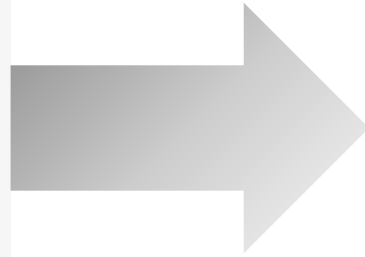




Dario Tomat
Process Engineer
Mb 0412 291 450

HEMP STALKS TO HEMP FLOORING





Growing and harvesting Hemp



After harvesting, stalks left to ret for 3 weeks prior to baling



Presentation of bales to Factory

Square bales – stalk length tends to be chopped so more difficult to get strength along the boards



Round bales – normally longer stalk lengths but tends to create a blanket rather than continuous stalks



Our goal is to find a way to gather hemp stalk into a square bale comprising of lengthwise whole stalks



Unbaling and crushing



Adhesive soaking and racking



CHEMISTRY

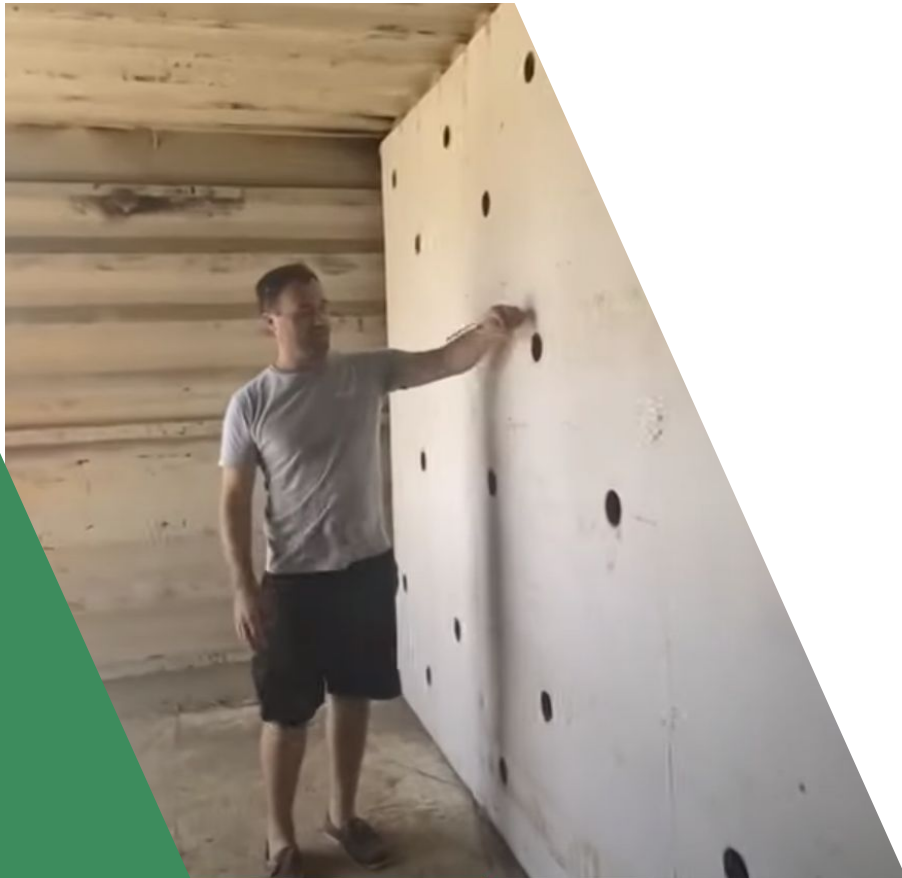
The Murray State University Chemistry Department has assisted with the development of the adhesive used for binding the fiber hemp stalks.

The adhesive used is a soy-based, no added formaldehyde glue.

Clean glue = Clean product



Hemp dryer





WASTE

HempWood® converts its waste into energy.

By using a bio-burner, HempWood is able to take material that would have been wasted and use it for heating the dryers and ovens.

The bio burner is equipped with emission control equipment to minimise particulate matter to atmosphere. It uses cyclonic burning to ensure maximum combustion efficiency.



Pressing



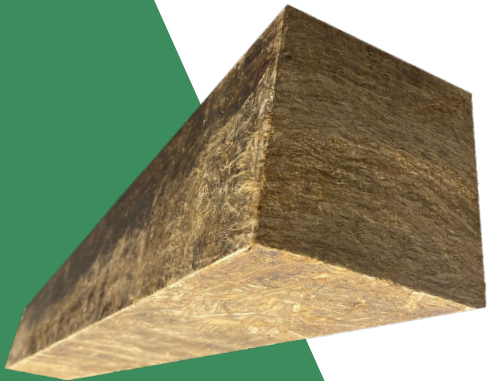
Pressing



Thermosetting Oven



Sawing blocks to lamellas and flooring line





Applications





COMMERCIAL SPECS

Test Results		
Item	Standard	Results
Density	ASTM D2395	60 lbs/ft ³ or 960 kg/m ³
Hardness	ASTM D1037 –6a (Janka Ball)	2,200 lbf
Dimensional Stability	ASTM D1037 (20–90% RH)	Swell 0.02/0.06/0.77%
Fire Rating	ASTM E 648	Rating: Class 1
Abrasion Resistance*	ASTM 1037	1600–1800 revs (WRO)
Scratch Resistance*	ASTM 1037	21N
Slip Resistance*	BGR 151/DIN 51 130	R10
Formaldehyde Emissions*	CARB 2 & TSCA VI	Compliant
VOCs Emissions*	ASTM D6007–14	BLQ = less than 0.008 ppm

*Bona Coating





LET'S TALK

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