

**STRONGER  
THAN STEEL.™**

# PROSTUD®

WITH DIAMONDPLUS® COATING



**ClarkDietrich.**  
BUILDING SYSTEMS

# **WE'VE GOT THE DATA TO BACK THE PERFORMANCE. AND THE RESULTS ARE BEYOND COMPARE.**

From multiple perspectives, ProSTUD® illustrates where forward thinking in steel leads. From design tools that streamline specification, to proven integrity in meeting the requirements of building codes, it's an advanced system for high-performance drywall framing.

When it comes to durability, the story grows even stronger. Results from salt spray testing powerfully demonstrate that ProSTUD with DiamondPlus® Coating surpasses—by far—the corrosion-resistance performance levels of G40 steel.



SURFACE RUST 240 HOURS  
**DIAMONDPLUS®**



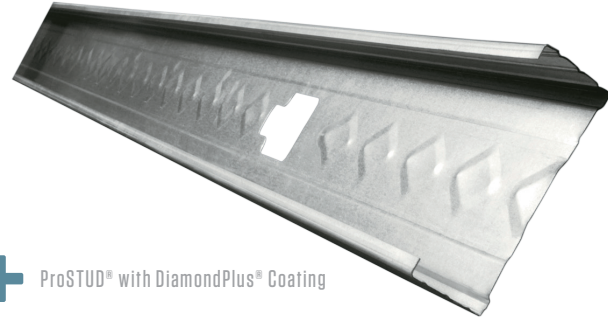
SURFACE RUST 240 HOURS  
**G40**

# A CONCISE PERSPECTIVE ON HIGH-PERFORMANCE COATINGS.

## AN INDUSTRY VISION.

Those on the path of market leadership naturally look at everything from a standpoint of innovation. Source materials, manufacturing techniques, finishing processes and beyond figure into a larger calculation of moving the industry ahead.

DiamondPlus is one example of progressive thinking from ClarkDietrich applied to a trusted building product. While technically it falls into the category of equivalent coatings, its performance in side-by-side testing with conventional G40 steel is unequaled.



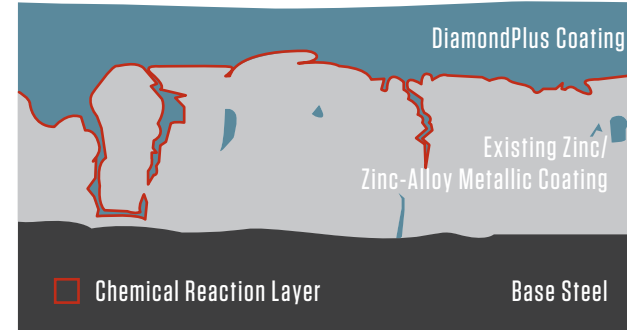
+ ProSTUD® with DiamondPlus® Coating

Introduced into the steel framing industry in the 1990s, equivalent coatings now account for a significant portion of the light-gauge, cold-formed steel stud market. Other industries, including automotive, military and off-shore drilling, have embraced equivalent coatings to elevate performance as well.

## A SCIENTIFIC VIEWPOINT.

It's critical to note that DiamondPlus® Coating is not a paint, barrier or mere surface treatment. On the contrary, DiamondPlus attaches to the base substrate of the steel through a chemical reaction that forms a permanent bond. The coating penetrates into the substrate to fill voids, cracks and pores. This process accounts for the superior corrosion resistance of ProSTUD® with DiamondPlus.

Solid science also helps us validate this performance and back it with hard data. Salt spray testing conducted



in accordance with ASTM standards in a certified laboratory substantiates the rust-inhibiting advantages of DiamondPlus Coating in comparison to G40 steel.

In averaged data, G40 samples began failing at 120 hours. They rapidly reached the testing failure threshold of 10% surface rust at 221 hours. By comparison, DiamondPlus coated samples did not climb above 3% surface rust, even after 240 hours.



## PROVEN AND TESTED, FROM THE FIELD TO THE LAB.

Rigorous testing is deeply embedded in the design of the ProSTUD® Drywall Framing System. It was developed, evaluated and approved by professionals in the field. The result is a strong, lightweight steel stud with greater limiting heights and increased stiffness.

The system is also backed by comprehensive third-party testing for strength, fire and sound. And now, with data available on the superior corrosion resistance of ClarkDietrich's high-performance DiamondPlus® Coating, the takeaway is clear:

SPECIFYING PROSTUD WITH DIAMONDPLUS COATING GIVES YOU THE FULL CONFIDENCE OF NOT ONLY MEETING CODE, BUT EXCEEDING THE STANDARD.

**GET ALL THE FACTS AND LATEST TESTING DATA AT [CLARKDIETRICHEQ-IQ.COM](http://CLARKDIETRICHEQ-IQ.COM)**



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