

# The highest-quality materials for your highest satisfaction.

## Unique Formulation HZ5® Substrate

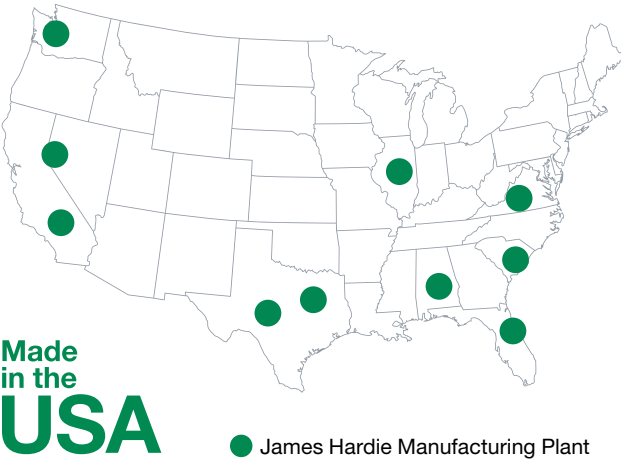
Not all fiber cement is the same. The Hardie® HZ5® product formulation contains the highest-quality raw materials. Our unique formulation, combined with innovative product design and manufacturing processes, creates a substrate that is specifically engineered to resist moisture, cracking, shrinking and swelling, for increased durability and workability.

### Proprietary enhancements create durable Hardie® siding

**Perfect balance of strength and workability**  
Our balance of high-quality Portland cement, sand and cellulose fiber delivers the best combination of strength and workability.

**Enhanced moisture resistance for unmatched durability**  
Patented and proprietary additives are chemically bonded within the HZ5® substrate matrix to provide durable moisture resistance. In addition, Hardie® Plank in HZ5® substrates come with a drip edge to provide improved water management.

**Increased dimensional stability**  
Our siding is engineered at the microscopic level to create a fiber cement composite with superior dimensional stability that helps protect against shrinking and splitting.



### Unmatched investment in manufacturing scale and production innovation

- Largest manufacturer of fiber cement in North America
- Over 7x the North American manufacturing capacity of our nearest fiber cement competitors
- More than 100 process and product quality checks
- Over 95 scientists and engineers in R&D providing dedicated resources for continuous innovation in manufacturing and product development
- More U.S. fiber cement patents than any competitor



STYLES

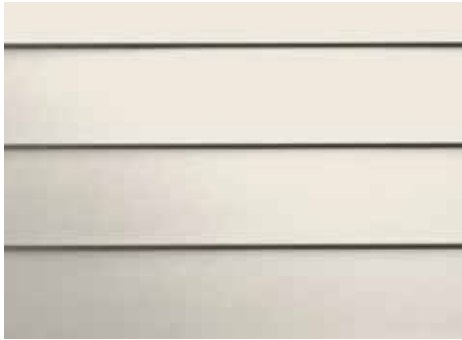
find your perfect mix of exterior products



HARDIE® PANEL  
& HARDIE® TRIM BATTEN



HARDIE® SHINGLE



HARDIE® PLANK



HARDIE® TRIM



HARDIE® SOFFIT

For more detailed product size and availability information,  
visit [jameshardie.com/magnolia](https://jameshardie.com/magnolia).

TEXTURES

choose the texture you prefer



HARDIE® TRIM SMOOTH



HARDIE® SIDING SMOOTH\*



HARDIE® TRIM RUSTIC GRAIN



HARDIE® SIDING SELECT CEDARMILL®\*

\* Textures available for siding and soffit.  
Hardie® Shingle only offered in Select Cedarmill®.

DESIGN *the*  
HOME YOU'VE ALWAYS IMAGINED

Visualize Hardie® products on a 3D model of your home with  
HOVER® Design Studio, brought to you by James Hardie.

Every home tells a story. What will yours be? Start your free design.



VISUALIZE THE COLLECTION ON YOUR HOME

COLORS

select the hue that's right for you



BIRCH TREE



WEATHERED CLIFFS



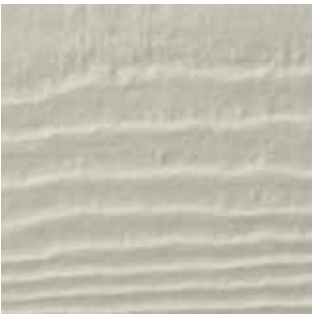
RUSTIC ROAD



RUGGED PATH



IT'S ABOUT THYME



STONE BEACH



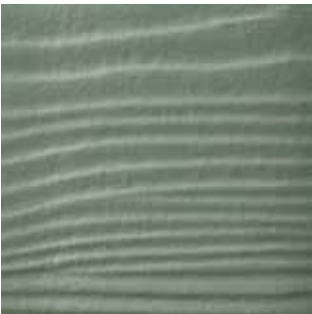
STONE PAVER



WARM CLAY



DRIED EUCALYPTUS



CHISELED GREEN



WANDERING GREEN



MUDFLATS



SLATE STEPS



PEPPERY ASH



LAST EMBERS



MIDNIGHT SOOT

All products in this collection come prefinished with ColorPlus® Technology finishes by James Hardie.









PASSPORT  
SL SERIES





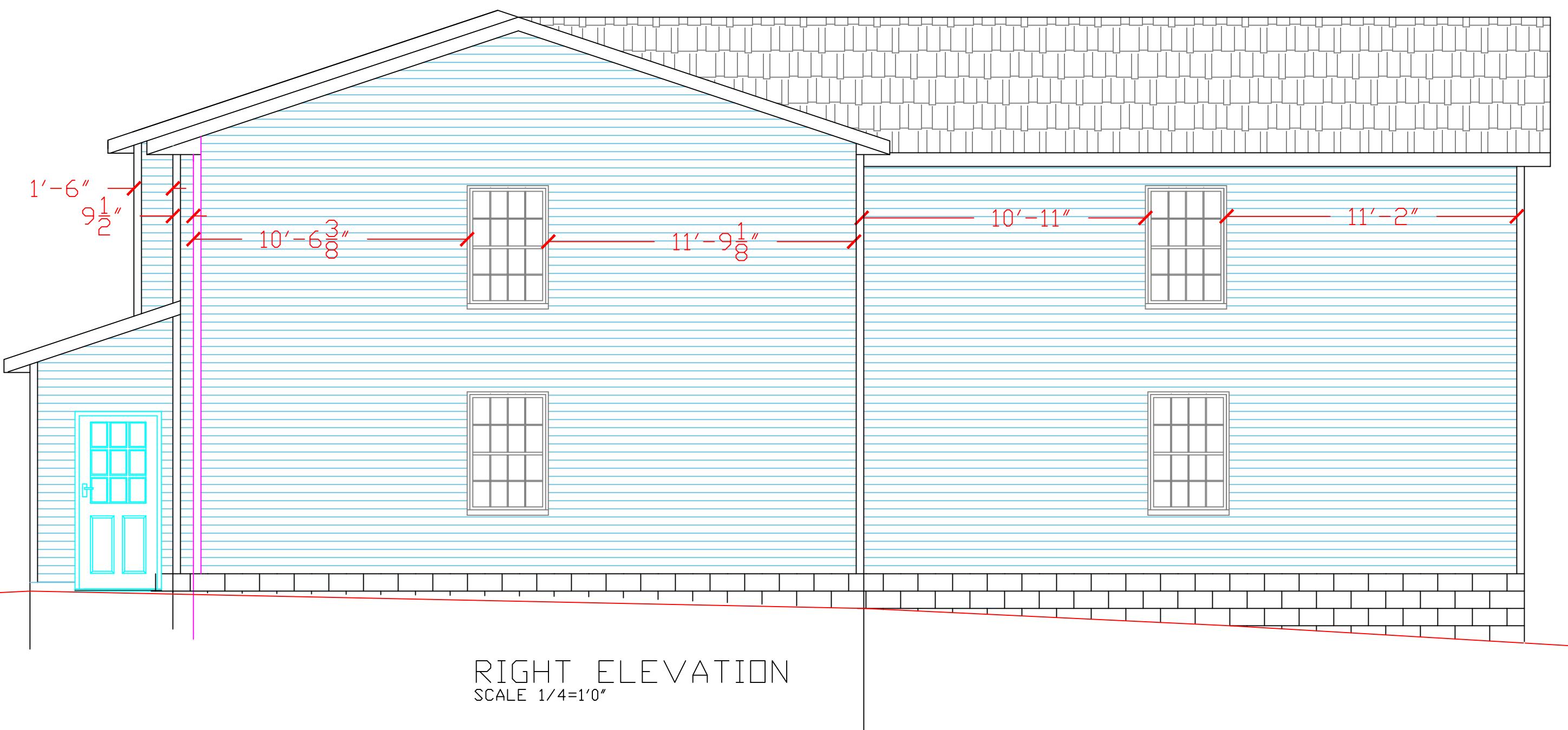
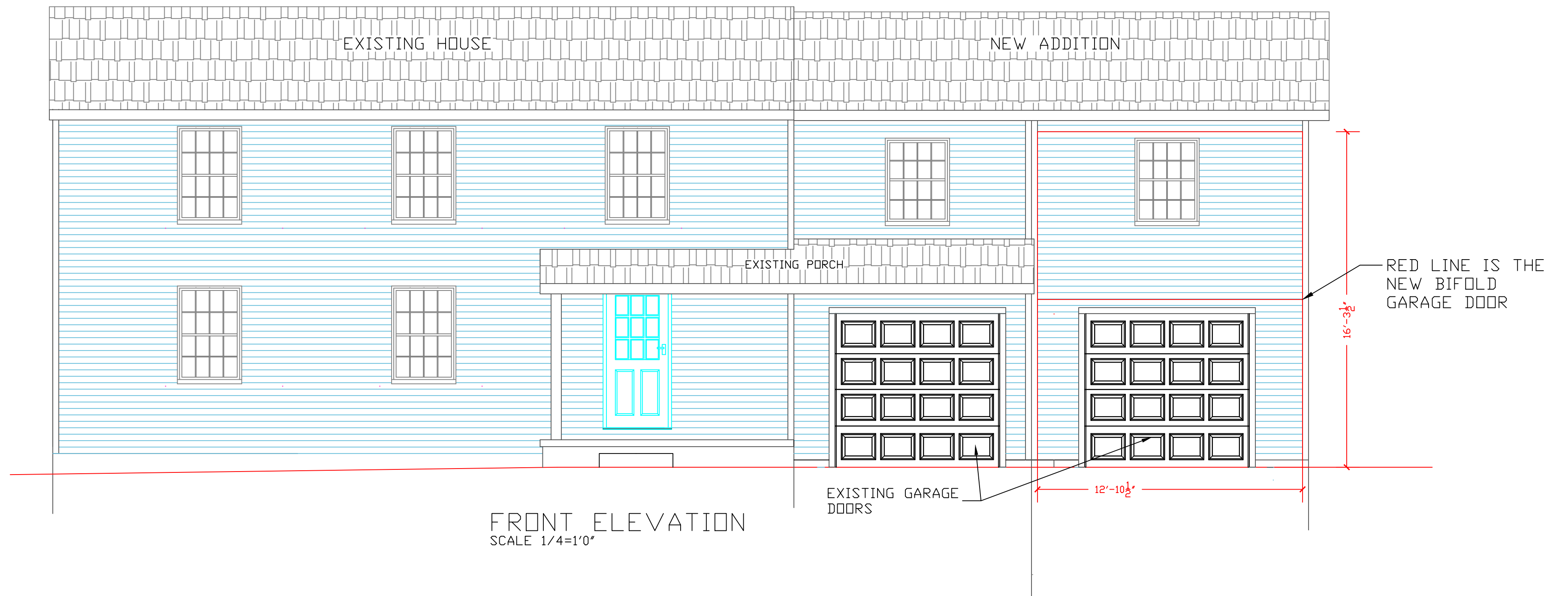












NOTES:

NEW WINDOWS TO MATCH EXISTING AS CLOSE AS POSSIBLE.

TRIM AROUND NEW WINDOWS TO MATCH EXISTING.

REMOVE AND REPLACE ALL ROOF SHINGLES

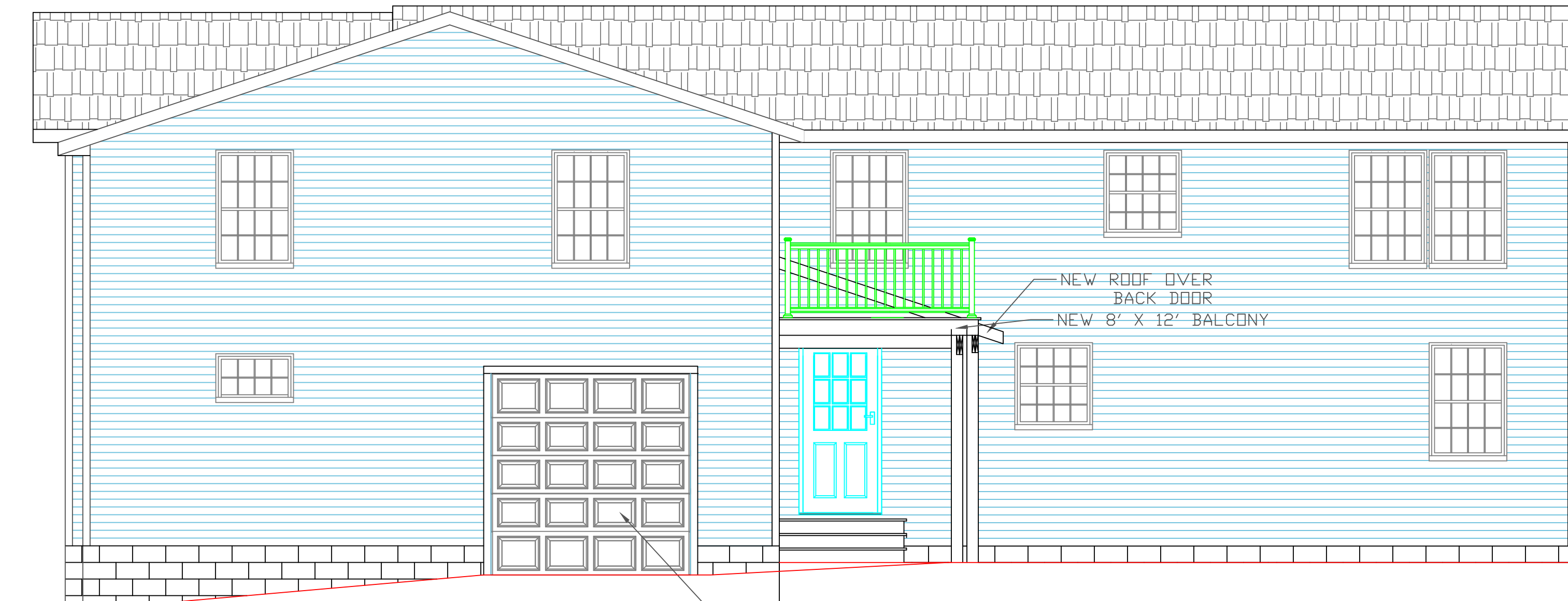
SIDING OPTIONS

OPTION 1  
INSTALL JAMES HARDIE FIBER CEMENT SIDING EXPOSURE TO MATCH EXISTING ON THE NEW ADDITION. AND PAINT ENTIRE HOUSE.

OPTION 2  
INSTALL JAMES HARDIE FIBER CEMENT SIDING, EXPOSURE TO MATCH EXISTING, ON THE FRONT FACADE OF THE EXISTING HOUSE AND NEW ADDITION. AND PAINT ENTIRE HOUSE.

ADDITION FOR THE RAGGETS, RESIDENT 1727 MAYFLOWER LN HUDSON, OHIO		
SCALE	1/4" = 1'0"	DRAWN BY JEFF RAGGETS
DRAWING NUMBER		1 OF 6

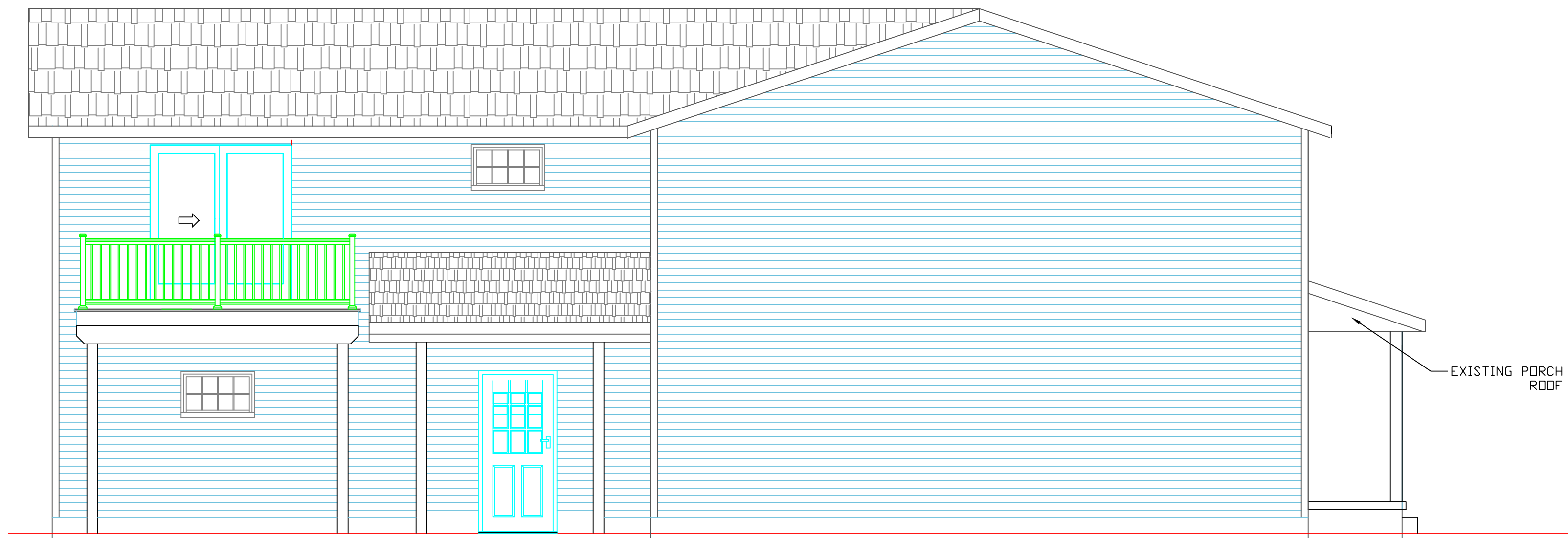




REAR ELEVATION  
SCALE 1/4"=1'0"

8' X 8' WHITE  
RAISED PANEL DOOR

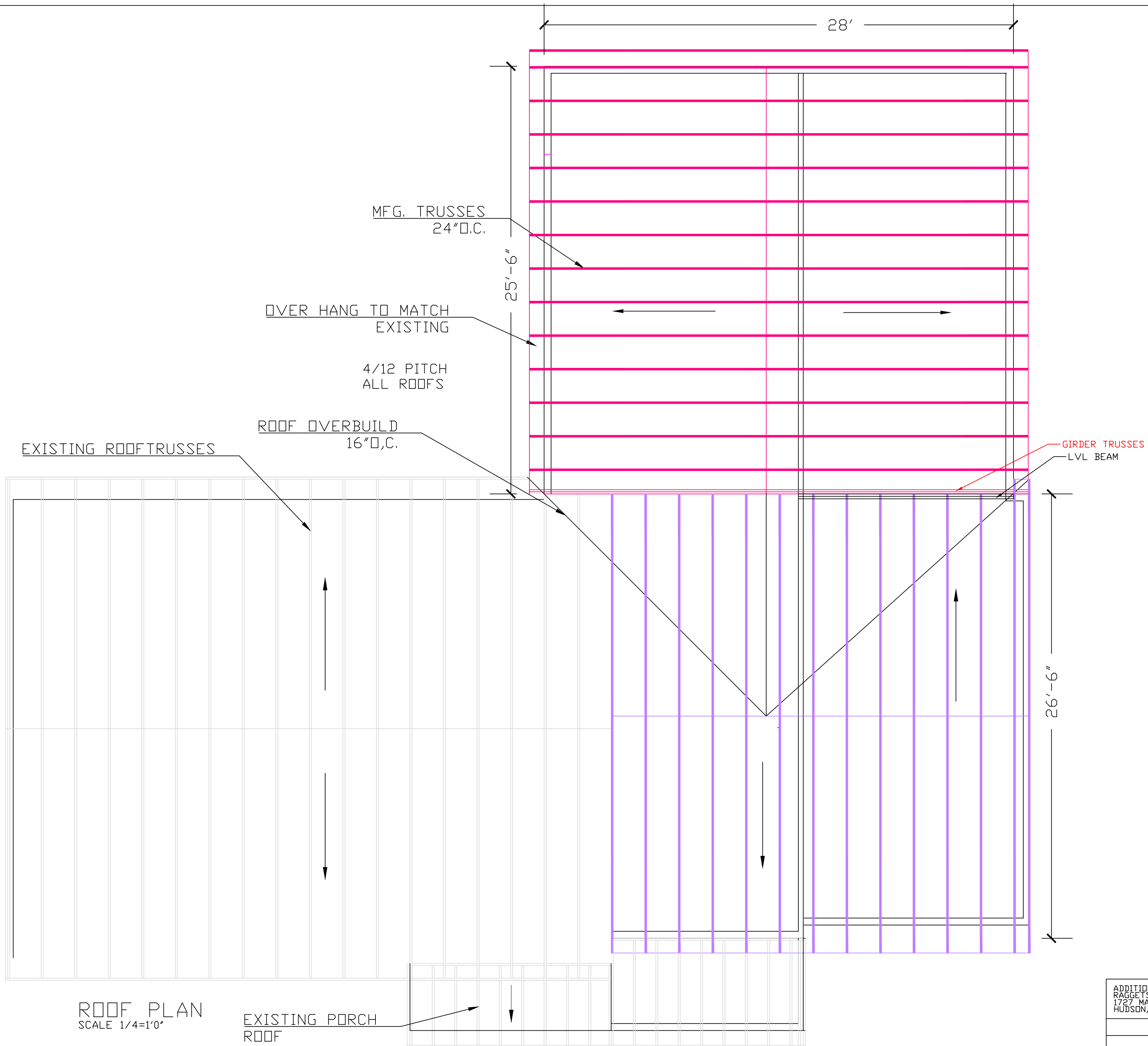
NEW ROOF OVER  
BACK DOOR  
NEW 8' X 12' BALCONY



LEFT ELEVATION  
SCALE 1/4"=1'0"

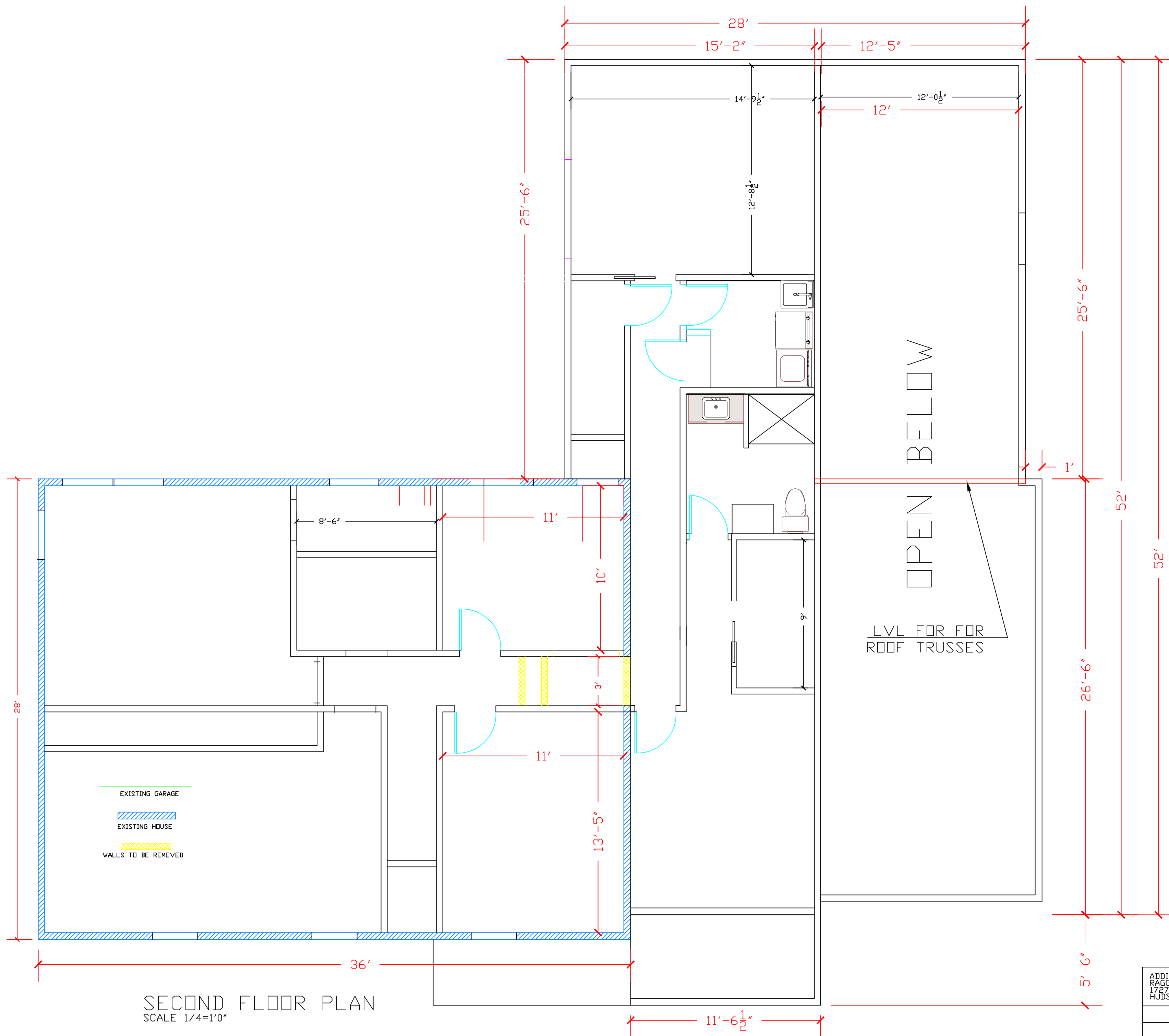
ADDITION FOR THE RAGGETS RESIDENT 1727 MAYFLOWER LN HUDSON, OHIO		
SCALE	1/4" = 1'0"	DRAWN BY JEFF RAGGETS
DRAWING NUMBER 1 OF 6		





ADDITION FOR THE RAGGETS RESIDENT 1727 MAYFLOWER LN HUDSON, OHIO		
SCALE	1/4"=1'0"	DRAWN BY JEFF RAGGETS
		DRAWING NUMBER





SECOND FLOOR PLAN  
SCALE 1/4"=1'0"

ADDITION FOR THE RAGGETTS RESIDENT 1727 MAYFLOWER LN HUDSON, OHIO		
SCALE	1/4" = 1'0"	DRAWN BY JEFF RAGGETTS
		DRAWING NUMBER



# PHOTO OF THE DAY

HAPPY CUSTOMERS SHARING THEIR STORIES WITH YOU!

[MUST SEE PHOTO HOMEPAGE](#)[NEXT](#)[BACK TO BIFOLD.COM](#)

## RV Bifold garage door was built for performance, designed for style and meeting zoning restrictions



With the bifold door in the closed position you can't tell where the fold is or where the door seams are on each side. This 16' door appears to be only 8' tall, good enough to pass city zoning ordinance restrictions.

Most large recreational vehicles (RVs) exceed 12 ft. in height, so in order to garage them you need a tall and fairly wide door. Schweiss Doors has handled many requests for bifold doors to fit these needs. In some cases, in order to



get around zoning restrictions that don't allow the look of these tall doors, the exterior cladding and design on them can be configured to make a door appear half the size that it actually is and make it blend in with the rest of the home or garage.

Jay Hare works as a partner in the prestigious accounting firm of PricewaterhouseCoopers in Minneapolis. He and his wife, Kathy, of North Oaks, a suburb of St. Paul, Minn., did have to deal with zoning restrictions on their garage door, but with the assistance of Schweiss Doors they were able to work around them. The finished look on their 12' x 16' RV bifold autolatch liftstrap door with remote opener and photo eye sensors gives them a clear opening of 14' but gives the outward appearance of a door half that size in height.

Schweiss Doors features many stories on its "Must See Photo"; bifold door website. One particular story that Kathy in her research happened upon was the Schweiss bifold RV door owned by Herb Korthuis that was designed to address uniformity code zoning restrictions on his home in Lynden, Washington.

The Hares' decided to see that door firsthand while on a trip and took time to visit with [Korthuis](#).

"We were actually out in Seattle visiting friends and went out and saw Herb. He was quite open to giving us a tour of the garage and a demonstration. Armed with additional photos and a video we went back to our builder and with very similar restrictions as Herb had, we were able to get it approved by an architectural review committee - a picture is worth a thousand words and a video is worth a million," explained Hare.

RVing is a big part of the Hare's life. They recently sold their 2006 Mountain Aire RV and will be getting another soon. They've visited all 48 states in their RV on family trips.

0:00 / 1:36

"We used an uninsulated garage door to clad the bottom (outdoor) half of the door and LP Smart Siding on the upper half with insulation in the middle of it and then used a plywood backing to sandwich it in on the inside and then painted it white," said Hare.

"You guys have so many different applications on your Schweiss website. We essentially copied Herb Korthuis with his permission and input. Having that story and picture and the owner willing to share his story with us really helped us come up with what we needed to do with our house. Your website offers a real service for people looking for unique ideas for openings," noted Hare.

He went on to explain that many RV owners have to place their expensive coaches in storage or leave it outside in unfriendly weather where they don't want to. Prior to building his home and garage he stored his coach two hours away and now is very happy to have it handy for staging and servicing. His wife calls it the marriage preservation mancave because Jay likes to spend time out there tinkering.





**An uninsulated conventional garage door was used to clad the bottom (outdoor) half of the door using LP Smart Siding on the upper half with insulation in the middle of it. Plywood backing sandwiched the insulation on the inside and then it was**



Painted white.

"I like the strength and durability of the door and what looks like a car garage door that opens and folds in half to make room for the RV," said Hare. "We have all the conveniences of a regular door. The remote feature lets us pull up, hit the button, back in; just like parking a car. Without the Schweiss door we wouldn't have been able to build it. To tell you the truth, we kind of built the house around the rest of the garage. The door is high quality and should hold up for many years."

One point he wanted to share with other RV owners looking to get a similar door is that RVs by law can't be wider than 8.5', however, the mirrors can stick out from that to about 10' so you want to make your garage door wide enough to accommodate the mirrors on each side. He said his automatic latches work fine but are close to the mirrors, giving him about three inches of clearance on either mirror. (Automatic latches reduce the functional width of his 12-foot door to a little over 10 feet.)

The mirrors on his new coach are about one foot higher and will probably stick up above the latches. So the footnote for someone putting in a garage door is to consider the flexibility of where the latches will go relative to the location of the mirrors on their RV.

Other tips he mentioned is to get the sightings and roof lines to work together and make sure the builder knows how to beef up the building to accept the weight of the door.

Hare said they initially made a few phone calls to Schweiss Doors to get things started and then they basically turned the contact information over to their builder, Accent Homes, Inc. of Ham Lake, Minn.

Bud Dropps, Owner and President of Accent Homes, said building a garage for this door did present some challenges.

"Our main challenge was when Jay first came to me saying he wanted to put an RV garage in the association maintained exclusive area of North Oaks. I said there's very little chance we'll ever get that passed through the architectural committee. I was able to talk to another builder in Washington State that had done about the same thing."

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*"I like the strength and durability of the door and what looks like a car garage that opens and folds in half to make room for the RV. We have all the conveniences of a regular door. The remote feature lets us pull up, hit the button, back in; just like parking a car. Without the Schweiss door we wouldn't have been able to build it. To tell you the truth, we kind of built the house around the rest of the garage. The door is high quality and should hold up for many years."*

**- Jay Hare**  
North Oaks, Minn.

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He said that before the door was put in there was a very large opening that caught the attention of the other residents who may have assumed that this was the finished opening size, but once the Schweiss door was installed and the false garage door was applied to the exterior along with the siding it now looks like a regular garage door for cars.

"Once I had pictures of it and a video of how it actually worked then it passed the architectural control committee; it's all about the facade out there, it has to look right. It was fun, it was challenging; I've been building houses and RV garages for 40 years and never done anything that remotely resembled that. All in all it turned out great. They love it and I think the door is awesome."

Dropps said it was also helpful to obtain some drawings from Schweiss Doors and said he consulted an engineer who recommended to use steel to ensure that the building's structural design would be capable of handling all the imposed loads that the door exerts on the door header, endwall and building.





Looking at the home of Jay and Kathy Hare you wouldn't know that the garage door on the far right actually has a 12'x16' tall bifold door on it that opens to house their RV coach. Zoning Uniformity Code regulations in this Minnesota neighborhood precluded having a garage door that shows its actual height.

### **Accent Homes Inc.**

Accent Homes of Ham Lake, Minn. has been building and designing custom homes in the Twin Cities area of Minneapolis and St. Paul for over 40 years. In that time they have evolved into a small, design-centric firm, building one-of-a-kind custom homes.

Building runs deep in their history, they are a family-run company, and a fourth-generation builder. Owner, Bud Dropps, proudly displays a framed photo in his office of his great-grandfather on the job in the early 20th century. Over the years their focus has remained building beautiful custom homes, tailored to their clients styles and lifestyles. Since 2012 they've also been building vintage inspired two-story bungalows on vacant lots. They have been honored more than 30 times with industry awards and accolades for excellence in design and construction, including 13 Reggie Awards of excellence.

Accent Homes is located at 13739 Lincoln Street NE, Ham Lake, MN 55304. Phone: [763-784-6013](tel:763-784-6013).



Bifold garage door inside view



Here you can see how the eave over the Bifold door lifts nicely toward the peak of the garage.

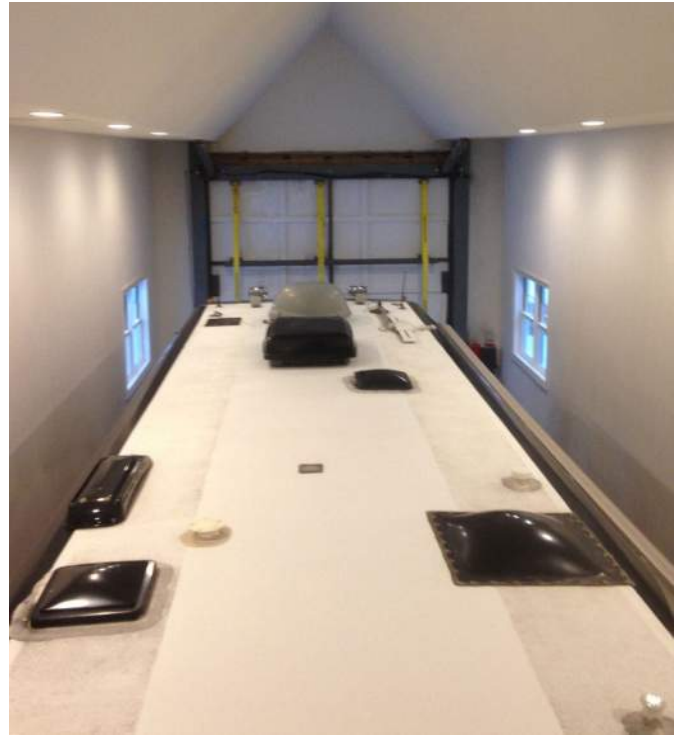


With no loss of headroom and some to spare, the 16' tall clear opening is big enough for even the largest RV to drive in and out.





Jay and Kathy Hare are ready to take to the open road. Jay mentioned that if you are planning on a RV door, make allowances in width that will give your RV mirrors adequate clearance.



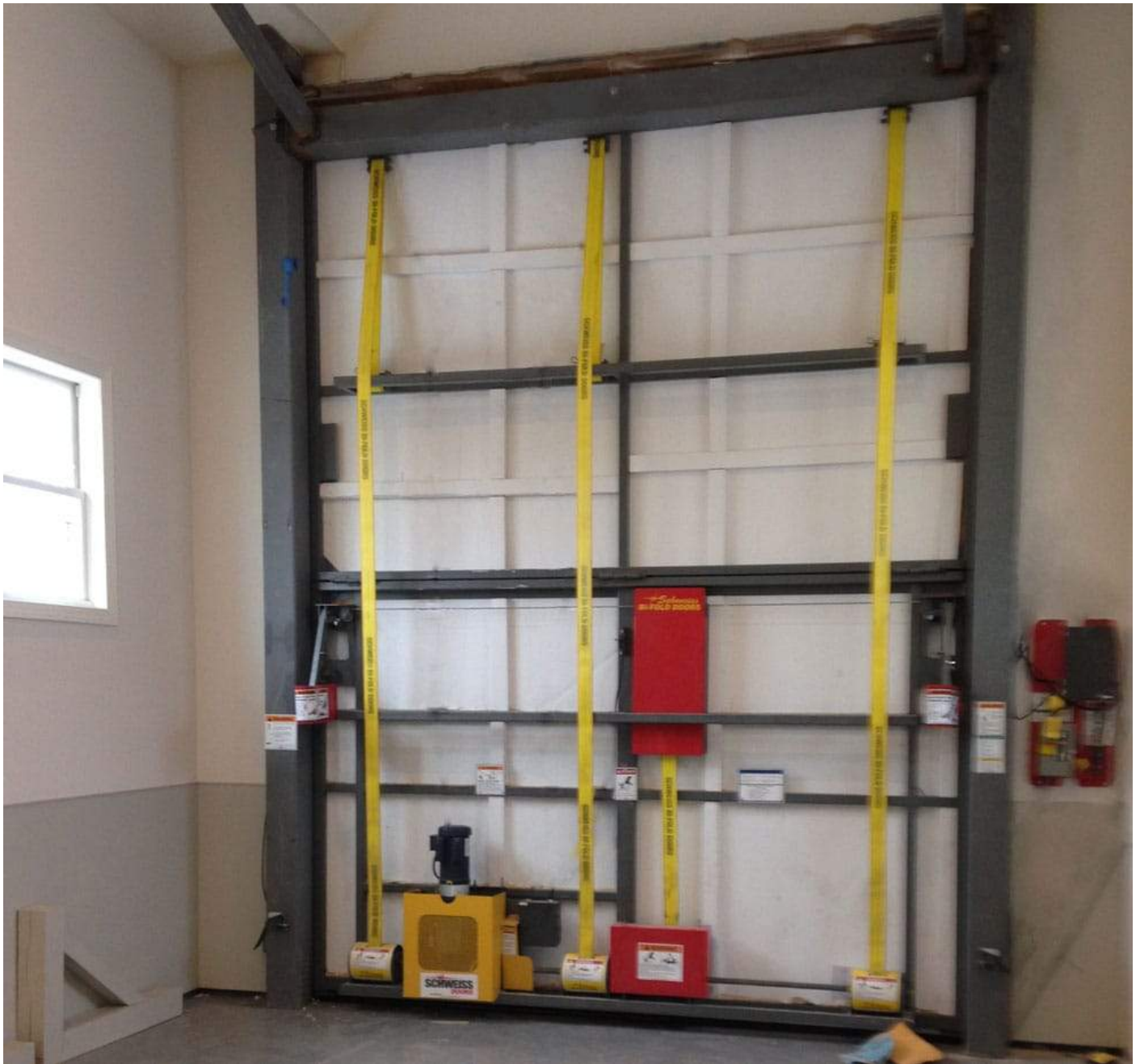
An RV rooftop view of the 12' wide x 16' tall Bifold door with a clear opening height of 14' provides ample headroom for even the largest RVs.





**When partially open you can easily see where the door bends in the middle. An eave was placed on the upper portion of the bifold door to match the rooflines of the home.**





Three strong liftstraps and a heavy-duty bottom-drive motor lift the RV door quickly and quietly. The shorter strap in the middle is connected to the automatic latch system.

#### NEXT



#### RV Bifold garage door was built for performance, designed for style and meeting zoning restrictions

Jay Hare and his wife, Kathy, of North Oaks, a suburb of St. Paul, Minn., had to deal with zoning restrictions on their RV garage door, but with the assistance of Schweiss Doors they were able to work around them. The finished look on their 12' x 16' RV bifold autolatch liftstrap door with remote opener and photo eye sensors gives them a clear opening of 14' but gives the outward appearance of a door half that size in height.

[Read More And See A Lot More](#)



#### Texas aviation high school opens to new type of education with a 49' Schweiss aluminum bifold door

Ross Shaw Sterling Aviation School in Houston, Texas had this 49' 6" x 20' 2" Schweiss bifold liftstrap door placed on its new attached hangar. The custom-made aluminum frame door has galvanized windrails and siderails and a keyed switch entry system.

[Read More And See A Lot More](#)





#### **Unique Schweiss glass bifold doors open new Kings stadium entrance**

Schweiss Doors engineered and built five one of a kind bifold strap latch doors to be used at the stadium entrance. Three of these doors measured 29' x 41'5" and the other two were 29'4" x 41' 5". Each door is lifted by three 5 h.p. motors and the liftstraps are 6" width, compared to the usual 3" width. The doors, with glass, weigh in at about 28,000 lbs. each.

**[Read More And See A Lot More](#)**



#### **Larry Robbins is a pilot living the dream**

Like many young boys dreaming to be licensed pilots, Larry Robbins remembers at the age of six or seven scooting out the front screen door of his parents central Illinois farm house where he grew up to get an overhead glimpse of any and all planes that came within earshot. His love of aviation led him to pursuing a career as an Aeronautical Engineer and his latest job with Bojac Aviation Services.

**[Read More And See A Lot More](#)**



#### **Canadian Forces military base calls on Schweiss for hydraulic and bifold doors**

Supplying doors for military bases is nothing new for Schweiss Doors, they've been doing it for years. Although Canadian Forces Base Borden didn't have a need for specialty blastproof doors like other military establishments, a recent building expansion project for its training school called for the use of Schweiss hydraulic and bifold liftstrap doors.

**[Read More And See A Lot More](#)**



#### **U of M physics building has clean room access with a Schweiss bifold door**

Star Equipment of Blaine, MN was in charge of installing a 19' 11" x 22' 8" tall Schweiss bifold liftstrap door with automatic latches and electric photo eye sensors on the physics building. The specially designed door has a rather unique application of wide glass panels at the top that nearly surround it all the way to the man door alongside it. This allows as much natural light as possible to enter the building without it being an all-glass clad door. Strong black liftstraps and two top-drive motors open the door quickly and quietly.

**[Read More And See A Lot More](#)**



#### **Federales Mexican restaurant in Chicago features a fully retractable roof and Schweiss bifold doors**

Nothing says summer like tacos and tequila. Chicago's newest sprawling Federales Tequila & Tacos restaurant and bar in the West Loop offers plenty of both. Inspired by Mexico's roadside taco joints, Federales specializes in barbacoa-style tacos, starring such slow-cooked meats as pork belly al pastor and shredded beef brisket, served with warm corn or flour tortillas and taco trimmings. It truly has a vacation atmosphere featuring a fully retractable roof and two Schweiss bifold liftstrap 14' 3" x 14' 8" designer doors that open to beer garden.

**[Read More And See A Lot More](#)**



#### **Hangar with Schweiss bifold door has look of Texas flare**

Who needs Europe? Fredericksburg, Texas in the Texas Hill Country, west of Austin and north of San Antonio, might be the next best thing to crossing the Atlantic. The region is lush, colorful and, unlike much of the pancake-flat state, dotted with beautiful green hills that are evocative of Tuscany or the south of France. Towns like Fredericksburg offer a taste of the Old World, with German-style biergartens, schnitzelhauser and a lot of wineries.

**[Read More And See A Lot More](#)**



#### **Big 70-foot hydraulic door opens Tennessee jet hangar**

With nine locations in Tennessee and Mississippi Dr. Ron Bingham has an interesting business model requiring aircraft from his hangar in Jackson, Tennessee to visit his satellite clinics in rural areas.

**[Read More And See A Lot More](#)**



#### **Cubex in Calgary installs eight bifold doors**

Cubex Limited of Calgary, Alberta, Canada is a busy fabrication business that underwent an extensive renovation project in order to get the best use out of their building. To do this they virtually knocked out several portions of one side of the building adding eight Schweiss bifold/liftstrap doors for easy access.

**[Read More And See A Lot More](#)**



#### **Pennsylvania hydraulic garage door has touch of class and a beautiful view**

It's very satisfying for a business to hear from a client who mentions sincerely that he or she was equally satisfied with the service rendered as well as the product itself. It's been a highlight for Brian who says one of the best things about his new Schweiss hydraulic garage door is hearing favorable comments from people who see it.

**[Read More And See A Lot More](#)**





### **Fast Fab erects CAID Industries Mid-West Structure of the year**

CAID Industries called on Fast Fab Erectors, Inc. of Tucson, Arizona to do the design and building work for their new Tucson, Arizona facility, featuring metal products from Mid-West Steel Building Company. Part of the construction called for two large Schweiss hydraulic crane doors. A 30-ton crane has a lot of lifting power, but in many cases, it needs a door system to effectively do its job.

**[Read More And See A Lot More](#)**



### **Glass bifold designer door serves California church expansion plans well**

The Father's House church is listed at the top spot as one of the best 10 churches in Vacaville, California. It has shown amazing congregational and building expansion growth under the direction of founding Pastors Dave and Donna Patterson. The church was opened for worship in 1997 and has grown from a handful of families to thousands of attendees at multiple campuses in Vacaville, Napa and East Bay. The three locations are all within 40 minutes or less of each other.

**[Read More And See A Lot More](#)**



### **Southern California Institute of Architecture selects bifold glass doors for new building**

SCI-Arc in Los Angeles, California, is an independent, non-profit school offering undergraduate and graduate degrees in architecture. It offers community design and outreach programs, and free public access to frequent exhibitions and lectures by leading thinkers in architecture. Founded in 1972, SCI-Arc is widely regarded as one of the most avant-garde U.S. architecture schools, with a reputation for pushing the boundaries of academic study.

**[Read More And See A Lot More](#)**



### **Modern Winnipeg home highlighted by pine-clad bifold garage doors**

A lot of planning goes into new home construction. Tom Struthers of Winnipeg, Canada extended his attention to detail right down to his garages. The Schweiss Bifold liftstrap garage doors have an enhanced appearance utilizing a vertical pine wood exterior to highlight each of his three doors.

**[Read More And See A Lot More](#)**



### **A 'tall order' was a cinch for Equal Door Industries and Alberta E-House, Inc.**

Equal Door Industries of Calgary, Alberta, Canada and Schweiss Doors have been in business for many years and together they have received custom orders for doors of all sizes.

**[Read More And See A Lot More](#)**



### **Princeton University Energy Plant has Schweiss bifold Chiller Building doors**

Princeton University in New Jersey is a place where you can find a lot of very smart people, young and old. Apparently the administration relied on its research when it decided to choose top of the line Schweiss Doors for its new Energy Plant building. The Princeton Energy Plant is a district energy facility that provides electricity, steam, and chilled water to power, heat, and cool the buildings on the Princeton University campus. The creation of the plant and the continuous refinement of its operation have had a very positive impact on Princeton's carbon footprint.

**[Read More And See A Lot More](#)**



### **Barrel & Bushel restaurant and bar opens up to outside patrons with Schweiss bifold glass doors**

When Barrel & Bushel, a new beer-centric restaurant at Tysons Corner, Virginia says 'Handcrafted Just for You,' they are referring to more than their location, extensive menu and beverage list, but also to the upscale surroundings in which you can enjoy a place to relax and visit.

**[Read More And See A Lot More](#)**



### **Alberta, Canada hangar shines like a brand new penny.**

If you think the exterior of Gary Acheson's Alberta, Canada hangar looks slick and clean, you ought to see the inside- it sparkles. Acheson and his family who own a custom home building business, finished building their new 6,000 sq. ft, wood hangar located at the Villeneuve Airport located at St. Albert, a community of 64,000 residents about 6.5 miles (10 km) north of Edmonton in May of this year.

**[Read More And See A Lot More](#)**



### **American Institute of Architects chooses a Schweiss designer door for use in new Atlanta Headquarters**

For more than 150 years the American Institute of Architects (AIA) has served as the voice of the architecture profession and a resource to its members in service to society. Chartered in 1953, AIA Georgia consists of close to 2,000 members distributed over seven local chapters. AIA serves as the voice of the architecture profession and a resource to its members. The vision of the American Institute of Architects and AIA Atlanta and Georgia is Driving Positive Change through the Power of Design.

**[Read More And See A Lot More](#)**





### **Schweiss Doors looks to MJ Kretsinger Digital Agency.**

The driving force behind a successful business depends a lot on marketing. Getting the word out in a clean, well understood and concise manner to potential clients that will prove from a marketing standpoint that you are a brand name company qualified to meet all their needs. The end result gives a customer the best product on the market for them to buy or recommend by word of mouth to their friends and other business acquaintances is paramount.

**[Read More And See A Lot More](#)**



### **All about doors... Big Doors**

Mike Schweiss, of Hector, Minnesota, is one focused individual. Rather than devoting time and energy to a wide variety of activities and undertakings, Mike finds fulfillment in two areas of interest - doors and horses. From his point of view, everything else is pretty much a diversion. It's been that way for much of his adult life.

**[Read More And See A Lot More](#)**



### **Tennessee turntable hangar has two 48 ft. Schweiss bifold doors**

Rogers, who has instrument and multi-engine ratings and a Commercial Pilot Certificate, has been flying for over a decade and for the past five years in his Piper Malibu Matrix, said he and his wife, Connie, who earned her Private Pilot Certificate this year, wanted a vacation home getaway. They especially wanted a place where they could spend time with fellow aviators and where they could live closer to their airplane. The solution to that was building a new home at Big South Airpark located in Oneida, a town in Scott County, Tennessee, less than 10 miles from the Kentucky border.

**[Read More And See A Lot More](#)**



### **Pilot and wife live the Alaska airventure dream**

If you want to stop in for a great meal, enjoy authentic Irish atmosphere, and choose from a selection of 36 draft Irish and English beer selections you don't have to go all the way to Ireland to do so. You'll find this all at the Blarney Stone Irish Pub in West Fargo, N.D. It features a Stone Courtyard Bar area that seats 70 people with three 19'4" x 7'11" bifold glass doors that can be opened in nice weather, rain or shine. Connected to the Courtyard is a patio area that seats another 60 people.

**[Read More And See A Lot More](#)**



### **Blarney Stone Irish Pub customers of West Fargo love its three glass bifold designer doors**

He currently has a 1966 Cessna 180H on big tires; a 1975 Cessna A185F on Aerocet floats in the summer and Landes Hydraulic Wheel Skis in winter; and a 1964 PA-30 Turbo Twin Comanche. He currently has a 1966 Cessna 180H on big tires; a 1975 Cessna A185F on Aerocet floats in the summer and Landes Hydraulic Wheel Skis in winter; and a 1964 PA-30 Turbo Twin Comanche.

**[Read More And See A Lot More](#)**



### **Tom Green's 'star-shaped' Michigan hangar home is designed for optimum use**

From the air you can see that Green's hangar home is shaped like a big star. Green said he likes the Schweiss hydraulic doors because they operate smoothly and open up about 90 degrees. They allow his planes to go in easily and will accept even bigger planes to enter his hangar. Green is a money manager and financial advisor for Morgan Stanley in Flint, Michigan. He flies mainly for pleasure now, but over the years used his planes for business as well.

**[Read More And See A Lot More](#)**



### **Arizona hangar has style, from the floor to the doors, and there's more to come**

You probably won't see a nicer looking hangar than the one owned by Daniel Coury of Queen Creek, Arizona. He's a loyal Schweiss Door customer, who over the past year or two has ordered 13 bifold hangar doors and speculates he will be ordering 22 more in the next two years for his five-acre development holding 31 box hangars; an ongoing project at Pegasus Airpark where he now has nine hangars completed. His modern steel 80 ft. x 100 ft. insulated show hangar has two Schweiss bifold liftstrap/autolach doors; a 70 ft. x 18.6 ft and a 60 ft. x 18 ft. tall.

**[Read More And See A Lot More](#)**



### **Two more huge Schweiss bifold doors delivered at Cape Canaveral**

Rocket hangar doors are not your run-of-the-mill doors; there are a lot of specialized things associated with these doors that Schweiss Doors has to conform with. Their latest orders from the Schweiss Doors factory were installed on a new steel hangar at Cape Canaveral. The largest of the two is a Bifold Liftstrap door 90 ft. wide x 61 ft. tall. The second door on that shipment is 40 ft. wide x 69 ft. tall. Each of the doors is equipped with automatic latches and are windrated to 150 mph. After they arrived at the site they were clad in 26 gauge sheeting and have 4-inch blanket insulation.

**[Read More And See A Lot More](#)**



### **"New" Let Your Imagination Run Wild! Schweiss easy access container unit with hydraulic doors**

If you need a really easy access storage unit, Schweiss Doors has the answer. These newly designed Schweiss containers are perfect for a number of uses such as safe and secure portable sheds, workshops, a mobile office, storage for farm seed and chemicals, hunting shack, band stage, food and beverage stands; it can be used for most anything you can imagine. Custom-built from the bottom up, the new Schweiss Container with hydraulic doors and specially designed cylinders for Schweiss Doors only, is unlike any other container opening system you'll run across, and it's portable.

**[Read More And See A Lot More](#)**





### **Doc B's Kitchen compares Schweiss designer door to driving a convertible**

The Gold Coast location features a Schweiss one-piece hydraulic glass designer door which opens wide at the entrance to the outside where customers can also enjoy their dinners sidewalk style. "What's unique about the door is when it's open it creates this natural canopy. You can sit right up next to the window. So if it's rainy or misting outside you get the benefit of the outside visual and still have the advantage of that outdoor/indoor feel," explained Bernstein. Once I saw this door, I was attracted to it and knew it was the right fit. I fell in love with it at first sight," said Bernstein.

**[Read More And See A Lot More](#)**



### **Southwest Family Farms has visions of growth to meet 50,000 acres**

Stan Reiss got a first-hand introduction to Schweiss Doors after talking to owner Mike Schweiss at the Schweiss booth during the Oshkosh airshow in Wisconsin. He is now happy with his 54 ft. x 16 ft. one piece hydraulic Schweiss hangar door which he put on a new 60 ft. x 60 ft. steel building with 18 ft. sidewalls nearly four years ago. The door is windrated for 90 mph, has electric photo eye sensors and is equipped with an emergency drill-driven backup system and remote opener.

**[Read More And See A Lot More](#)**



### **Baja Bush Pilots guides flyers to Mexico, whale petting and more**

Fly-in trips to Mexico and other destinations from Chandler, Arizona is a service offered by Jack McCormick of Baja Bush Pilots International (BPI). Since 1996 McCormick figures he has spearheaded groups of other pilots ranging from five aircraft to 117 planes on vacation destinations that normally most pilots would not try to accomplish on their own. On the average, 20-25 pilots accompany BPI on each destination that varies from three to 10 days.

**[Read More And See A Lot More](#)**



### **Mobile container Bar Pod makes its debut at the 'Big Game'**

Bar Pods have only been in production for about a year for research and construction of prototypes. They made their debut at the Nightclub and Bar Convention last year in Las Vegas. They are a deluxe, all-inclusive, velocity service, waste reducing concession bar for beer, wine, or mixed drinks (or all three in one unit), on tap that can be adapted to customer needs. They are equipped with the TurboTap, a patented retrofit draft beer-dispensing device made from high-grade stainless steel that slips over the end of a standard U.S. beer faucet.

**[Read More And See A Lot More](#)**



### **Designer door is precise fit for Kicking Horse Ski Resort home**

Located in one of the most beautiful places on the face of the earth, Golden is near six of the most stunning National Parks Canada has to offer; Banff, Glacier, Jasper, Kootenay, Mount Revelstoke and Yoho. This place has long been well loved and well used by explorers, and even more recently for skiers and outdoor summer and winter enthusiasts. Situated at the base of the Kicking Horse Mountain Resort in the Canadian Rocky Mountains, this 3,500-square-foot residence is a gathering place for an active family of five.

**[Read More And See A Lot More](#)**



### **High in the sky...**

### **Soo Line City Luxury Apartments glass skypark and pool door opens to panoramic rooftop birdseye view**

So how do you go about getting a 2,300 lb. custom-made 20' x 11' 6" bifold door up 19 floors? It takes a tall tower crane. Schweiss Doors had to meet a critical time frame so that the crane being used by Frana Companies for the apartment remodeling project could be used to lift the door to the top of the building. The bifold liftstrap door is windrated to 90 mph, and has electric photo eye sensors and had to be engineered to meet glass deflection.

**[Read More And See A Lot More](#)**



### **Overseas market is booming... Schweiss 93 ft. bifold goes to Poland**

The large 93.9 ft. wide x 34.9 ft. tall bifold door installed on a new steel hangar was designed for Category 4 windload and heavier cladding. It was fitted with full safety features which included autolatches, strap tension sensors, top overrides, photo eye sensors, bottom safety edge and internal and external beacon/sounders. One dozen liftstraps, rated to carry 29,000 lbs. each, easily lift and lower the heavy 93.9 ft. all-steel frame 20,000 lb. door.

**[Read More And See A Lot More](#)**



### **Architect revamps his old wood hangar**

If architecture is your vocation, why not use your skills to revamp your own hangar? That's what Dennis Yates, AIA, of YCH Architects in Concord, North Carolina decided to do when time came for it to get a new door in place. His dual purpose 40 x 60 ft hangar/storage building is big enough to house two planes with room to spare for a workshop and general-use storage for his practice. A strong Schweiss hydraulic 39 ft. x 11 ft. 4.75" custom made door is mounted to a reinforced door surround that is about 48 ft. wide at the front.

**[Read More And See A Lot More](#)**



### **Belgian military looks to Schweiss Doors Europe for dependable bifold doors**

When Belgian Airforce military personnel at Aerodrome Beauvechain needed reliable doors for their new helicopter hangars they went with the quality bifold straplift door offered by Schweiss Doors Europe in the UK. "It was a great honour to have been chosen to supply these doors to the Belgian military; they are the first Schweiss Europe has installed in Belgium despite installing hundreds of doors throughout the EU," said David Naylor, owner of Schweiss Doors Europe.

**[Read More And See A Lot More](#)**





#### **Overheard compliment convinces Texas hangar owner to go Strap Bifold**

Hower ordered a 45 ft. 11 inch x 14 ft. 11 inch Schweiss bifold liftstrap hangar door which gives him a 12 ft. 5 inch clear opening height for his Cessna 195. He learned about Schweiss bifold and hydraulic doors through various publications, but while at the Oshkosh Air Show he overheard another person comment on how he liked his Schweiss bifold liftstrap door. "The strap system is simply the only way to go and the best system by far," said Hower, a retired dentist. "I heard a man at Oshkosh tell your agent that he loved his liftstrap door. That influenced my decision."

**[Read More And See A Lot More](#)**



#### **Beautiful Ohio airport hangar accented by recessed bifold door**

JT Strange and his family are in the process of building their new home alongside their just finished hangar in the Obannon Creek Aerodrome Airport located in Goshen, Ohio. The newly-built hangar needed a big 45 ft. x 15 ft. 11" door for his Cessna 182T, which he also uses for business in nearby Millford, Ohio.

**[Read More And See A Lot More](#)**



#### **Dentist with a drag car likes sleek look of his Schweiss hydraulic door**

You might say that Dr. Michael Stephens, a dentist since 1968 in Muskogee, Oklahoma, is enjoying the twilight of his profession. He also makes the most of his time off hobby hitting the race track. Racing is normally known as a young man's game, but Stephens, age 72, says he slowed down to get into a faster mode of racing - drag racing.

**[Read More And See A Lot More](#)**



#### **No more wrestling with slider doors for this Washington hangar home**

John Stasny of Silverdale, Washington decided awhile back that he had enough of the four sliding doors on his hangar home. After a bunch of research, which included checking out door manufacturers, periodicals and talking to other pilots and friends he decided a Schweiss hydraulic one piece door was the only way to go.

**[Read More And See A Lot More](#)**



#### **Maine contractor chooses Schweiss doors for New England and beyond**

Irishspan Industries of Alfred, Maine bills itself as New England's Quality Source of Steel Buildings. They are fast becoming a prime installer and promoter of Schweiss hydraulic and bifold liftstrap doors as well. [Their] most recent project was modifying an existing steel hangar for Marine Home Center of Nantucket, Mass to accommodate a large Schweiss straplift bifold door.

**[Read More And See A Lot More](#)**



#### **Schweiss Hydraulic Designer Doors make their debut at elegant China hotel**

The architect and a project coordinator from China assigned to this lavish hotel wanted to see firsthand the workings of Schweiss Doors, so they boarded a plane in the middle of the winter to tour the Minnesota factory where their three doors were built. What they saw here, along with the information provided on the Schweiss website, reaffirmed them without a doubt that Schweiss Doors craftsmanship was up to their stringent standards.

**[Read More And See A Lot More](#)**



#### **Italian senior designer visits Schweiss Doors seeking insight on bifold door designs for renowned Prado Museum of Art**

Fabio De Ciechi and Schweiss Doors draftsman, Brent Krzmarzick, discuss AutoCAD paper engineering door drafts for the Prado Museum in Madrid, Spain.

**[Read More And See A Lot More](#)**



#### **House of Air gives flight to the flightless; bifold door gives open air to the hangar**

House of Air is an indoor trampoline park located in a historic airplane hangar at West Crissy Field in the Presidio of San Francisco, California, not far from the Golden Gate Bridge. What used to house high-flying aircraft, now houses hundreds of energetic youth-minded people, some of whom can now exercise a different style of high flight.

**[Read More And See A Lot More](#)**



#### **All Inside Storage hangs 130 Schweiss Bifold Doors**

There's nothing much more frustrating than when you discover someone scratched or rubbed against your vehicle or aircraft because it was parked too close to another while in storage. This is what John Obradovich, owner of All Inside Storage of Indio, California, describes as "Hangar Rash."

**[Read More And See A Lot More](#)**





### **Environmental design of Ontario Operations Centre has 20 Schweiss 'green' doors**

Newmarket, Ontario, Canada is a 80,000 population town projected to grow to approximately 98,000 by 2026. Located north of the city of Toronto, it is part of the York Region and Golden Horseshoe of Southern Ontario. Due to these growing pains Newmarket was overdue for a new municipal operations building. For many years, the town of Newmarket's Public Works Services, including operations (water, roads, snow removal) and parks and property maintenance, had been operating out of three buildings at two existing facilities for years.

**[Read More And See A Lot More](#)**



### **SilverWing at Sandpoint offers the very best in airpark living**

Such is the case at SilverWing at Sandpoint. This unique fly-in airpark community, set between Schweitzer Ski Mountain and Lake Pend Oreille, one of the West's largest lakes in northern Idaho, spans over 18 acres adjacent to the Sandpoint, Idaho public airport. This airpark has been in development since land was purchased in 2007. Now, several years later, the airpark is ready for people to move in.

**[Read More And See A Lot More](#)**



### **Maine EAA Chapter gathers forces to build a new hangar**

Active organizations have a way of getting things done - done on time, done on budget and done with the help of individuals and the community they live in. The worldwide Experimental Aircraft Association (EAA) has EAA Chapter 1210 of Biddeford, Maine in its ranks. Although relatively small they are non-the-less definitely an active "get it done" organization.

**[Read More And See A Lot More](#)**



### **Canadian waters-edge floatplane and boat hangar door opens up to the great outdoors**

Dryden, Ontario, Canada, is where the rugged beauty of Ontario meets the bright lights of city life. It is a vibrant urban community surrounded by the unsurpassed beauty of the boreal forest, freshwater lakes and spectacular vistas. The settlement was founded as an agricultural community by John Dryden, Ontario's Minister of Agriculture in 1895.

**[Read More And See A Lot More](#)**



### **Aviation Experts in France rely on Schweiss Doors**

Aviation Experts SARL is an established 15-year-old French aviation maintenance business and aerial photo survey and mapping business that services not only France and Europe but is called out to far reaching overseas locations. Its hangar and base of operations is located in Nangis, a 7,500 population commune in the Seine-et-Marne department in the Île-de-France north-central region of France, approximately an hours drive south of Paris.

**[Read More And See A Lot More](#)**



### **Schweiss hydraulic doors inducted into Louisiana Hall of Fame**

The headline is a bit ambiguous, but it sure sounds good. In all actuality, there really are Schweiss Hydraulic one piece doors on the Louisiana Sports Hall of Fame - they were installed there, not formally inducted, and are for functional applications, not for sporting accolades. Just the same it's still an honor for them to be in this new and long awaited sports complex where visitors from all over the world come to pay homage to their Louisiana...

**[Read More And See A Lot More](#)**



### **Schweiss glass bifold door goes on exclusive New York Lexington Avenue hotel**

Schweiss designer doors have gone on numerous exclusive hotels stretching from China to Europe. The latest to join this elite group is the Club Quarters Grand Central Hotel on Lexington Avenue, downtown New York City.

**[Read More And See A Lot More](#)**



### **Las Vegas Irish Pub features Schweiss designer doors on its outdoor patio bar**

Words on the Nine Fine Irishmen pub website point out: "We Didn't Just Import Irish - We Imported The Whole Damn Country." Inspired by a group of nine famous men who fought for Irish independence, to some, they were patriotic heroes. To others, traitorous rebels. But, on to the story...

**[Read More And See A Lot More](#)**



### **Monster Schweiss doors open up for Ohio National Super Stock Champion**

A 60 ft. bifold door isn't the biggest door by far ever built by Schweiss Doors, but just the same it's one heck of a big door. Shane Kellogg of Forest, Ohio needed a big door like this on his farm plus three other 40 ft. doors to store his farm equipment and his award winning pulling truck and semi that he uses to haul it to shows.

**[Read More And See A Lot More](#)**





### **Most everything starts from something.... The Evolution of the One-Piece Door**

Bifold doors keep getting better thanks to Schweiss Doors. With proven Lift Straps and Auto Latches the door travels up faster and smoother. Say no to cables! Schweiss Patented Lifts Straps are the latest and greatest improvements to bifold doors that have been around for years... Bifold Doors just keep getting Better!

**[Read More And See A Lot More](#)**



### **Lake Tahoe beachfront watercraft rental business calls for Schweiss Door**

Schweiss boathouse doors have a reputation of showing up at some of the most beautiful lakes in America, but perhaps the most beautiful of them all is the 989 ft. deep Lake Tahoe which borders Nevada and California.

**[Read More And See A Lot More](#)**



### **Born to Fly - The Rest is History**

What you see at the David Burroughs fourth generation farm north of El Paso, Illinois, located halfway between Cedar Rapids, Iowa and Chicago, isn't your run of the mill ordinary hangar - it has class, inside and out.

**[Read More And See A Lot More](#)**



### **Continental Design Build puts five Schweiss bifold doors on California Executive hangars**

They're long and sleek - over 60 foot long and stand 21.6 feet tall - big enough to open up for most any corporate prop or jet aircraft. Five Schweiss straplift bifold doors completed a summer order from Continental Design Build (CDBI) in Anaheim, California for new executive steel hangars they were building in Fullerton, California.

**[Read More And See A Lot More](#)**



### **Skydive Midwest operations begin and end at the hangar**

The fun part of Skydive Midwest's operation mostly takes place the minute you go airborne to the time you step out of the jump plane and then safely land on terra firma. That's mainly what the jumpers look forward to, however there are many behind the scenes tasks that begin and end at the all-important hangar. The hangar, a place to pack parachutes, check weather and park planes; most airports can't get along without one, and wouldn't want to.

**[Read More And See A Lot More](#)**



### **The Door's Wide Open at Fagen Fighters WWII Museum**

If your heart is into aviation, and you have money, there is no end as to what you can accomplish, including building a first-class aviation museum, and filling it with some of the finest examples of World War II aircraft. That's what ethanol entrepreneur, Ron Fagen, did in his hometown of Granite Falls, Minnesota. The museum is located at Granite Falls Municipal Airport/Lenzen-Roe Memorial Field (KGDB).

**[Read More And See A Lot More](#)**



### **Schweiss Bifold Doors go on newest Mills Fleet Farm store in Ankeny, Iowa**

Mills Fleet Farm, founded in 1955 by the Mills family, is a growing company with a retail chain of 34 stores in Minnesota, North Dakota, Wisconsin and Iowa. It's newest store recently celebrated its grand opening July 29, at Ankeny, Iowa - a midstate location of approximately 45,000 residents located along Interstate 35 and U.S. Route 69 approximately 10 miles north of downtown Des Moines bordering on an agricultural and suburban-based economy.

**[Read More And See A Lot More](#)**



### **Jamboree In The Hills stage rocks with a 80 ft. Schweiss Bifold door**

For over 36 years, over 100,000 fans each year have flocked to the rolling hills of eastern Ohio to take part in the longest running and most popular country music festival in America. This "Country Music Capital" has hosted most of the big names coming out of Nashville and other parts of the USA. Close to 25 Country legends each year such as Merle Haggard, Reba McEntire, George Jones, Tammy Wynette, Loretta Lynn, Conway Twitty, Lynyrd Skynyrd, Boxcar Willie, and even The Beach Boys and ZZ Top, you name it, have taken to the stage there.

**[Read More And See A Lot More](#)**



### **California's Edison Language Academy goes to school with a Schweiss Bifold glass door.**

The school doors are open at Edison Language Academy in Santa Monica, California. What's different at this school is not all the doors are the same, and that goes for its unique curriculum as well. Edison Language Academy is a bilingual magnet school that is one of only 10 dual-immersion K-12 programs in the United States.

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### **Greystone Construction is national award winner**

Since Greystone Construction Company of Shakopee, Minnesota was formed in 1987, earning and receiving awards has been nothing new for them - their list of national and state awards for excellence, performance and merit are enough to decorate a large office or trophy room.

**[Read More And See A Lot More](#)**



### **'Your doors stood the test of time,' says Iowa rancher hit by tornado**

When daylight hit after the evening of Oct. 4, people living and working at the Triple U Ranch in Washta, Iowa, got an eyeful of destruction. It was on that Friday that Mother Nature decided to reorganize the countryside. Brad Utesch, who farms 2,500 acres and produces 6,000 head of cattle a year, with his brothers Craig and Kirk were faced with a massive cleanup after what more than likely was a tornado set down...

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### **Glass adds a reflective touch of class to Denver contractors residential garage door**

At certain times of the day the glass on Bruce Hamon's garage door reflects the beautiful Denver surroundings he lives in. While it allows others to see within, the big advantage is it allows him to see out as if looking through a picture window inside his home. And it adds a real touch of class to his residential property.

**[Read More And See A Lot More](#)**



### **California bike transit station utilizes three Schweiss glass designer doors**

Who you gonna call when you need three top of the line glass bifold straplift doors for a bike transit station in California? You have two choices. You can go directly to Schweiss Doors in Minnesota or call a company that sells and installs Schweiss Doors. That would be McKendry Door Sales & Service of Santa Fe Springs.

**[Read More And See A Lot More](#)**



### **Schweiss Doors adds style to spicy new Sway Thai restaurant in Austin, Texas**

Traditional Thai food has a reputation of being very spicy and hot enough to satisfy anyones taste for heat. A newly opened restaurant in Austin, Texas does that and more. Austin is a city of big flavors, but interestingly enough there are few that specialize in Thai food. That's where the long-awaited Thai Restaurant called "Sway," (meaning elevated, delicious) tops the bill.

**[Read More And See A Lot More](#)**



### **Billy Bishop Airport gets its first Schweiss Doors**

Fame is where you find it and in many cases others try to feed off it. Such is the case with The Owen Sound, Ontario, Canada Regional Airport, named after revered World War I flying ace William Avery "Billy" Bishop. Their hometown hero was the most highly decorated Canadian pilot of that war with 72 air victories to his credit.

**[Read More And See A Lot More](#)**



### **Door adds sparkle to unique Scripps Ranch High School in San Diego**

The administration at Scripps Ranch High School in San Diego, California, with the assistance of Casco Equipment Corporation and its assigned architects, knew exactly what they wanted in the four designer doors they ordered for their school. They wanted something that conformed to "green" standards and that would serve a useful classroom function as well.

**[Read More And See A Lot More](#)**



### **Schweiss hangar door shines like a big light on corporate hangar in Mexico**

Ciudad Obregon is the second largest city in the northern Mexican state of Sonora. It is a historic and beautiful city of 405,000 population located near the Gulf of California about 395 miles north of Mazatlan and 400 miles straight south of Tucson, Arizona

**[Read More And See A Lot More](#)**



### **Rural pilot has nothing but praise for his three Schweiss Bifold doors**

Gene Fuchs, 81, has been taking to the air since the age of 15 and bought his first airplane four years later. He has two Schweiss Bifold hangars doors and one large 45 ft. bifold machine shed door at his farmsite east of Morgan, Minnesota. He bought his first bifold door in the 1980s and hasn't had a lick of trouble with any of them.

**[Read More And See A Lot More](#)**





### **Now you see it, Now you don't. Crazy Cool garage door appears only half as big as it really is**

Washington resident Herb Korthuis needed a tall garage door to fit his large motorhome into. A city zoning ordinance said he couldn't do it at first, but thanks to Schweiss Doors he now has a 16x12 ft. bifold door that blends into the rest of his house and neighborhood and which was OK'd by the building inspector despite its size.

**[Read More And See A Lot More](#)**



### **COMPOSITE FOAM PANELS TAKE KIEHM CONSTRUCTION NATIONWIDE**

Back in 1980, Marty Kiehm, age 23 at the time, built his first structure, a 70' x 100' hangar with a 48' bifold hangar door at the Delavan, MN airport. Though not yet a licensed pilot, aviation blood was already trickling through his veins. His dad was an aerial applicator so 'flight talk' was a fairly routine part of family conversations. However following in his Dad's footprint wasn't his ambition.

**[Read More And See A Lot More](#)**



### **Top of the Line Schweiss Hydraulic Designer Door graces Under Armour building**

Schweiss Designer Doors don't get much better than this. Under Armour Corporation in Baltimore, Maryland ordered this very attractive and unique metal perforated hydraulic one-piece canopy door as a showpiece for their store and office building in Baltimore, Maryland. The 28' 10" wide x 12' - 140 mph windrated door features two distinctly lighted Under Armour billboard-style logos which can be seen for miles around.

**[Read More And See A Lot More](#)**



### **One of a kind Texas hangar has its own control tower**

"I come here every morning at 6 a.m. I spend all day here and I enjoy every minute of it." Those words from Patrick Aucoin, Aucoin and Associates, Inc., Spring, TX. And where he comes each day is to an 84' x 84' steel hangar at the Spring, TX airfield. But what a hangar! For 14 years this spot was only a concrete slab, the only remnant from a Texas tornado that wiped out the hangar which used to set on this hunk of concrete. But not so today.

**[Read More And See A Lot More](#)**



### **Pilots are appreciating the 80 schweiss liftstrap bifold hangar doors at Oshawa, Ontario airport**

There aren't many airports in the U.S. or abroad that have as many Schweiss Bifold Liftstrap/Autolatch hangar doors as the Oshawa, Ontario, Canada airport. In a three-phase project a total of 80 Schweiss liftstrap and autolatch bifold doors have been put onto hangars there. In just the last order alone, 34 Schweiss bifold doors ranging in size from 41.5 ft wide to 47 ft. wide gives some solid proof of their popularity among hangar owners there.

**[Read More And See A Lot More](#)**



### **Innovative Schweiss lift gate gives versatility to 'The Paw'**

Contemplate this description of a popular Mankato, Minnesota facility: Daycare, rehabilitation, grooming spa, spacious suites with in-floor heat, raised beds, exercise program, pool, reservations required, therapeutic laser class treatments, post operative care, hydrotherapy, kindergarten, parties and social activities.

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### **Big bifold glass door connects spaces at new Red Bull headquarters**

Extreme sports enthusiasts are a key demographic for energy drink makers, and Red Bull's new North American headquarters in Santa Monica, CA was created with that audience in mind. Among the 105,000 sq. ft. buildings many impressive design features are 40' wide by 250' long, non-functioning skateboard platform and 28' tall by 40' wide, Schweiss glass-paneled bifold door.

**[Read More And See A Lot More](#)**



### **Arizona Stucco hydraulic door gives shade on hot days.**

Aircraft enthusiasts from more than 70 nations go to the world famous Oshkosh Air Show with their eyes to the sky. It brings in more than 10,000 aircraft and displays nearly 2,500 aircraft of all makes and sizes. Dave Sirota, President of Bassuk Brothers Property Management firm in Oro Valley, Arizona, a bedroom community adjacent to Tucson, didn't go there to look at aircraft, he had another mission in mind.

**[Read More And See A Lot More](#)**



### **Schweiss Doors makes boathouse owner envy of beautiful Lake Vermilion**

Schweiss Doors can't take all the credit for the envy. Ryan also goes first class with the 1955 Chris Craft Continental boat that cruises in and out of his boathouse. And for those not living on this lake, known worldwide as Lake Vermilion, that's also envious.

**[Read More And See A Lot More](#)**





### **Aero Country East is a Dallas, Texas area first-class aviation lifestyle community.**

"New North Dallas, Teass Aero Country East airpark goes exclusively with Schweiss "Red Power" hydraulic one-piece hangar doors. Many Country Club amenities and 39 custom townhomes and pool on privately-owned airport add first class appeal for pilots and families

**[Read More And See A Lot More](#)**



### **Washington Wallaby Ranch chooses Schweiss doors for its hangars**

When you think of wallabies and kangaroos the first thing that comes to mind is Australia, "The Land Down Under." You don't have to travel that far, however, to see these marsupials, The Fall City Wallaby Ranch has 19.

**[Read More And See A Lot More](#)**



### **Kansas farmers Mancave has room for dragstrip racing cars and more**

The term "mancave" has in recent times entered the American vernacular. It refers to a place where the guys can get together, lay back and talk about whatever is on their minds and solve the world problems and such over a cold one or two. Mancaves seem to be quite popular amongst football fans.

**[Read More And See A Lot More](#)**



### **Schweiss Doors installs 132 liftstrap Bifold T-Hangar doors for Bult Airfield**

Only about 30 miles due south of downtown Chicago and surrounded by fields of corn, soybeans, wildlife habitat and even a few tree farms sits one of the newer and more intriguing airfields in America. Called Bult Field Airport and identified as C56, this country airport however dates back to 1942 when Paul Sanger, a Monee, Illinois aviation enthusiast started his 'grass strip' air field three nautical miles southeast of town.

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### **Napa Valley Winery puts Schweiss doors to special use**

That's how Opus One building's architect, Scott Johnson, described this California Napa Valley winery located between St. Helena and Napa, almost straight north of San Francisco, California. Johnson was part of the design team behind the whole footprint of the Opus One building expansion. The suggestion and actual design of the unique Schweiss bifold and hydraulic doors was recommended by Wayne Leong, of Leong Architectural firm in St Helena, CA.

**[Read More And See A Lot More](#)**



### **Prestige Contractors of Canada is newest Schweiss Doors distributor**

Most every contractor at heart wants to do the best job for their customer. Sometimes that means going above and beyond the call and at other times being able to offer the best product for them.

**[Read More And See A Lot More](#)**



### **Large Schweiss Bifold Liftstrap door perfectly fits farmshop needs**

There's nothing cheap about building anymore but this project turned out wonderfully. The Schweiss door fits perfectly. We dressed up the shop and office area with some window shutter trim. Structural Building out of Becker, MN was the contractor and they did a great job

**[Read More And See A Lot More](#)**



### **Inadequate experience with another company leads farmer to Schweiss Doors**

It was a 70 ft. hydraulic door, very lightly built, it came in two sections that didn't meet together when they put it together. It showed up bent, and when raised it would bend, very poor weld quality, with welds missing in places. It was a piece of crap, I've never seen something so poor, there was no engineering done on it. There was no quality control.

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### **Schweiss Red Power Pumps are a jump above the rest**

Jumping over the best

**[Read More And See A Lot More](#)**





### **RiverEdge Park & Music Garden orders Schweiss Doors for new Illinois project**

RiverEdge Park and Music Garden is a venue that not many people in the United States have heard of yet, but they will. It is becoming the centerpiece in a 10-year master plan for the city of Aurora, Illinois, that state's second largest city with a population of close to 200,000 people, making it the 112th largest city in the United States. Aurora is located about 45 miles west of Chicago and is accessible by commuter train from there.

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### **Schweiss has truckloads of top quality doors leaving the factory each week**

Since Introducing "Red Power" Hydraulic Doors to the market this Spring, sales of Schweiss Hydraulic Doors have escalated, and as a result truckload-after-truckload of ready to assemble doors have been moving out to destinations within all corners of the United States and other locations around the globe.

**[Read More And See A Lot More](#)**



### **Sharp looking farm shop features office space and large hydraulic door**

This eye catching farm shop is indeed a beautiful facility. All four exterior steel walls are white, however red is the accent color around the edges of this big hydraulic door, all windows in the door, plus other access doors into this incredible building.

**[Read More And See A Lot More](#)**



### **Taxi-through hangar speeds crop work for big time spraying operation**

Twenty-seven years as an aerial applicator provides an historical perspective each spring for Rich Sigurdson, Olivia, MN. For cantankerous 2011 he simply responded, "This spring brought in a little more work than normal. This is the latest for putting crops in the ground since I've been in the business.

**[Read More And See A Lot More](#)**



### **Huge Army tanks and track vehicles pass through Ft. Carson liftstrap bifold doors**

Getting 146 doors installed at one location speaks rather strongly about the quality and reliability of your door provider. But that's the current scorecard of Schweiss BiFold doors at Fort Carson, Colorado (Colorado Springs) where Mortenson Construction (Denver branch) has an ongoing contract with the U.S. Army for the construction of special heated maintenance shops called TEMFs (Tactical Equipment Maintenance Facilities). This means structures big enough for Army tanks and other special military tactical vehicles.

**[Read More And See A Lot More](#)**



### **Electrical engineer researches and chooses 40 ft. Hydraulic Hangar Door**

I researched over a year what I wanted to do. I met Dave Schweiss at the Florida 'Fun in the Sun' air show and both Dave and Mike at the big Oshgosh, WS show. After meeting the guys and looking more closely at their product the choice was obvious. It simply was the best fit, the best design, the best door and in terms of value, the best deal.

**[Read More And See A Lot More](#)**



### **Fagen WWII museum purchases multiple large Schweiss Liftstrap Bifold Hangar Doors**

Here are some shots of Fagen's warbirds. All mighty nice, mint condition airplanes! Just one of many unique planes that will be on display in the New Fagen Museum. It'll be the hot spot in Granite Falls, Minnesota to see some of the most beautiful Flying machines imaginable.

**[Read More And See A Lot More](#)**



### **Fast opening Schweiss hydraulic heated shop doors were just what this farmer needed**

Obviously a guy doesn't spend several thousand dollars for a big hydraulic door because it opens and closes in 37 seconds. But surprisingly 'door speed' is a bit of a factor, at least for Terry Albright, Renville County farmer who also runs a fleet of 'over the road' semi rigs.

**[Read More And See A Lot More](#)**



### **New 75 ft. Ohio farm shop has Schweiss hydraulic door with special lighting**

A slick, new 75' x 80' farm shop with special lighting, in-floor heating, a huge 40' door and a burgundy and beige color scheme is getting all sorts of attention on the farm of John Dulin, Kenton, Ohio. "The contractor that sold me the building has people coming here every week it seems to check out the building and especially that big hydraulic door. So it's a real treat for me and my farming partner son Dana, to show them the works," explained Dulin, who is also maintenance manager for six school buses in their local special education district.

**[Read More And See A Lot More](#)**





### **Wayzata resident loves his worry free liftstrap garage door conversion**

Two bifold doors were on his Wayzata, Minn. home when he and his wife, Nancy, purchased it from a previous owner several years ago. He referred to the doors as "a bonus and attractive feature" and believed the architect chose the bifold style of doors for aesthetic reasons.

**[Read More And See A Lot More](#)**



### **Carriage House helicopter hangar is very likely the most unique in America!**

The Carriage House on the lakeshore property of Sid Morris, Cornelius, NC is very likely the most unique in America! It doesn't house horses and horse buggies. It doesn't house antique autos. Instead it houses his R44 helicopter. And that chopper gets to the Carriage House by first landing on a helio pad on the end of his 200' dock. A small electrically driven dolly then gently lifts the chopper with operator then guiding the chopper to its proper stall inside this remarkable 4-star carriage house.

**[Read More And See A Lot More](#)**



### **Artists architectural glass door was perfect for Martha's Vineyard studio and guest house**

At 27 years of age, film maker/artist/author Travis Wood appears to be adding architectural design to his intriguing resume. Evidence of this new dimension is a most unique structure, a combination studio/guest house that he and his father are constructing on their vacation property on Martha's Vineyard, hugging the south shore of Massachusetts.

**[Read More And See A Lot More](#)**



### **Funky Brooklyn Store Front Perforated Steel Bifold Doors add touch of class and security**

Hugging the southwest corner of Long Island, New York, Brooklyn's earlier identity was mostly hitched to Coney Island beach and the Brooklyn Dodgers of baseball immortality. Today the city is enjoying a renaissance of rediscovery by artists, retailers, ambitious contractors and creative landscapers including the Andre Kikoski Architect firm which just wrapped up the complete renovation of two empty, abandoned warehouse buildings on 22-28 Wyckoff Ave.

**[Read More And See A Lot More](#)**



### **Multiple stores and doors are key to Arnold Company farm implement business expansion**

Consolidation is that aggressive word which has been enveloping agricultural business for several years now. In simple terms, it results in fewer but bigger. And that certainly is the recent history of the farm implement business, which used to pride itself on having eight, 10, even 12 or more dealerships per county. Today three or four farm equipment dealers per county is more the usual. But ownership of farm implement stores today often includes multiple locations throughout an entire state.

**[Read More And See A Lot More](#)**



### **Former Alaskan has Bifold hangar doors for fishing and flying from private airstrip**

Flying since he got the bug when working the fishing canaries in Alaska, Eric Hutchins, Grand Rapids, MN, has a rather diversified agenda these days. For example he runs a year-round Dairy Queen in this bustling tourist center town. He also does some part-time law enforcement work and occasionally flies fire detection with the MN DNR. When time permits, high on his agenda is getting together with his snowmobile buddies for a few miles through the beautiful lake and woodland country of Itasca County.

**[Read More And See A Lot More](#)**



### **Large 108 ft. Schweiss Bifold Strap Door is finishing touch for hangar renovation**

In September of 2009, we started the rehabilitation of Hanger 155 at Chippewa County International Airport in Kincheloe, MI. Our first step was to remove 60 years worth of lead paint from the existing steel substructure and miles of asbestos-containing material. When the building was safe to work in, our demolition subcontractor started on the roof system.

**[Read More And See A Lot More](#)**



### **Midwest John Deere dealership and store installs a Schweiss One-Piece Door**

It's big, 43,500 square feet. It has a special floral display unit out front courtesy of the employees and the general contractor. You walk into an 'eye catching' 100' x 160' 'Consumer Display' section complete with a 10' high shelf showcasing various John Deere 'consumer goods'. And greeting you at the retail counter is a colorful prairie scene with an old country barn, woodlots, fields of corn and wheat plus a depiction of the original 1-bottom plow that launched the John Deere machinery company. A show place of sorts? Yes, indeed.

**[Read More And See A Lot More](#)**



### **Classic Florida hangar home Schweiss wall/porch door is drawing national attention**

Well, it's all of the above for 62-year-old Daniel Shaw, a plumbing contractor at Geneva, Fla. Who has given new meaning to the term "hangar home." The structure is 50' wide x 60' deep x 30' tall, all metal/ However, a 45' x 15' Schweiss hydraulic door sporting a wrap-around porch with decorator railing, table and chairs, a "walk through" door with stylish window, and veranda "roof" gets your attention.

**[Read More And See A Lot More](#)**





#### **Schweiss doors open things up at the Renville County Fair**

Schweiss Hydraulic and Bifold Doors recently installed four new hydraulic doors at the Renville County Fairgrounds located in Bird Island, MN. The Renville County Board approached Schweiss looking for a way to open up the event building located at the county's fairgrounds. The event building is used to host live bands, beer gardens and public auctions by Henslin Auction Services. Hydraulic doors seemed like the perfect solution to open up the building and allow easy access to the building for large groups of people.

**[Read More And See A Lot More](#)**



#### **Minnesota Implement dealership spike in business calls for new facility liftstrap bifold doors**

We're no longer just selling iron. Today we're selling precision farming products and that requires special training of both our personnel and our farm customers," says Paal Haug, general manager of Haug Implement with stores at Willmar and Litchfield

**[Read More And See A Lot More](#)**



#### **Radiation-shielded Bifold Door designed specially for industrial x-ray system firm**

The creativity of customers continues to be a driving force for many manufacturers. Take for example North Star Imaging, Inc., a Rogers, Minnesota manufacturer of industrial x-ray systems which are enclosed by a radiation shielding cabinet and access door and used by manufacturing firms in the aerospace, military, automotive, medical device, electronics, even the genetic seed industry and many more.

**[Read More And See A Lot More](#)**



#### **Stylish North Carolina Target store Bifold gates serve dual purposes**

How do you make the loading dock area for your store secure, yet still easily accessible and stylish? This Target store in North Carolina found the answer with two 39' x 17' bifold gates for their loading area. Give us your idea and we will get you the door.

**[Read More And See A Lot More](#)**



#### **Unique Schweiss Bifold roof-door designed for East Coast sandblasting chamber**

What looked like a near impossible situation without some totally new engineering design instead turned out to be a remarkable solution to an extreme challenge. The challenge? How to fit a "roof door" over a 20' by 30' sandblasting chamber used by SMS Millcraft, Oil City, PA. This firm specializes in refurbishing component parts for various Pennsylvania steel mills.

**[Read More And See A Lot More](#)**



#### **Farm Air spraying operation relocates and builds new hangar with 76 ft. hydraulic door**

It is rare that an Air Tractor dealership changes hands. It cant be done without an approval from Air Tractor, Inc. This requirement became all too apparent to Bill Taylor of Farm Air in Fairfield Illinois. Bill was starting to think about retiring from the business he formed in 1976. Shortly after forming Farm Air, Bill saw a need for Air Tractors in the Midwest, and approached Air Tractor about becoming a dealer. Over thirty successful years later, Bill decided it was time to sell Farm Air with its Air Tractor dealership intact.

**[Read More And See A Lot More](#)**



#### **TGIF puts custom-made Schweiss Bifold glass doors on patio bar**

This custom set of Schweiss Bifold Doors was the perfect solution to provide a unique dining experience for this restaurant's patio bar customers.

**[Read More And See A Lot More](#)**

**[BACK TO BIFOLD.COM](#)**

**[BACK TO MUST SEE PHOTO HOMEPAGE](#)**



**Hydraulic Doors**

Hydraulic Doors  
 Hydraulic Vs. Bifold  
 Stand-Alone Doors  
 Superstructure Hydraulic  
 Tilt-Up Design Comparison  
 Hydraulic Door Frame  
 Mounting Styles  
 Hydraulic Pumps  
 Note About Hydraulic  
 Greasable Hydra Hinges  
 Hydraulic Secrets  
 Product Features  
 Build Your Own Door  
 Hydraulic Parts  
 Hydraulic Door Failures

**Other**

Literature  
 FAQs  
 Prices  
 New Smartphone App  
 Misc. Pages

**Bifold Doors**

Why Bifold  
 Straps vs. Cables  
 Superstructure Bifold  
 Bifold Door Frame  
 Greasable Hinges  
 Mounting Styles/Wedges  
 Bottom Drive  
 Top Drive  
 Auto Latches & Remotes  
 Bifold Parts

**Lift Straps Kits**

Strap Conversion Kits  
 Strap Conversion Stories

**Upgrade Features**

Upgrade Equipment  
 Top & Bottom Rubber  
 Cold Weather Package  
 Sheeting / Insulation  
 Walk Doors  
 Windows

**Building Details**

Wood Building Details  
 Steel Building Details  
 Understanding Headroom  
 How to Measure your Building  
 Forces on Your Building  
 Round Roof Building  
 Hoop Buildings  
 Retrofit Existing Buildings

**Steel & Wood Designs**

Building Details

**Agricultural Buildings**

Pole Barn Structure  
 Machine Shed Doors  
 Storage Building Doors

**Free Standing Headers**

On Steel Buildings  
 On Wood Buildings

**Door Installation**

Schweiss Certified Installers  
 Bifold & Hydraulic Installation Guide

**Specialty Doors**

Specialty Doors  
 Designer Doors I  
 Designer Doors II

**Container Doors**

Container Door Concepts  
 Container Doors Stories

**Marina Doors**

Marina Doors

**Design Info**

Architects, Specifiers,  
 Contractors & Engineers  
 Design Criteria - Bifold  
 Design Criteria - Hydraulic  
 Schweiss Sample Specs

**Testimonials**

Testimonials  
 Customer Reviews

**Must See Photos**

Must See Photos  
 Gallery

**Farm Stories & Photos**

Farm Stories & Photos  
 Tons of Photos & Stories

**Videos**

Slideshow Video  
 Designer Doors Hot Video  
 Slider Photo's Slider  
 Gallery  
 Animation Video

**About Schweiss**

What's in a Brand Name?  
 History  
 About Us  
 Factory Map  
 Careers

**Aircraft Sizes**

Airplane Chart  
 Fly-In Communities  
 Floatplane Chart  
 Hangar Homes and  
 Airparks Map

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Order Number:

Bid Number: 41124-JR

BILL TO:				SHIP TO:				BUILDING MANUFACTURER			
Jeff Raggets											
Jeff				Euclid OH 44117							

Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

**NOT FOR  
CONSTRUCTION**

**PRELIMINARY  
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2. These are PRELIMINARY SPECS and the WEIGHTS and REACTIONS will change, therefore DO NOT design or manufacture the Doors Building Header and the Doors Building Side Columns using these Preliminary Spec Weights and Reactions.
3. FINAL SPECS will be provided with the FINAL WEIGHTS AND REACTIONS after contract and engineering are finalized. ONLY use FINAL WEIGHTS AND REACTIONS to design and manufacture the Doors Building Header and the Doors Building Side Columns.

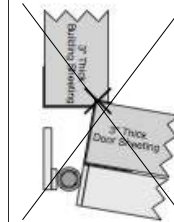
## PRELIMINARY - Bi-Fold Door Specifications

	Inches	Feet & Inches	
A-	168.00"	14'- 0.00"	Clear Opening between side columns or finished clear opening. <b>(steel or wood</b>
AA-	180.00"	15'- 0.00"	Total distance to stay back with the building sheeting on the side columns.
B-	168.00"	14'- 0.00"	Clear Opening from bottom truss to finished floor - or total height opening.
C-	192.00"	16'- 0.00"	Distance from finished floor to the very top of hinge (B+D=C).
CCC-	180.00"	15'- 0.00"	When using stubs to attach your bi-fold door to - the stub columns should hang no lower than 12 inches below the C measurement. <b>NOTIFY SCHWEISS if stub columns are lower than 12".</b>
<b>(Steel Only) IMPORTANT</b>			
D-	24.00"	2'- 0.00"	Distance from top of clear height to top of single hinges.
E-	23.00"	1'- 11.00"	Distance from top of clear height to center of mounting hole for single hinges.
F-	193.00"	16'- 1.00"	Distance from finished floor to the building sheeting line above the door. Hold the sheeting to this elevation from the finished floor. These Specs are designed for up to 1-1/2" Thick Sheeting Panels and Trim. When using 2" Thick Insulated Panel and Trim Add 2" to F Measurement Above. When using 3" Thick Insulated Panel and Trim Add 3" to F Measurement Above.
<b>IMPORTANT -</b>			It is the Contractors/Owners Responsibility to Ensure the Door Sheeting does not collide with the Building Sheeting - See Illustrations S1 and S2 on the right of this page.
H-	191.00"	15'- 11.00"	Distance from the finished floor to the center of single hinge bolt holes. <b>YOU WILL BOLT THROUGH YOUR HEADER AT THIS HEIGHT</b>
H2-	1/2 x 6 HB		Header Bolts Schweiss providing, unless otherwise specified by customer / contractor.

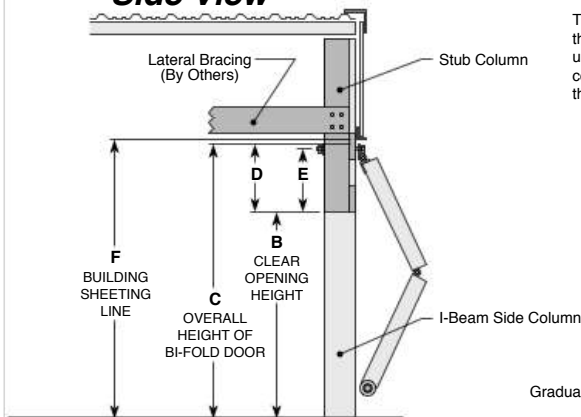
### S1 - Clears



### S2 - Collision



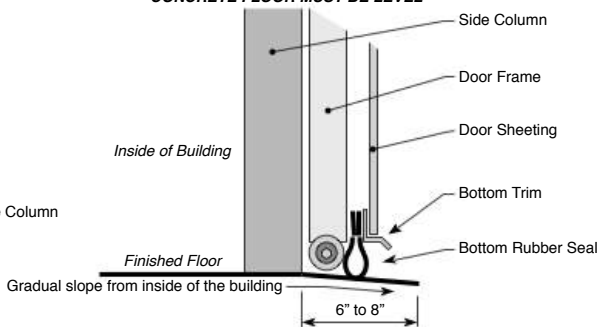
### Side View



### Your Concrete Floor

There must be a solid base or floor under the door frame. The door rests on the face of the building column or building line. To provide a weather tight seal under the bi-fold door and to keep moisture out of the building, have the concrete floor extend beyond the opening 6 to 8 inches sloping away from the building.

**CONCRETE FLOOR MUST BE LEVEL**





Order Number:

Bid Number: 41124-JR

Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

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## PRELIMINARY - Design Criteria - Required Door Information

Building Code	2018 IBC	Building Code - (Default is 2012 IBC)
Wind Speed	115 mph	3 second gust - (Default is 115 mph)
Risk Category	II	II, III, or IV - (Default is II) - (2009 IBC = Standard Occupancy)
Wind Exposure	C	Exposure - (Default is C)
Wind Type	Component	Component Wind or Main Wind Force (MWFRS) - (Component if less than 700sqft.)
Enclosure	Enclosed	Enclosed or Partially Enclosed - (Default is Enclosed)
Topographic Factor - Kzt	1	Must Be Provided by the Engineer of Record- (Default is 1)
Building Height	17'	Mean Roof Height or Eave Height for Building with Roof Slope of 10 Degrees or Less.
Roof Slope	1 : 12	Roof Slope - (Default is 1 : 12)
Door Operational Wind Speed	30 mph	Maximum Wind Speed for Door Operation is: 30 mph
Do not operate door if wind speed exceeds the maximum door operating speed. Door must be closed with floor pins and locks engaged when unattended or when wind speed is expected to exceed the maximum door operating speed.		

## PRELIMINARY - Technical Information For Your Bi-Fold Door

A1-	3	Number of Hinges
A2-	2	Number of Lift Points Distributed Equally.
A3-	240-1PH	Electrical System with Up/Stop/Down Switch and Power Unit on the (LI) - Left/Inside

**WARNING -** These are PRELIMINARY WEIGHTS that will change due to Final Engineering, if you pass these on to your Building Manufacturer / Engineer / Architect / Contractor, please inform them that these are not the FINAL WEIGHTS. DO NOT manufacture the Doors Building Header or the Doors Building Side Columns using these PRELIMINARY SPEC WEIGHTS.

<b>Door Weights</b>		
B1-	1565 lbs	Structural Framing Weight
B2-	227 lbs	Exterior Sheeting & Trim Weight (29ga. = 0.82 psf. -- 26ga. = 0.99 psf.)
B3-		Liner Sheeting & Trim Weight (29ga. = 0.82 psf. -- 26ga. = 0.99 psf.) / 2 If Only Bottom Half
B4-		Insulation Weight (4" Blanket = 0.5 psf. -- 6" Blanket = 0.65 psf.)
B5-		Optional - added accessories
B6-	1792 lbs	Estimated Total Door Weight

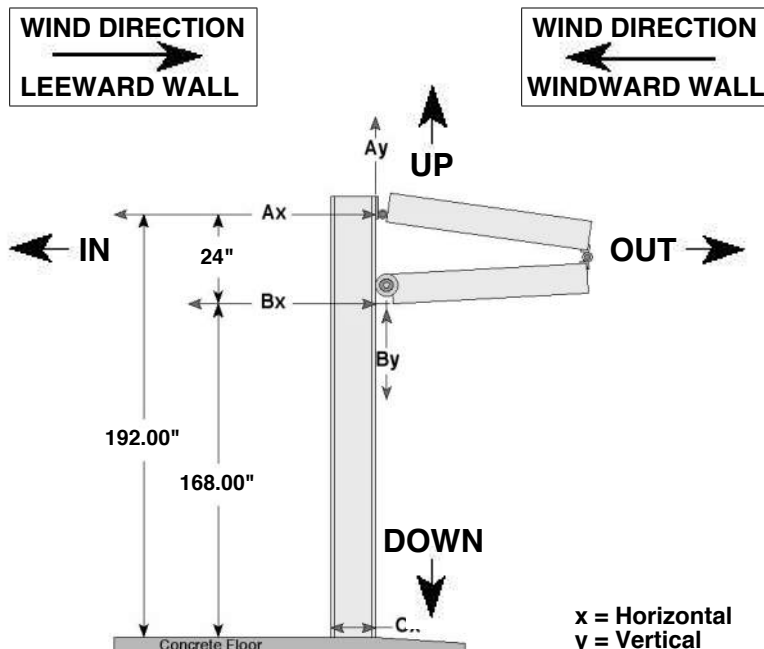
## PRELIMINARY - Door Reactions

DOOR CLOSED		END HINGES		CENTER HINGES	
	Column React. at Base (lbs.)	Side Column and 1st Hinge Loc. from Each End (lbs.)		Interior Hinges (lbs.)	
	(C <sub>x</sub> )	(A <sub>x</sub> )	(A <sub>y</sub> )	(A <sub>x</sub> )	(A <sub>y</sub> )
Dead Load	0	0	493 ~	0	986 ~
<b>WINDWARD WALL 115 MPH WIND LOAD</b>					
Internal Pressure	846 <	465 <	0	930 <	0
Internal Suction	1368 <	752 <	0	1505 <	0
<b>LEEWARD WALL</b>					
Internal Pressure	1513 >	832 >	0	1664 >	0
Internal Suction	991 >	545 >	0	1090 >	0
DOOR OPEN		END HINGES		CENTER HINGES	
	Roller Forces (lbs.) Ea. Side	Side Column and 1st Hinge Loc. from Each End (lbs.)		Interior Hinges (lbs.)	
	(B <sub>x</sub> )	(A <sub>x</sub> )	(A <sub>y</sub> )	(A <sub>x</sub> )	(A <sub>y</sub> )
Dead Load	1778 <	978 >	493 ~	1956 >	986 ~
<b>WINDWARD WALL 30 MPH MAXIMUM WIND FOR DOOR OPERATION</b>					
Internal Pressure	470 <	242 <	127 ~	485 <	254 ~
Internal Suction	399 <	206 <	108 ~	411 <	216 ~
<b>LEEWARD WALL</b>					
Internal Pressure	495 >	255 >	134 ~	510 >	268 ~
Internal Suction	459 >	236 >	124 ~	473 >	248 ~

### Important Note:

When your bi-fold door is opening or in the wide open position, the door tends to pull away from the building at the hinge line also putting stress on each building column where the roller moves along the column flange. The building manufacturer/contractor/owner is responsible to ensure that the building structure is capable of handling all the imposed loads. All materials not supplied by Schweiss are the full responsibility of others!

41124 3:28





Order Number:

Bid Number: 41124-JR

Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

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### Minimum Bi-Fold Door Header Requirements

1. Maximum Allowable Vertical Deflection  $L / 180$  Maximum under Dead + Live Load or Dead + Snow Load Combinations. Vertical Frame Deflection must be held so that the door will open when the full snow load is applied to the building.
2. Deflection Increases from 0 at Door Side Columns to the maximum allowable deflection at the center of the door.
3. Maximum Allowable Horizontal Frame Drift is  $H / 60$  in the plane of the wall containing the door.

### Minimum Bi-Fold Door Side Column Requirements

4.  $L / 90$  (Wind Load) Maximum Allowable Inward or Outward Deflection of Your Buildings Bi-Fold Door Side Columns:
5.  $L / 180$  (Dead Load of Door)
6.  $3/8"$  Recommended Minimum Flange Thickness of Your Buildings Bi-Fold Door Side Columns:

### Information for Building Designers

#### Designing the Door Side Column for Bi-Fold Doors.

7. The door side column must be designed to withstand the roller forces as the door opens. Due to the door roller the column flange must be designed to limit the deflection of the flange as the door opens.
8. The door side columns and door header must be on the same plane - flush with each other.

#### Design the door side columns for:

9. Major axis bending due to the Roller Forces (Bx) shown on the Door Reactions Chart.
10. Axial load by the building framing on the door side column (including the dead load of the door).
11. Design for combined major axis bending and axial load per the provisions of the governing building code, The 2005 Manual of Steel Construction Chapter H.

#### Deflection Requirements for door side column:

12. Design the door side column for the same deflection requirements as required by the building code.

#### General Design Notes:

13. The door side columns, header and bracing should be designed by a qualified Professional Engineer.
14. Specific building conditions other than those indicated in the Spec Sheets may exist which require further engineering consideration.
15. Schweiss is not responsible for the size or design of the door header and side columns for your building. All materials not supplied by Schweiss are the full responsibility of others.
16. Door Dead Load is applied to the building when the door is open or closed.
17. It is the building designers responsibility to combine the door reactions with the appropriate load combinations.

## Upgrade Equipment - Customer's Choice

You may add any accessory to your Bi-Fold Door, Schweiss strongly recommends these accessories be used on every door. Only included with your order if the box is checked

1. ☐ Top Override Jiggle Switches
2. ☐ Side Latch Jiggle Switches
3. ☒ Electric Photo Eye Sensors
4. ☐ 3 Button Automatic Switch
5. ☒ Door Base Safety Edge
6. ☐ Warning Lights and Horn
7. ☐ Emergency Back-Up Hand Crank

#### Read the Schweiss

##### "Safety Information and Operation Manual"

The Schweiss Bi-Fold Doors Safety Information and Operation Manual should be read by anyone involved in the design, specifications, selection or purchase of an industrial bi-fold door operator or automated bi-fold door system.

#### Call Us If You Have Any Questions

If you have any questions or comments about your bi-fold door's safe operation or its design, call us at the numbers listed at the top of the page and talk to our knowledgeable staff at the factory.



Order Number:

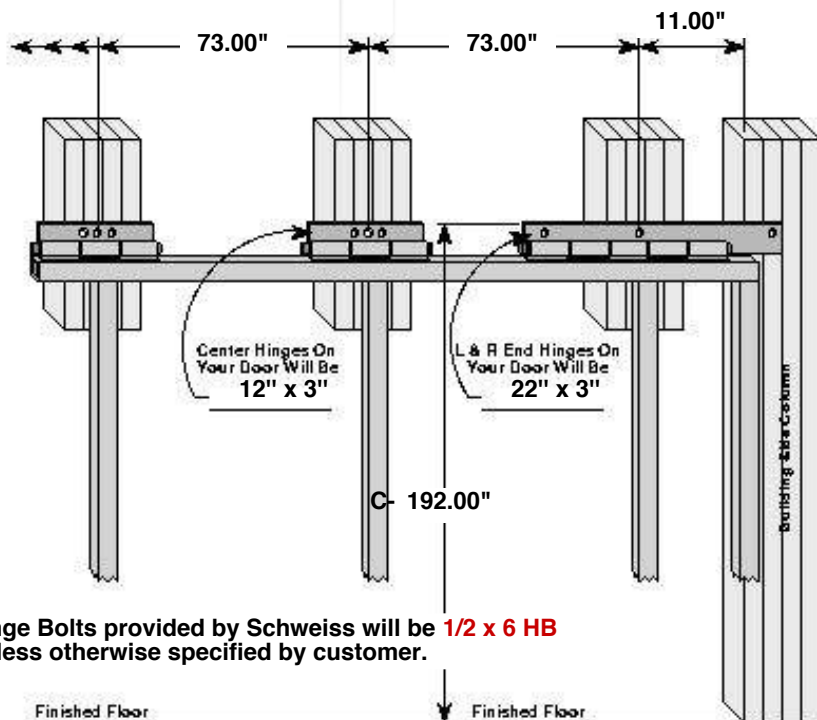
Bid Number: 41124-JR

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14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

### Attaching Bi-Fold Door To Your Building

#### Typical Wood Building Side Column With Wood Header

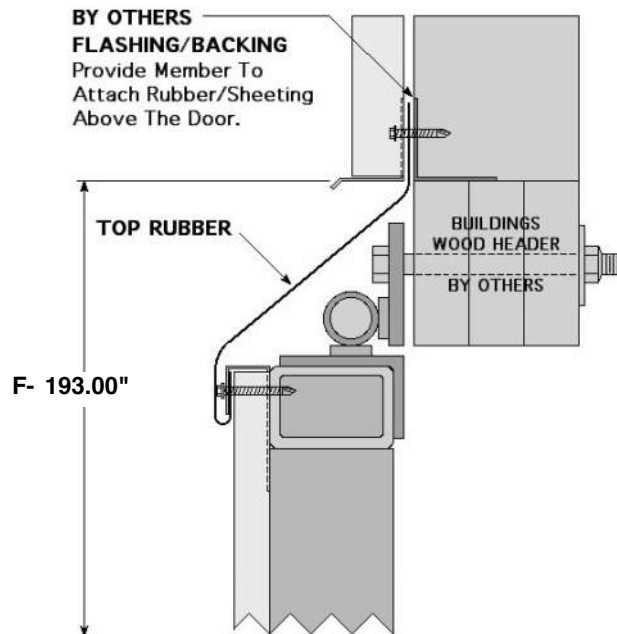
- Bolt Through Side Columns and Stub Columns.



Hinge Bolts provided by Schweiss will be **1/2 x 6 HB** Unless otherwise specified by customer.

#### Sheeting Above Your Bi-Fold Door

- Sheet above door at the height shown below.
- Provide proper backing to attach sheeting and door top rubber to at this height.



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### Owners / Building Manufacturers / Engineers / Architects / Contractors:

When working with contractors or construction companies **it is your responsibility to pass** this information on to them. The Building Manufacturer / **Engineer / Architect** / Contractor / Owner is responsible to ensure that the building structure is capable of handling all the imposed loads. All materials not supplied by Schweiss are the full responsibility of others!

**Building Manufacturer / Engineer / Architect / Contractor / Owner** is responsible for ensuring that the correct version of the A-1 thru A-7 Spec Sheets are being used for their door. Schweiss Distributing is **Not** liable for the **Building Manufacturer / Engineer / Architect / Contractor / Owner** using an obsolete or PRELIMINARY version of the A-1 thru A-7 Spec Sheets.

I have read through the FINALIZED Spec Sheets A-1, A-2, A-3, A-4, A-5, A-6, A-7 and agree to them.

Customer: \_\_\_\_\_  
SIGNATURE REQUIRED

Thank You :  
Sales Person 







Order Number:

Bid Number: 41124-JR

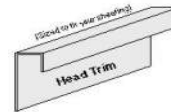
Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

## External Sheeting and Trim Provided By: Customer Responsibility

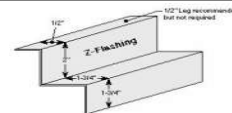
Leave your end wall open or un-sheeted until the door is installed! If the end wall is to be fully sheeted before the door is completed, do not nail or fasten the bottom of the sheets above the door frame.

### NOTE: SD = Sheeting Depth

A 16' H-Trim 26g. - 3xSDx1



B 16' Z-Trim 26g. - 1x2xSDx1.75

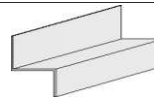


C 16' B-Trim 26g. - 2.75xSDx.75



	Qty	Length	
D	5	94.25"	Sheeting
E	5	90.25"	Sheeting

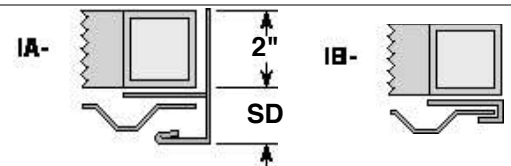
F  
H2  
G



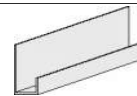
H 143 1" Fine Thread Tek Screws w/ Seal Washer

I 34' F-Trim 26g. - 2x2.75xSDx1

Customers choice on side trim style.  
Either style works well.  
If provided by Schweiss you will  
receive IA "F-Trim".



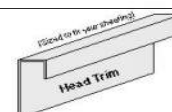
J



## Liner Sheeting and Trim Prov. By: Customer Responsible

Flash For Liner Sheeting = Not Set-Up for Liner Sheeting

K



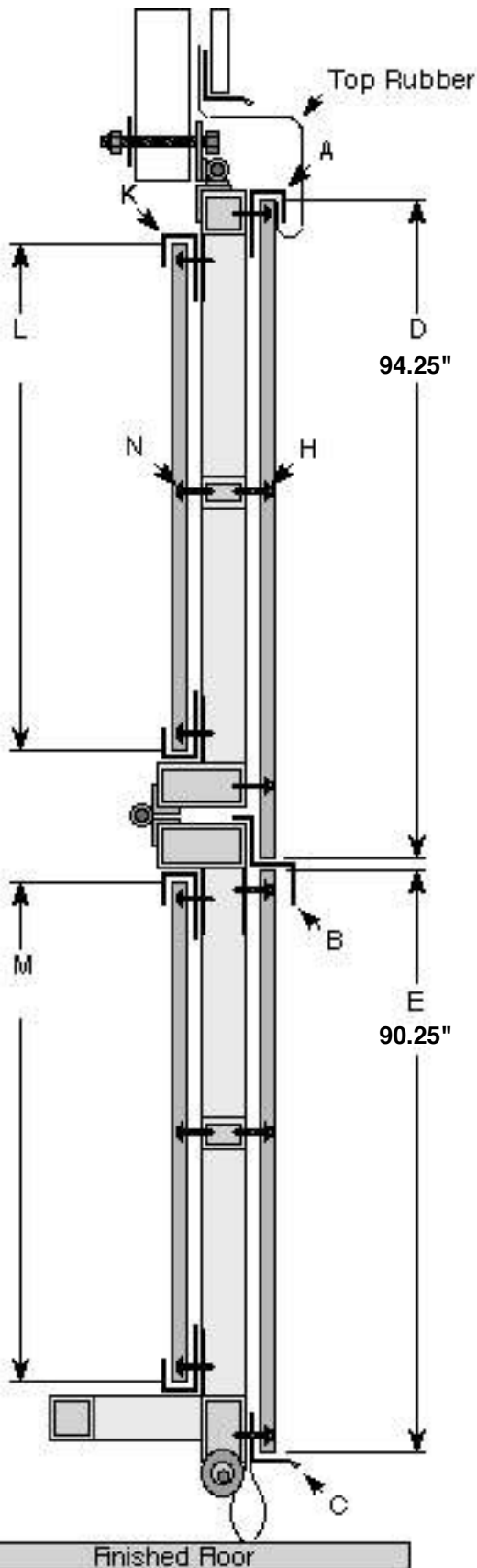
Qty Length

L

M

N

Hinge Bolts provided by Schweiss will be 1/2 x 6 HB  
Unless otherwise specified by customer.





Order Number:

Bid Number: 41124-JR

Door Width	Door Height	Wdg.	Overall Height	Door Style	Drive Type	Lift Type	Truss	Hinge Style	Tot W - Inches	Tot H - Inches
14'-0.00"	14'-0.00"	24"	16'-0.00"	SCHWEISS	Bottom Drive	Strap Lift	Internal	Single Hinges	172"	192"

## DETAILED DRAWING OBSTRUCTIONS INSIDE OF THE DOORS CLEAR OPENING

### Door Opening - Internal Clearance Required

When the bi-fold door comes with internal trusses and/or automatic side latches, the building manufacturer must provide the proper internal clearances inside of the doors clear opening. Schweiss is calling out the distances below and it is the customers/building manufacturers responsibility to ensure these clearances are met for your door to function properly. Pass this information on to your building manufacturer.

### VERY IMPORTANT: Keep This Area Clear of Obstructions

There must be no obstacles or obstructions inside of your clear opening at the dimensions listed below.

Examples: No Tapered Main Frames, Interior Walls, etc...

- W - Bottom Truss..... - Allow 8" back at 6" up.  
X - Strap Latches..... - Allow 9" In at 84" up.

