Far infrared is defined as any radiation with a wavelength of 15 µm (micrometers) to 1 mm. It is not visible to the human eye, having less energy than visible light photons. This wavelength is found in the energy from the sun as well as within the human body (in the Lymphatic system).

Far infrared emits a resonant frequency, causing vibration in the cells immediately in contact with the technology. Water molecules in our body pass this vibration to adjacent cells; much like the resonance of a violin string will create vibration throughout the body of the instrument. Gradually, the energy absorbed from contact will transfer to all the water found in our bodies (around 70%). These vibrations create a host of benefits.

Scientific tests have shown increased microcirculation in people exposed to external far infrared rays, lowering blood pressure and the risk of cardiovascular disease. The expanded capillaries can carry more blood to and from the parts of our bodies, improving the immunocompetence of the lymphatic system which is responsible for removing anti-bodies from the circulatory system. Additionally, this increases the speed at which we metabolize calories and creates a ‘deep heat’ to relax muscle.

All of this is achieved by combining simple compounds found in nature (TiO₂, Al₂O₃, and ZnO) and impregnating the floor with the resulting mixture. Similar technology has been used to treat a variety of disorders and improve overall health by way of saunas, sleeping pads, mineral lamps, and even athletic apparel. It can help reduce the risk of a multitude of diseases and conditions including; congestive heart failure, muscle stiffness, digestive irregularity, and cancer.

While Ion Wood is not tested thoroughly for the treatment of all the above, it is a unique and exciting technology with benefits not seen in any other hardwood product. We couple our multilayer UV-cured finish and our far infrared treatment into one product line with variety in color and species for a durable, healthy, hardwood floor.