

## 1. Chemical Testing

Note: All test substances were applied on a finished surface with the effect lasting for 24 hours.

| Tests   |                    |
|---|--------------------|
| Test Substance  | Outcome            |
| Acetone (drops on a surface)                            | no reaction        |
| Acetone (wiping a surface with an acetone-soaked cloth) | no reaction        |
| Pencil  | no reaction        |
| Vinegar   | no reaction        |
| Acetic acid   | no reaction        |
| Perfume (80 % vol)                                      | no reaction        |
| Coffee  | no reaction        |
| Lipstick  | no reaction        |
| Milk  | no reaction        |
| Oil   | no reaction        |
| Detergent: Vanish                                       | no reaction        |
| Red wine  | no reaction        |
| Hydrochloric acid – Household cleaning grade            | no reaction        |
| Fountain Pen Ink  | very mild staining |
| Stamp Pad Ink   | Staining Observed  |
| Tea   | no reaction        |
| Mascara   | no reaction        |
| Lemon juice   | no reaction        |
| Hair Dye  | no reaction        |
| Greasy Water  | no reaction        |
| Tooth Paste   | no reaction        |
| Lizol   | no reaction        |

## 2. Water Resistance & Joint Stress Testing

The surface finish as well as the joinery has also been tested by filling a wash basin with boiling water, and left for approximately 48 hrs to ensure that the integrity of the finish as well as the joints are uncompromised. The same test was then repeated with the water retained in the basin for 24 hours. No effect observed

### TYPE 1 TESTING:

Type 1 tests are conducted using 6" by 6" birch laminates glued together to make three-plywood. These 6" by 6" assemblies are cut into 1" by 3" specimens, boiling them for 4 hours, then baking the specimens in a 145°F oven for 20 hours. They are boiled for an additional 4 hours, then immediately cooled using running water. The specimens are sheared while wet and the bonds must pass certain strength and wood failure requirements to pass the Type 1 specifications.

