



# RETROFIT SOLUTIONS

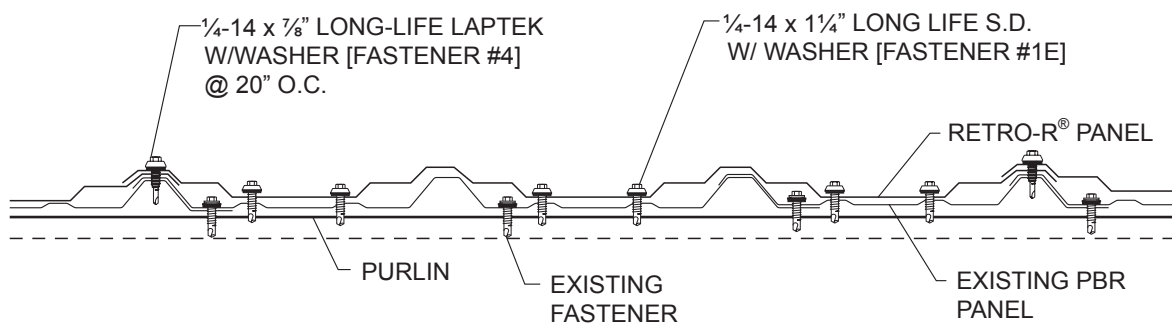
# RETROFIT SOLUTIONS

Robertson has experience in retrofitting existing buildings for more than 60 years. Our vast product offering allows us to provide you with the best option for your building.

We offer several retrofitting solutions:

- NuRoof® retrofit roof framing system, a trapezoidal standing seam roof over an existing R panel roof
- Retro-R® roofing panel that is installed over an existing R panel
- NuWall® retrofit wall system to cover existing R panel walls that need an upgrade
- Robertson Thermal System (RTS) which provides superior energy efficiency and a finished interior appearance

## RETRO-R SOLUTION



# WHY RETROFIT?

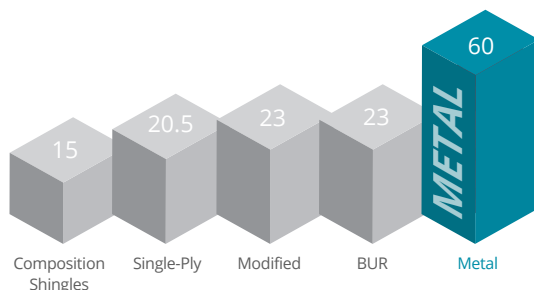
There are many reasons for choosing a Robertson retrofit system for an existing building. You may need to replace a leaking roof, correct the current roof geometry, meet new regulations or code requirements, make your building more energy efficient or improve the aesthetics of a building.

Naturally, flat roofs are problematic. They lack the ability to effectively release rainwater from the building, so they retain moisture on the rooftop which can lead to potential infiltration into the building's interior. Flat roof weatherproofing membranes are exposed to a greater range of performance issues and require continual maintenance to provide weathertightness assurance. The proper framing design, metal roof system, insulation package and ventilation

are crucial factors that will reduce your operating costs and provide a minimal maintenance roof for many years. Metal roofing is recognized by industry experts for having a 60-year or more lifespan compared to its nearest flat roof competitor at 20 years.

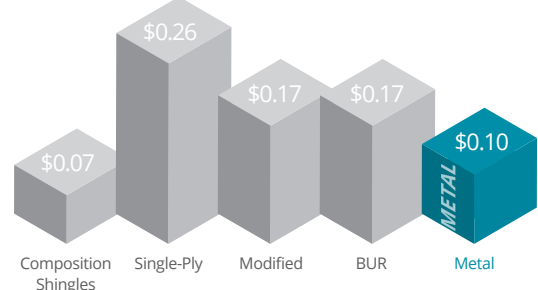
Retrofitting is also an ideal solution to tackle the growing concerns around energy consumption. Robertson has designed systems that address retrofitting over existing metal roofs that allows for upgrades to the current building code requirements. These systems can be designed to increase the building's thermal efficiency by adding insulation between the old and new roof.

## ROOF LIFE (in years)



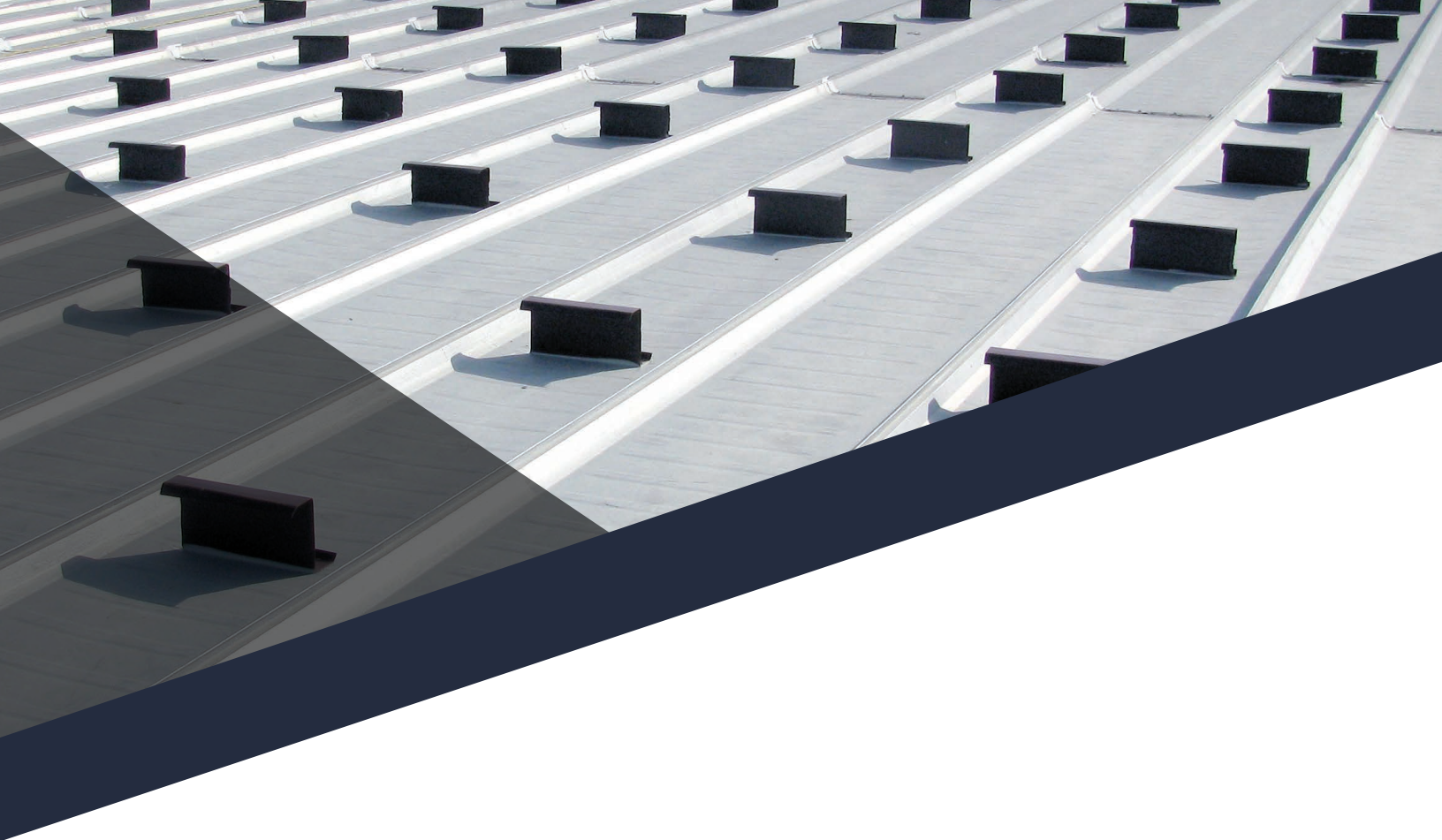
Source: Ducker Worldwide Case Study 2007 & MCA/ZAC Service Life Assessment Study 2015

## ROOF MAINTENANCE (cost/sq.ft./yr)



Source: Ducker Worldwide Case Study 2007





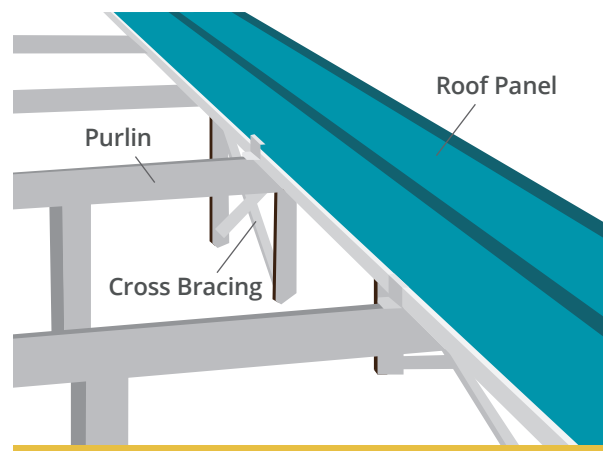
## NUROOF®

Whether your roof substrate is steel, wood or concrete, Robertson's NuRoof® system can be applied to satisfy the building owner's requirements. The NuRoof framing system utilizes light-gauge (16 ga. to 12 ga.) steel framing installed directly over the existing roof's framing members to create a sloped plane. The greatest benefit of the NuRoof system is that it allows for uninterrupted service during your retrofit since it is not necessary to remove the existing roof. Robertson has the experience required to design the retrofit framing system that will integrate with the original load requirements of the existing roof.

The existing roof's conditions will dictate the new roof's geometry. A low-slope

application (1/4:12 to 2:12) is designed to release rainwater from the roof. High-slope applications (greater than 2:12) are designed to improve the aesthetics of an existing building in conjunction with improving the performance of the roof.

### NUROOF FRAMING SYSTEM



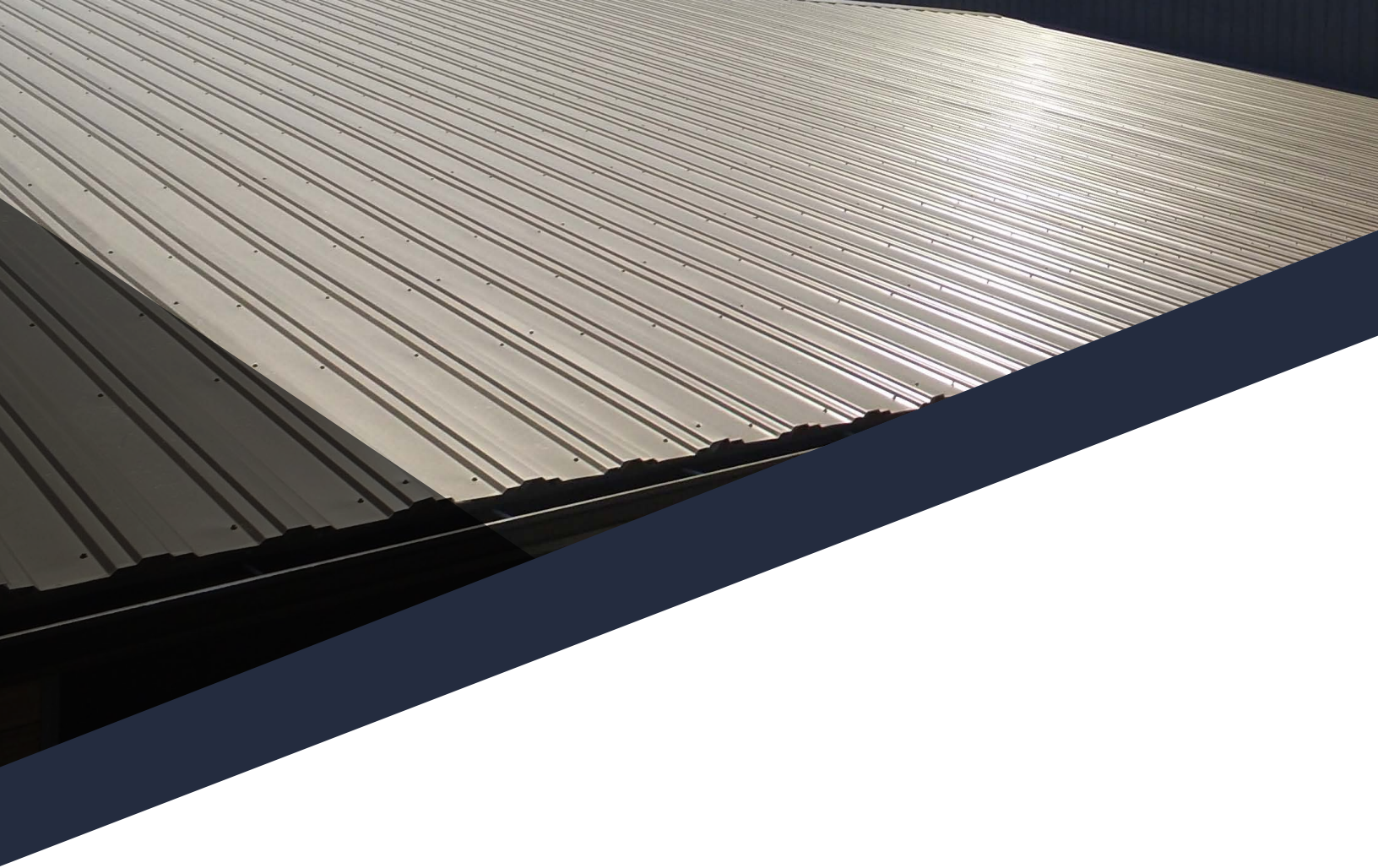
# NUWALL®

If your wall system needs a facelift, then Robertson's NuWall® system can be used for either new or retrofit construction and with metal wall or other surfaces. This concealed fastened system creates a clean, uninterrupted wall on a building. It is based on a 12" module, which means that when using it, the existing panel ribs must be 6" or 12" on center. It is based on a 12" module.

The NuWall panels come in a variety of colours and are also available in textured finishes which allows for an architecturally pleasing look to your exterior design.







## RETRO-R®

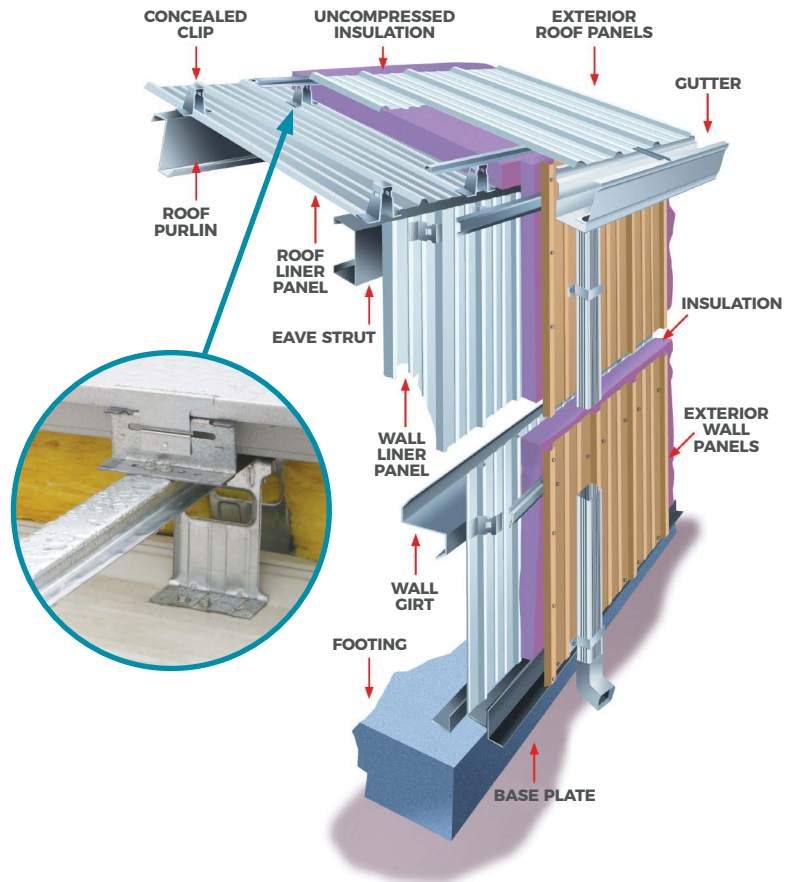
If your existing R panel needs replacing, Robertson offers a low-cost retrofit solution to renew the existing roof or walls. Like our NuRoof® system, this re-roofing option allows the existing roof to remain in place, which saves on labour costs while minimizing the chance for water entry during the roofing process. Existing roof top equipment, vents or light transmitting panels (LTPs) can be accommodated by either system.

The Retro-R® is an exposed fastener system and is an excellent choice for retrofit construction. Retro-R can be applied directly over an existing PBR or R panel roof allowing you to maintain operations during install while also giving your building a fresh look and longer life. The Retro-R panel has a Drip Stop barrier to prevent rust on the current roof or wall from transferring to the new panel and is available in a wide variety of colours and offers long-term warranties.

# ROBERTSON THERMAL SYSTEM (RTS)

The Robertson Thermal System (RTS) provides energy efficient roof and wall construction. Accommodating up to 18" of insulation, RTS meets Zone 7 for NECB 2011 and offers excellent R-values and a finished appearance. Intended for both new and retrofit construction, cost-effective RTS is easily customized to provide the level of energy efficiency required for your building.

RTS helps control condensation by acting as a vapor retarder. The interior liner panel supports and protects insulation while providing an attractive, easy-to-clean interior finish. RTS may be used with standing seam roof, exposed fastener, and concealed fastener panel systems. The system helps reduce heat loss through the building envelope compared to traditional metal building insulation systems.





# CREATING RETROFIT SOLUTIONS THAT MEET YOUR UNIQUE NEEDS.

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