

INTRODUCING **ReduFuse**[®]

For years diffused light has been known to help in greenhouse production by scattering the light within the crop canopy. Diffused light allows the lower leaves to receive light and produces better plants of higher quality and increase yields. The problem is this benefit occurs only when the light source, the sun, is at a high angle to the greenhouse—late spring to early fall. At lower angles of the sun, the effect of diffusing the light is a negative as light will deflect off diffused glass. This poses a paradox for those who want to implement this technology into their operation— **Until now.**

Experiences with ReduFuse[®]

- More photosynthesis, even at the bottom of the plant.
- Higher yield and better quality.
- More uniform climate, creating less stress in the plant.
- Light diffusion for a fraction of the investment of permanent diffused glass.
- Flexibility of timing and rate of diffusion (haze) season to season.
- ReduFuse[®] has a very high transmission and haze factor.
- Easy to apply with a spray machine.
- Highly wear resistant.
- Completely transparent when wet.
- As part of the ReduSystem[®], ReduFuse[®] is removed with ReduClean[®], resulting in no loss of light in darker periods.

LET THE LIGHT SHINE IN...



Another Way
We Are
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The Reviews Are In... "Everyone Is Excited About ReduFuse®"

Enniskillen Pepper Company

"There is more than enough natural sunlight to produce peppers year-round" states Adrian Roelands, manager at Enniskillen Pepper Company. There is however a limiting factor on photosynthesis and production during winter. For that reason there was a need to optimize photosynthesis of the pepper crop in the winter. "There was a lot of talk going on about diffuse light getting better results. When finally I read this article in a magazine about ReduFuse®, I decided to contact the dealer in Canada. We needed to get more information."

Enniskillen Pepper Company conducted their trials together with the Canadian branch of Mardenkro and Mardenkro's distributor, MGS Horticultural Inc. "We started with our trials in May 2011," tells Adrian Roelands. "Before trials were set up, we had a lot of conversations with people from Mardenkro. They had even arranged a consultant to guide us every step of the trial! Normally we used ReduHeat® because of the extreme heat in June and July. We needed to make more use of our light, no more blocking the sunlight, only diffusing. ReduFuse® has been applied to a little less than 1 acre. We have high hopes for this product, because we really believe in its benefits." For now, test results showed more peppers, but not yet bigger ones. "This is all part of trials", states Adrian Roelands. "Everyone is excited about ReduFuse®, it's only a matter of finding out the best way to use it. Next year we will apply the ReduFuse® earlier in the year, beginning of March. We have a lot of trust in this product, not only because of its high potentials, but also because of the good cooperation with Mardenkro!"



Eurofresh Farms

Eurofresh Farms has based its faith in ReduFuse® on its own testing, conducted together with the Canadian branch of Mardenkro. "Last winter and spring, we conducted various trials with ReduFuse®, outlines Fons Aldenzee. "In some cases, these trials are still ongoing."

Still, the company has already decided to start with the application of ReduFuse® on its entire 130 ha operation from October. Aldenzee: "We found that under the ReduFuse®, the leaves in the lower part of the plant were also contributing to photosynthesis. This resulted in stronger plants. Because of this, we were able to increase growing temperatures. Thus we increased the amount of fruits setting, resulting in significant higher production and better fruit sizes in comparison to our control areas."

Aldenzee estimates that it will take three to four weeks to apply ReduFuse® to the whole Eurofresh operations, tomatoes and cucumbers alike. "Our tests have shown that the highest benefits of the shade system occur when we receive the lowest amount of natural sunlight. Therefore from November on, ReduFuse® should be in place."