

# METALCRAFT

## Innovation by Design

### WINDOW TRANSPORTATION SYSTEM



Metalcraft Engineering has designed an innovative total solution to meet the needs of customers wishing to transport window frames on trolleys, transport frames, trucks, trailers, vans, utes, demountable frames and other structures. This solution is available as a complete turnkey solution, and also as a very cost effective upgrade to the most common existing systems.

GET FULL PRODUCT CATALOGUES ONLINE AT [WWW.METALCRAFT.CO.NZ](http://WWW.METALCRAFT.CO.NZ)

## THE COMPONENTS

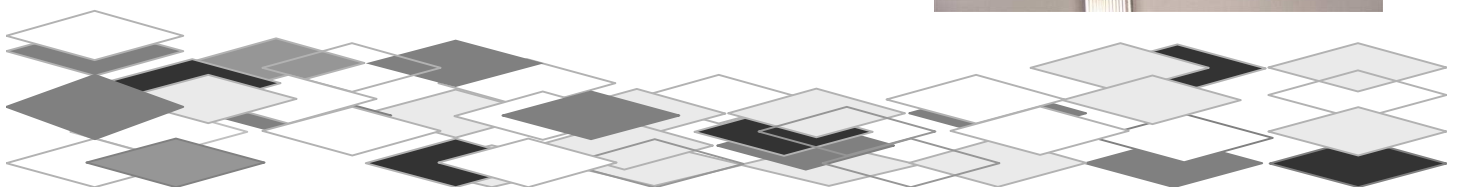
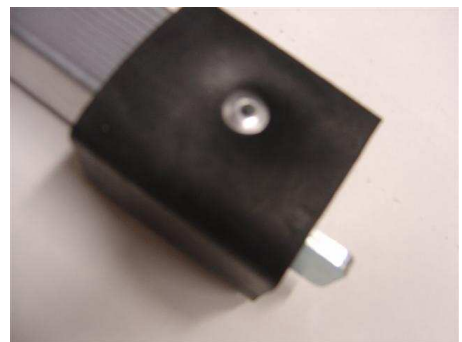
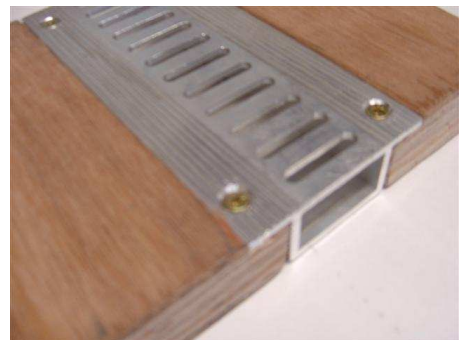
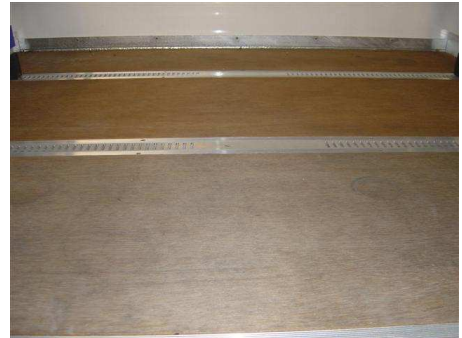
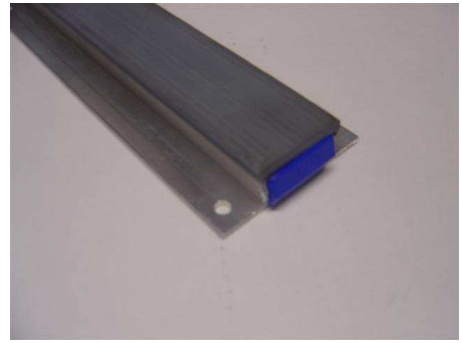
Polymer bearing surface. This surface has been developed specifically for carrying glass and window frames. It is non-marking, soft, grips the product, and very hard wearing. The Polymer slots into aluminium and steel sections and becomes integral to the structure, or is mono-bolted onto existing structures.

Timber deck. This is a 29mm thick hardwood container ply deck that provides a durable surface for the base of the transportation system. The deck is machined so that the slotted base fits under the surface of the timber deck, hence avoiding the frames touching the hard surface of the aluminium slotted base.

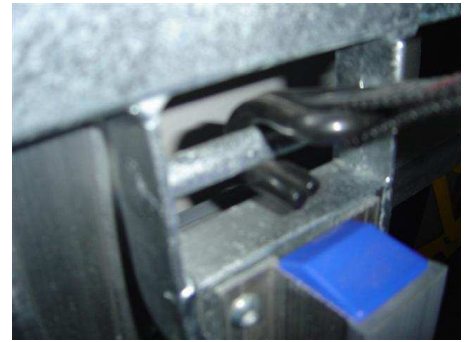
The slotted base is used to secure the bottom of the strap pole to the deck. The slotted base provides multiple pole location options, which is key to securing the load.

The strap pole has a tongue at the bottom of the pole which is used to locate and secure the bottom of the pole into the slotted base.

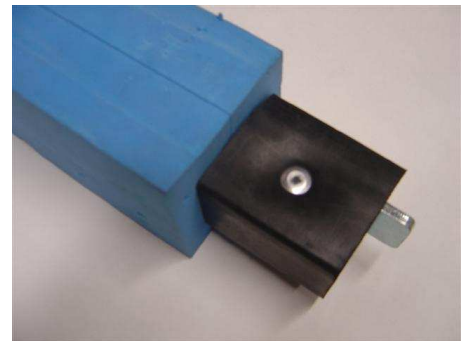
The top of the strap pole has a hook and strap with locking mechanism. The hook secures the top of the pole to the structure, and the strap is pulled to provide pressure from the pole onto the load, and through the load onto the structure. The locking mechanism secures the pole



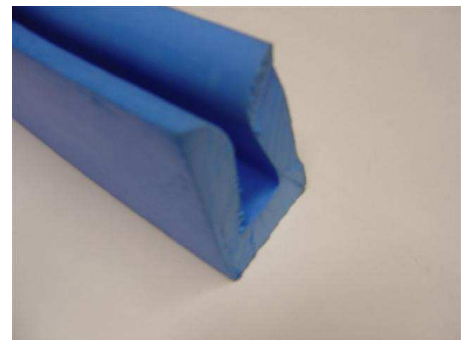
The top cleat is part of the structure and allows the hook on the strap pole to easily connect to the structure.



The rubber sheathing on the pole is 20mm thick on each side and provides compression when under load, assisting the strap pole to secure the load.



The reveal rubbers between the window frames provide a soft protective layer between each window frame, and also a level of compression which aids with securing the load and reduces movement when in transit.



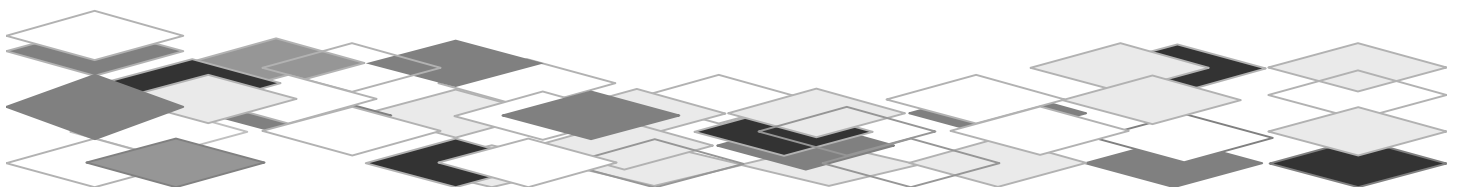
The security strap is a primary retention device which secures the outside layer of the load back to the structure. In the event of a collision or accident, this strap provides additional support.

An inclinometer provides the users with a view and measurement of the inclination of the structure and load prior to unloading to ensure safety.



## THE LOAD PROCESS

The users load the window frames onto the structure placing the reveal rubbers between each frame. Poles are inserted into the bottom slotted base, hooked on the cleat at the top, and the strap tightened against the outside window frame, compressing the rubbers through the width of the load. The load is now secure. A safety stop is then placed around the entire load.





## BENEFITS OF THIS SYSTEM

1. This system is very quick to load and unload, which saves time and money both in the factory and onsite.
2. The window frames are not exposed to any hard surfaces, and hence damage through transit rub is minimised.
3. The strap poles secure the load directly through the load, not at an angle as with many rope and strap solutions. This reduces movement and hence damage to window frames while in transit.
4. The multiple rubber bearing and compression surfaces mean that each item is secured against the next to reduce movement in transit.
5. A strap pole can be located within a load, such as between layers of large window frames and small window frames, so that the outer small window frames have a soft bearing surface of the back of the strap pole rather than “falling into” the larger frame. Additional strap poles secure the outside of the load, through the inner strap poles, to the structure.
6. The reveal rubber assists with separating frames that have protruding mullions or fins.
7. The reveal rubbers are moulded around the reveal shape and less likely to move or “fly out” while in transit.
8. All components are made for the weather, waterproof, UV resistant, and non-marking.
9. The solution provides a professional image for your staff, and to your customers.

## TO PURCHASE THIS SYSTEM

Call either Ian Barker or Bryn Thompson at Metalcraft on +64-3-3603373.



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