

### CondenStop®

CondenStop is an innovative product designed specifically to prevent problems caused by condensation in buildings and roof systems. CondenStop prevents dripping and keeps building contents and insulation dry.

### NEW Improved Absorption

By continuous research Lantor improved the unique absorption qualities of CondenStop. With a new composition, Lantor is able to distribute and control condensation water even better than before. This has led to the highest absorption available on pitched roofs!

### NEW Test Method

Fraunhofer IBP from Stuttgart-Germany, has performed a test which represents the real life situation of condensation on metal roofing. Even different roof angles are taken into account in this test. This is the scientific proof of a long known fact: CondenStop out-performs all competition by at least 20%!

### NEW Branding

Basically two different absorption materials are used in metal roofing. On one side there are several manufacturers of generic needle punch fleeces. On the other side there is Lantor CondenStop the Condensation Control Membrane.

### Test Results (Fraunhofer)

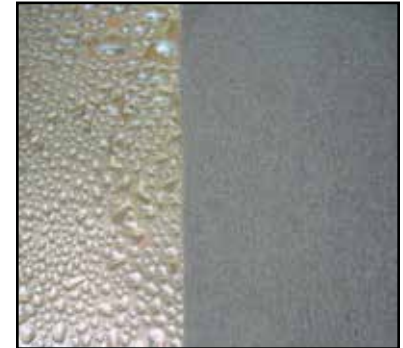
The measured values of 20 mat elements to determine the material thickness and the mass per unit area were averaged and the following results were achieved for the tested types of mats including the adhesive layer:

Type of mat (marking of the client)		110°	CS°
Thickness approx.	mm	+ 0.75	+ 1.12
Mass per unit area	kg/m <sup>2</sup>	125	86

The water absorptive capacity of the mats glued on the sheets in dependence of the installation arrangement of the horizontal 0° position to the 45° position of the test specimens is listed in Tables 1 to 4. Since there are three identical test specimens of each type of mat for each installation angle, the measurement results of these three samples were averaged. The water absorptive capacity of the mats in dependence of the installation angles is as follows:

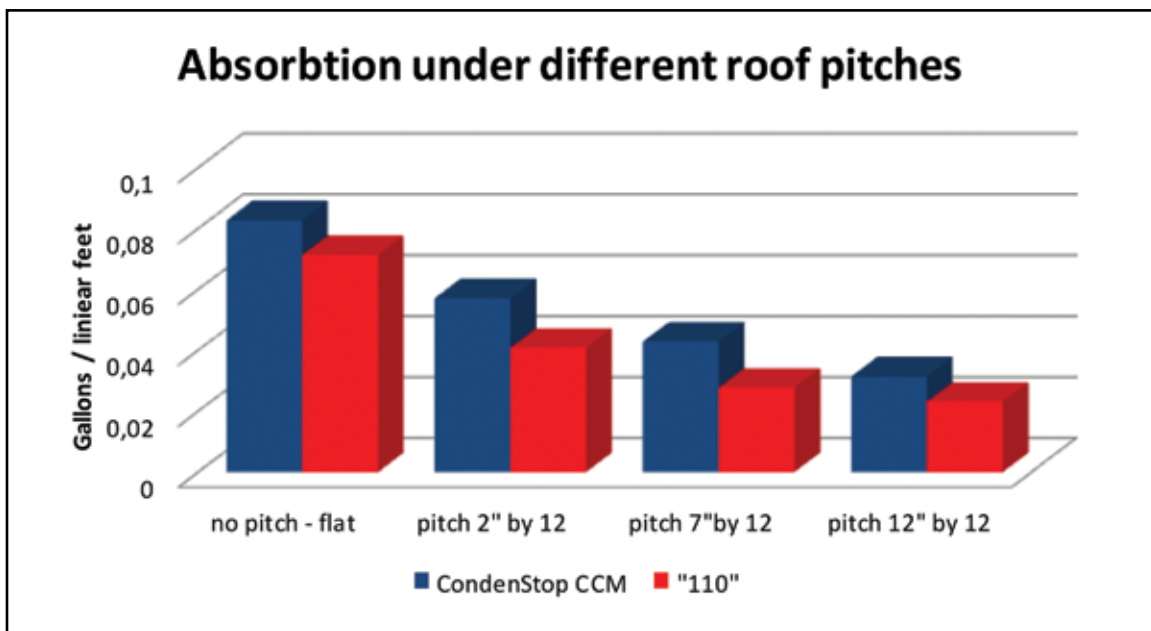
Type of mat (marking of the client)		110°	CS°
0° position (horizontal)	g/m <sup>2</sup>	+ 894	+ 1037
10° position	g/m <sup>2</sup>	512	716
30° position	g/m <sup>2</sup>	348	538
45° position	g/m <sup>2</sup>	290	394

The measured values show that the water absorptive capacity of the mats is clearly reduced by enlarging the installation angles. By slightly changing the angle by 10° from the horizontal a reduction of the water absorptive





capacity of approx. 28% to approx. 44% can be observed. The max reduction of the water absorptive capacity of the mats was measured at the 45° position with 60% to 68%. The comparison of the mats shows that the mat of type +CS° has the highest water absorptive capacity. The table below shows the comparison of the two mats at 4 different roof angles:



- Red bar: generic needle fleece 110 grams
- Blue bar: LANTOR CONDENSTOP (tested as CS)

As the roof pitch increases the absorption decreases under the influence of gravity. A significant difference is shown between the competition and CondenStop, with CondenStop outperforming the competition at any angle.

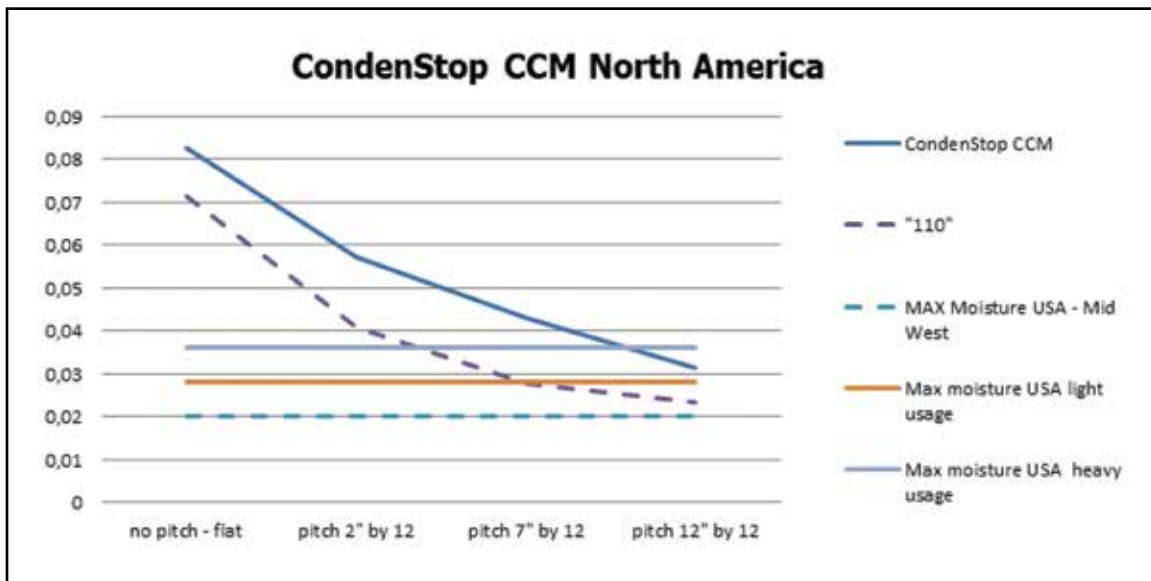
### Conclusion

Independent testing confirms that CondenStop provides the best solution to condensation at any roof pitch.



### What Does This Mean For Your Application?

When we take Lexington-KY, USA as a typical example for the application of Lantor CondenStop, we see that with CondenStop we can cover all applications!



Even at a very steep roofpitch of 7" by 12 our Condensation Control Membrane will perform!

- ✓ Highest absorption of condensation moisture available
- ✓ Decreases installation costs of a metal roof
- ✓ Can be installed year round in all weather conditions
- ✓ Provides additional resistance to corrosion resistance of the roof panel
- ✓ High fire safety classes
- ✓ Impervious to mold growth
- ✓ Does not attract dust or dirt
- ✓ Homogeneous spread of condensation water on the roof surface
- ✓ Drip free performance
- ✓ One solution for all conditions
- ✓ 20 year warranty on intrinsic properties
- ✓ Over 20 years experience with condensation protection