

Even the very best building envelope won't last *forever*. When it comes to replacing yours, ExSteel Building Components can provide the products and services you need.

RETROFIT

BUILDING ENVELOPE

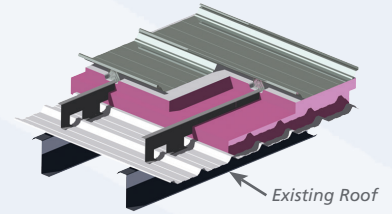
AFTER



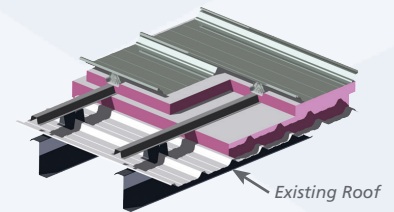
BEFORE



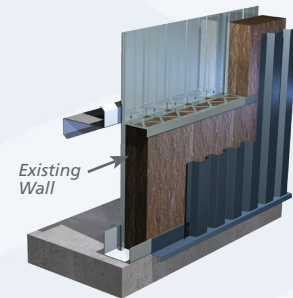
THERMASEAL STANDOFF SYSTEMS



Notched Zee



Hat & Chair



Notched Zee Wall System

THE STRENGTH OF EXSTEEL

Whether it is correcting a failing roof system, improving the thermal efficiency, or altering the aesthetics, ExSteel Building Components has the products and services you need for your retrofit project. A selection of exterior wall and roof panels is available and can be used in conjunction with the ExSteel ThermaSeal standoff systems. For more details, please refer to the ExSteel Panel Design Options and ThermaSeal data sheets available at www.exsteel.com.

ExSteel has the design expertise and experience to provide you with the right components for your building envelope retrofit requirements.



RETROFIT

BUILDING ENVELOPE



AFTER



BEFORE

COMMON REASONS TO RETROFIT

- Restore failing building envelope
- Increase the thermal efficiency of the existing structure
- Modernize the aesthetics of the building

OPTIONS FOR RETROFIT

Replace the existing building envelope with new panels.

- The loads on the structure are generally unchanged, allowing this technique to be used in nearly all situations. New or additional insulation can be added to increase the R values.

Install a new envelope over the existing cladding using a ThermoSeal Notched Zee standoff system.

- This option improves thermal efficiency by adding up to 7" of insulation. The standoff system requires a structure that is capable of supporting the additional dead loads.

Install a new envelope over the existing cladding using a ThermoSeal Hat & Chair standoff system.

- With similar dead loads as the Notched Zee system, the Hats & Chairs allow for greater amounts insulation. The system can include up to 12" of insulation.

Convert an existing flat roof to a sloped metal roof.

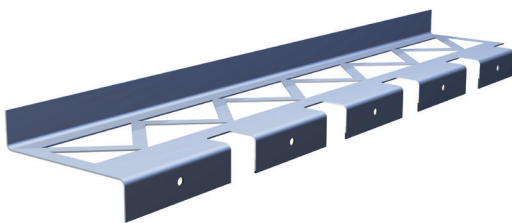
- There are virtually no maintenance costs on steel roof systems and given their long life span they are an attractive option for replacing existing flat roofs.

STANDOFF SYSTEM ADVANTAGES

Standoff systems provide a cavity where insulation can be applied in uncompressed layers within the system providing high insulation values. ExSteel uses standoff components that are optimized for thermal efficiency, reducing thermal bridging. The use of an RTL-24 standing seam roof system further reduces the thermal bridging by minimizing the contact points between the roof panel and the standoff system.

The complete system also helps reduce noise transmission throughout the entire roof and wall assembly.

NOTCHED ZEE



ExSteel Notched Zee Standoff components are designed to reduce thermal bridging.

