

Windows and Doors

Introduction

Most of these windows are commissioned items for commercial or industrial buildings.

We like using a thick polystyrene sheet as a base building structure - this is sold as secondary glazing material in DIY stores. However if you prefer to use thin sheet material we have no problem with that.

Our door and window frame material is usually .010" thick metal sheet. In most cases a half etched boarder of 2 to 4mm is provided to allow fixing behind the building into the opening for the fitting.



If you want to detail the interior of a building for most windows you could sandwich a thin glazing material between two etches and this window could also be sandwiched within the building wall.

Where a window frame has a curved top section a brick arch is supplied as an etched extra for the window. This could be used as a template to make an opening in the building shell.

The vertical sash windows are designed so that the lower part of the window needs to be folded up and attached behind the remainder of the window etching.

Some window patterns are supplied with opening sections. These may be constructed "closed" or opened, the tilting versions have a variable tilt, the other patterns will need to be modified to be modelled as "part opened".

An outline of Midland Railway buildings is provided to show how the station building fittings can be used. Most railways were built in sections and each section could have a common building style conforming to a preferred company design. For example the Settle and Carlisle railway has a number of different station buildings but most of them could be built from standard modules.

To assist selection in the etches an opening size table is given in a table and a diagram of each window given though these are not guaranteed to scale. A scale bar is provided so the diagrams may be correctly scaled and used as templates so they can be used to plan buildings.

As this range has grown considerably so it has now been split into two parts:

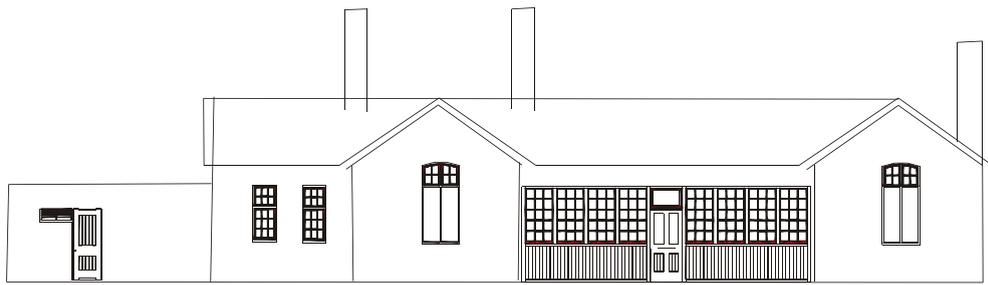
1. Railway Architecture

Incorporating lineside structures - usually these are suitable for other buildings

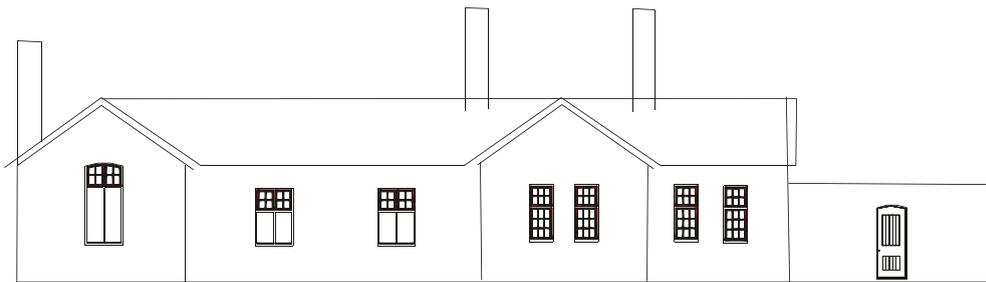
2. Other buildings

Factories and domestic scale buildings

The following sketch is based upon Saxby (MR) station building. It does not show doors set into the side walls. Products BS1 and BS2 would supply enough windows and doors to make this building or other similar buildings on the same line which all used the same architectural style.



Outline of Saxby MR Station front



Outline of Saxby MR Station rear

The first of the two illustrations show an inward tilting lower section finished as open, while above it is a closed version.

The vertical sash windows need to be assembled by folding up the lower sash frame and fitting it behind the main window etching. Both these illustrations have been fitted to a large factory made from DPM modules - a plastic building product from Bachmann. We have changed the plastic windows but not the doors to etched ones as illustrated by the third photograph - this uses BFW12_4 windows.



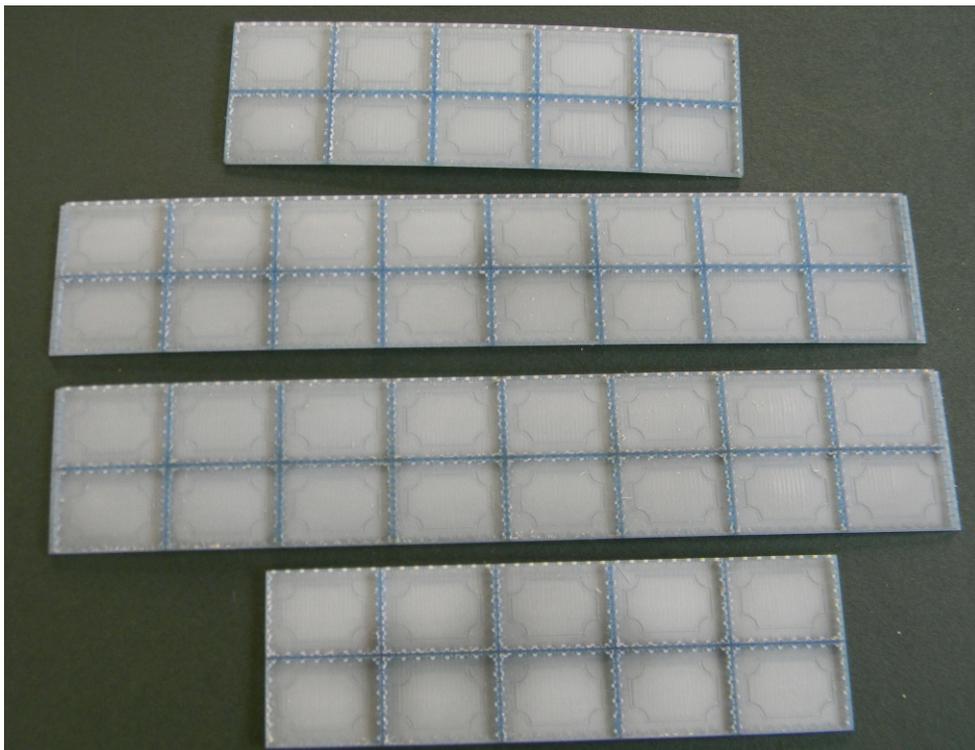
Using BFW21 with the lower panes open.



Using BW3 in a building



We can also supply to order Midland Railway water tank panels (in 4mm and 7mm scales). These are printed as a whole side to each tank in acrylic. There are pictures of several very large water tanks e.g. Nottingham as well as a water softening plant at Derby made from these panels. In contrast there is a one by one by one panel water tank at Millers Dale featured in the Midland Railway Journal (issue 2). A photograph of an engine (a Fowler 3F tank in broad gauge (5ft 3in) in Northern Ireland appears to show a bridge safety parapet made of a string of the same castings. These water tank panels have the bolts and flanges present saving many hours of construction with any traditional method.



Chapter One

Railway Architecture Components

Railway Building Windows - Part 1

Packing information :- BW Packed with 3 copies of each window

SE1 Full Set is 19 large windows, 13 office windows, 1 sash window, 4 doors with fan lights.

SW1 is 7 windows and one door with fanlight

SC1 - is three windows - part one of a set for cooling stages

SS1 small windows for stables blocks - 8 per set

Product	Width (mm)	Height (mm)	Panes	Style
BSW3	21	44	6 * 6	Semi-circular
BSW3	21	23	6 * 4	Square
BSW3	21	18	6 * 3	Square
BSE1 Full Set	20	40	6 * 4	Arched, narrow boarder pane
BSE1 Full Set	15	28	4 * 3	Arched, narrow boarder pane
BSW1	16	36	6 * 6	Arched
BSC1	14	22.5	5 * 5	Semi-circular
BSC1	15	28	4 * 3	Arched sash window
BSS1	11	18	5 * 6	Arch top centre opening windows , narrow edge panes

Railway Station Buildings -Part 2

These windows were the first sets with a variable number of windows per set related to a particular station building.

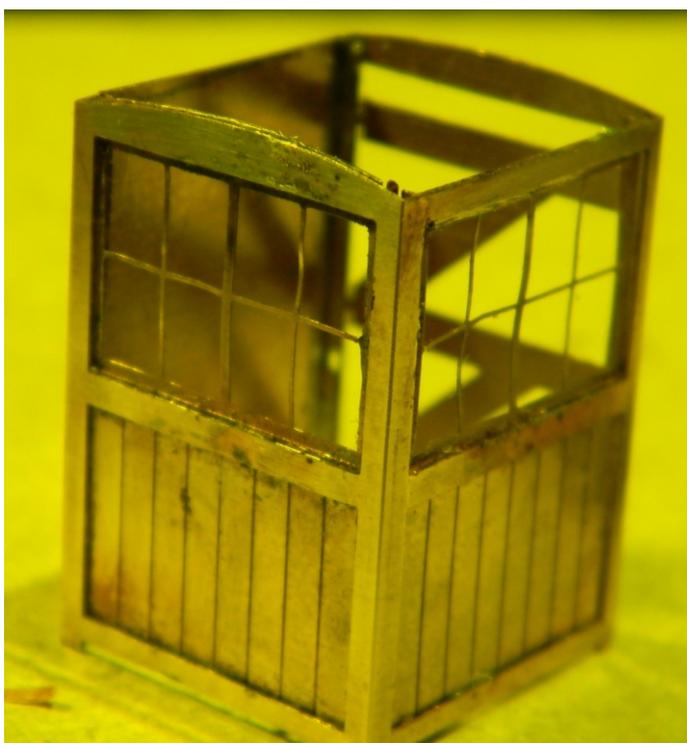
Product	Content	Source
BS1	3 large windows, 6 mid sized windows, 2 smaller sized windows, 1 double door with frame, 3 single doors with frames, 1 gents toilet door with ventilator, 1 cupboard door	Saxby (MR) station Building
BS2	Waiting room screen	Saxby (MR) Station building
BS3	400mm valencing, 2 rectangular windows 4*4 panes, 4 rectangular windows 3*3 panes	Based upon a Festiniog Railway building
BS4	2 large windows, 3 medium sized windows, 2 wide single windows, 4 single windows, 2 narrow windows, 2 narrow/high windows, 4 small windows	Ilkeston (MR) Station building
BS5	3 doors frames with skylights, 5 door frames, 8 large half glazed doors	Ilkeston (MR) Station building
BS6	6 small windows	From Saxby Station windows 7mm wide and 11.5mm high
LS01	MR Ground frame Hut kit	MRN article
LS02	Windows for 12ft deep MR Signal box	

Product	Content	Source
LS04 (previously BS7)	One module for signal box, 2 sliding windows, 1 larger window, toplights and lock room window	Saxby and Farmer design for LCDR railway, from Selling Signal Box. This would require 3 modules to complete, other size signal boxes can be made from this module.
LS07 (previously BS8)	Small Cast Iron brackets, two different designs 8 of each	MR station buildings

Railway Station Buildings -Part 3

These are mainly from the Midland Railway lines, as illustrated in various publications and includes a few absorbed railway buildings of intricate designs. They are packed as indicated.

Product	Content	Source
BS11	Sash Windows, semi-circular top - set of 6 tall and 4 short and 3 fanlights	MR Kings Norton - more than one pack will be required for a three bay building
BS12	Sash Windows, semi-circular top - set 2 pairs of three windows and 2 arched top windows	MR Evesham - more than one pack will be required for a facade to this station building



LS01 test etching, without its roof or handrails. The fine window mullions have been distorted by overheating.

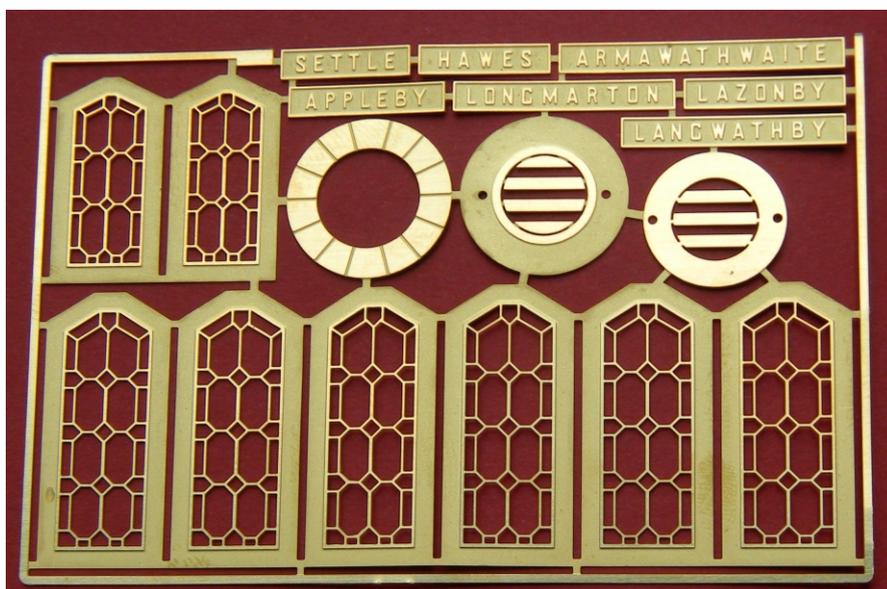
This was the result of a design error that made it difficult to assemble as intended. This has now been rectified.

BS14	Rectangular windows 3 by 6 and 5 by 5 panes, two large, two pairs smaller and 2 smaller windows, two fanlights	MR Higham Ferrers - more than one pack will be required for a station building
BS15	Rectangular windows 3 by 6 and 5 by 5 panes, one triple set, two pairs and 2 single and one smaller window pairs and 3 smaller windows	MR Water Orton - other packs will be required for a whole station building
BS16	Segmental arch windows 2 by 6 panes - pack of 4, 20 by 9.5mm	MR Water Orton -other packs will be required for a whole station building

Product	Content	Source
BS17	Segmental arch windows 2 by 6 panes with lower rectangular section - pack of 4, 20 by 9.5mm and 14 by 17mm	MR Water Orton -other packs will be required for a whole station building
BS25	Screen and parcels door	MR Water Orton - other packs will be required for a whole station building
BS21	Pairs of windows for island platform buildings 4 by 4 panes with 4 by 2 pane toplights	MR Northfield wooden buildings
BS24	Pairs of lozenge style windows (6)	MR Leicester- Hitchin Line station buildings
BSH3	Four pairs and two single windows, vertical rotating pattern, lozenge style	Midland Counties station "house" design

Railway Station Buildings -Settle & Carlisle Line - Part Four

These sets are devoted to the distinctive Settle & Carlisle Railway stations, including a goods shed design, second platform waiting room and "standard" station masters house. A special set of different windows for the Dent Station, Station masters house was also produced.



The BSG1 etching for goods sheds. The signal box name boards are available seperately and are listed in the etched nameplates guide.

The circular loured ventilators need the vents to be angled and the three layers to be assembled.

Product	Content	Source
BS18	Large sash windows with rounded top corners, two triple sets with halved panes, two other triple sets and 2 large windows	MR Settle-Carlisle line - Large windows from the large and medium station design
BS19	Small sash windows with rounded top corners, 5 sets of 2 windows 6 by 17mm	MR Settle-Carlisle line - windows from the station waiting room building design
BS20	Medium sash windows with rounded top corners, 2 pairs, 3 other pairs of smaller windows, one wider window and 2 different fanlights	MR Settle-Carlisle line - Medium sized windows from the large and medium station design.
BS26	Ornate windows - one large, 6 smaller, with Ribbleshead large rectangular window option	MR Settle-Carlisle line - Windows from the small station design
BS26A	Ornate windows - 2 large, 4 smaller windows, one very small window and a door with a fanlight.	MR Settle-Carlisle line - Windows from the small station design

Product	Content	Source
BS22	Screen from larger station building - lozenge pattern with cast brackets	MR Settle-Carlisle line - larger station design
BS23	Screen from smaller station building - porthole pattern	MR Settle-Carlisle line - from the small station design
BSH1	Set of 12 windows and one skylight from 2 storey house	MR Settle-Carlisle line - Windows from the 2 storey "standard" station house design
BSH2	Set of 18 sash windows and 6 small fixed windows and one skylight from two storey house	MR Settle-Carlisle line - Windows from the non-standard station house design at Dent
BSG1	Set of lozenge style windows - 6 large and 2 small and porthole ventilator	MR Settle-Carlisle line - Windows from the standard goods shed design

Ornamental Barge Boards

Are most well known from use on the fairly standardised Settle And Carlisle Railway station buildings, but they can be found elsewhere. A set of barge boards should be enough for one station building. These must be trimmed to length at the roof apex to suit the gable end of the roof. These are produced with a fold over lip to enable them to be fixed to the roof. There are three designs, one most common on the larger stations, the other for smaller stations and one for the waiting room shelter on the opposite platform.

Product	Maximum length (mm)	Style
BSB1	80	Larger stations, wavy design
BSB2	67	Smaller stations, sine wave design
BSB3	49	Waiting room building (two designs)

See also the etched plates guide for platform, signal box and other signs

Chapter Two

Other buildings - Factories and Domestic Structures

Vertically Sliding Sash Windows - Part One

Packed as 4, 6 or 8 windows

Lower sash window needs to be folded up and fixed behind frame etc.

Set BSH2 are all the windows for Dent Station House, which is different from the other "standard" station houses on the Settle & Carlisle railway. These could be used for almost any building. The set includes the skylight window.

The other station houses windows are etchings BSH1 are listed in the railway building series.

Sets 10 to 12 were produced for a Cornish Engine House and sets 14 to 16 were made for the Teviot (or Tiviot) Dale, Stockport project.

Product	Width (mm)	Height (mm)	Panes	Style
BW2	12	27	2 * 3	Arched (pack of 4)
BW3	13	28.5	2 * 2	Semi-circular (pack of 4)
BW4	11.5	22	2 * 2	Arched (pack of 6)
BW5	7.5	15	1 * 1	Arched (pack of 6)
BW6	11.5	18.5	3 * 2	Arched or flat (pack of 6)
BW7	13	23.5	3 * 2	Arched (pack of 6)
BW8	15	22	4 * 3 and 4 * 2	Arched or flat (pack of 6)
BW10	14	21	3	Rectangular (pack of 4)
BW11	14	25.5	3 (without arch windows)	Semi-circular (pack of 6)
BW12	42& 22.5	48.5& 44	Glazed doors & fanlights	Front and rear door and window set for Cornish Engine House (2 etches), requires assembly.
BW14	13.5& 10	19	2&1	Tiviot Dale building medium height - 3 wide, 1 narrow
BW15	13.5& 10	22.5	2&1	Tiviot Dale building tall - 3 wide, 1 narrow
BW16	13.5& 10	14	2&1	Tiviot Dale building short window - 3 wide, 1 narrow
BSH2	Various			Set of sash windows for Dent Station House including the skylight.

Factory Building Doors - Part Two

These and the windows BFW1 to 5 were produced for the "Creamery Project" for the late Michael Warner (of Warner Publications). The doors are very large but not big enough for 7mm scale.

The accompanying windows are also quite large for most buildings.

Product	Width (mm)	Height (mm)	Style
BFD1	36	40	2 pairs of sliding doors with track, half glazed with 2 panels of 2*4 panes
BFD2	40	38	2 pairs of 4 part folding doors, half glazed with 2 panels of 2*3 panes
BFD3	28	40	2 pairs of opening doors, half glazed with 4*3 panes

Building - Metal Frame Windows - Part Three A

Packed as 6 windows, unless otherwise indicated, recent innovations applied are where there is an opening window section this has been made separate to enable a window to be modelled open.

Product	Width (mm)	Height (mm)	Panes (W by H)	Style
BFW1	43	30	12 * 5	Rectangular, three 4*5 format
BFW2	18	25	5 * 4	Rectangular
BFW3	16	22	4 * 4	Rectangular, two 2*4 format
BFW4	16	24	4 * 4	Rectangular, tilting centre
BFW5	43	24	12 * 4	Rectangular (3 per pack)
BFW6 Series 2	24 24.5	17 18.5	6 * 3	Arched
BFW7 Series 2	14 14	35 34.5	4 * 6	Semi-Circular top
BFW8	13.5	28.5	3 * 4	Semi-Circular top
BFW9 Series 2	12.5 12.5	19 18	3 * 2	Semi-Circular top
BFW10B	13	26	3 * 4	Semi-Circular top, plus narrow edge panes
BFW10A	12.5	26	3 * 4	Semi-Circular top
BFW11 Series 2	13.5 12	26 26	3 * 4	Arched
BFW12	13.5	26	3 * 4	Arched, plus narrow edge panes
BFW13 Series 2	10 11	16 16	4 * 4	Rectangular
BFW14 Series 2	8 8	11 12	3 * 3	Rectangular
BFW15 Series 2	10 10.5	8 8.5	4 * 2	Rectangular
BFW17	16.5	31	5 * 5	Semi-Circular top
BFW18	14.5	21	6 * 5	Arched top - tilting centre

Product	Width (mm)	Height (mm)	Panes (W by H)	Style
BFW19	16	33	5 * 6	Arched top - tilting centre
BFW20	7.5 - 7 - 7.5	11	2 * 2	Pair of rectangular windows
BFW21	13.5	27	3 * 5	Semi-circular top, opening bottom
BFW22				Commissioned item for Ingleton Engine shed project.

Caseament Windows (hinged metal frames) - Part Three B

These were quite common on many buildings sometimes known as "Crittall windows" after the Braintree manufacturer. They could be found on railway buildings, Town Halls and flats and houses in many different sizes and combinations from approximately 1920 to 1960 but have fallen out of use because they could bend and become drafty.

Product	Width (mm)	Height (mm)	Style
BW1A	7.5	14	6 windows fixed pane and toplight
BW1B	14.5	14	6 windows, with one side hung, one fixed pane with toplight
BW1C	21.5	14	6 windows with two side hung and centre fixed pane window with toplight.
BW9	Two sets of 5 windows for a bay and 2 pairs of similar windows	Each 17 by 6mm	2 by 3 panes, Gothic style, 14 per set, commissioned for s public house building at Little Bytham (GNR)

Domestic Scale Doors - Part Four

Product	Width (mm)	Height (mm)	Style
BD1	11	26	8 doors with frames, half glazed doors, standard domestic size.
BD2	24	32	Double doors, arched top, half glazed, from public house at Little Bytham (GNR)