



CREATING
A SAFER
ENVIRONMENT



Disaster Prepare Ltd

Multi-award winning company
providing earthquake safety services

QuakeFlex™



QuakeFlex™

What is QuakeFlex™ ?

QuakeFlex™ is a ductile earthquake safety restraint for building contents up to 200 kg.

Designed to flex during an earthquake to dissipate some energy to reduce stresses on the object and the structure it attached to.



QuakeFlex™

Overview

The Christchurch earthquakes highlighted problems associated with vertical acceleration

Traditional restraints :

- Fixed restraints – too rigid
- Quick release – not rigid enough

QuakeFlex™ is a hybrid semi rigid solution offering the benefits of both fixed and quick release restraints.



QuakeFlex™

“Flex-ability”

- Stainless steel leaf spring designed to flex
- Reduces potential prying or shearing of fasteners
- Not prone to metal fatigue
- Radiused corner eliminates a potential weak point
- Increased corrosion resistance
- Easy to clean for use in sterile environments.



QuakeFlex™

Quick release

- The restraint is attached to the item with 3M Dual Lock.
- High strength bond between the item and the restraint that is easily disengaged
- No drilling, screwing or riveting.
- This allows leased equipment to be secured without damage.



QuakeFlex™

Versatile

- Primarily designed as a quick release restraint
- Can also be attached to an item with mechanical fasteners or 3M™ very high bond tape.



QuakeFlex™

Environmental considerations

- Manufacture QuakeFlex™ locally
- All goods and services are sourced from the Wellington region
- Collaborate with local tertiary institutions as part of R&D process
- Sustainability
 - Reusable
 - Short supply chain
 - Long operational life
 - All components and packaging fully recyclable



QuakeFlex™

Where to next?

- Welling ton City Council to provide household packs
- WREMO community resilience initiative
- Exploring export opportunities to EU and Japan
- Developing a range of TV restraints

