Study 1

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| Direction | vertical | | | | | | | | | | horizontal | | | | | | | | | |
| Contact | normal | | | | | nail | | | | | normal | | | | | nail | | | | |
| Bump No. | 1  X50  F1 | 2  X50  F2 | 3  X50  F3 | 4  X50  F4 | 5  X50  F5 | 1  X50  F7 | 2  X50  F8 | 3  X50  F9 | 4  X50  F10 | 5  X50  F11 | 1  X50  F13 | 2  X50  F14 | 3  X50  F15 | 4  X50  F16 | 5  X50  F17 | 1  X50  F19 | 2  X50  F20 | 3  X50  F21 | 4  X50  F22 | 5  X50  F23 |
| Negative Samples | X100  F6 | | | | | X100  F12 | | | | | X100  F18 | | | | | X100  F24 | | | | |