

METAL-LITE

and

PERFECT WALL, INC

present



**THE ONLY PATENTED
SYSTEM THAT MEETS
ADA CODE WITH
BRIDGING, BACKING,
AND FIRE-BLOCKING**

P.E. Stamped and U.L. Listed

For more information, please call:

METAL-LITE
Ph: (800) 236-0302
www.metal-lite.net

Perfect Wall, Inc
Ph: (855) 797-3328
www.perfectwall.net

Fax: (931) 277-5805

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3-IN-1 Metal Stud Backing System

Introduction

Retro-fitting for all products that need to meet ADA Codes of 250lbs T and V on existing fire rated walls.

The following steps will guide you through meeting ADA Codes on commercial fire rated walls without using metal studs as backing. This is the only product that can be installed continuously in a straight line.

Step 1 – Marking the wall

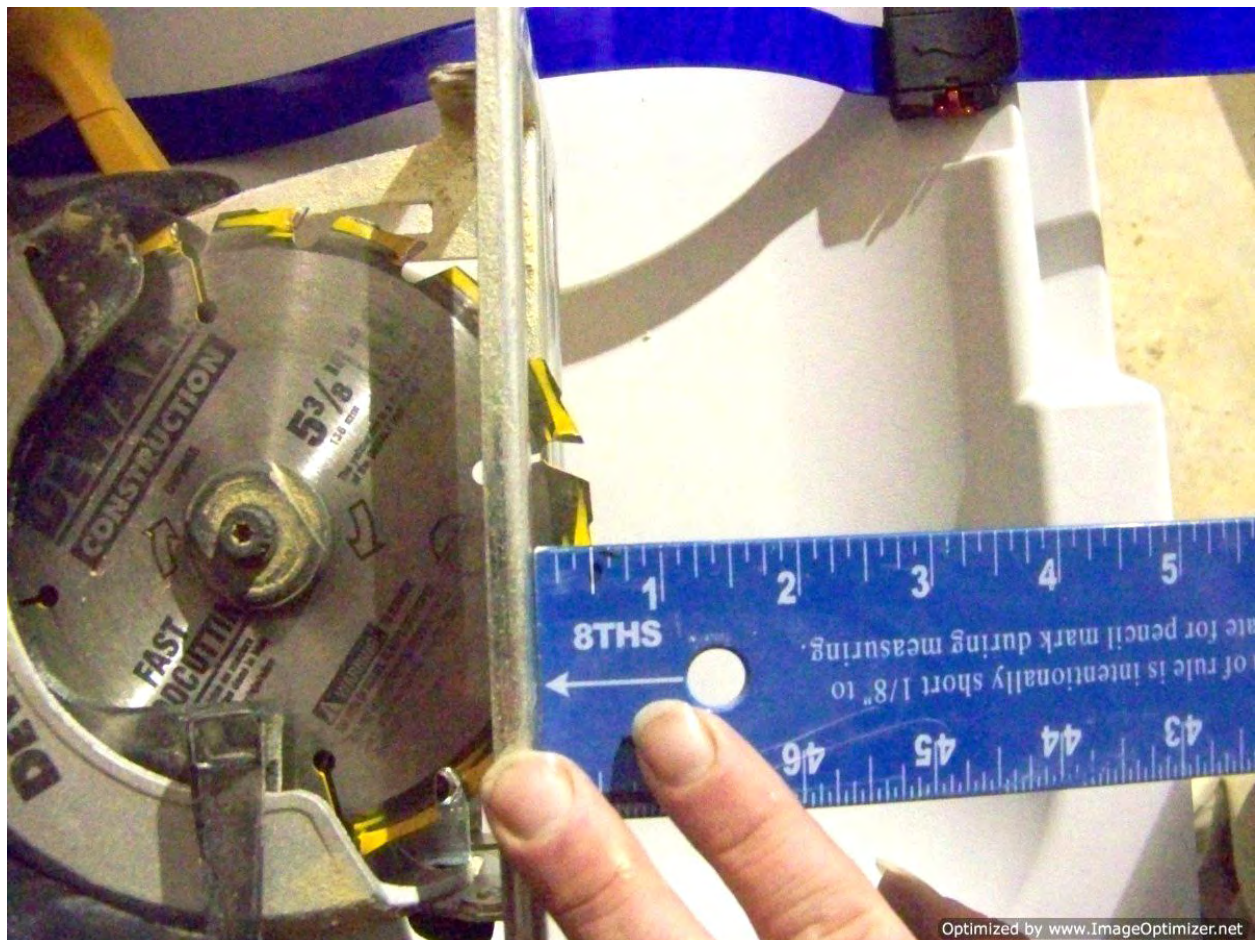
This is a one hour fire rated exterior wall. Using a level or tee square mark the drywall with two lines 20 inches apart and as long as necessary.



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Step 2 – Set saw for cutting

Set your skill saw at 1/2 or 5/8 inch depending on the drywall thickness.



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Step 3 – Cut the drywall

Cut the drywall along both marked lines for the width needed to install the 3-in-1 and attach your wall-mounted product.



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Step 4 – Remove the drywall

Remove the drywall in one piece if possible, and set it aside to reinstall later. If it does not come off in one piece, don't worry.



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Step 5 – View of metal studs

You will now see the metal studs on 16" centers. The opening pictured is 32" wide and 20" high.



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Step 6 – Place 3-in-1 backing

Perfect Wall's patented 3-in-1 system can be installed no matter which way the studs are facing. Here we see the installer placing the 3-in-1 in position between the two metal studs.



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Step 7 – Screw the 3-in-1 into the studs

Using #10 self-tapping screws, simply secure the 3-in-1 into the studs.



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Step 8 – Continue screwing in the 3-in-1

There is no problem getting a drill into the wall cavity to screw the 3-in-1 into the web of the stud.



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Step 9 – Finish mounting 3-in-1

The 3-in-1 is now securely installed on the left stud. An added benefit to the 3-in-1 is that it makes the wall stronger after it's installed.



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Step 10 – Screw in a second 3-in-1

The patented 3-in-1 can be mounted in a straight run as far as needed. The patented design allows the screws to pass each other on every stud.

This allows for customization that has never been achievable until now. The 3-in-1 now gives you backing, bridging, and fire-blocking wherever needed.

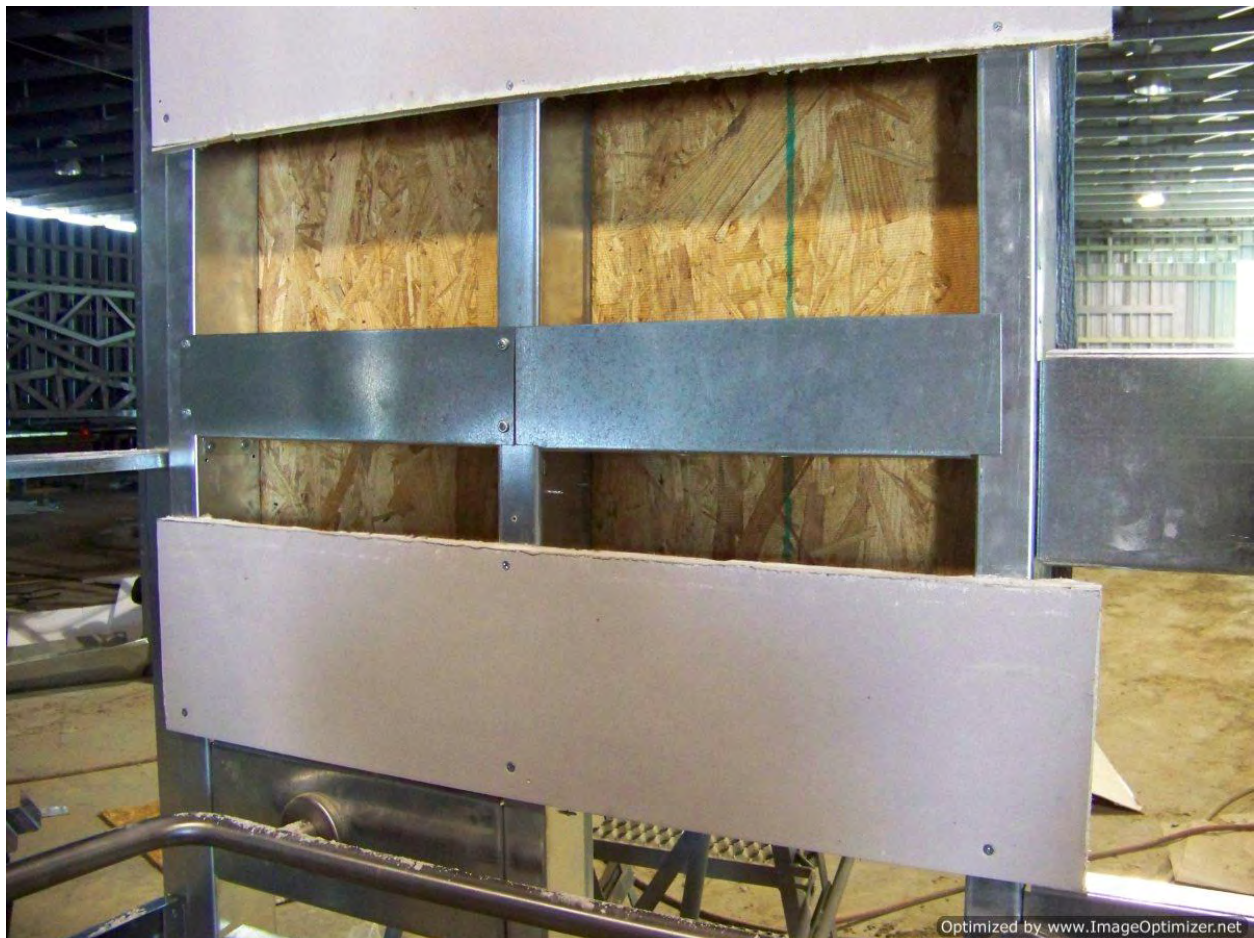


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Step 11 – 3-in-1 installation completed

You now have both 3-in-ones installed in a straight run. Our patented products are the first and only that are capable of being installed in a straight run, because our patented design allows the screws to pass each other on each stud.

In the process, you will save time and money when using this system in commercial settings. Our products allow you to do this while also being the only backing products that are ADA Code Compliant.



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Step 12 – Place drywall back in

Now you may simply place the drywall back to into the opening.



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Step 13 – Screw drywall back into studs

Screw the previously removed drywall section back into the studs.



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Step 14 – Install your wall-mounted product

Once the drywall is screwed back into the studs any product can be attached to the backing ([see drawings](#) on how to install various products using our backing).

Now we will install a grab bar to our 3-in-1 backing system, which is located behind the drywall. Installing to the 3-in-1 allows the wall-mounted product to be ADA Code compliant.



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Step 15 – Finish the wall

After you have installed your wall-mounted product using the 3-in-1 or Flush-Mount System, you are ready to tape and finish your drywall. You're done!



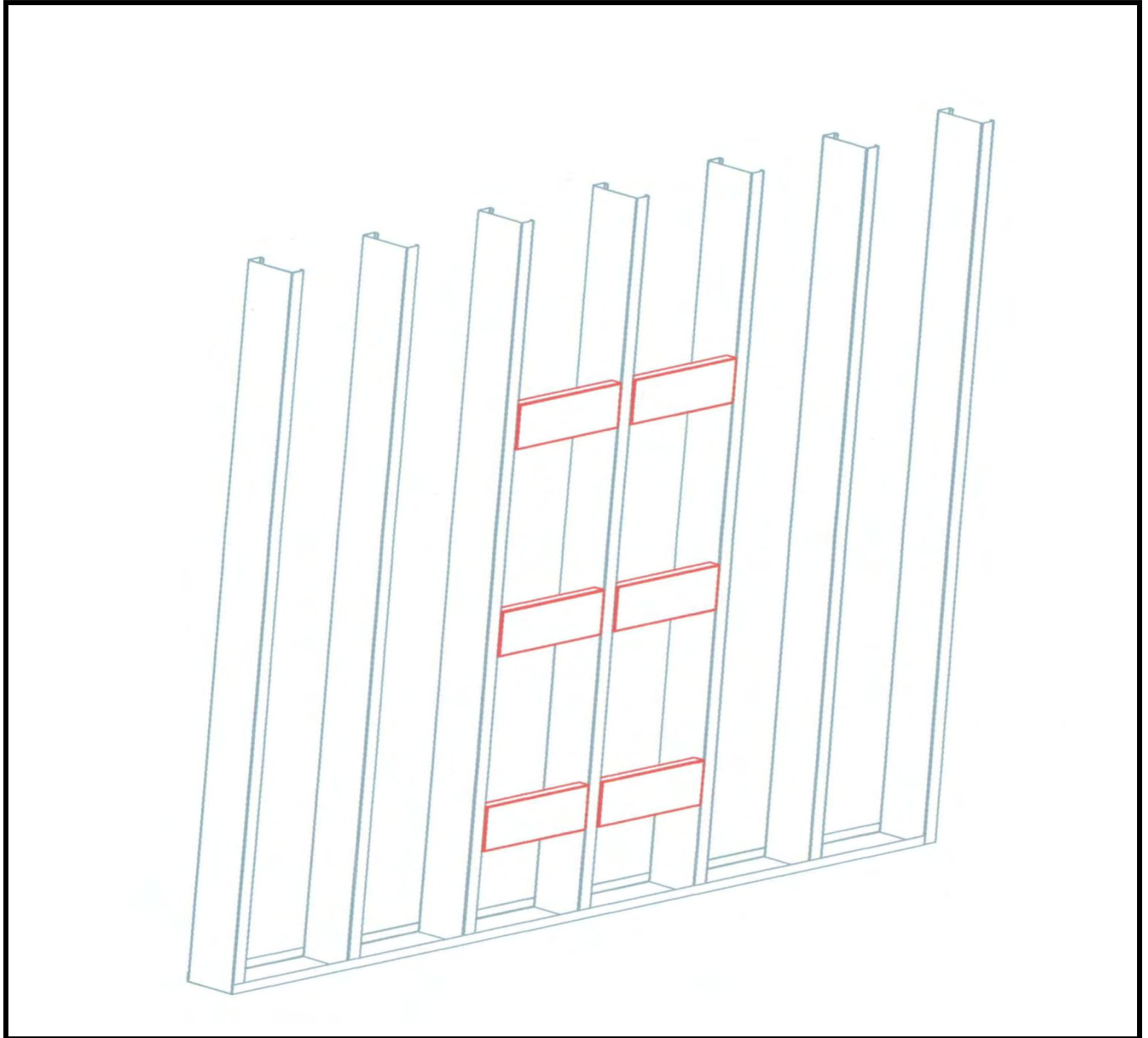
Summary

The 3-in-1 is the only product that has been tested by U.L. in a two hour fire rated wall. Now the installer has a tested product that is P.E. stamped, fire rated, and U.L. listed.

The 3-in-1 is great for retro-fitting commercial buildings or facilities so that the fire rating is maintained. It is also the only system to run continuously in a straight run, while needing only one side of the wall to be opened for easy installation.

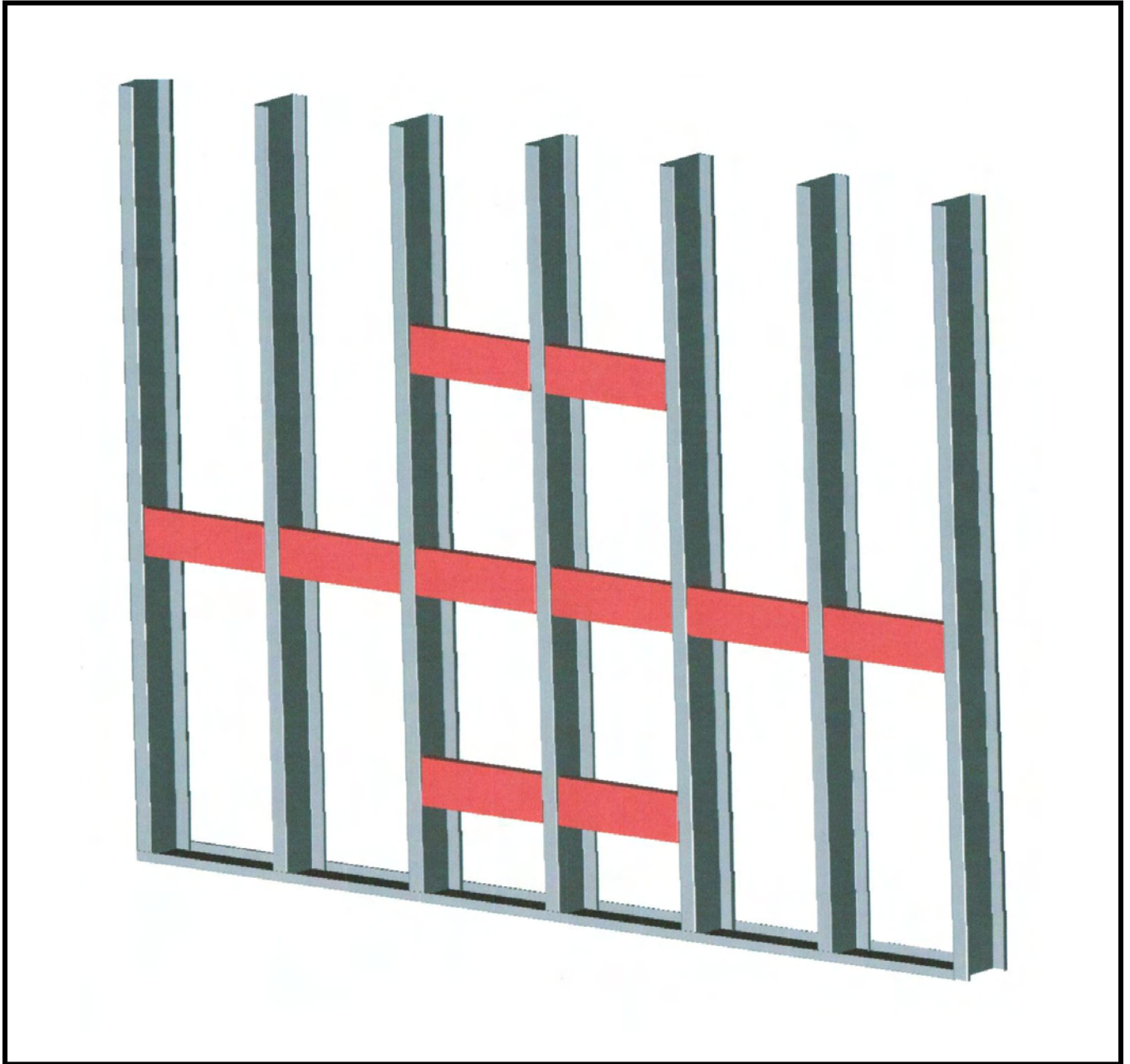
For any questions, **please call Metal-Lite or Perfect Wall** and ask to speak with the inventor of the 3-in-1 System. **Call 1-800-236-0302**

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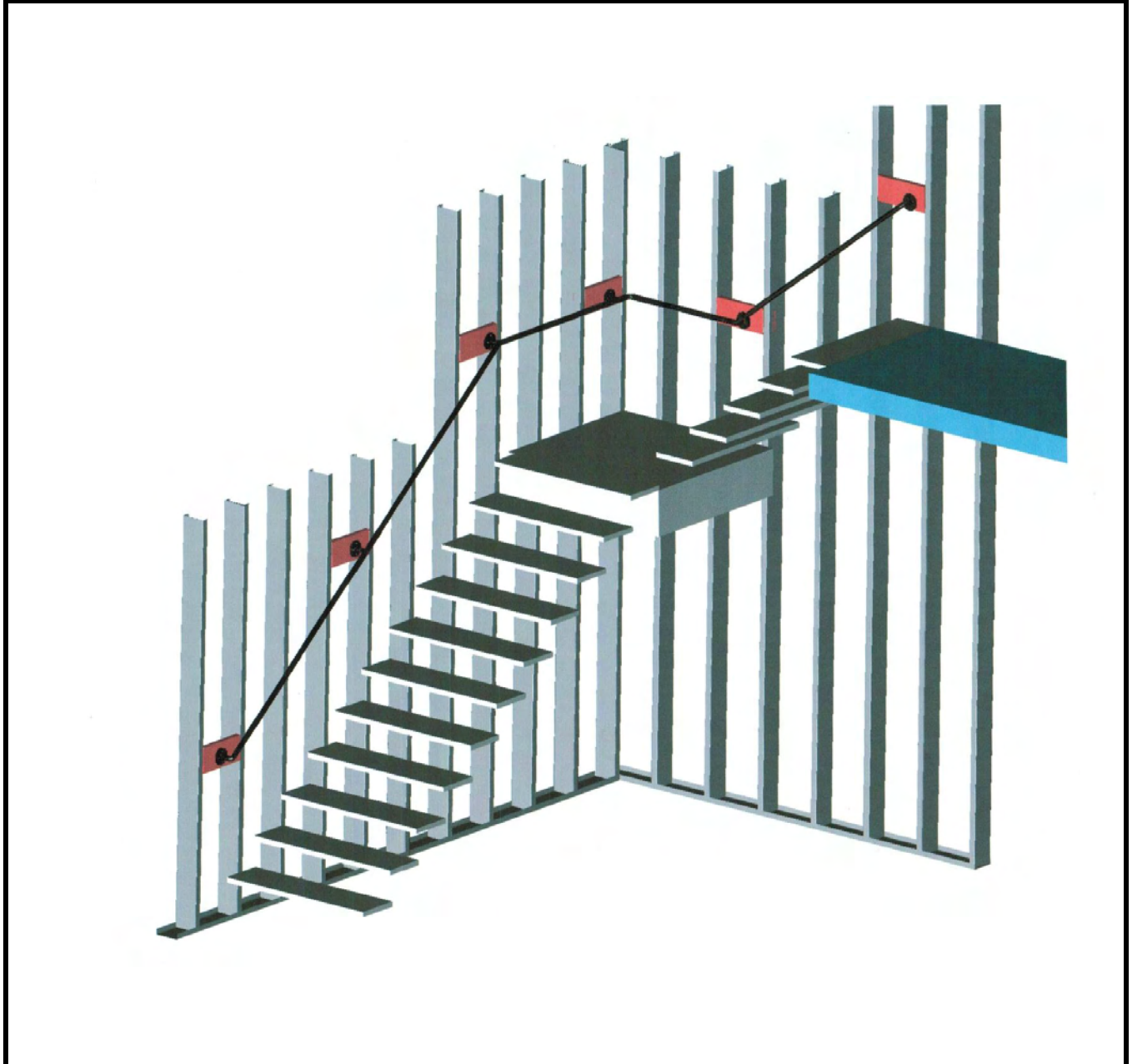
This rendering illustrates the versatility of Metal-Lites patented 3-in-1 backing system that allows your wall mounted applications to be positioned at any location along your wall. Metal-Lite has the only ADA Compliant Backing available. The 3-in-1 can be retro-fitted on existing walls as well.

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Metal-Lite's patented 3-in-1 backing is the only installation solution for continuous handrails that meet ADA and all nationwide code requirements. This backing system can also be used for the installation of individual applications.

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The example above represents the adaptability of Metal-Lites 3-in-1 system. The 3-in-1 can be mounted along both internal and external walls. It can be used in new construction and can also be retro-fitted inside existing walls.