

N°37 TIMBER DRYING TODAY IN PRIMARY PROCESSING How to take a global approach

How to take a global approach for a drying project

The installation of a timber drying unit always occurs in a context where many general, or more company-specific, issues need to be addressed. What are the most efficient solutions today?



Advantages and disadvantages of the various current drying practices

the different practices	advantages	disadvantages
air drying only	- no investment in equipment	- requires a very high amount of space and
		is very time consuming
		- inadequate for most end uses
		- many defects
kiln drying only	- fast high quality drying	- requires a lot of space
	- the moisture contents achieved meet all	 stocks upstream and downstream
	needs	- any wide distribution of initial moisture
		content values will be difficult to
		manage
air drying followed by	 increased flexibility of stock 	- requires a very high amount of space
kiln drying	management	- stocks upstream and downstream
	- the moisture contents achieved meet all	- the defects encountered with air drying
	needs	do often still occur
drying in a pre-dryer and	 very high flexibility of stock 	- requires a lot of space
then in a kiln	management	- the level of capital investment required is
	- the moisture contents achieved meet all	high
	needs and they will be contained within	
	a narrow range	
	- optimum quality	

Specific constraints which should not be overlooked: CATHILD can help you to consider your drying project globally

constraints	original solutions offered by CATHILD		
constraints	Hardwoods	Softwoods	
mixture of species or thicknesses	pre-drying zones each with their		
	individual control system		
thick timbers	gentle pre-drying followed by optimized		
	kiln drying	"high capacity -	
a wide range of initial moisture	pre-drying	low temperature	
content values		drying"	
low temperature thermal fluid	pre-drying and drying possible for		
	hardwoods		
not enough space available	the amount of space used is three times		
	less in a pre-dryer		
a high level of noise may be a problem	variable speed fans and noise traps on		
	extraction vents		



N°37 THE HIGH CAPACITY LOW TEMPERATURE KILN

A new piece of equipment set to completely change the scene in softwood sawmills



A new invention derived from applied research: when it was thought that nothing really new could revolutionize "conventional" drying, the CATHILD Company proves that it is still possible to achieve significant advances with the development of its "high capacity – low temperature" kilns especially designed for the drying of softwood species.



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