



ESSICCATOI PER LEGNO
TIMBER DRYING KILNS ♦ HOLZTROCKNER
SECHOIRS A BOIS ♦ SECADEROS DE MADERA

ARCOLE, 16th February 2021

Messrs
JAMES JONES & SONS LTD
Broomage Avenue
Larbert, Stirlingshire
FK5 4NQ
United Kingdom

Our Ref: **CO05585**

Subject: Sunderland City council request – Enviromental Health.

Dear Sirs,

referring to Your email dated 15th February 2021 and answering to the following request:

***Kilns** – please explain the purpose of these units. If steam is fed to them from the biomass boiler how are they vented – any condensing system provided? Any external air handling plant? Some construction is noted on the roof of the kilns but the drawing does not explain the purpose. This range of processing plant is located on the northern perimeter of the site overlooking the country park. Emissions to air must not adversely impact upon this area and the design of abatement plant and the stack should aim to avoid the grounding of any emissions in the immediate area.*

Our answer and clarification is:

A wood dryer is used in order to create and control inside it a climate useful for the scope of the drying or heat-treatment process.

During the drying and heating phases, the substances that are evacuated by vents placed on the top of the kiln are air and steam. There are other substances, included in the wood, that could be released but it depends on which type of wood is drying and the origin area of it.

The kiln is feeding by hot water coming from the biomass boiler. The water, after releasing the heat inside the kilns and then becomes cold, comes back to the boiler.

In this project, the emissions in the atmosphere are only steam moreover in small quantities considering that on the top of the kilns will be installed the heat recovery systems that don't disperse thermal energy in the air. (check the pic below).

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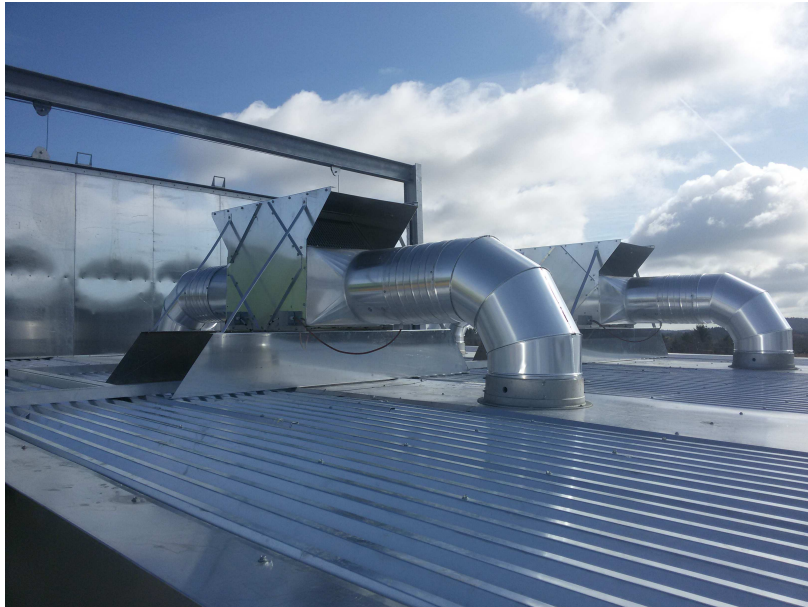
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Kind regards.

Bontempo Giancarlo

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