



Worksite Protection



- Protecting the worksite and protecting drivers from the distractive activities on the worksite is our business.
- Tauren Barriers Ltd manufacture, sell and hire the American Easi set JJ Concrete Barrier system.
- We have been manufacturing barriers since 1998
- Tauren Barriers have the manufacturing rights for both New Zealand and Australia and are in Victoria, Queensland, New South Wales and Tasmania



Background



- Our first screens were made in late 1990's with shade cloth
- Transit NZ as it was then required the screens to have ply inserts which are still being made today
- Our original designs have been adapted and incorrectly copied leading to significant design faults







Redesign of frame



- Tauren Barriers saw a need to eliminate any potential foreign debris intrusion into the crew compartment of any vehicle that happens to hit a barrier system and screen assembly. Ply disintegrating would do this.
- The original frame was changed from a 40mm box section to a 32.1mm diameter round tube of 1.2mm thickness
- By moving to a round tube we removed all welds from the top bar. On impact, the round tube would now deform and offer no resistance and eliminate any top bar intrusion







Product Improvement



- The present (ply) 6m screens have a weight exceeding 60kgs each which require a minimum of 4 staff and a hiab to install
- The current ply screens require the frame to be bolted to the barrier. The screen is then suspended and the crew drill through the frame and insert a bolt into the concrete barrier
- Removing the screen now leaves an exposed bolt which can result in a snag point for workers, motorists and cyclists and motorcyclists











Tauren Barrier Solution



- We set about moulding inserts into the barrier at the time of moulding/ forming the barrier
- This allowed a clean face on removal of the bolt resulting in the total elimination of any potential snag point





Redesign of Mounting







Screen Sizes



- Tauren Barriers make both 3.6m and 6m long barriers. All barriers are 810mm high
- The screens are all 1.2m high thus effective when mounted on the barrier - resulting in a screen of 2m from road level
- Note: The NZTA only require a screen height of 1.2m. This based on the effective screening height for a conventional car
- NZTA height regulations do not take into account the Remuera Tractor, 4WD vehicles, light commercial vehicles, recreational vehicles or heavy vehicles
- Tauren Barriers saw the 2m height as far more effective



Why are screens important?



Screening:

- 1.Eliminates **driver distraction** caused by machinery operating close to a barrier stream
- 2.Eliminates **worker distraction** from vehicle movement in the adjacent live lane
- 3.Increases worker productivity
- 4. Eliminates **missiles/projectiles** being thrown from moving vehicles (significant potential hazard)
- 5. Helps to reduce dust nuisance crossing live lanes



Benefits



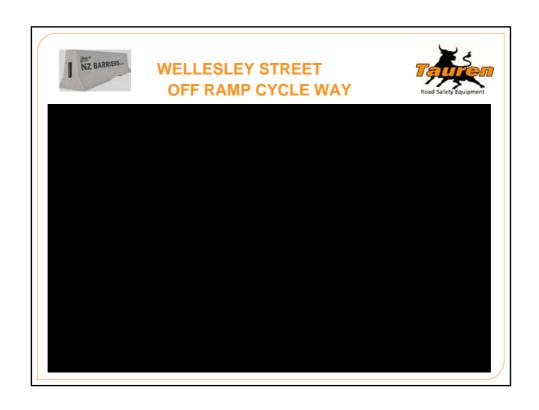
Tauren screen systems significantly reduce time, cost and risk of injury:

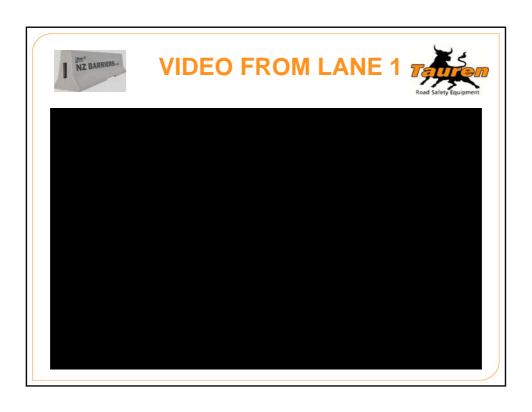
- Installation time is reduced by up to 80%
 - Increased installation meters per working day/night (up to 100m per hour)
 - Reduction in cost due to less staff required for installation
 - Significantly reduced traffic management costs associated with lane closures and TTM installation.
- Eliminates the need for heavy lifting equipment (hiabs or cranes)
- · Risk of installer injury significantly minimised
- Greater driver protection in the event of an accident and screen impact

















Thank you for the opportunity to present our Innovative new development to this Industry Group.

If anyone has any questions wish to know about
This product I am available in the Conference
Product display area.