



## **Site Specific Engineering of Long Span Structural Support Steel Trusses**

2 Force Systems is pleased to provide this submittal for your review. We look forward to hearing from you.

In consideration of the use of 2 Force Systems on your current and future projects, should the 2 Force Systems standard summary sheet not meet your requirements, upon your request, 2 Force Systems' Structural Engineers will provide sealed calculations to meet your project needs.

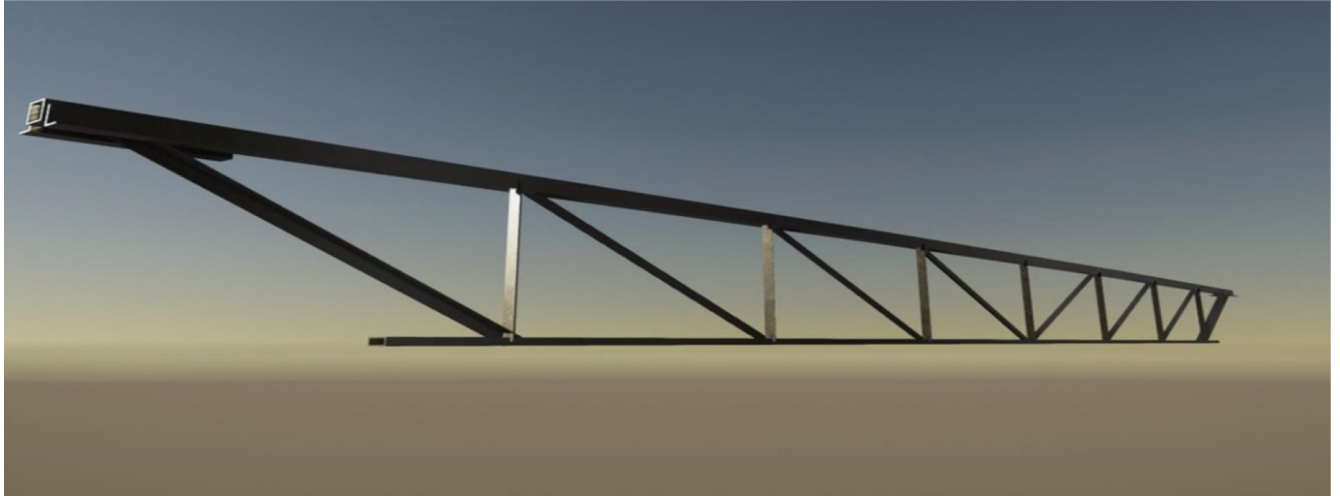
We include herein some background on 2 Force Systems for your review.

If you have any questions or concerns, please feel free to contact me.

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**We attach below some information about 2 Force Systems and its unique advantages to your long span structural needs.**



Emanating from years of intense focus, meticulous research, and innovative design work, 2 Force Systems has engineered a wholly new, leading-edge, creative means to achieve our clients' construction objectives.

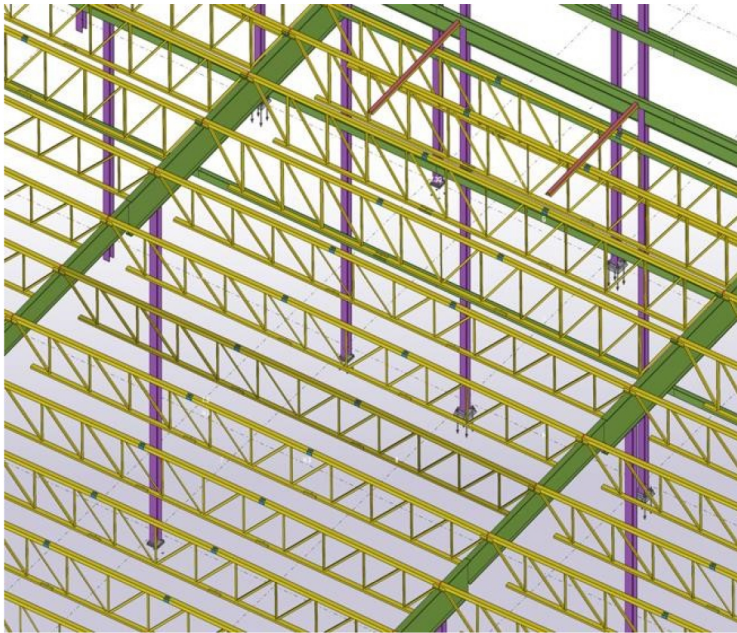
## **2 Force Systems—A Unique Methodology to Meet Market Demands**

Our 2 Force Systems, LLC [2FS] team of designers, researchers, and engineers have created a revolutionary structural product to meet and exceed our clients' continuously evolving needs.

Our unique and unparalleled solutions for a multitude of varying structures, including those that require long spans and must support heavy loads, differentiates us from traditional, existing systems. We offer our clients a new approach to the design and construction of structures.

## **The 2 Force Distinction**

Whether your roof systems need to span extensive distances, support additional utilities, or allow for multiple types of decking, 2 Force Systems can meet and exceed your specific requirements without the same limitations of traditional steel systems.



2FS has developed superior, more efficient, and highly versatile long span steel and elevated floor designs.

The industry has undergone enormous changes in the past few years, leaving many businesses and entities out of options for their structural concerns. In response to the needs of today's marketplace, 2FS has carved a unique niche by providing designs and delivering products that are specifically tailored to clients' needs.

## Flexibility is Essential to More Complex Designs

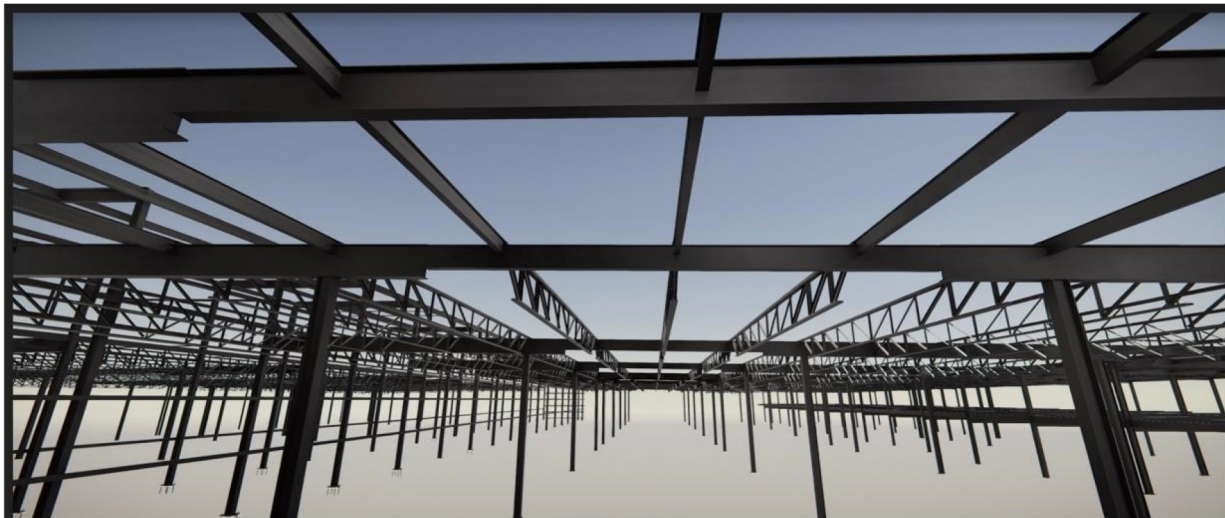
Our brand is distinguished by a key component to our product, **FLEXIBILITY**.

2 Force Systems offers versatility in design, unlike traditional systems, enabling our team to adjust to your important nuances, complexities, and the unique requirements of each project.

Due to the 2FS flexible design, we can utilize a vast number of fabricators across the U.S., without sacrificing integrity, expediency, or quality. We ensure that each fabricator we rely upon meet the stringent AISC certification standards.

### **Our Ingenuity and Innovative Concepts Offer Key Advantages**

The unique nature of our versatile design allows more creativity in the planning and design phase of your structure, while also mitigating any issues or concerns that might arise when trying to incorporate all the elements involved in your structure.



### **How We Differ from Existing Systems**

An important differentiator about 2 Force Systems is that our product can be fabricated and shipped within a few short months, which is key to meeting our clients' objectives. Given the scarcity and huge backlog of materials available in today's marketplace, this is an exceptionally significant benefit and value to you.

Depending on the complexity of your structure, we are typically able to fabricate and deliver 2 Force Systems to your jobsite within a much shorter period than traditional



systems. This affords you tremendous time savings and the expediency that makes a substantive difference in today's competitive world.

## Substitution Request

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\_\_\_\_\_  
Project

\_\_\_\_\_  
Date

\_\_\_\_\_  
Project Location

\_\_\_\_\_  
Project Number

\_\_\_\_\_  
General Contractor

\_\_\_\_\_  
File

\_\_\_\_\_  
Prepared by

\_\_\_\_\_  
We certify that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-mentioned project

The undersigned certifies that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item and is in full compliance with the Contract Documents and applicable regulatory requirements.

**Supplier**      2 Force Systems, LLC.

**Signature** \_\_\_\_\_

**Telephone No.** 770.417.6040

**Date** \_\_\_\_\_





Signature must be by person authorized to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in retraction of approval.

General  
Contractor  
Telephone  
No.

-  
-  
-  
-

Signature

Date

## 2 Force Systems include the following design products and specifications:

1. 2FS is a structural steel member designed to carry heavy loads over long distances relative to other long-span steel framing systems as repetitive members.
2. The design concept is to provide a truss that is useful in most any span environment, without the clutter of added pieces, and under most any building code structural load requirements.
3. Customization of loading conditions, including both top and bottom chord members, are easily addressable without changing the fundamental geometric profile in most circumstances.
4. Wide spacing between the trusses is recommended to allow greater economies.
5. 2FS is especially well suited for high wind uplift regions because far less bridging and/or diagonal bracing between trusses is needed.
6. 2FS is designed to be erected in the same fashion as most repetitive joist elements with seats that connect on top of supporting main steel members.



7. Fewer trusses and less bridging commonly equates to shorter steel erection timeframes on 2FS projects relative to conventional long-span steel framing solutions.
8. 2FS is not limited to only a handful of fabricators. Any AISC certified fabricator has the capability to fabricate and deliver our products.
9. 2FS is designed to be compliant with the 15<sup>th</sup> edition of the AISC Steel Construction Manual in all technical respects, including material specifications.
10. Design calculations can be submitted, upon request, for primary truss member designs. Connection details and calculations cannot be submitted for proprietary design protection.