

## Canadian Barns - possibly the ideal stabling solution?

The advantage of having your stabling and working areas under one roof are clear. No driving wind and rain inside your looseboxes, a totally safe and secure building when unattended and much quicker, simpler stable management all result. Add inclement winter weather conditions and you begin to see why a **CANADIAN BARN** is worthy of consideration.

**Saltire Stables** adopt a different approach to other manufacturers in that we utilise a basic shell structure that gives you complete flexibility of layout inside. We construct a special roof structure based around a portal frame constructed from quality Scots Pine or Douglas Fir up to 100 x 300mm (4 x 12") section. These are laid at spans of 3.0m - 3.6m (10-12') and the walls are conventional weatherboarding panels but with framing upgraded to 4 x 2 nom CLS (38x 69mm act)

The advantage of this system is that with no internal supports, the roof has a clear span, and internal stalls can be literally any size. This flexibility means the hardest part is to decide on the layout wanted. The building shell is usually 2.4m (8') tall at the eaves and around 3.6m (12') at the ridge. Length typically ranges over 10.8 - 14.4m (36 - 48') and width is 9 - 10.8m (30 - 36'). On each side are stalls or rooms either 3.0 or 3.6m deep (10 - 12') facing a central corridor wide enough to work in. You can also leave areas clear for feed and hay storage or for jump pole stores.

It can be that you require the barn to be multi purpose. We have customers who keep cars in one end or use it for storage of machinery or farm equipment. In these cases we usually install a full width wall to divide the equines from the other uses and in cases where the end is used as a haystore then we also often do the external walls with a Yorkshire Board finish to encourage airflow.

We recognise the importance of good ventilation. Good access doors help, and we provide a full width sliding door to one end and a side hinged access door to the other end (or optionally a sliding door). We then include substantial louvred ventilators in each loosebox wall and the gables. Also included are opening top half doors to each stall area which further assist good air circulation.

Inside the barn is bright and airy as we use light colour linings, and usually try to incorporate translucent sheets in each bay within the Onduline Roofing system. When sarking is specified then we substitute translucent polycarbonate strips just below the eaves, again to encourage natural light. The lack of kingposts or similar elements also assists in creating an open atmosphere.

Given a building of this roof expanse, we would certainly recommend adopting the sarking option. This provides many benefits in terms of insulation which also minimises condensation but principally it gives a rigid sturdy roof spreading out wind and snow loading and substantially extends the Onduline roofing system life. It also gives you the option to specify alternative roofing systems in particular Alloy Profile Clad roofing which comes in a wide range of colours and is in widespread use amongst modern agricultural buildings.

Externally, we adopt fully pressure treated weatherboarding for a maintenance free life in an environmentally sympathetic green colour, all benefitting from our 15 year guarantee. The style continues inside but the theme changes from a horizontal to a vertical pattern.

We normally incorporate our **PENTLAND** range of stalls. These are economic, strong and rugged. They are timber framed to a height of 1.2m (4') and all internal walls incorporate our standard rugged OSB Sterling Board Kicklining with all exposed corners having heavy duty 25mm (1") metal protectors. The upper portions utilise a special fully galvanised steel bar grill with 12mm (1/2") thick bars at 63mm (2.5") centres. This gives flexibility of grill location so that a full range of stable hardware can be incorporated and a bright open aspect to the boxes.

You can also specify this building as an open plan shell to incorporate your own layout at a later date or upgrade the internals to use our **CUILLIN** range. Steel framed and available with plastic or softwood infills (also hardwood on request) the portal frame structure means that they have no structural function giving complete flexibility of layout. Design excellence at affordable prices!

Bottom stable doors are 1.2m (4') wide and are complete with all standard hardware - autolok bolts, kicklatches and full ironmongery. Internally you can specify water and automatic drinkers together with a choice of kicklinings, doors, floor & walling systems.

We are sure that a **Saltire Stables** Barn is worthy of very close consideration - contact us for more details.



## MiniBarns - the best of both worlds?

We all know the advantage of having your stabling under one roof - especially given the wetter and windier winters we seem to be getting. For owners with smaller numbers of animals, the traditional solution of a Canadian Barn is out of the question - partly on cost and partly on size.

By some clever design work, we have evolved a structural design that is compact, creates attractive covered internal stalls and a small covered area with a tack room to the rear. We have effectively turned a traditional stable block in on itself to create a building with a much smaller footprint 10.4 x 7.2m (34 x 24') but containing 4 looseboxes and a 17' x 10' working area as well as a 7' x 10' tack store. This usually has a mezzanine ceiling for security and additional storage. It has a 2.4m (8') eaves and a 3.6m (12') ridge height.

The smaller footprint results in lower groundwork costs and the specification and purchase cost is very similar to a run of 4 looseboxes and a tackroom in our Forth model.

It is possible to amend the size and have a wider working area or larger stalls but we have found many customers very satisfied with the overall dimensions and feel of this structure. Paired stable doors to the front mean that there are plenty of ventilation options and the use of the Pentland Internals system with steel grills gives a great open aspect to the structure. The provision of top half doors is a popular option and these can be placed in whichever wall is appropriate.

All the usual options of sarking, different roofing systems and amendments to the kicklining are available as per the standard loosebox designs. If a haystore is required, this is usually achieved by designing a pent lean-to along the rear of the building, with paired access doors to one side and an internal access door through the tack area in lieu of the standard window,

One reason the structure is well priced is that the internal walls are used to support the roof. It is however possible to amend the structure to an open plan portal style truss like the larger Canadian Barns. This costs a 5% premium but does give complete flexibility - useful when the property may be sold later and the building could be converted by the new owners to garaging or a workshop.

### Building Construction

|                             |  |
|-----------------------------|--|
| <b>Framework</b>            | 3 x 2 nom (38 x 63mm act) KD CLS at 600mm centres  |
| <b>Cladding</b>             | 19 x 125 nom (16 x 121 mm act) CCA treated Swedish weatherboarding   |
| <b>Roofing</b>              | Black Colour Onduline roofing sheets with translucent sheets over each bay   |
| <b>KickLining</b>           | 11mm OSB Sterling Board  |
| <b>Structural Internals</b> | Pentland style with solid barred steel grills and 1220mm (4') wide bottom doors                                    |
| <b>Window</b>               | Fixed 750 x 750mm to tackroom with weldmesh grill<br>Optional fixed windows in top half doors for additional light |
| <b>Doors</b>                | Standard paired doors with weatherboard linings to both upper faces  |
| <b>Guttering</b>            | 112mm half round to all faces  |

### Building Sizes

|                   |  |
|-------------------|--|
| <b>External</b>   | to customer design but typically 10.4 x 7.2m (34 x 24')<br>If lean-to haystore chosen then usually full width x 1.95m (6'4) deep |
| <b>Height</b>     | 2.4m eaves (8') / 3.6m (12') ridge   |
| <b>Roof Style</b> | Apex roof running in shortest dimension  |

### Principal Optional Extras

|                       |  |
|-----------------------|--|
| <b>Lining</b>         | Upgrade to 18mm in OSB Sterling Board or plywood             |
| <b>Sarking</b>        | for warmth and strength plus to allow other roofing finishes |
| <b>Top Half Doors</b> | for ventilation and light if specified with fixed window     |
| <b>External Door</b>  | Change to sliding so more secure in wind                     |
| <b>Portal Frame</b>   | Specify to give total flexibility of use.                    |

We are sure that a **Saltire Stables MiniBarn** is something you will want to give careful thought to - it could just give you the best of both worlds - contact us for more details.

