

Supplementary Materials: A Novel Method for Calcium Carbonate Deposition in Wood That Increases Carbon Dioxide Concentration and Fire Resistance

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ANOVA for selected factorial model

Response 1: Weight gain (%)

Transform: Base 10 Log

Constant: 0

Source	Sum of Squares	df	Mean Square	F-value	p-value	
Model	2.50	19	0.1315	89.93	< 0.0001	significant
A-Calcium chloride concentration (%)	0.0797	3	0.0266	18.16	< 0.0001	
B-Cycles per treatment	2.37	4	0.5924	405.09	< 0.0001	
AB	0.0495	12	0.0041	2.82	0.0029	
Pure Error	0.1170	80	0.0015			
Cor Total	2.62	99				

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Figure S1. Analysis of variance of CaCO₃ mineralized samples.

ANOVA for selected factorial model

Response 1: Weight loss

Source	Sum of Squares	df	Mean Square	F-value	p-value	
Model	7371.13	2	3685.57	5.58	0.0194	significant
A-Treatment	7371.13	2	3685.57	5.58	0.0194	
Pure Error	7929.42	12	660.79			
Cor Total	15300.56	14				

Figure S2. Analysis of variance of weight losses after fire-resistance test.

ANOVA for selected factorial model

Response 1: Carbonization index

Source	Sum of Squares	df	Mean Square	F-value	p-value	
Model	2.676E+10	2	1.338E+10	5.78	0.0175	significant
A-Treatment	2.676E+10	2	1.338E+10	5.78	0.0175	
Pure Error	2.779E+10	12	2.316E+09			
Cor Total	5.455E+10	14				

Figure S3. Analysis of variance of carbonization index after fire-resistance test.