12 if >90°F	Solar/site-recovered energy exception	Washington energy code based on IECC levels	Custom IECC-equivalent
<b>West Virginia</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	WV energy code	IECC adopted
<b>Wisconsin</b>	Outdoor heated pools & permanent spas	Vapor-retardant pool cover	Solar/site-recovered energy exception	Wisconsin building code 2024	2021 IECC
<b>Wyoming</b>	Varies	Varies	Varies	No statewide energy code	Local adoption only