

# THE KLAASWOOD® DIFFERENCE

1st Generation – “open system” (Pyrolysis) VS 2nd Generation – “closed system” (Hydrolysis)

KLAASWOOD® uses an innovative, 2nd generation hydrolysis technology that is changing the landscape of thermally modified wood.

KLAASWOOD® uses a “closed system” for thermal modification to improve durability and eliminate common concerns (water intrusion, mold, rot, decay) in wood.

## PROCESS

1. Hydrolysis Technology
2. Pressure is added 174 psi for 30 minutes
3. Ramp up temperature for 2 hours 170 degrees
4. Hold pressure and 338 degree temperature for 2 hours
5. Ramp down temperature for 3 hours
6. Ramp down pressure for 30 minutes
7. Total modification time 8 hours

## BENEFITS OF 2ND GENERATION

1. Lower boiling point
2. Lower stress on wood fiber
3. Lower energy consumption
4. Zero water consumption
5. Lower Co2 output
6. Faster modification
7. Higher moisture resistance
8. Higher Class 1 durability rating
9. Higher strength
10. Lower cost

## THERMAL MODIFICATION PROCESS

