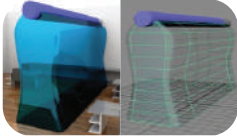




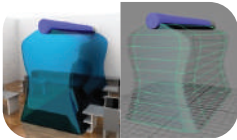
Short Range



$\Delta T: >10^{\circ}F$
Small air drop



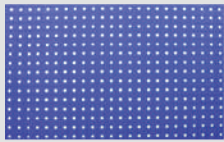
$\Delta T: 5 - 10^{\circ}F$
Medium air drop



$\Delta T: 0 - 5^{\circ}F$
Wide air drop

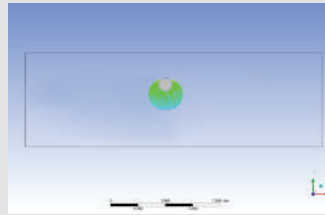
This system is recommended with air conditioning applications, utilized when large amounts of airflow need to be diffused at a low velocity preventing drafts in the occupied zone, which results in a greater level of comfort. Two primary methods are utilized with Short range applications. The diffusion through micro laser perforation, we can define the permeability that is required on the textile fiber. The micro perforations are calculated both in diameter and in separation between them in order to guarantee that the required permeability on the duct will be obtained, the minimum diameter of the microperforations is 1/64". The second is based on having high permeability fibers that allows a large quantity of air to exit at a low speed by means of a great surface area, the delivery area is tailored made. These systems work excellent at low heights and under thermal conditions. Softducts can achieve the desired permeability by means of laser micro perforations that have a diameter of 1/64 "so that we place more or less outlet air according to the requirements of the system.

It is important to realize that airflow in rooms ventilated by short range systems is based on natural air movement, i.e. density differences (cold air displaces warm air).



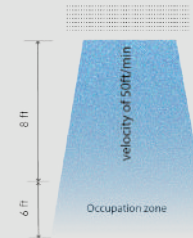
Through laser microperforation, we can achieve the permeability desired on the textile fiber.

Textile Microperforation



Simulation

Utilized in areas where only a comfortable space is desired and not a direct airflow.



Velocity ft/min

