

Information on the High Pressure Treatment Process for TANALITH E Wood Preservative

Document Reference C2.1

The following information is intended as a general guide on the high pressure, full cell, industrial treatment process used for the application of TANALITH E wood preservative to produce TANALITH E pressure treated timber.



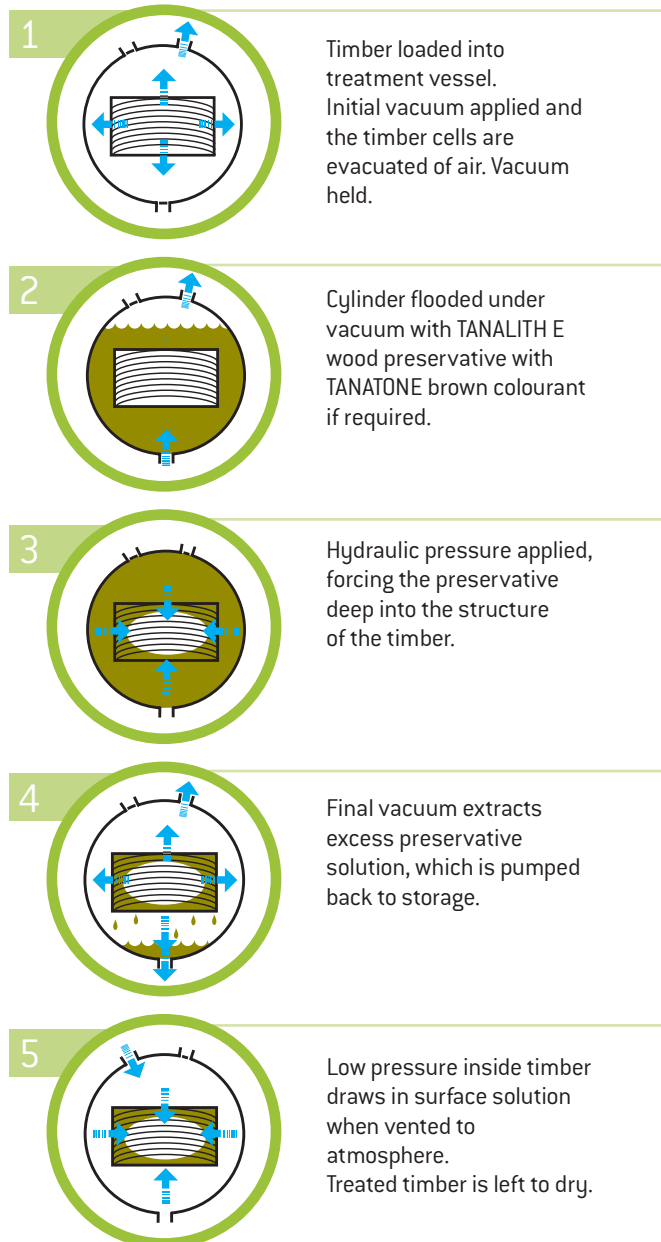
The Treatment Process



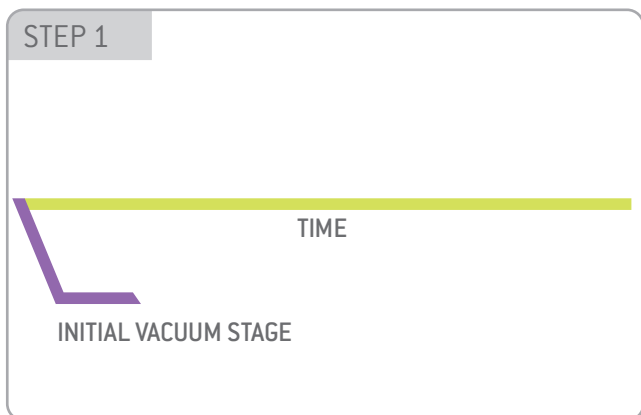
PRESSURE TREATED TIMBER

TANALITH E pressure treated timber is timber which has been impregnated with TANALITH E wood preservative under rigidly controlled conditions in a vacuum pressure timber impregnation plant.

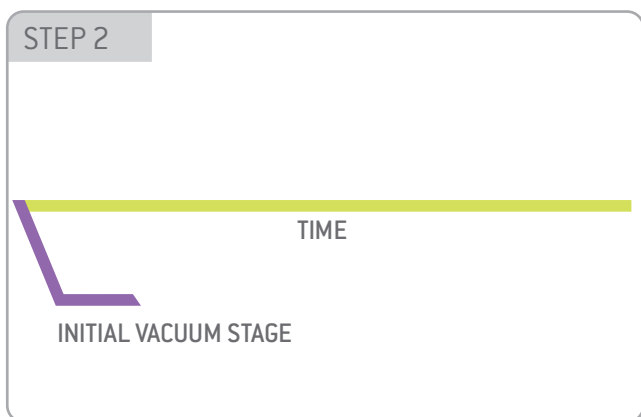
TANALITH E pressure treated timber is the proven and effective choice for fencing, decking, leisure wood, playground equipment and building applications - Use Classes 1-4 [BS EN 335].



FULL CELL PROCESS

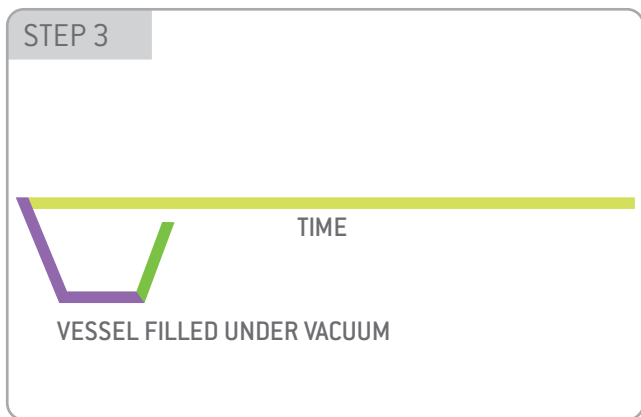


Actual vacuum and pressure intensities are dependent on specific plant circumstances and therefore intensities highlighted in the following slides are a guideline only.



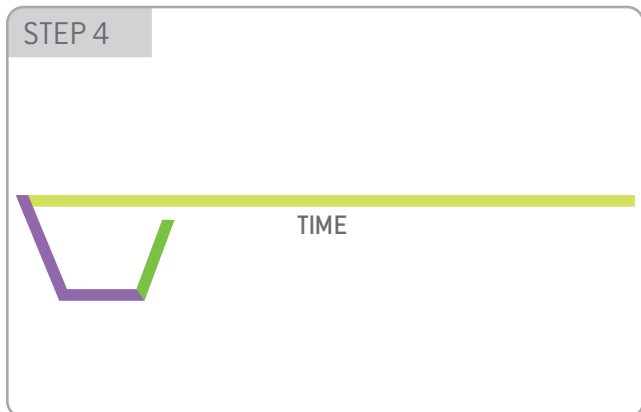
Open Vacuum Valve.
Start Vacuum Pump.

| Cycle Code | Initial Vacuum | Time |
|------------|----------------|---------|
| E1 | 800 mbar | 5 mins |
| E3 | 800 mbar | 15 mins |
| E4 | 800 mbar | 30 mins |



Main Flood Valve.

| Cycle Code | Initial Vacuum | Time |
|------------|----------------|---------|
| E1 | 800 mbar | 5 mins |
| E3 | 800 mbar | 15 mins |
| E4 | 800 mbar | 30 mins |

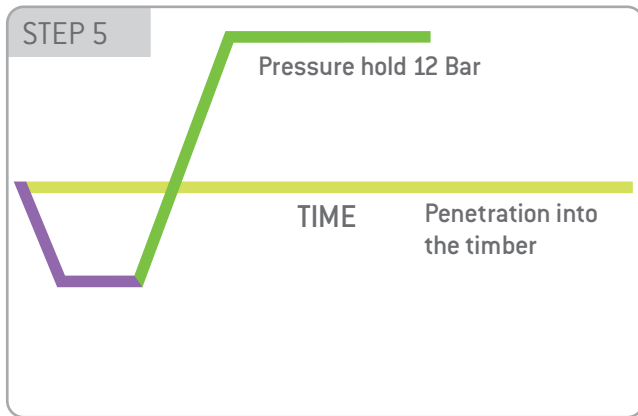


When full, turn off Vacuum Pump and close Vacuum Valve.

Close main Flood Valve when vessel is full.

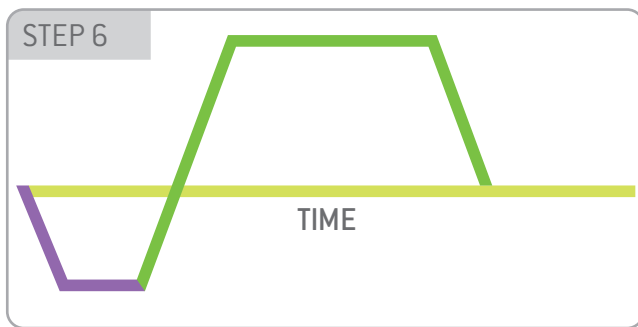
| Cycle Code | Initial Vacuum | Time |
|------------|----------------|---------|
| E1 | 800 mbar | 5 mins |
| E3 | 800 mbar | 15 mins |
| E4 | 800 mbar | 30 mins |

FULL CELL PROCESS



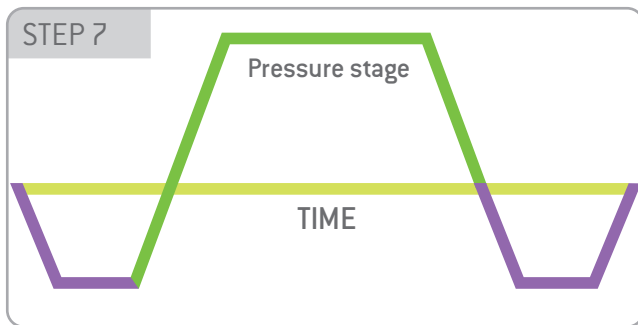
Open Pressure Pump Valve.
Start Pressure Pump.
Main Flood Valve is closed.

| Cycle Code | Initial Vacuum | Time | Pressure | Time |
|------------|----------------|---------|----------|----------|
| E1 | 800 mbar | 5 mins | 12 bar | 5 mins |
| E3 | 800 mbar | 15 mins | 12 bar | 30 mins |
| E4 | 800 mbar | 30 mins | 12 bar | 120 mins |



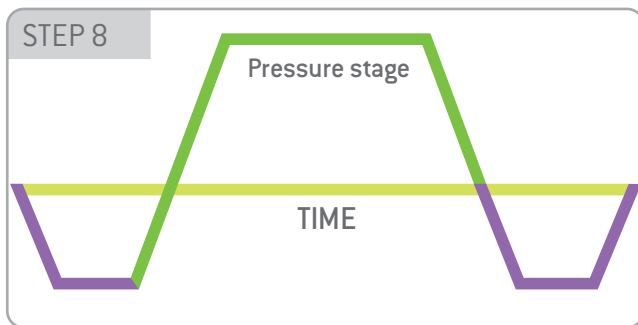
Vent pressure.
Open Main Flood Valve.
Start empty phase.

| Cycle Code | Initial Vacuum | Time | Pressure | Time |
|------------|----------------|---------|----------|----------|
| E1 | 800 mbar | 5 mins | 12 bar | 5 mins |
| E3 | 800 mbar | 15 mins | 12 bar | 30 mins |
| E4 | 800 mbar | 30 mins | 12 bar | 120 mins |



Start Vacuum Pump.

| Cycle Code | Initial Vacuum | Time | Pressure | Time | Final Vacuum |
|------------|----------------|---------|----------|----------|--------------|
| E1 | 800 mbar | 5 mins | 12 bar | 5 mins | 800 mbar |
| E3 | 800 mbar | 15 mins | 12 bar | 30 mins | 800 mbar |
| E4 | 800 mbar | 30 mins | 12 bar | 120 mins | 800 mbar |



Vent final vacuum.

| Cycle Code | Initial Vacuum | Time | Pressure | Time | Final Vacuum |
|------------|----------------|---------|----------|----------|--------------|
| E1 | 800 mbar | 5 mins | 12 bar | 5 mins | 800 mbar |
| E3 | 800 mbar | 15 mins | 12 bar | 30 mins | 800 mbar |
| E4 | 800 mbar | 30 mins | 12 bar | 120 mins | 800 mbar |