

GALVANISED STEEL GRAIN-WALLING

- For bulk storage of most crops
- Designed for easy site assembly
- Minimal support steelwork required
- Panels available to suit all building sizes

Steadmans grain wall panels are designed to form load bearing walls for the bulk storage of crops such as grain, wheat and rape.

The panels are manufactured from hot dipped galvanised steel coil to BS EN 10326:2004 Fe E390G -Z275 with a minimum yield strength of 390N/mm² and are designed for easy site assembly with a minimum of support steelwork. The storage heights shown are based on grain with a density of 800Kg/M³ with an angle of repose of 30 degrees.

The panels are usually installed between the stanchions of steel framed buildings but can be fitted across the face of the stanchions if required.

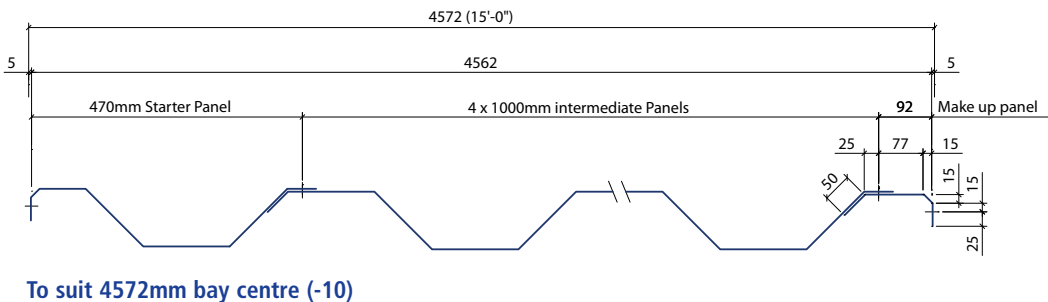
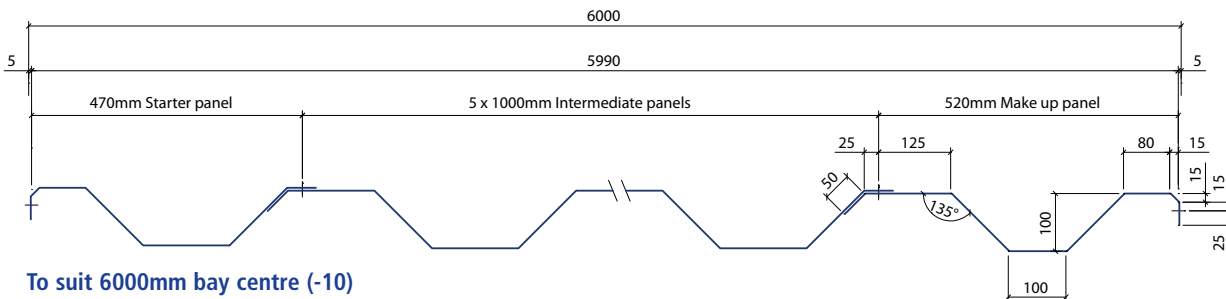
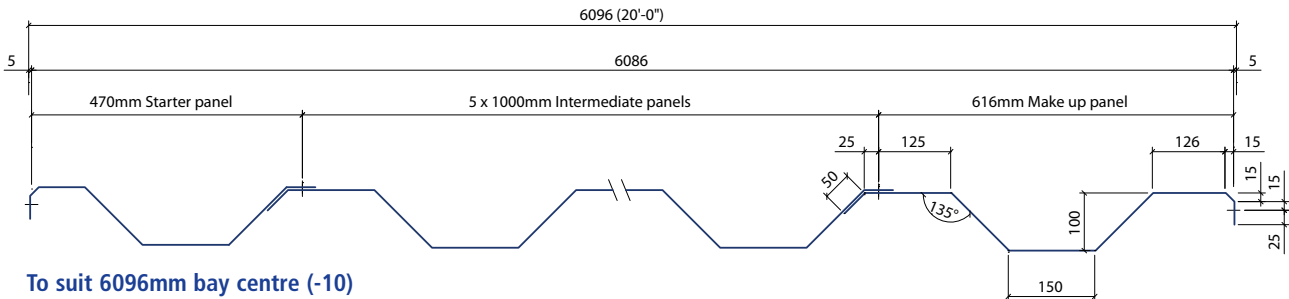
Panels are available in any length up to 4700mm.



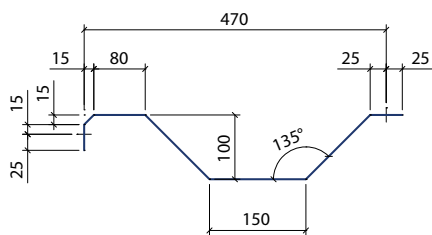
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Typical panel arrangements

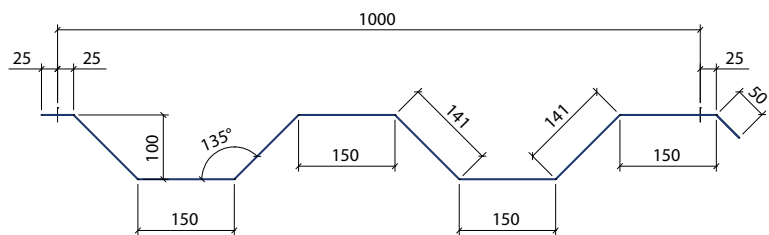
The panels are usually installed between the stanchions of steel framed buildings but can be fitted across the face of the stanchions if required. These details show starter, intermediate and make up panel arrangements for three common bay sizes. Alternative bay sizes can be accommodated by utilising custom designed make up panels.



Standard starter and intermediate panels



Starter panel



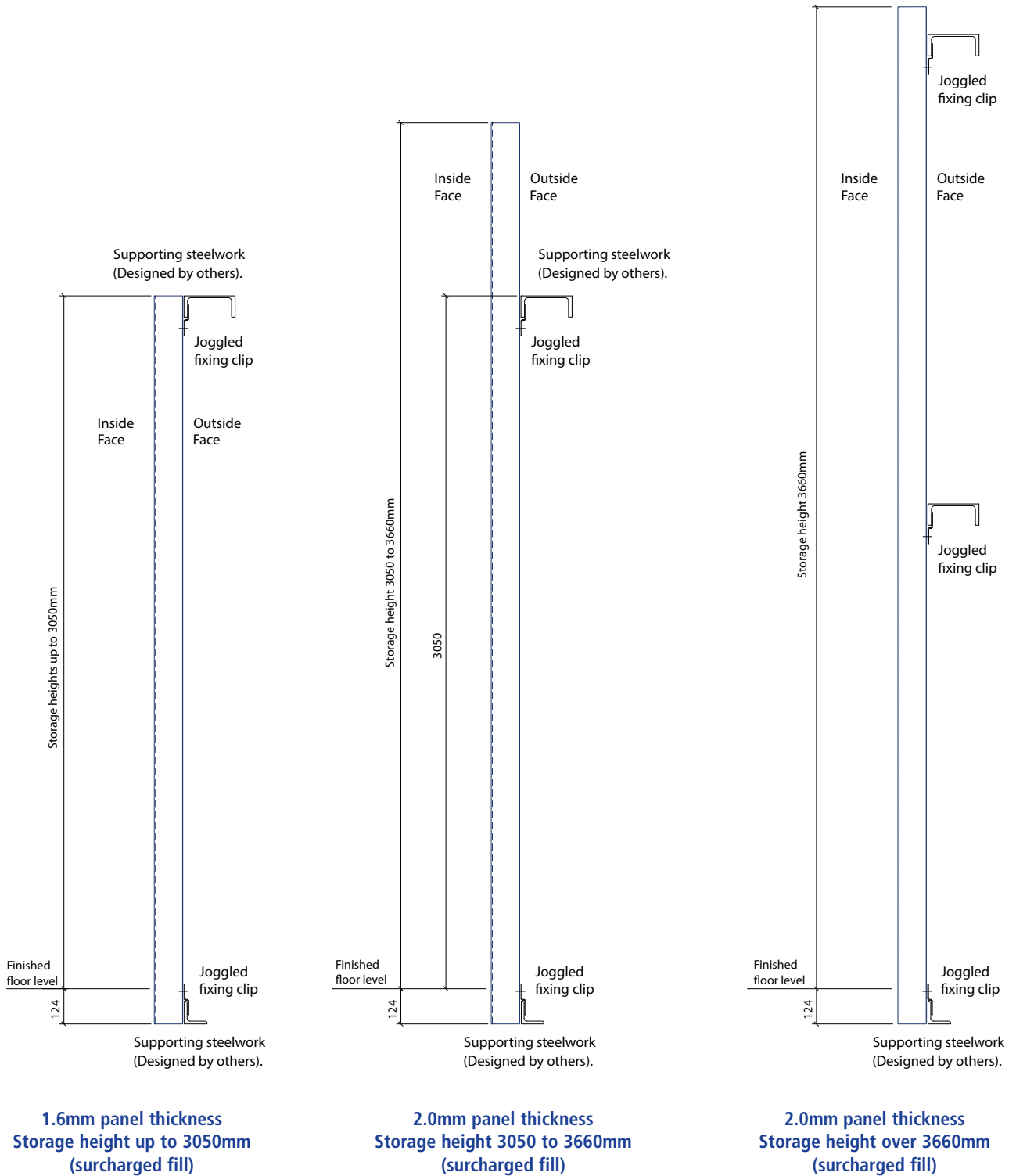
Intermediate panel



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Panel support

Responsibility for the design of the steelwork supporting Steadmans grain wall panels lies solely with the customer. A suitable section type and size should be selected and consideration should be given to the position and number of supports required and to the overall suitability of the building to withstand the induced loads.



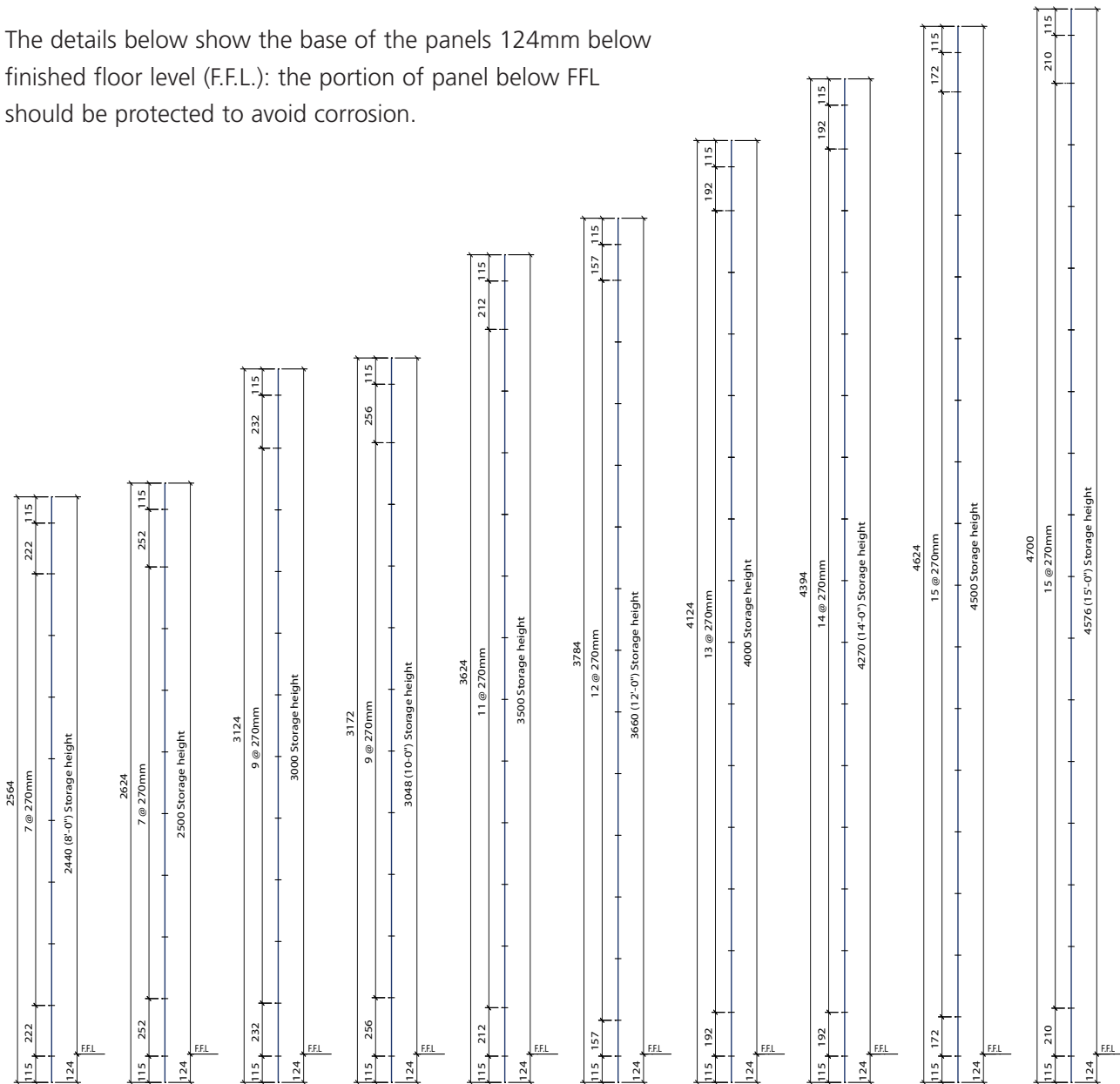
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Panel length and hole punching

The panels are delivered to site pre-punched ready for site assembly and to ease installation the hole punching is symmetrical. Set screws, nuts and washers can be supplied if required. The details below show panel hole punching for a range of storage heights. Panels are available in any length up to 4700mm.

All panels are punched with 12mm diameter holes for M10 screws. Rubber-backed washers should be used at the external face of the panel and plain washers should be used at the internal face of the panel. Panel joints should be sealed with 4mm diameter butyl sealant.

The details below show the base of the panels 124mm below finished floor level (F.F.L.): the portion of panel below FFL should be protected to avoid corrosion.



1.6mm panel thickness up to 3050mm (10'-0") (surcharged fill)

2.0mm panel thickness from 3500mm (surcharged fill)



Manufacturers of Cladding Products for the Construction industry

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