Nordic Steel Systems

Our mission is to do our part in bringing home construction methods and quality to modern standards.

Many excellent builders and progressive building systems providers exist; however, the residential building industry is often slow to adapt to change. The need for sensible housing solutions does not abate, and this has reached a nationwide crisis of housing accessibility.

Nordic Steel Systems offers a viable, long term value retention building alternative that utilizes sustainable materials and methodology to meet 21st century challenges and expectations.

Build it Faster Build it Better Build it Greener

Steel has long been utilized in commercial construction, where building codes and liability concerns are higher than those for residential. Quality, durability and safety factors in residential construction should be just as crucial to the long-term, actuarial bottom line as it is with commercial builds. We can have those same standards apply to residential building without necessarily increasing build costs.

Who Benefits?

Everyone does.

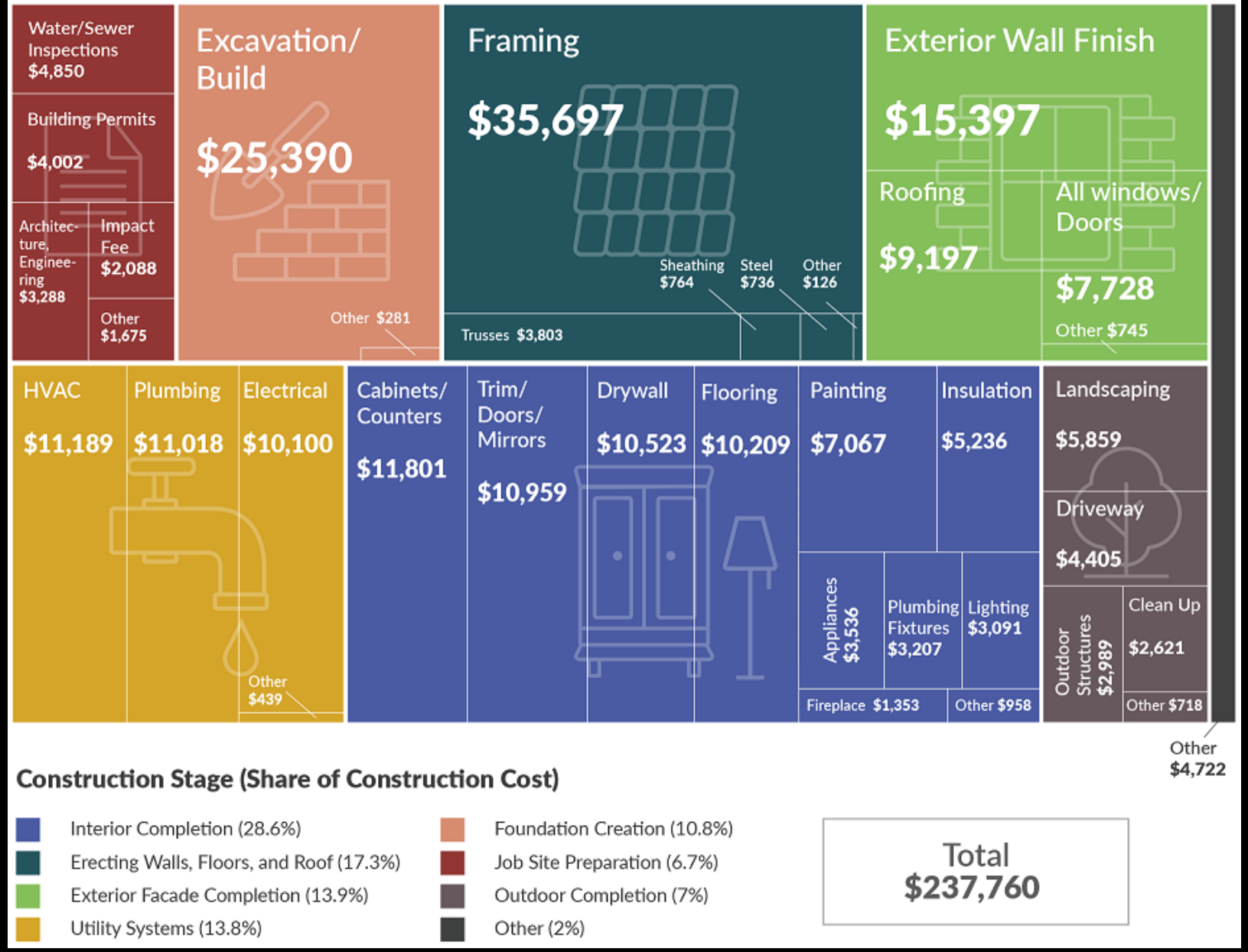
Builders will realize greater returns for greater build efficiency and accelerate completion and time to revenue.

Homeowners will benefit from greater quality, reliability, durability and energy efficiencies, not to mention more certain real property value appreciation, with reduced lifetime critical maintenance issues.

The Earth A lessened reliance on high carbon footprint methods and materials, less waste and lessened demands on the energy grid, benefits us all and future generations.

Two of the costliest , most time consuming and labor-intensive components of any new home build are: Foundations & Structural Framing. Add to this the shortage of skilled labor*, the increased cost of unsustainable building materials and methods, and it makes the current lack of available and dignified housing options turn from a mere concern to a national crisis.

*https://fortune.com/2016/09/06/housing-construction-worker-shortage/



Cost comparison of a 2600 Sq. Ft. Home

Nordic Steel Systems Cost

- **Foundation - $19,852**
  - **Savings of 22%**
- **Framing - $35,702**
  - **Comparative**

Time to completion

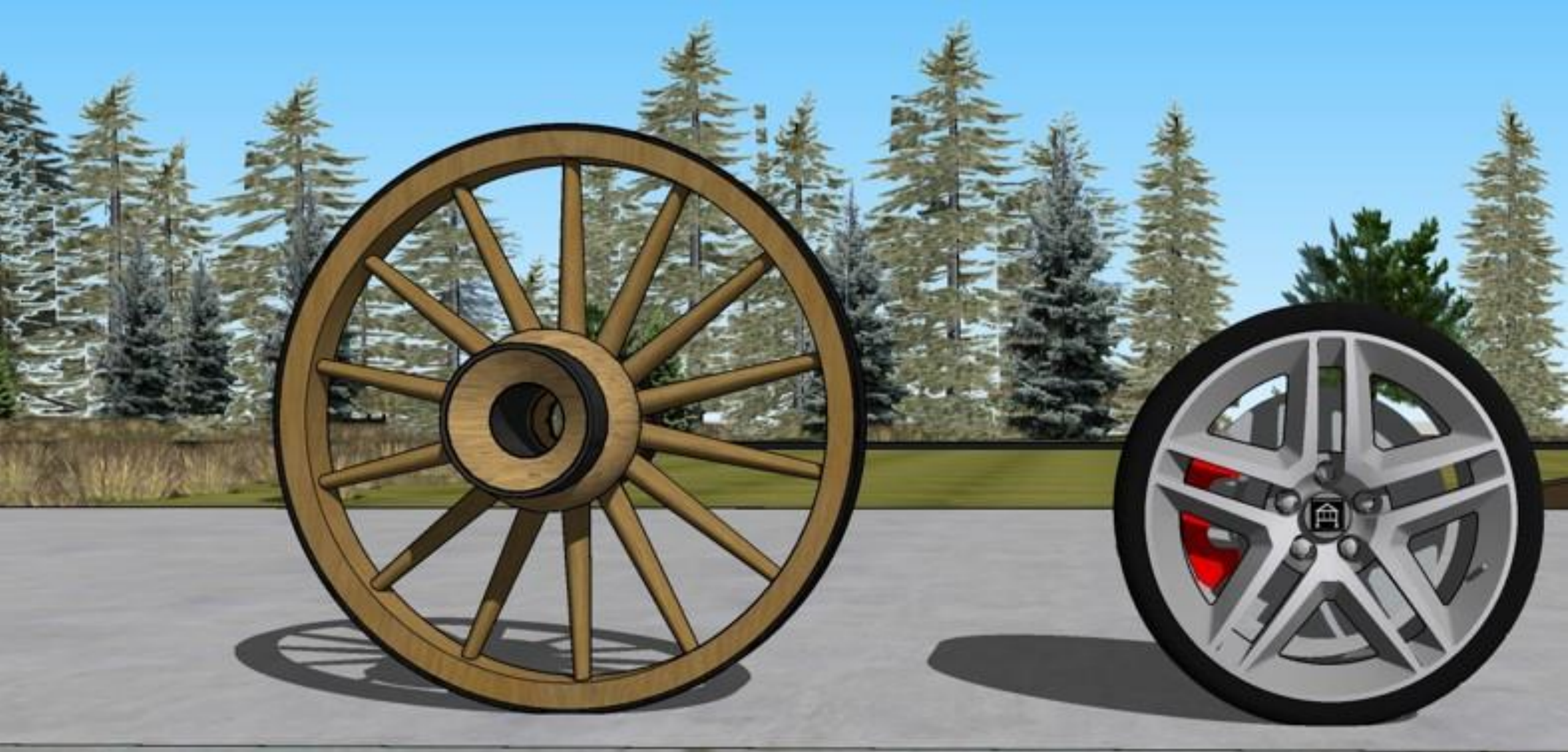
- **Foundation 2-3 days VS 2-3 weeks**
- **Framing 1-3 days VS 1-3 weeks or more.**

2019 National average costs from the NAHB *** From: https://www.nahb.org/**



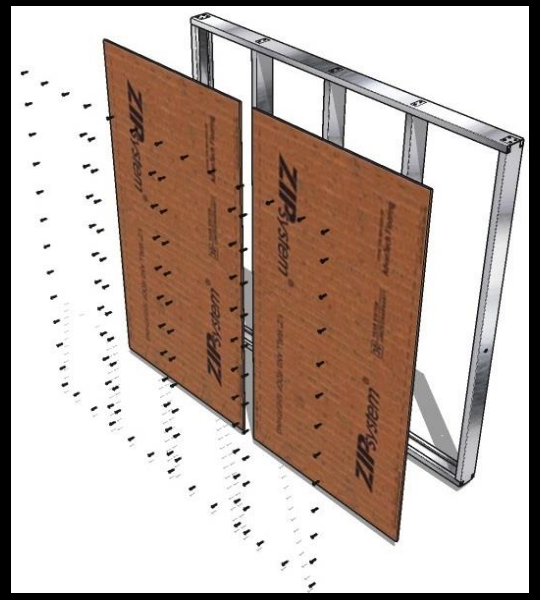

WE LIVE IN THE 21ST CENTURY YET WE CONTINUE TO BUILD WITH CENTURIES OLD METHODS, TOO RELIANT ON INCREASINGLY UNSUSTAINABLE MATERIALS AND WASTEFUL PRACTICES.

WE HAVE THE MEANS TO DO BETTER, BETTER FOR THE BUILDER, BETTER FOR THE HOMEOWNER, AND BETTER FOR THE ENVIRONMENT.



We’re Not reinventing the wheel, just making a better one, one far better able to ensure greater quality and longevity.

We have seen enough poor framing in brand new construction to know that we can and must offer a better alternative.



the SuperPanel™ System

- 10X stronger and more stable than comparable 2x6 lumber construction, straighter, won't crack, shrink, check, split, check or rot.
- Cut framing labor by 33% or more reducing labor cost in a labor short industry, complete exterior structural framing in a day, not weeks.
- Energy efficient, Class 1 Fire rating. LEED GREEN.
- Pre-fabrication ensures dimensional and angular precision greater quality assurance and easy set up at the job site
- Arrives on an as needed basis numbered and in sequence
- Reduces job site generated land fill waste
- Reduces time to revenue for the builder

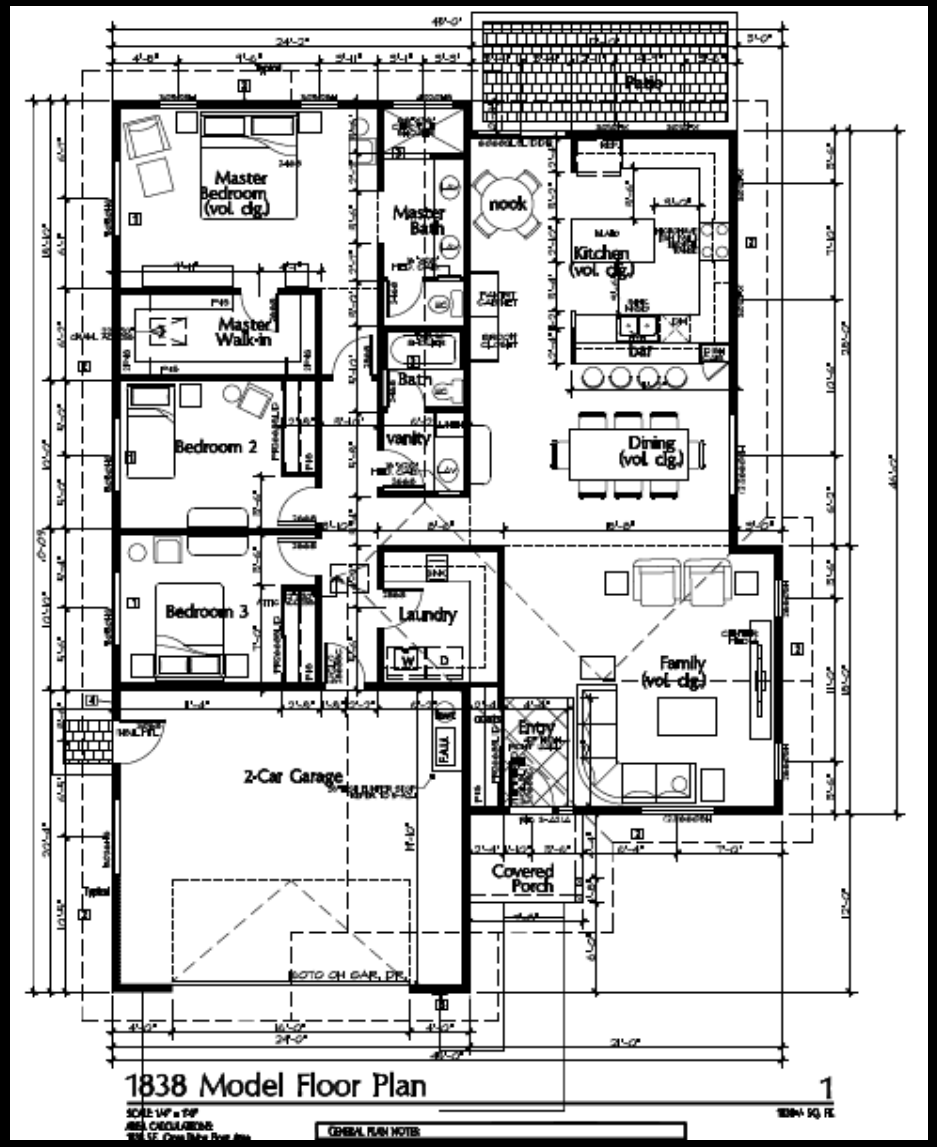
- Nordic Steel has developed a patented & multipurpose concrete free foundation alternative. We have 8 specialized models to meet most residential needs.
- More cost effective and every bit as durable as poured concrete foundations
- Minimal soil disruption allowing building to occur in greater number of locations and soil conditions.
- Extremely Eco friendly, minimizes soil disruption and its impact on the environment.
- 1/3rd Faster compared to poured concrete.
- Far more versatile & better suited to smaller modern housing needs and methodology.
- Lower Carbon Footprint.

Why Concrete Free?

A greener argument & approach.

- Although not necessarily doing away with the use of poured concrete in some cases, smaller, modern housing can now be easily built upon an engineered foundation system that affords the same permanence with additional benefits and none of the drawbacks of relying on its poured, monolithic concrete counterpart.
- Greener alternatives to concrete are now being sought worldwide as the global economy pivots toward dramatically lower emissions.
- Concrete and cement manufacturers are responsible for about 7 percent of global carbon dioxide emitted into the atmosphere every year, with copious volumes entering via limestone kilns needed to produce these materials.
- Manufacturers say they've struggled to find markets for greener methods but are not necessarily giving easy entree to alternatives offered to customers concerned about their impact on the Earth. Old practices must change in order to halt and reverse the damage caused to our environment.
- While architects and developers have traditionally concentrated on the energy used by their buildings once they're standing, it is in reality the materials required in their construction that represent the brunt of a structure's lifetime carbon footprint. Replacing high-carbon-intensity materials like concrete with greener alternatives can dramatically reduce or even offset greenhouse gas pollution.

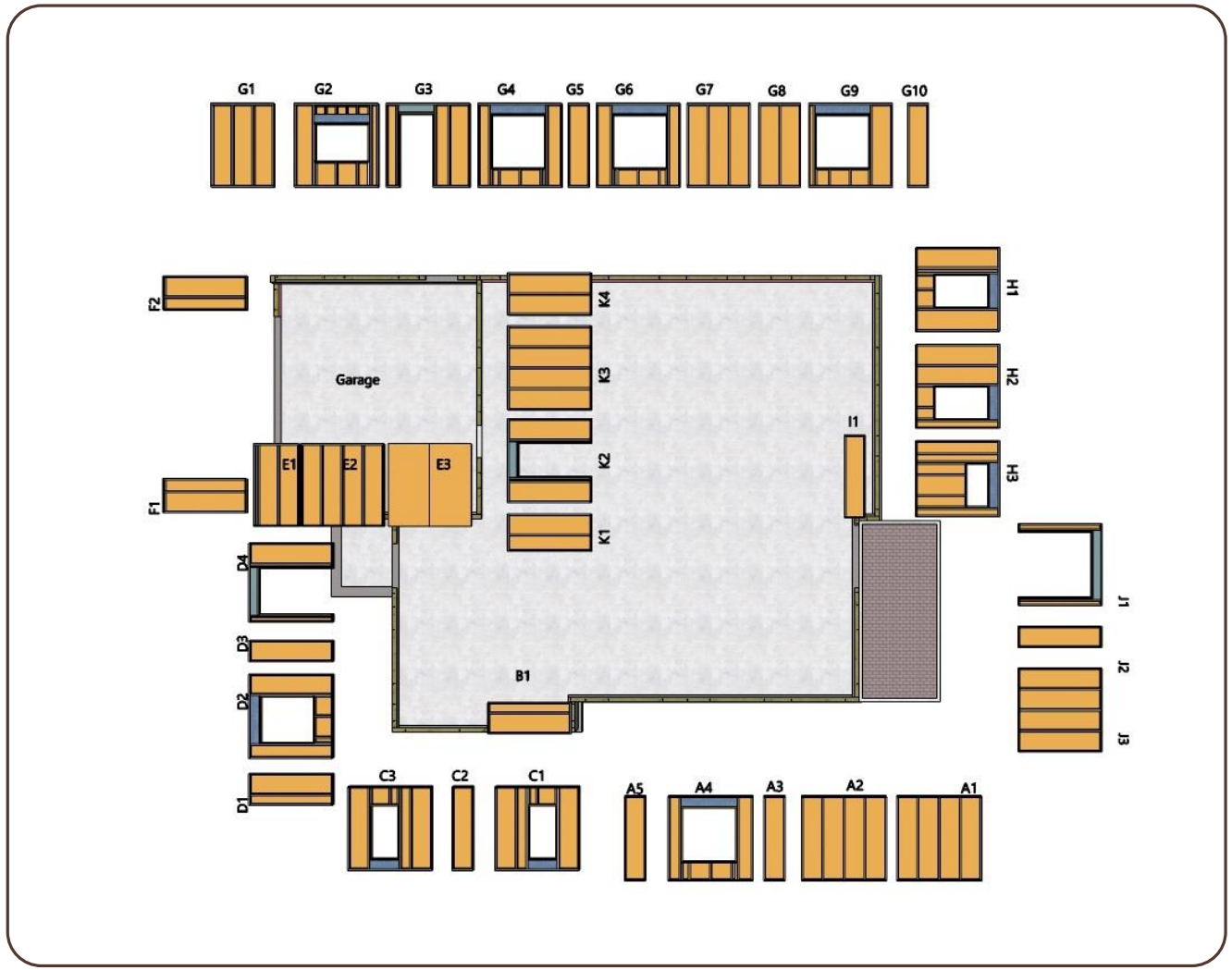
Converting plans to our system



Most plans can easily be converted to implement our SuperPanel™ system and a good number are a good fit for our concrete free foundation alternative.

Each Wall is carefully divided into individual panels that maximizes build efficiency and structural integrity

- All SuperPanels ™ Panels are delivered in carefully ordered stacks that follow the most efficient build sequence, saving time, effort and headaches.
- Although our SuperPanels™ ensure dimensional and angular precision, each wall section contains an adjustable panel to quickly resolve any foundation inconsistencies.



From Plan BIM (Building Information Modeling)

- We can show you every aspect of the build ahead of time.

To the real world: 4 men, 6 hrs. 40 min. to Complete the exterior, structural walls on this 2760 Sq. Ft Build.

Proper planning and logistics ensure a trouble free, exceptionally precise & labor-saving build.

We reduce Landfill waste generated at the job site.
A cleaner Job Site is a Safer Job Site and a much greener one.

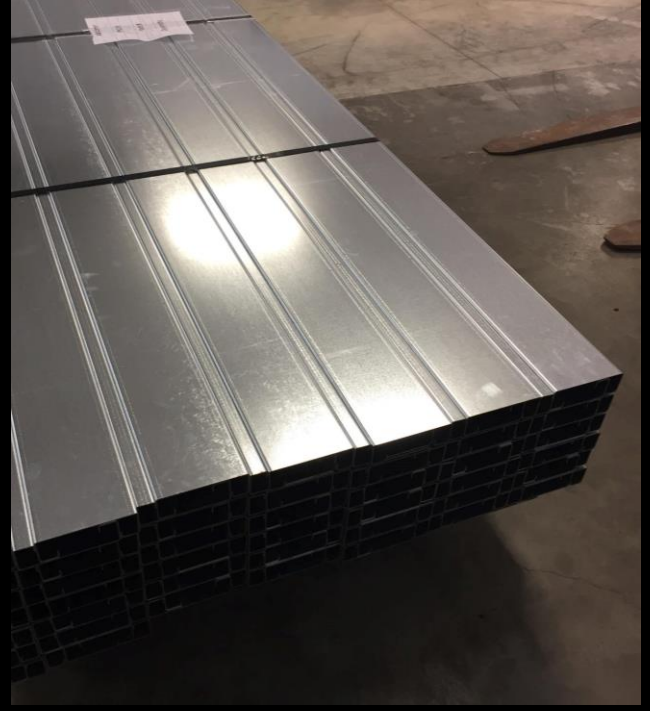
Lake Tahoe, Nevada

From residential, to large Commercial

To Remote Builds

Snake River, WY. 20 Mi. S. of Jackson Hole

WHERE IT ALL HAPPENS



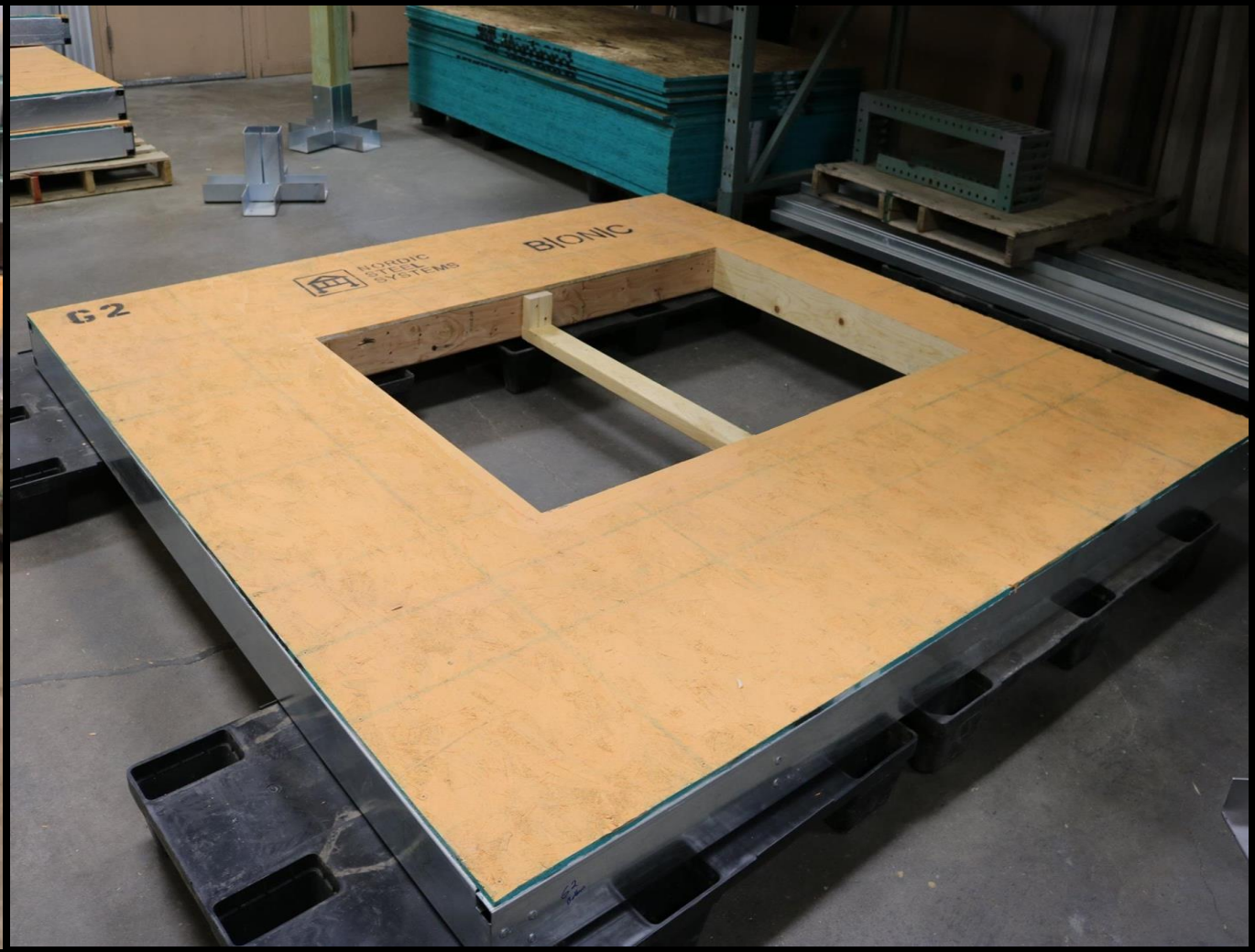
Custom, semi formed, 14 Gauge Steel components arrive, where they are cut, bent and assembled into specific, custom ordered SuperPanels™.

6’ Panel shown, no panel is wider than 8’. All sheathing is glued, screwed 6” OC and sealed to all steel components.

NORDIC STEEL SYSTEMS

Strength & Precision that far surpasses SPF framing

FACTORY CONTROLLED MANUFACTURE ENSURES PRECISON AND FUNCTIONALITY AT THE BUILD SITE



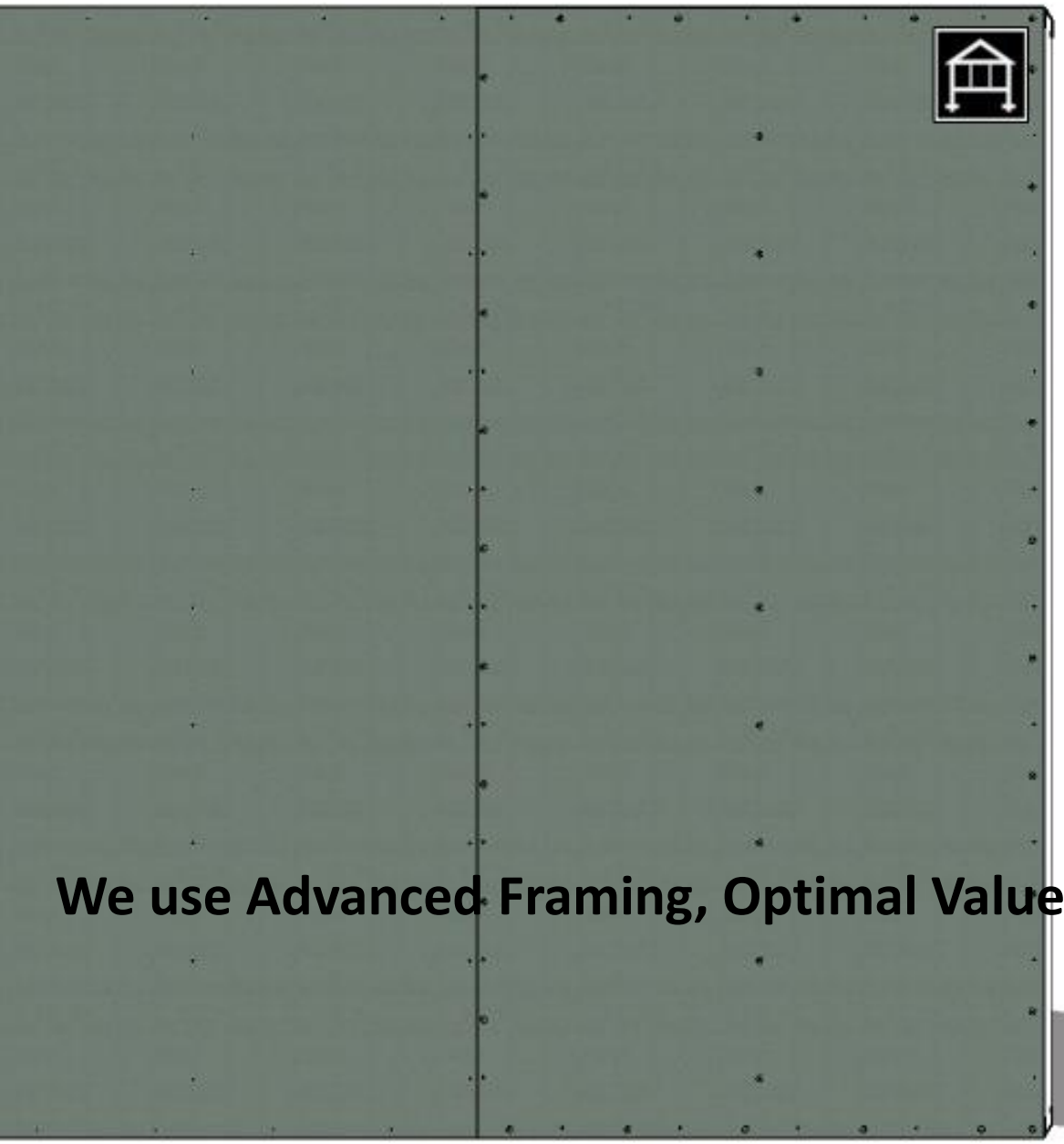
Planning , logistics and on time delivery maximizes build efficiency and your profitability.

NORDIC STEEL SYSTEMS SUPERPANELS™

ARE OFFERED IM 3 TYPES OF EXTERIOR SHEATHING

- Our SUPERPANELS™ ARE CLAD IN ½”, 5/8” & ¾” STRUCTURAL SHEATHING.
- PREMIUM OSB (ALL EXTERIOR SURFACES AND EDGES COATED IN ACRYLIC WATERPROOFING).
- ZIP™ 1/2 “ FROM HUBER ENGINEERED WOOD.
- ½” MgO (MAGNESIUM OXIDE) STRUCTURAL SHEATHING

FROM: http://extremegreenbp.com/



We use Advanced Framing, Optimal Value Engineering 24” OC Spacing of 14 Ga. G90 Steel

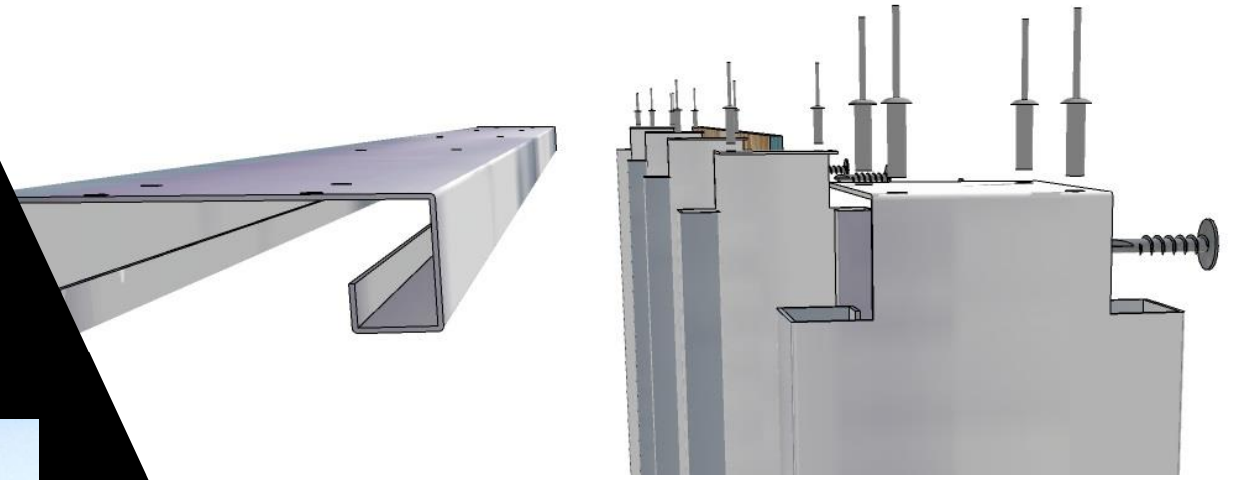
WHY 14 Ga. Galvanized Steel?

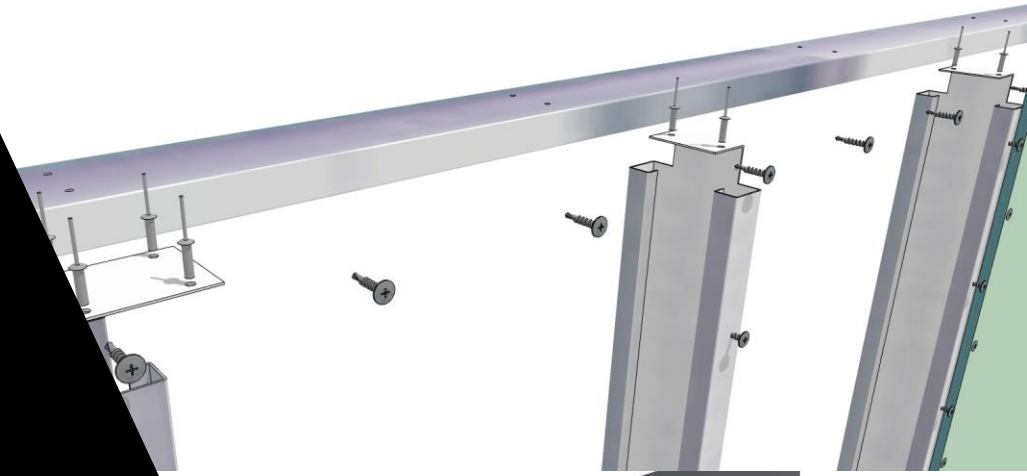
Allowable combined Axial & Lateral Loads - Nordic Steel 14 Gauge SuperPanel™

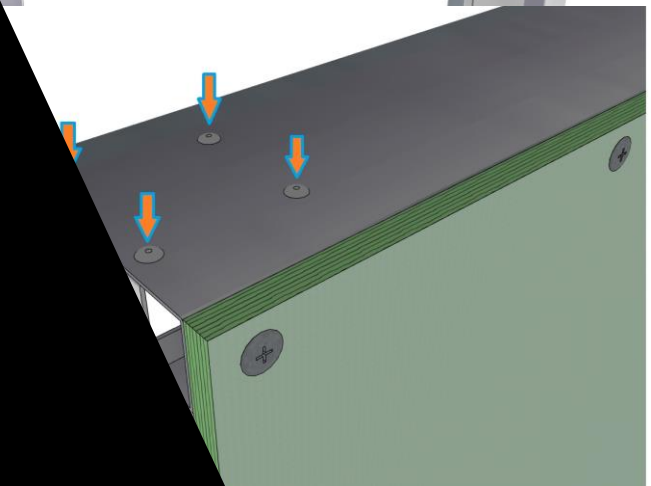
Wind Load PSF	14 Gauge (50 KSI) @ 24" OC 8' Length 5" Width 1 5/8" Depth	14 Gauge (50 KSI) @ 16" OC 8' Length 5" Width 1 5/8" Depth	16 Gauge (50 KSI) @ 24" OC 8' Length 5" Width 1 5/8" Depth	16 Gauge (50 KSI) @ 16" OC 8' Length 5" Width 1 5/8" Depth
5 PSF	7.33	7.41	5.49	5.57 *
15 PSF	6.88	7.10	5.02	5.25
20 PSF	6.65	6.95	4.79	5.10
25 PSF	6.43	6.80	4.56	4.94
30 PSF	6.21	6.65	4.33	4.79
35 PSF	5.99	6.50	4.11	4.64
40 PSF	5.77 *	6.35	3.89	4.88

* Using 14 Ga. @ 24" OC provides greater Axial & Lateral load resistance with Wind Loads of 40 PSF, than 16 Ga. @ 16" OC with wind loads of 5 PSF.

FACTORY CONTROLLED PRECISION DELIVERED TO YOUR JOB SITE



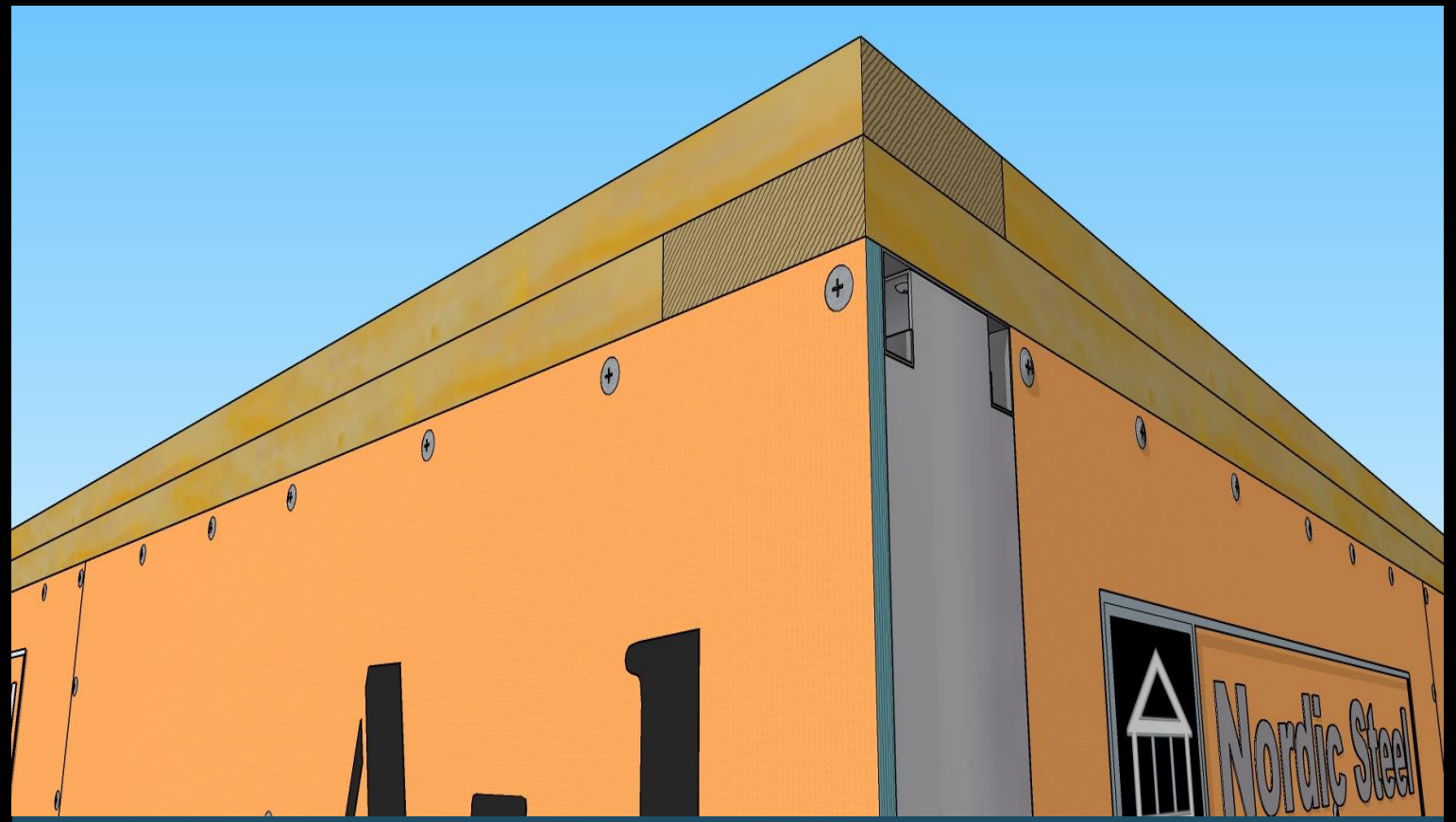




STRUCTURAL BLIND RIVET – DIAMETER .25

-.350" - .625" – BH – ST/ST

TENSILE STRENGTH	1850-2200 LB
SHEAR STRENGTH	2500-2750 LB
HEAD	BUTTON
HOLE SIZE	0.261" – 0.272
FINISH – BODY / MANDREL	PLAIN
DRILL SIZE	F
MATERIAL – BODY / MANDREL	STEEL / STEEL
GRIP SIZE	0.350" – 0.625
DIAMETER	¼"
SPECIFICATION	IFI130
SERIES	SB8-10KL
TYPE	STRUCTURAL
HEAD HEIGHT	0.117"
LENGTH	0.810"
WEIGHT	0.6



WHAT IS MODELED AND BUILT IN A FACTORY CONTROLLED SETTING, MAXIMIZES EFFICIENCIES ON BUILD DAY.

LET US SHOW YOU HOW WE CAN MAKE YOU A FAR BETTER BUILDER