

ultraframe Classic



Tie Bar Replacement Kit

Version: 1.0



world class conservatory systems

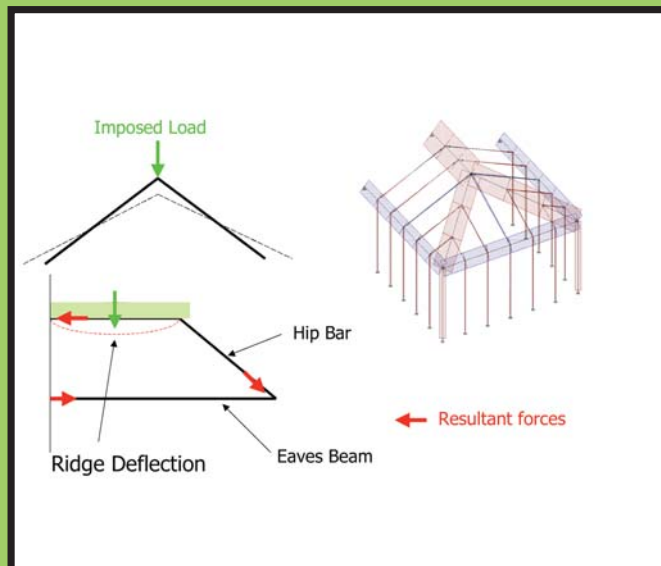
overview

- Opportunity to offer your customers an alternative to the traditional tie bar for most conservatory designs and sizes
- Structural integrity guaranteed, whatever the severity of the weather conditions
- Comprehensive solution offers additional features which ensures even easier fitting
- Simply provide your roof design and Ultraframe will specify when the Tie Bar Replacement Kit is required
- Tried, tested, trusted. Specify Classic by Ultraframe for the Tie Bar Replacement Kit that really works



introduction

When wind and snow loads are applied to a typical conservatory, such as a Georgian style, the hip bars carry the load down to the eaves beam. The ridge tries to deflect, and pushes back against the host wall whilst at the same time the eaves beam tries to pull away from the host wall as a result of the action of the hip bars. Without measures to counter these pressures, the conservatory roof would be in danger of collapse.



Traditionally tie bars have been used to prevent ridge deflection and roof spread. Tie bars are relatively easy to specify and reasonable in cost but can sometimes be time consuming to install. Also some consumers do not understand the need for tie bars and don't like the look they create. This has led to some less scrupulous installers avoiding tie bars all together, risking the potential collapse of the conservatory and the consequent danger to homeowners' safety.

In line with Ultraframe's commitment to continually review and improve our Classic system, we have researched the structural issues raised by tie bars and developed a comprehensive solution which will satisfy the demands of installers and consumers alike and cope exceptionally with the potential for difficult weather conditions.

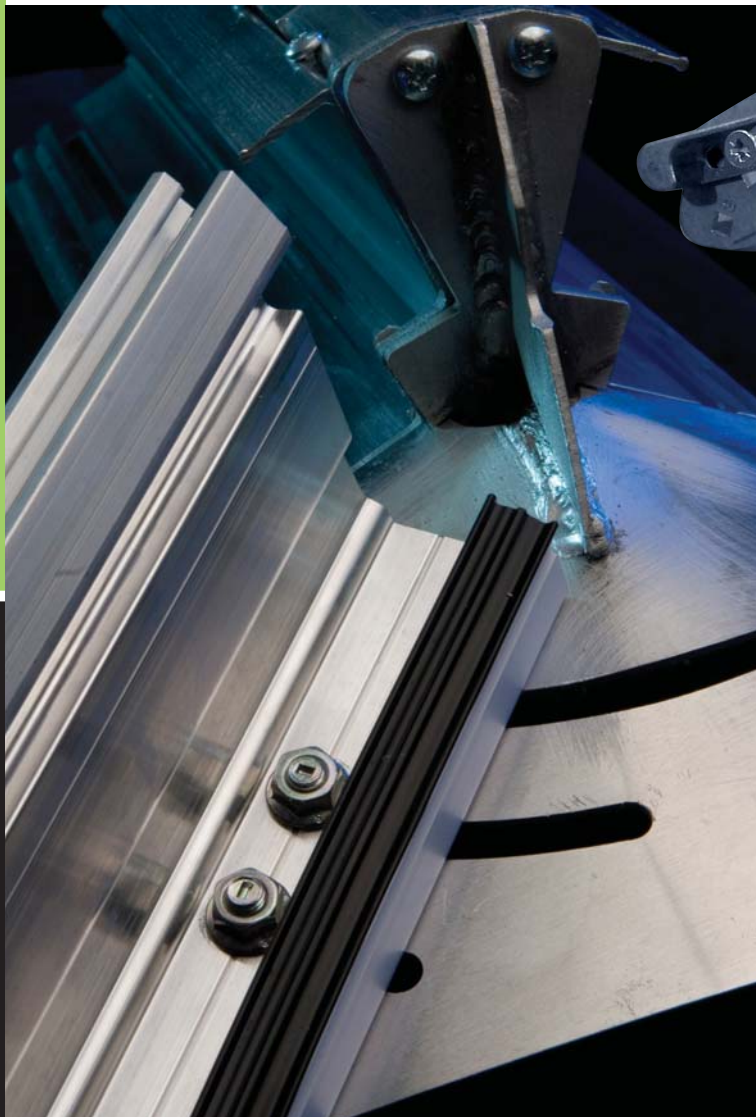


Traditional tie bars have worked well in the past - but today's consumer often doesn't like them

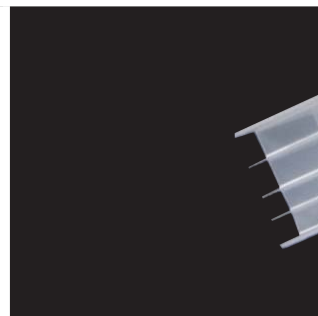
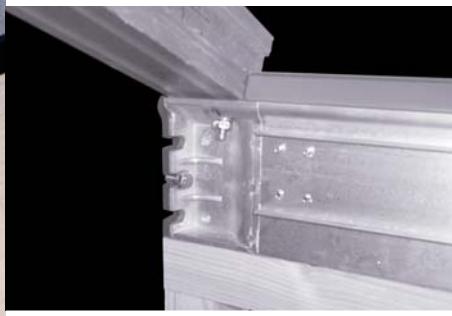
features & benefits

The Ultraframe Tie Bar Replacement Kit comprises a number of radical new features that offer an alternative to the traditional tie bar, yet also provides a number of additional benefits not available with any other roofing system on the market.

- New aluminium bolster beam extends along the entire length of the ridge and acts as one with the existing ridge to eliminate deflection
- Cast aluminium “end stop” on the eaves beam featuring integral slots for an anchor bolt to hold the conservatory to the host wall even more securely
- Reinforcement in the starter bar ensures that three anchor bolts are drilled into the host wall where the eaves beam is most vulnerable to pulling away
- New “Ridge Compression Plate” that sits at the end of the aluminium ridge body where it joins the house wall – this distributes compression forces across the host wall and allows installers to assemble and suspend the starter bars prior to attaching the main ridge body
- An additional cleat in the eaves beam corners. On Georgians this is backed up by a further butterfly cleat and two additional retention bolts where the hip bar sits on to the slotted ridge end

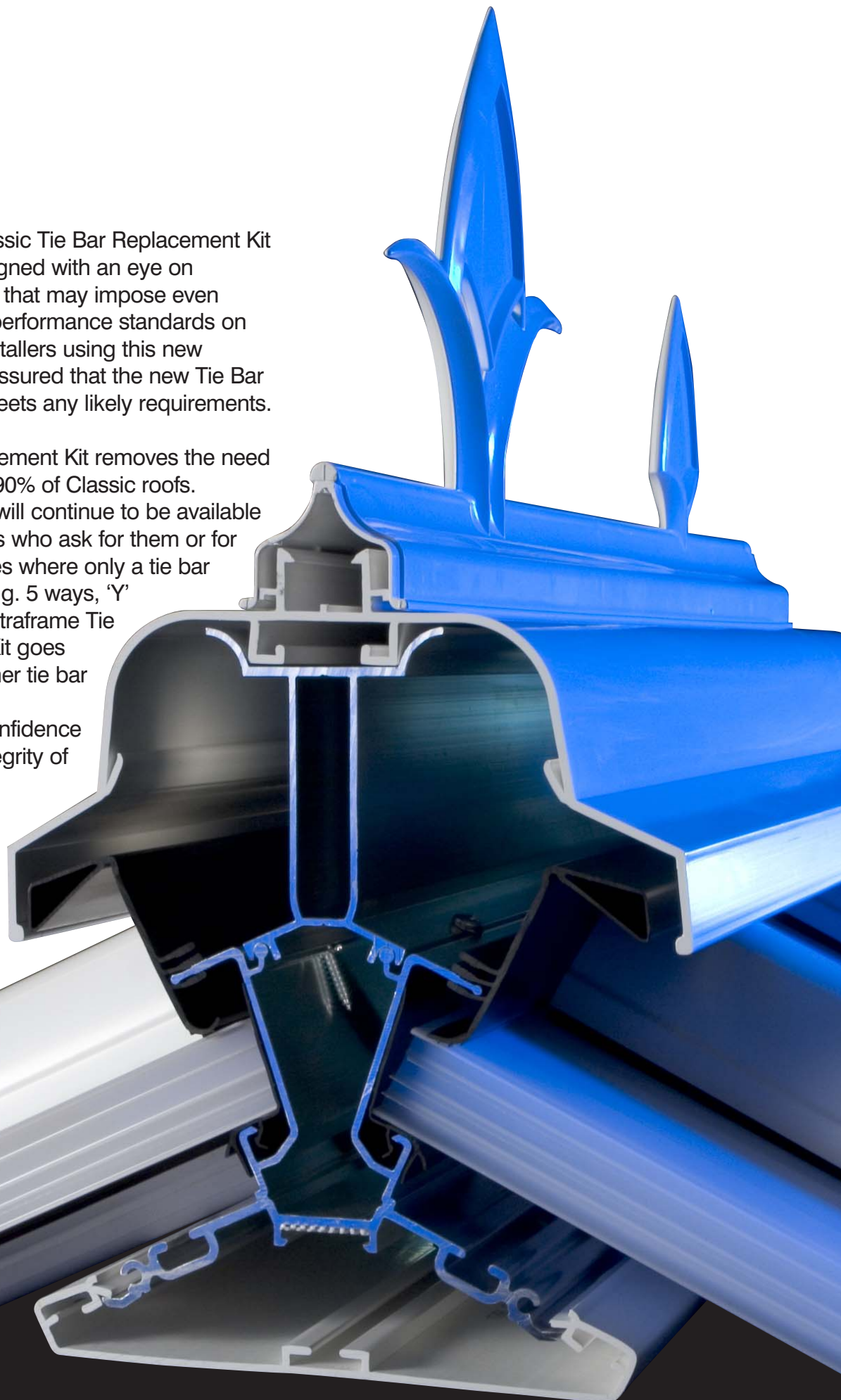


Ridge hanger can be specified separately as part of a 'mini pack' to speed up the assembly of smaller/standard roofs that don't require the Tie Bar Replacement Kit



The Ultraframe Classic Tie Bar Replacement Kit has also been designed with an eye on potential legislation that may impose even tougher structural performance standards on conservatories. Installers using this new solution can be reassured that the new Tie Bar Replacement Kit meets any likely requirements.

The Tie Bar Replacement Kit removes the need for tie bars in over 90% of Classic roofs. Traditional tie bars will continue to be available to those consumers who ask for them or for those circumstances where only a tie bar can be specified, e.g. 5 ways, 'Y' shapes etc. The Ultraframe Tie Bar Replacement Kit goes further than any other tie bar removal option and guarantees total confidence in the structural integrity of the completed conservatory to withstand extreme weather conditions.



The kit works with the 7 family of glazing bars and the mark 5 ridge (where the aluminium bolster replaces carriages). The Tie Bar Replacement Kit replaces a first tie bar - on larger roofs the kit and tie bars may be needed 'in series'.



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