



CONTENTS

Why Us? 4	Covered Dairy Shelters21
History5	Formsteel Dairy Sheds22
Formsteel Building System Advantages 6	Coverfast Farm Shelter Range23
Formsteel Building System Products7	Coverfast Building Range - Gable Designs 24
Formsteel's Strength of Connection 8	Coverfast Building Range - Mono Pitch Designs 25
Formsteel Buildings9	Formsteel Mezzanine Floors26
Retail Machinery Shop 24X24m12	Tilt Slab Design Incorporated with Formsteel 27
Large 50m Clearspan Building13	Formsteel Bird Proofing28
Large Formsteel Canopies14	Tray Flooring - Two Profiles and Various Thicknesses and Depths29
Heavy Duty Frames Incorporating Gantry Crane Capability15	Clear, Easy to Follow Construction Plans 30
Formsteel Hangars16	Colour Coded Connection Details 31
Formsteel Storage Units 18	Formsteel Freight Loads 32
Formsteel Shed Houses20	

WHY US?

ALRITE STEEL & SERVICES NZ LIMITED

Alrite Steel & Services NZ Limited imports, stocks and distributes all types of raw steel products including Steel Coils for Steel Buildings, with warehousing in Auckland, Tauranga and Christchurch.

Proudly Kiwi owned and operated, "Formsteel" Brand of Building Systems has been produced since 1972.

Formsteel Brand of Buildings is your answer to premium steel spaces made from quality materials and the expertise that come with 45+ years of experience.

We continually strive for STRENGTH, QUALITY and DURABILITY!

Strength – Every building we design is engineered to meet the conditions and the requirements of those conditions.

Our designs ensure your assets will be protected at all times with Formsteel.

Quality – Formsteel Brand puts quality where it matters. Durable, lightweight, hi-tensile, galvanised steel brings the quality you desire as an owner. Quality doesn't cost, it pays.

Durability – Using only the finest materials with internal and external galvanising allows us to provide you with a durable structure that has been tested in the harshest of elements. In compliance to New Zealand Building Code, Alrite Steel Coils used for your Formsteel Buildings are backed by Alrite's 50-year Durability Statement.

Formsteel - Building Systems you can rely on!



HISTORY

1972

Formsteel established as a roll forming company. Begins roll forming purlins, Sylo flooring, and slitting coil steel.

1991

The 50020 steel beam developed for larger spans and portal framed structures.

2004

UniFloor flat tray profile embossed for superior lock/bond into the concrete topping.

2016

Coverfast farm shelter range developed offering 24 models of Pre-engineered, easy to errect, farm shelters.

1975

Formsteel begins supplying carports and covered yards, using a new combined gutter/ beam method.

1998

Svelte Floor trapezoidal tray flooring developed to save on concrete use.

2013

Pre nesting of rafters/columns and purlins at Formsteel (instead of onsite) is developed, saving time on sites

1982

Formsteel begins using Purlindek on farm buildings and small commercial buildings with timber poles and timber beams.

2003

Development of the 63020 beam – the largest cold formed member on the market to date, capable of clear spanning up to 45m.

2014

Stitched-in bird proofing of 270 purlins developed

1974

Formsteel Develops the instantly successful Purlindek roofing profile, a 6m span roofing profile with a strong 75mm high water proof rib.

1992

Formsteel starts manufacturing 270 deep purlins in 1.15mm and .95mm to maximize the 6m+ bay span with minimal deflection and roof movement.

2010

A first on the New Zealand market, the development of preformed ends on the Svelte Floor product that allows for faster onsite concrete laying.

2017

Coverfast building range developed to provide pre-engineered shed to the market.

5

FORMSTEEL BUILDING SYSTEM ADVANTAGES



Freighting

Freight NZ wide at reasonable prices, and to Pacific Islands in Containers



Handling

Framing can be carried around site by 1 or 2 men in a lot of instances.



Lifting

Rafters and frames can be lifted into place using smaller equipment (e.g Tele handler, scissor lifts, smaller cranes, less cranes, less hire time)



Positioning

Lighter framing members are easier to get in place for attaching.



Fastening/Connection

Our unique plate connection has had 100% success rate and no failures. Plates are predrilled for accuracy. 1 tonne sheer strength per TEK screw.



High Tensile Steel

Lighter gauge members, but superior strength with high grade tensile steel.



Fully Galvanised

All framing is fully galvanized steel finish, requiring no painting onsite (unless extreme conditions).



Price

Economical prices due to clever use of steel.

FORMSTEEL BUILDING SYSTEM PRODUCTS



Purlindek Roofing Span up to 6m in 0.75mm gauge



Smartdek Roofing/Cladding (5 Rib)



27095/270115 purlinUp to 10m clear span portal when nested



10075 Box section 100 x 100mm Carport posts and framing



50020 Purlin/RafterUp to 28m clear span portal when nested



63020 Rafter box section (+Stiffeners) up to 45m clear span portal

FORMSTEEL STRENGTH OF CONNECTION











Fastening/Connection

Our unique plate connection has had 100% success rate and no failures. Plates are pre-drilled for accuracy. 1 tonne sheer strength per TEK screw.



FORMSTEEL BUILDINGS











FORMSTEEL BUILDINGS









FORMSTEEL BUILDINGS









RETAIL MACHINERY SHOP 24M X 24M



LARGE 50M CLEAR SPAN BUILDING



LARGE FORMSTEEL CANOPIES

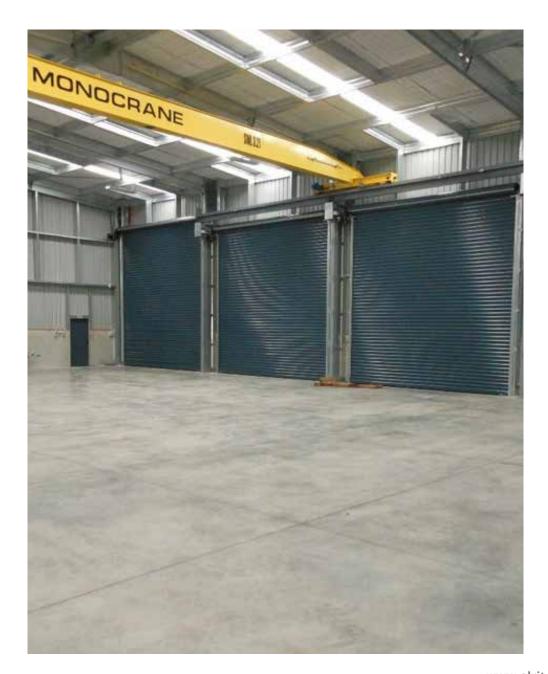








HEAVY DUTY FRAMES INCORPORATING GANTRY CRANE CAPABILITY







FORMSTEEL HANGARS









FORMSTEEL HANGARS



Auckland Flight Training





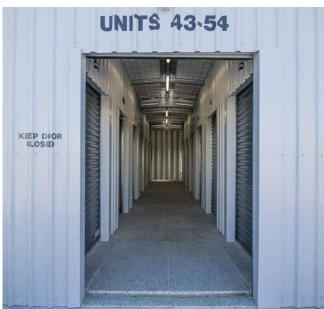


FORMSTEEL STORAGE UNITS



FORMSTEEL STORAGE UNITS











FORMSTEEL SHED HOUSES





COVERED DAIRY SHELTERS





FORMSTEEL DAIRY SHEDS









COVERFAST FARM SHELTER RANGE



COVERFAST BUILDING RANGE - GABLE DESIGNS









COVERFAST BUILDING RANGE - MONO PITCH DESIGNS









FORMSTEEL MEZZANINE FLOORS







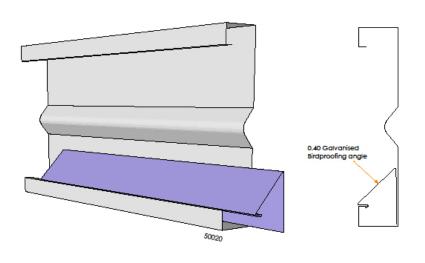
TILT SLAB DESIGN INCORPORATED WITH FORMSTEEL





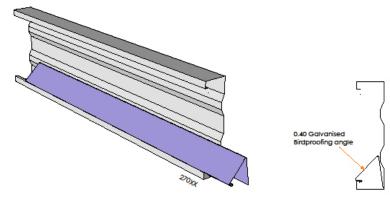


FORMSTEEL BIRD PROOFING



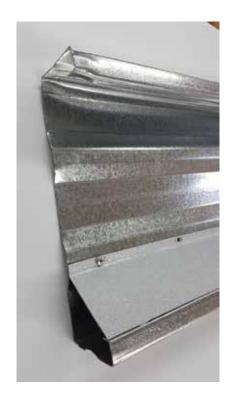
Machine stitched angle on 270 purlins - also available as a retro fit 'click in' version on both 270 purlins and 50020





Plastic Bird proofing blocks for the crown of Purlindek fits around the roof screw





TRAY FLOORING – TWO PROFILES AND VARIOUS THICKNESSES AND DEPTHS

The many benefits of using Formsteel tray flooring include:

- Simplicity.
- Easy to install, thanks to the precision of steel construction.
- Light in weight, so pieces are easy to place.
- Minimal components mean minimal hassle.
- No rolling lubrication used to maintain concrete/steel bond.
- Trapezoidal factory stop ending available saving time and money.



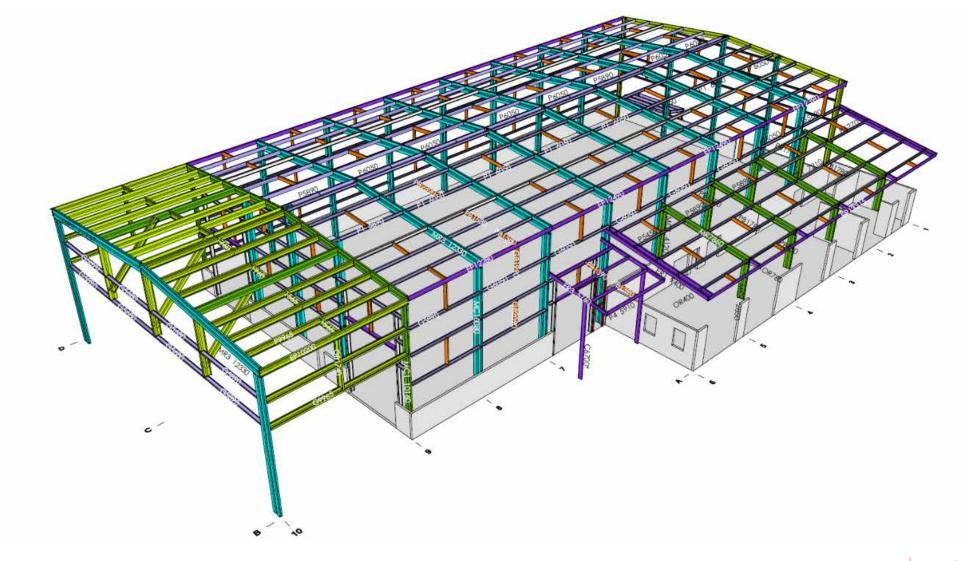




UniFloor



CLEAR, EASY TO FOLLOW CONSTRUCTION PLANS



2/27115 back to back 2/27115 back to back 2/2715 back

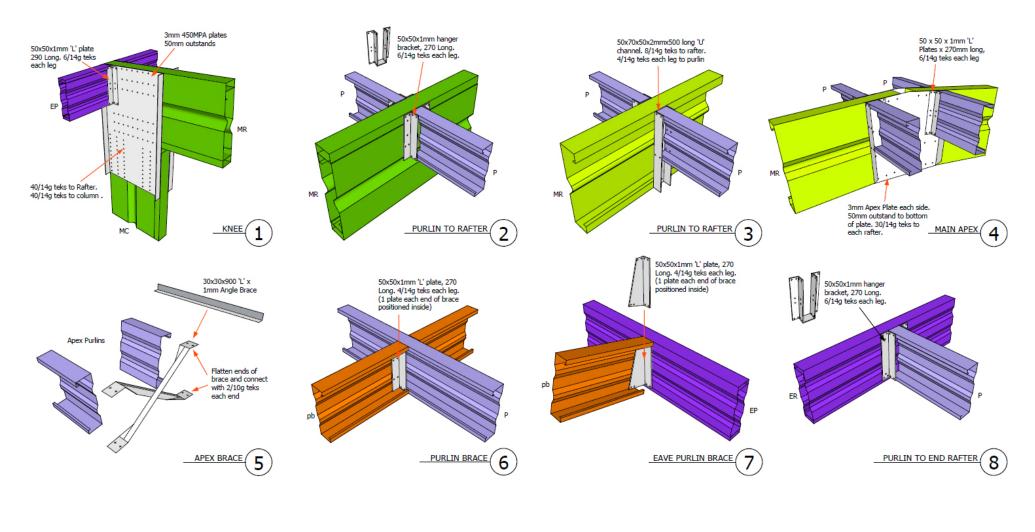
Isometric





Project Number	B4799	
Date	2015	-
Drawn by	Sim/Ash	p(
Not to scale		~
Formsteel Techn	ologies 2015	

COLOUR CODED CONNECTION DETAILS





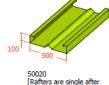


[End Portal / Eaves Purlin]



[Purlin block

Girt block1



first purlin from knee1



purlin from kneel







Project Number	B5238	
Date	13/11/2015	
Drawn by	Sim	

Drawn by Sim
Not to scale
© Formsteel Technologies 2015

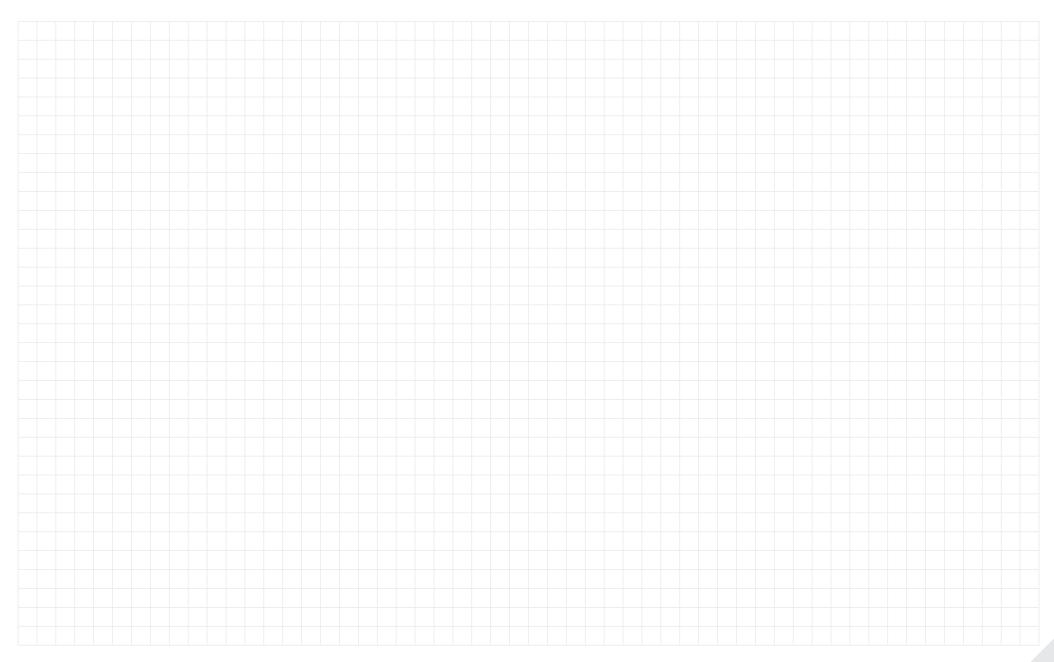
FORMSTEEL FREIGHT LOADS







SKETCHES



NOTES

NOTES



ALRITE MEMBERSHIPS:









Alrite Steel & Services NZ Ltd.

Tel +64 9 270 2008 Fax +64 9 270 2009 Mob +64 27 666 4021 bs@alrite.co.nz www.alrite.co.nz