

INSTALLATION GUIDE

for

SUREGUARD PLATES ~ Guarding Concealed Services in Buildings

SureGuard Plates are specially designed metal plates made of high strength galvanized steel. SureGuard Plates help prevent concealed services (such as plumbing, gas pipes, electrical wiring etc) from being accidentally penetrated or pierced as they pass through the timber framing of buildings by standard fixings such as screws & hammered nails etc. Accordingly, they also help reduce the risk of personal injury to the installer.

LOCATION of SureGuard Plates

All services running through timber framing in a “Closed Environments” (as defined by the New Zealand Standard Timber-framed buildings NZS3604:2011 Figure 4-3(b) and table 4-1, and table 4-3) are recommended to be guarded by SureGuard plates wherever fixings may accidentally penetrate, damage or threaten concealed services such as pipes and wires.

SureGuard Plate Sizes

<u>CURRENT SIZES AVAILABLE</u>			
<u>Model No</u>	<u>Width (mm)</u>	<u>Length (mm)</u>	<u>Thickness</u>
SG 75x45	45	75	1.55mm
<u>FUTURE SIZES ~ (sizes are subject to demand)</u>			
SG 150x45	45	150	1.55mm
SG 225x45	45	225	1.55mm
SG 80x90	90	80	1.55mm
SG 150x90	90	150	1.55mm

Note :- Plate sizes will be varied subject to demand

DELIVERY, STORAGE AND HANDLING

Care should be taken to keep components dry. SureGuard Plates are to be stored in their original packaging and protected from the weather, moisture and are to be handled in a way to avoid damage, especially to their galvanized surface. Prevent water and condensation from being trapped between adjacent surfaces.

TIMBER FRAMING

SureGuard Plates are to be installed on timber framing having a maximum allowable equilibrium moisture content (EMC) of 18 %. For further detail refer table 4 of NZS 3602:2003

When SureGuard Plates are used with timber treated with copper based preservatives (level H3-2 or higher) the SureGuard plates are to be separated from the treated timber with which they connect via a layer of polyethylene plastic sheet. Refer NZS3604:2011 Clause 4.4.4

TOLERANCES

It is recommended that prior to fixing the plates the timber framing is checked for bowing, warping etc. to ensure it is within the tolerances as specified in Table 2-1 of NZS3604:2011 and also within the lining manufacturers tolerance requirements.

METHOD OF FIXING

1. Refer figure SG1 for fixing to horizontal plates, nogs and blocking.
Refer figure SG2 and SG3 for fixing to vertical timber members such as studs.
2. Check the position and size of the notch cut out in the timber frame to ensure that it is compliant with figure 7-8, figure 8-4 and figure 8-19 of NZS3604:2011 and that there is sufficient seating for proper fixing of the SureGuard plates as detailed in installation drawings SG1, SG2 and SG3.
3. When multiple services run side by side through the timber framing having an overall notched length of upto 200mm (Refer NZS 3604:2011 figure 8-4 and 8-19.) then refer installation drawing SG3
4. It is recommended that SureGuard Plates be rebated into the timber frame so that they finish flush with the face of the timber. Tip for Rebating: Plane across the grain prior to installing any of the services using an electric plane with blades set to create a 1.6mm deep rebate to receive the SureGuard Plate. This may be critical to the level of finish of the particular wall lining being installed and its paint finish.
 - For an explanation of the level of finish of wall linings refer clause 205.4 NZS 3602 and AS/NZS2589.1 and Manufacturers Literature and the Federation of Wall & Ceiling Industries of Australia & New Zealand document “Levels of Finish on Plasterboard ~ Plasterboard Expectations”
5. SureGuard Plates are not to directly touch service pipes or wires. Regulations and codes of particular services regarding separation requirements are to be followed. Where there are none then provide separation from SureGuard plates with a strip of electrical insulation tape.
6. SureGuard plates are to cover the full width of the timber through which the concealed services pass.
7. Position SureGuard plates so the teeth / prongs run parallel to the grain of the timber and fix by firmly tapping the back of the plate with a hammer.
8. Where the studs are to be left exposed internally with no covering wall or ceiling lining use Hot Dipped Galvanised Flat Head nails fixed through the two (2) designated fixing holes of the SureGuard plate in addition to the prongs provided. These nails are to have a minimum shank length of 20mm and a diameter of 2mm. Ensure that the nails are well clear of any services and the head of the nail finishes flush against the plate.
9. Do not add additional holes or otherwise alter SureGuard Plates .

GENERAL

If in doubt as to the correct use of SureGuard Plates then contact SureGuard Ltd for written guidance.

SureGuard Plates are not designed for use with power-actuated fasteners and cannot be considered to provide structural support to timber framing or any other element of the building.

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