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# WWW.STANDOFFSHELTERS.CO.NZ

**“Lets the sunshine in” - giving your cows a naturally dry & warm shelter**



## Features:

- \* High strength designs to suit exposed farm sites
- \* All RHS steel sections used for framing/posts
- \* Poles are heavy duty coated to resist corrosion
- \* Super Long-life Duratough 4™ roof covering
- \* Side “eyebrows” to protect feed bins (optional)
- \* Clear-span portal roof for easy vehicle access
- \* Manufacturers building warranty included
- \* Speedy construction nationwide over existing or new standoff pads / feedpads
- \* Wide range of roof & gable ventilation options.
- \* Internal shade-screen options for warmer months

## Benefits:

- \* Keeps cows dry & warm in poor weather
- \* Cows add condition & weight
- \* Virtually eliminate rainfall run-off from the pad area
- \* Cost effective & speedy to construct nationwide
- \* Reduces pressure on pugged land & revive grass
- \* Reduced need to send stock off-site over winter
- \* Can be utilized as a calving shed (sectioned off)
- \* Suits small or large herds
- \* Cows have increased water & mineral uptake
- \* Low labour input to operate
- \* Standing-off promotes excellent pasture recovery

## A Brief History

More than 1000 Standoffshelters™ have been manufactured & installed throughout Australasia by Redpath®. They house many types of animals including Dairy herds, Calves, Pigs, Goats and Sheep. Standoffshelters™ have been designed to provide the maximum opportunity for ventilation for improved animal health. Roof or End Gable ventilators can be fitted as an option on larger shelters and these may be fully automated. Continuous air movement & natural UV light to the cows & the ground area is important as it helps maintain dry ground conditions and lowers humidity levels in the Standoffshelter™ whilst keeping disease levels to a minimum also. Improved environmental conditions will maintain healthier cows when compared to traditional dark, damp tin sheds that are associated with high humidity & disease propagation. Natural light keeps micro-biological organisms to remain alive & “active” in the deep litter systems are often used on the floor of the Standoffshelter™. Light also helps keep the cows warm & in a more natural indoor environment.

## THE FLOORING SYSTEM:

There are a number of options\* when it comes to choosing the best type of flooring system for your Redpath standoffshelter™. At minimum a gravel or compacted stone base can be used & this will likely incorporate drainage pipes to remove excess moisture (which would then travel to a pit or tank). A popular material for the flooring is either woodchips or post peelings, these offer the cows a warm, soft surface to stand & lay on plus also offer good aeration & “soakability” to help prevent damp floor areas from forming. The energy generated by the sun beneath the specialised roofing of our standoffshelters™ has a dramatic effect on the drying of the floor. To help save on costs, the woodchips can often be produced on the farm from (see “feeding the herd” – for other deep-litter information) existing trees. If the standoffshelter™ is to be built over an existing concrete pad, - then the litter system & feed system may differ, or a rubber matting may be used. Another option is a slotted floor type system (usually concrete) and Redpath has experience covering these types of floor systems on request. Call us for the contact details on the slotted floor system supplier in NZ.

\* Discuss flooring system options that might best suit you with your farm consultant



## WIND STRENGTH & RELIABILITY:

One of the most proven features of the Redpath standoffshelter™ building range is their solid reliability in New Zealand farm conditions. Typically our shelters are built on quite exposed sites & require little shelter (if any) in many locations. We take special care to maintain the reliability of the standoffshelters™ roof covering & thus we supply a heavy-duty ridgeline brace + also “cyclone strap” the flexible roof cladding to increase durability & wind resistance by up to 20%. The Redpath frame uses strong RHS (rectangular hollow section) for all of its poles, & arch/truss sections. We take extra care to protect the poles & footings that enter the ground by coating them with a thick layer of hot dip galvanizing & on top of that we add a rubberized paint for superior corrosion resistance from effluent & ground water.

Redpath standoffshelters only use quality hot dipped galvanized nuts & bolts to secure all of the buildings major structural connections, and our specialist aluminum clipping system is used to secure the “Duratough 4” roof covering. Redpath support all of our buildings with a three year frame parts warranty & the Duratough roof cladding with a 4 year UV warranty, service life from the frame is typically 25+ years & 6-7 years from the roof cladding in most locations.

## THE STANDOFFSHELTERS ROOF COVERING:

Redpath® imports the specialist long life Duratough 4 “EVA” (Ethyl Vinyl Acetate) roofing membrane from Europe. The roofing includes a high percentage of elasticized EVA which gives it excellent flexibility & superior crack resistance properties. The latest technology “HALS” (Hindered Amine Light Stabilizers) are used in the roofing membranes resin to provide the longest possible life. Redpath has been supplying Duratough in New Zealand & Australia for almost 20 years & life expectancy of the product is excellent. Duratough is supplied with a 4 Year pro-rata UV warranty & the actual realistic service life of Duratough can be 6 – 8 years. Duratough 4 includes anti-condensation drip additives to minimize condensation water forming on the inside of the roofing & then dripping onto the floor, helping to keep the standoffshelter™ floor drier. Duratough has a high “PAR” light transmittance level (photo-synthetic light activation), - this is very important to aid the drying effect of the floor inside the standoffshelter™ whilst also keeping microbiological organisms in the deep litter systems actively breaking down manure/ effluent.

## USING YOUR SHELTER:

Each farmer will have different requirements from their standoffselters™. Some will only use the shelter for when conditions are particularly wet or cold on the farm. Some will use the shelter when paddocks are badly pugged up or paddocks require a rest & time to re-grow grass. The length and the width of the shelter also becomes important to the “psychology of the herd” as the shelter length dictates how the cows move around the shelter & also how they rest-up. Cows typically become quiet & easy to manage inside a Redpath standoffselter. The density of cows per sq/m may vary dependant on the periods of time that the farmer expects to stand off the herd for.

Cow density also has an effect on the amount of effluent levels produced within the shelter. For animal welfare reasons it is important not to operate the standoffselter in an overly intensive manner. Redpath offers a large range of ventilation options & shade screening options to help keep the shelter cooler if it is planned to be used in warmer months, talk with us & your farm consultant to establish the best option for your shelter.



## CONSTRUCTION ON SITE:

Typically Redpath® would apply for the building permit, deliver the standoffselter™ to your site & construct the shelter on your site. However kitset supply of the buildings and partial construction is still an option if preferred. We have building crews based nationwide that specialize in the assembly & construction of our flexible roof covered buildings & we construct them speedily & to a controlled quality specification. When we quote to you the labour for construction we usually include any travel & accommodation costs that might apply. It is Redpath’s policy to try to always supply an accurate & complete price.

## FEEDING THE HERD:

Feeding is typically done alongside the sidewall (from the outside), or within a central covered “service lane” built into the shelters (see pic »).

The feed that is distributed along the side of the standoffselter sits beneath a sidewall “eyebrow eve” that extends outward from the top of the sidewall by approximately 1.2m. This method is very labour efficient. Other techniques include feeding from concrete troughs located within the structure itself, or feeding from a covered silage stack outside of the structure and allowing the cows to wander out of the structure & return to the shelter at their leisure.

Some farmers (with deep litter systems) that are housing cows for long periods of time (up to 4 weeks or more) – then care needs to be taken to provide the right mix of feed to the cow. In these situations the feed mixture program should be discussed with your consultant. When the weather is poor, there are large production benefits to be gained by keeping the cows warm & dry, the cows feed consumption costs are often also minimized. Feeding the cows dry feed will reduce the “wetness” of their waste output & this assist in maintaining dryer & healthier floor conditions within the shelter, whilst extending the litter’s service life. If you bring the cows in from the paddock from a grass only diet you can expect the shelter flooring to initially run a little wetter than normal & then progressively dry out as the mixed feed regime helps dry things out.



## WARRANTY & SERVICE:

The Redpath® three year building warranty\* applies to the framework of this structure & an extended 4 year specialist warranty applies to the Duratough roof covering. All details of our extensive building warranties are sent to you as part of our quote/contract document. Redpath is a long standing New Zealand based company that has specialized in the manufacture and installation of steel frame buildings with flexible claddings for more than 30 Years. Our experience in this industry strongly dictates our designs & their incorporated features. The factory backed Redpath warranty is part of our commitment to our range of buildings & provides “peace of mind” to our many valued clients. We would be pleased to put you in contact some of our many happy customers to discuss our products performance & their service experience upon request.



## HOW MUCH DO THEY COST?

Standoffshelters™ are built in a wide variety of shapes and sizes dependant on the amount of cows to be housed or in consideration of the proposed site. The shelter can be supplied with a variety of options that ultimately will control the price of the standoffshelter™. Other factors are your preferred method of feeding, water supply, the flooring system and ventilation needs, building accessibility + labour costs to build in your region of will all affect the price of the standoffshelter™. It is very common though for farmers to comment to us that Redpath standoffshelters represent excellent value for money. When you buy from Redpath you are buying direct from the factory that produces the standoffshelter™, - we manufacture 100% what we sell.

Please call us on our free-phone number 0508 733 728 or visit our web site & complete the “request price form”. We will usually reply with a price estimate within 48 hours.



## CONTACTS & QUOTES:

Redpath® Factory:

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Contact: Glen or David Williams, Colin Bell.

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