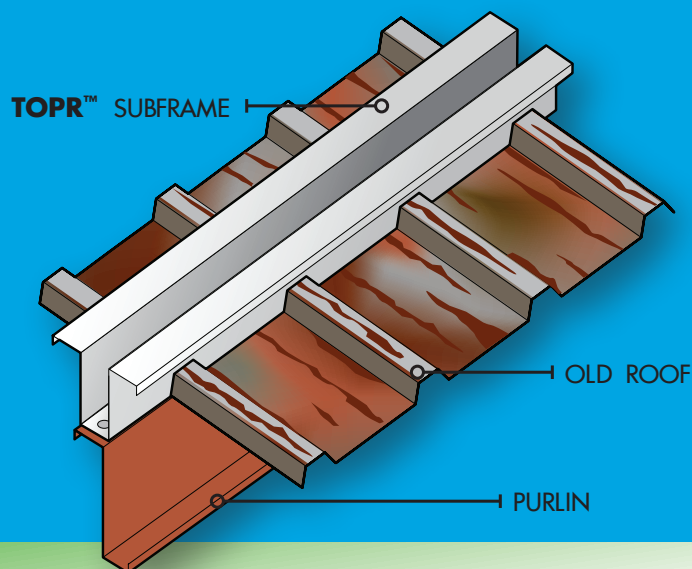


# TOPR™ IS THE INDUSTRY'S MOST ADVANCED RETROFIT FRAMING SYSTEM

Featuring increased energy efficiency, a stronger structural profile and superior compliance with newly strengthened building codes, **TOPR™** is the unchallenged leader in retrofit metal roofing solutions. **TOPR™** is compatible with a variety of standing seam and exposed fastener panels to complete your new roof.



## APPLICATION

**TOPR™** is an economical and efficient way to replace an existing metal roof. By putting a new and improved roof right over your existing roof structure, you achieve lower labor costs and minimal business interruption. **TOPR™** is attached directly to the existing purlin (or to the deflection limiter between existing purlins). Your new roof panel is then attached directly to the **TOPR™** Subframe.

## SUBSTRATE

- **TOPR™** is roll formed from premium-quality 16 ga. G60 Galvanized steel manufactured per ASTM A653/A653M or 1011/A1011M and having a minimum yield strength of 33 ksi.
- 14 ga. Galvanized, G90 Galvanized, and high-strength steel are available upon request.

## SIZES AND LENGTHS

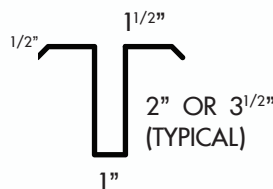
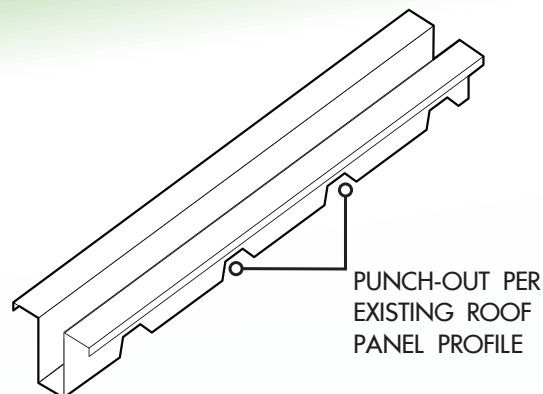
- **TOPR™** is available as 2" and 3 1/2" tall. Other heights may be available upon request.
- **TOPR™** can be roll formed to any length required, although 20' and 10' lengths are standard.

## TOPR™ PROFILES

**TOPR™** can be installed over virtually any existing metal roof. Standard punch-outs accommodate the following existing roofs: R-Panel, UltraDek, 7.2 Rib, 7.0 Rib, and many more.

## WARRANTY

A 20-year substrate warranty covering the galvanized material is available at no additional cost. The warranty is issued on a per project basis upon request.



## ENGINEERING

The **TOPR™** system requires specific engineering in order to meet the design criteria for your building. **TOPR™** systems can offer an engineering and shop drawing package for your project upon request. Always consult with a professional engineer registered in the state of your project before you start any project.

## TOPR™ SUBFRAME BASE TEST SUMMARY

TEST #	DATE	TEST DESCRIPTION	MOMENT REDUCTION (AMPLIFICATION) FACTOR		
			12 GA. PURLIN	14 GA. PURLIN	16 GA. PURLIN
1	4/3/2008	16 ga. <b>TOPR™</b> Gravity Base Test	1.215	1.522	1.646
2	4/3/2008	16 ga. <b>TOPR™</b> Uplift Base Test	0.834	0.795	0.779
3	3/3/2009	16 ga. Continuous <b>TOPR™</b> Uplift Base Test	—	—	0.768
4	3/3/2009	16 ga. High Strength <b>TOPR™</b> Uplift Base Test	—	—	0.902
5	3/3/2009	14 ga. <b>TOPR™</b> Uplift Base Test	—	—	0.902

## NOTES

1. The Moment Reduction Factor (R-Value) determines the normal flexural strength of a purlin in negative bending (uplift).
2. The Moment Amplification Factor (A-Value) determines the normal flexural strength of a purlin in positive bending (gravity).
3. These tests reflect the increased ability of the **TOPR™** system to provide lateral and torsional bracing to purlins to which it is attached.
4. All tests used a 3 1/2" **TOPR™** over 26 ga. R-Panel.
5. Always consult with a professional engineer registered in the state of your project.



For more information visit [www.topRoof.com](http://www.topRoof.com)  
Or call 1.800.283.5262

