

STRUCTURAL & ARCHITECTURAL DETAILERS

You Design It, We Model, Detail and Deliver the Drawings

All in a days work

Location is not an issue in this digital age to get things done



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3D STRUCTURAL DETAILING SERVICES LIMITED

3DSDS



Everything we do for our Clients is bespoke, i.e. all elements are individually modelled to your requirements.

3D STRUCTURAL DETAILING SERVICES LIMITED - (3DSDS)

We are passionate about 3D Structural & Architectural Detailing, but this is not all we do.

PORTFOLIO

For more information, please email enquiries@3dsds.co.uk
or give us a call on +44 (0) 74 8194 0018

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About

3DSDS was founded by Teresa Benson-Shettle in 2018, and the main mission was to provide affordable professional services to the Construction Industry. Having been in the construction industry for over 25 years with experience using AutoCAD R9 to 2023, Advance Steel, Revit, Creo Elements, FreeCAD, SolidWorks, Draftsight 2D and SketchUp and many more.

3DSDS uses the latest AUTODESK Software and has experience in producing 2D, 3D, Structural Detailing, Range Design to JSP 403 & Planning Drawings.

Teresa also worked in the past at Graitec UK, developing, teaching and supporting AutoCAD and Advance Steel.

In her years as a Structural Technician and Project Engineer she has worked on various projects for construction that have been located all around the world, these included the following:-

3D Printed Projects, Balconies, Bespoke Metalwork (Cage Units, Chairs, Park Benches, Shelving Units, Tables), Fire Escape Staircases (Spiral and Straight), Mezzanine Floors, Portal Frame Structures, Residential and Commercial Steelwork, Sheet Metal Work, Shooting Ranges (MOD), Timber Frame Structures & Telecommunication Towers.

When Teresa started the Company, her vision was to provide a professional affordable service in the Steel Industry and as a company work closely with our clients to produce the design and fabrication drawings with all the necessary documentation using the specifications provided.

3DSDS will firstly produce drawings for approval once approved we will complete the project and issue all the necessary documentation and drawings for fabrication, if required we can offer Structural Calculations as we use an independent Structural Engineer.

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Services

- 2D Draughting Services
- 3D Modeling & Detailing Drafting Services
 - 3D Prototype Printing
- CAD Training – AutoCAD & Advance Steel
- Technical Support – AutoCAD & Advance Steel
 - Printing Services – A1, A2, A3 & A4
- Conversion to CAD – PDFs and Image Files to CAD
 - Conversion to CAD - Point Clouds
 - Landscape Design
 - Rendered Visuals & Videos

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Software

Here at 3DSDS we use the following software:-
AutoCAD – Versions 2021, 2022, 2023
Advance Steel – Versions 2021, 2022, 2023
Revit – Versions 2021, 2022, 2023
Twinmotion – Version 2022



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TESTIMONIALS

Alan Staton Bower-Bennett Ltd

"Teresa has a vast technical knowledge and she understands what she's doing. She's aware of contractual commitments and always works towards helping you achieve them. Teresa is personable and is easy to communicate with. She grasps the problem and is business like in solving it."

Matt Covil - Cubic Defense (UK)

"We sat a 3-day introduction to AutoCAD course with 3DSDS, (Teresa) and it was delivered on point, and everything was tailored to our needs. The course was delivered with a lot of hands-on work, (which is a must) and documented "how to" information for reference was also handed out and very useful. If you are looking to get started with AutoCAD, I would highly recommend this course!"

Eddie Gevorkian CEO 1 Techno Canada

"Teresa was instrumental helping my new team at 1Techno (Distributor for GRAITEC) get on their feet. For the past five years she has been a gem, putting her heart into every project. Her people skills are excellent."

Peter Scannell - Macai Projects Ltd

"3DSDS provided a fast, efficient and effective service, often delivering what was asked ahead of schedule. Any queries were dealt with straight away. I would have no hesitation in using them again or recommending them to others."

Russ Uridge - DesignBYRuss

"Teresa is an exceptional tutor. Very thorough with very in-depth knowledge of Advance steel as well as the fabrication and erection processes. She has very good communication skills and is a great judge of what you need to proceed. Every minute was valuable, and I would recommend her to anyone of any ability."

More can be found on our website at <https://www.3dsds.co.uk/testimonials>

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2022

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REVIT 2022

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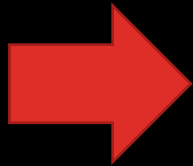


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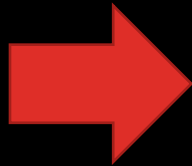
STAGES OF WORK

STEP 1



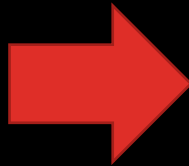
Clients request a Quotation from provided information

STEP 2



On accepted, Invoice sent with a maximum of a 3 Staged Payment Schedule

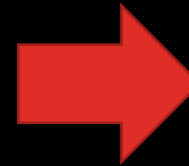
STEP 3



Start Project, Once 3D model is created an Online link to a 3D Viewer is provided and GAs for Approval is sent,

GAs Include:-
Plans, Isometrics and Elevations

STEP 4



Once GAs are Approved the Fabrication Package is started

Fabrication Pack Includes:-
GAs
BOMs (Bill of Materials)
Assemblies
Single Parts
NC & NCDXF Files (For CNC Machine)



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DETAILING SERVICES

1 - 3D Model Created

2 - GA Drawings for Approval

3 - Assembly & Part Drawings

4 - NC & NCDXF Files & Reports

WORKFLOW

Information from Client

RFI

3D Model - Placing Members & Connections

3D Model Review via online viewer for Approval

GAs for Approval

Fabrication Documentation

Documentation Package to Client

WE WORK FOR

- Structural Engineering Consultants
- Fabricators
- Architectural Firms

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A Advance Steel 2023

A AutoCAD 2023

R Revit 2023

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WHAT WILL I GET FOR MY MONEY?

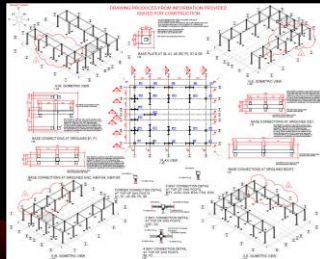
Software used – Advance Steel 2023 – (from May 2022)

The Fabrication Pack includes the following information:-

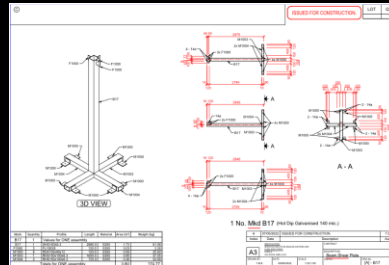
- GAs – PDF Format
- Assemblies – PDF Format
- Single Parts – PDF Format
- NC & NCDXF – .nc Format & .nc.dxf Format
- BOMs – (Bill of Materials) – Bolt List, Material List, Assembly List, Loading List.



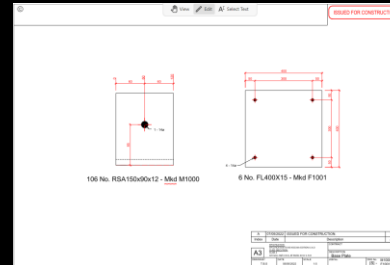
GAs – PDF Format



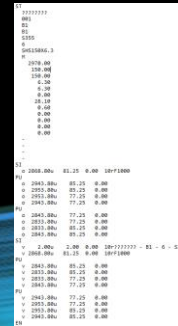
Assemblies – PDF Format



Single Parts – PDF Format



NC Files -
 .nc Format



NCDXF - nc.dxf format – CAD file

Item	Length	Grade	Quantity	Type	Weight	Total
(mm)	(mm)				(kg)	(kg)
100 No. R5A1500x12 - Mod M1000	100	R5A	100	Beam	100	100
5 No. FL400x15 - Mod F1001	5	FL	5	Flange	5	5

BOMs – (Bill of Materials)

Mark	Size	Quantity	Grade	Length	Width	Weight	Total	Surface	Total
(mm)	(mm)			(mm)	(mm)	(kg)	Weight	Area	Description
B1	S401500x12	6	S355	2470	83.5	506.9	1780	10.682	Straight Beams
B2	FL400x15	5	S355	1730	43.5	177.5	1.775	0.881	

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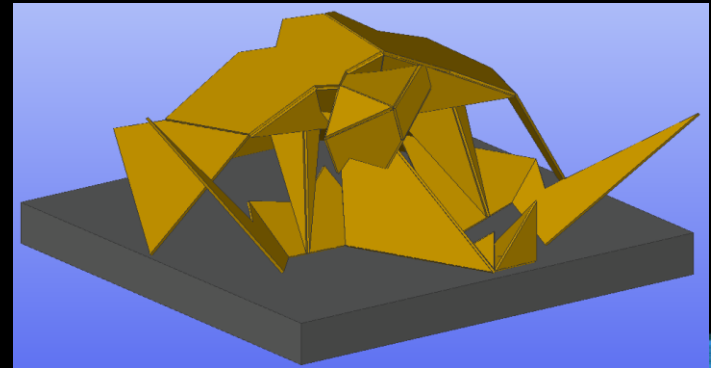
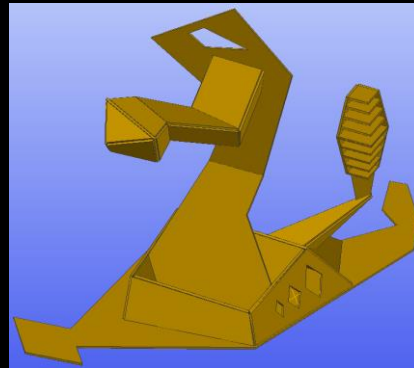
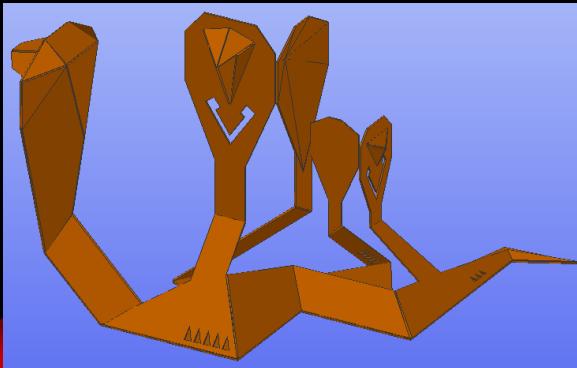
ABSTRACT SCULPTURES

Given 5mm Foam Board Models to create these sculptures from, and generated the fabrication documentation.

Sculptures:-

1. Cobras
2. Rattle Snake
3. Goshawk

Just proves Advance Steel can be used for many different things.



Software used – Advance Steel 2023

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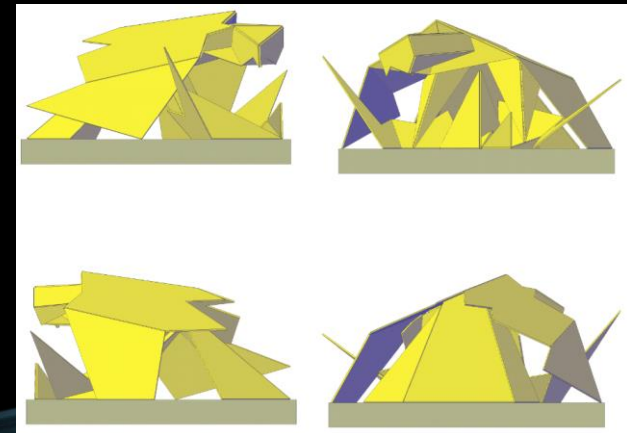
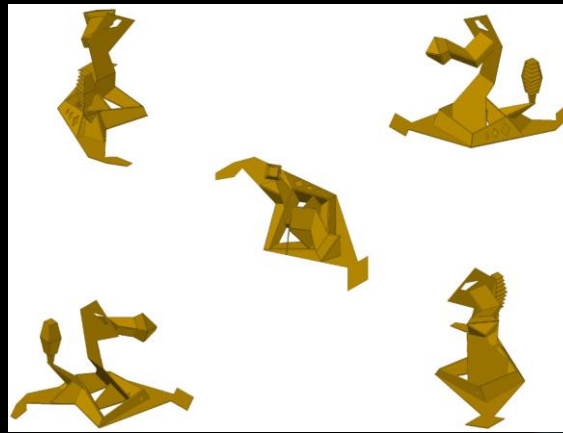
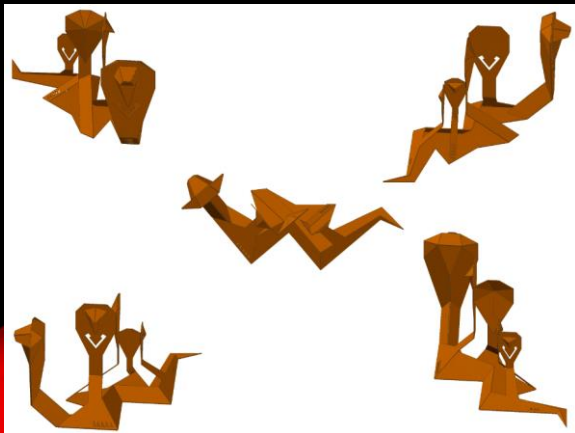
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Advance Steel
2023

AUTODESK

Software used – Advance Steel 2023

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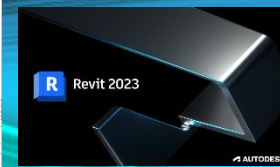
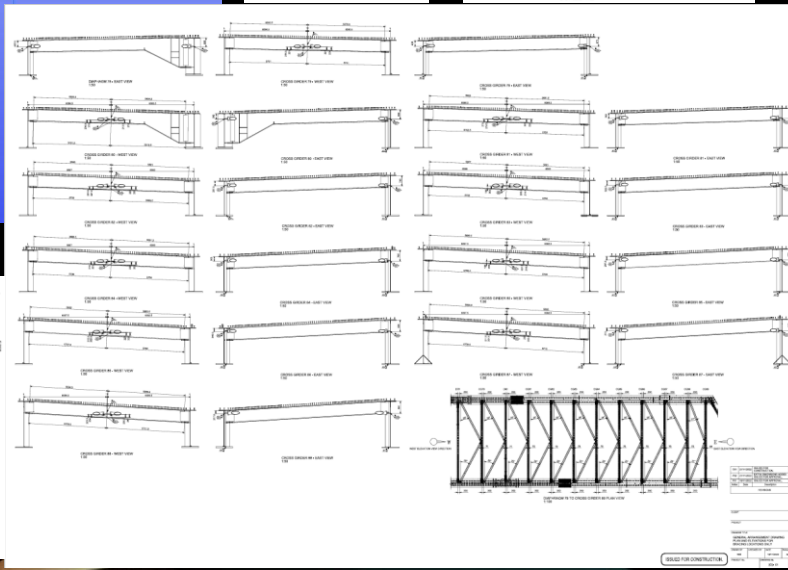
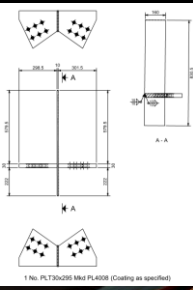
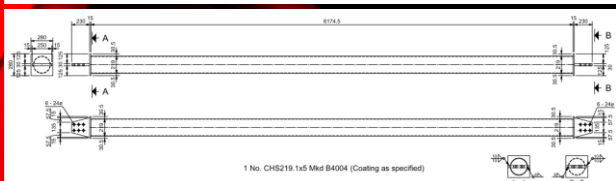
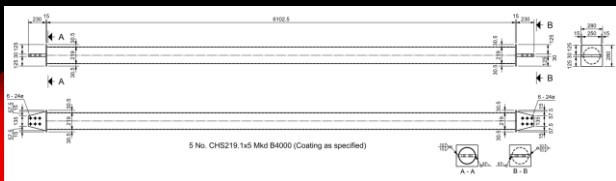
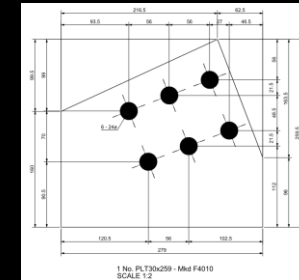
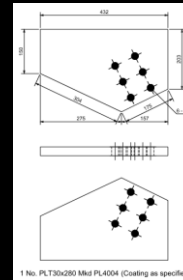
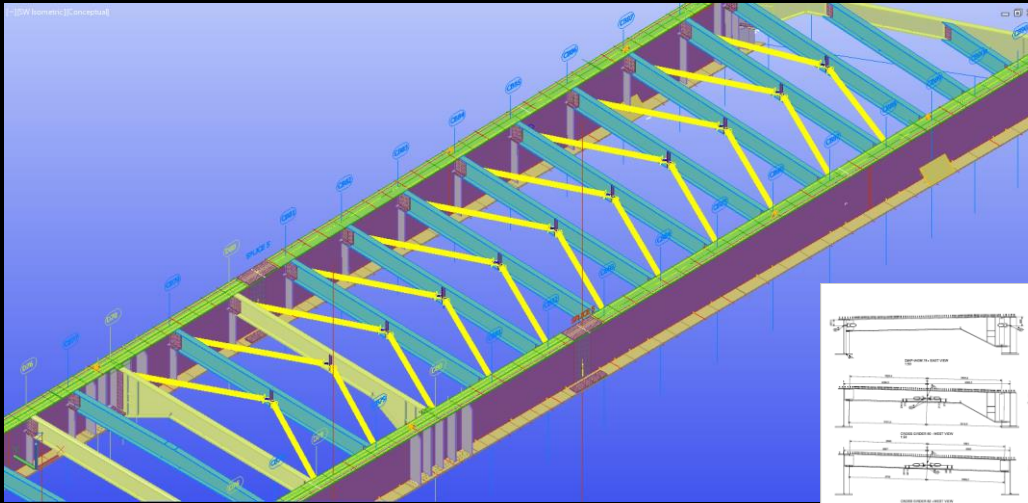
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BRIDGE BRACING OUT FOR FABRICATION



Software used – Advance Steel 2021 – NOVEMBER 22 – AS PER CLIENTS REQUEST

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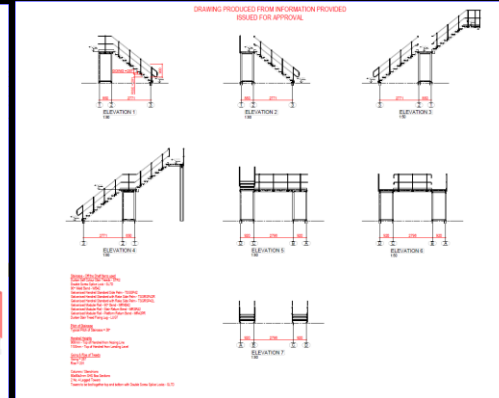
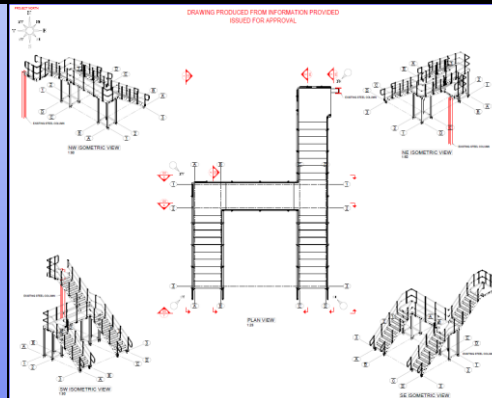
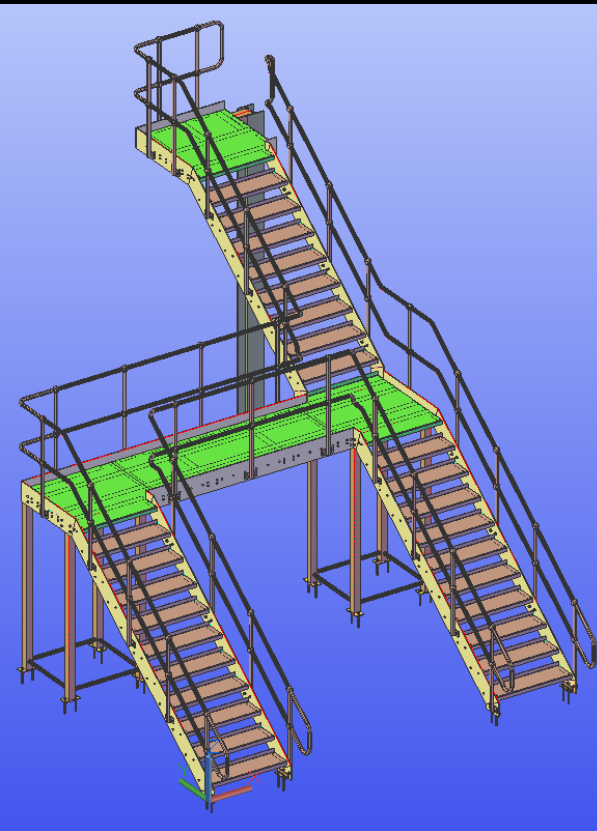
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WALKWAY STAIRS & RAILINGS OUT FOR FABRICATION



SCOPE OF WORKS

Staircase – Must use off the Shelf Items – brought into Advance Steel using Special Parts
Durbar Self Colour Stair Treads - STR2, Double Screw Splice Lock - SL7D, 90° Weld Bend - WB42,
Galvanised Handrail Standard Side Palm - TSGSP42, Galvanised Handrail Standard with Rake Side Palm - TSGRSP42R
Galvanised Handrail Standard with Rake Side Palm - TSGRSP42L, Galvanised Modular Rail - 90° Bend - MRNB42
Galvanised Modular Rail - Stair Return Bend - MRSR42, Galvanised Modular Rail - Platform Return Bend - MR42PR
Durbar Stair Tread Fixing Lug - LUG7

Pitch of Staircase

Typical Pitch of Staircase = 38°

Handrail Heights

900mm - Top of Handrail from Nosing Line, 1100mm - Top of Handrail from Landing Level

Going & Rise of Treads

Going = 257, Rise = 201

Columns / Stanchions - 80x80x3mm SHS Box Sections, 2 No. 4 Legged Towers

Towers to be tied together top and bottom with Double Screw Splice Locks - SL7D

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A Advance Steel
2023

A AutoCAD 2023

R Revit 2023

Software used – Advance Steel 2022 – AUGUST 22

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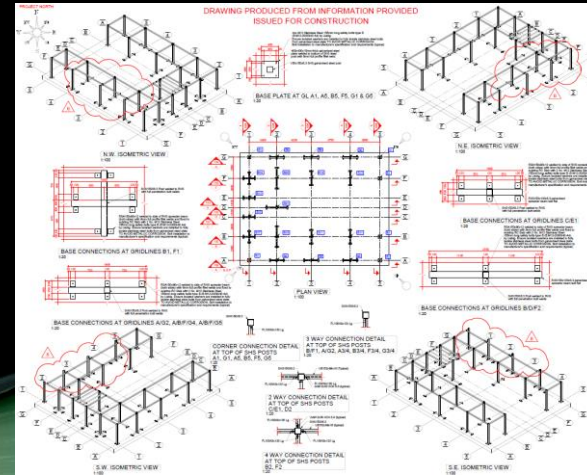
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FINISHED PROJECT PHOTOS



It is always great to see the finished job after hours of detailing work to create the GAs, Assemblies and Fabrication Documentation.

Pergola Design for Office Garden.



Software used – Advance Steel 2022 – MAY 22

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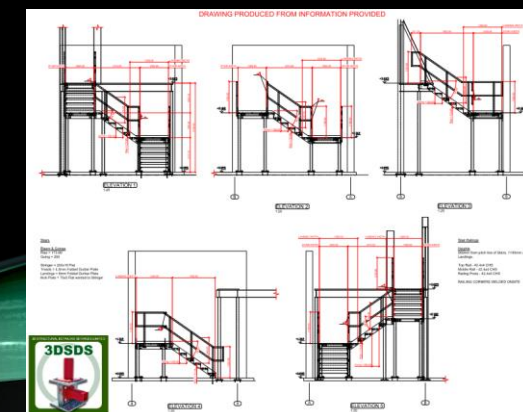
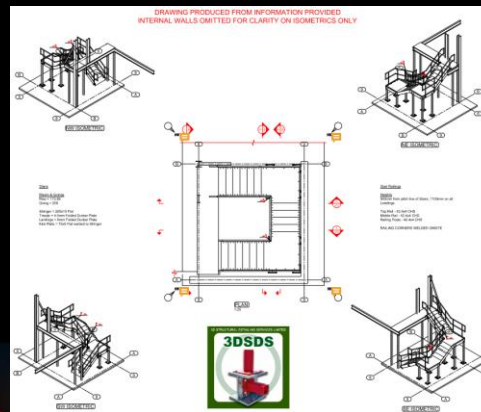
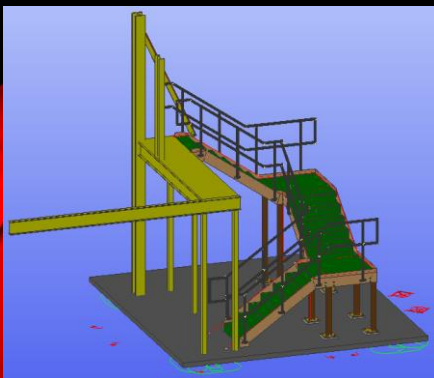
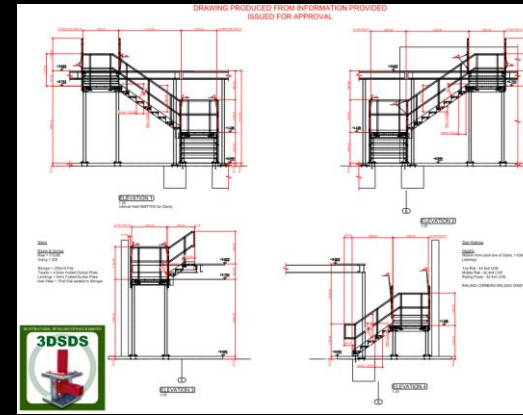
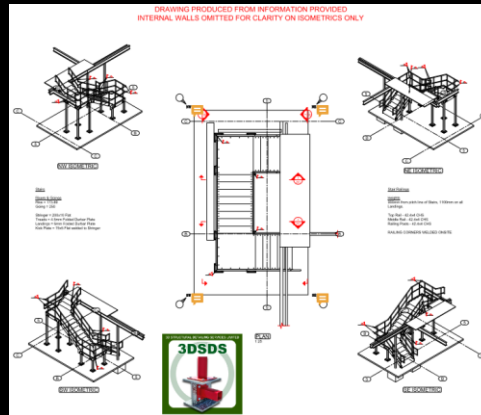
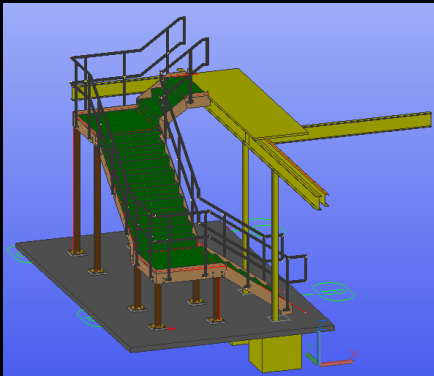
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SET OF STAIRS & RAILINGS OUT FOR FABRICATION



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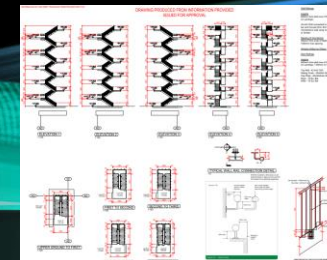
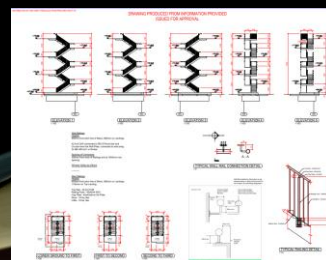
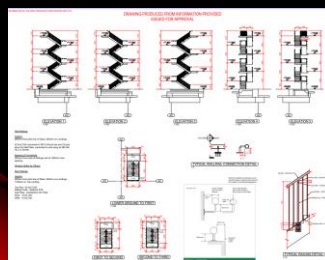
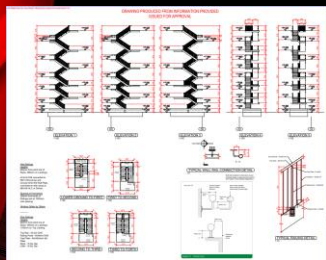
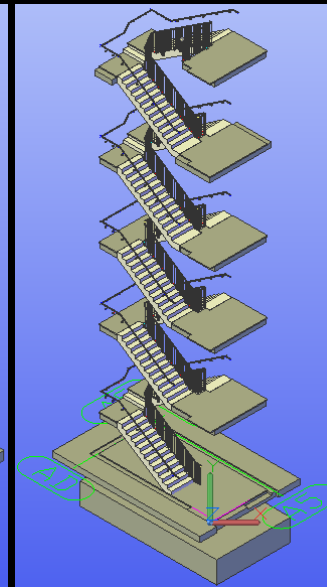
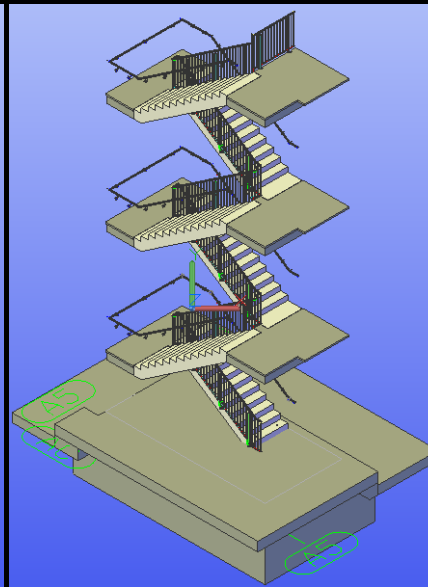
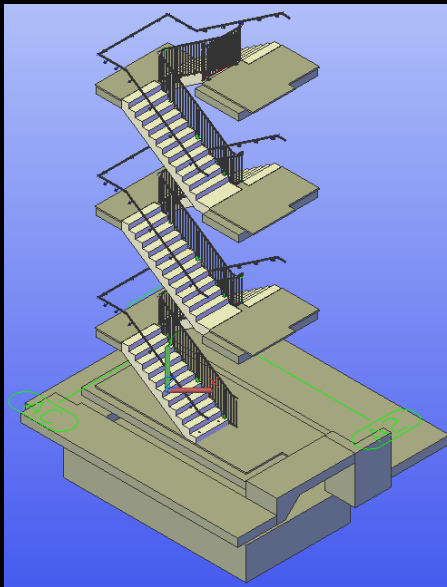
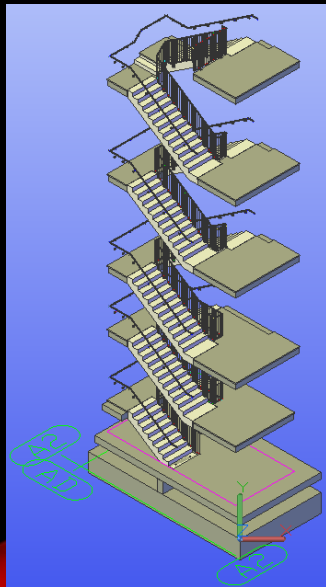
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Software used - Advance Steel 2022 - July 22

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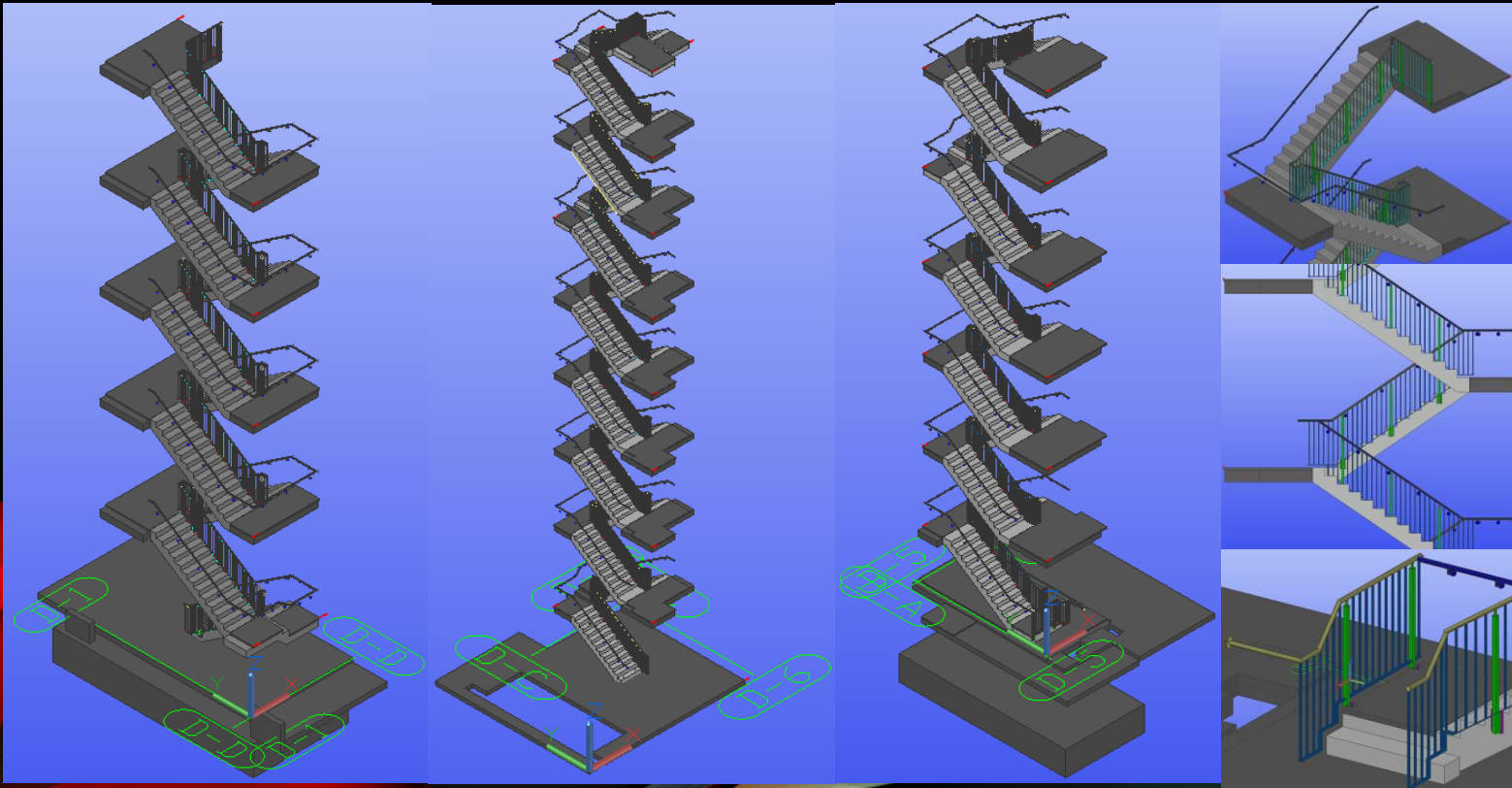
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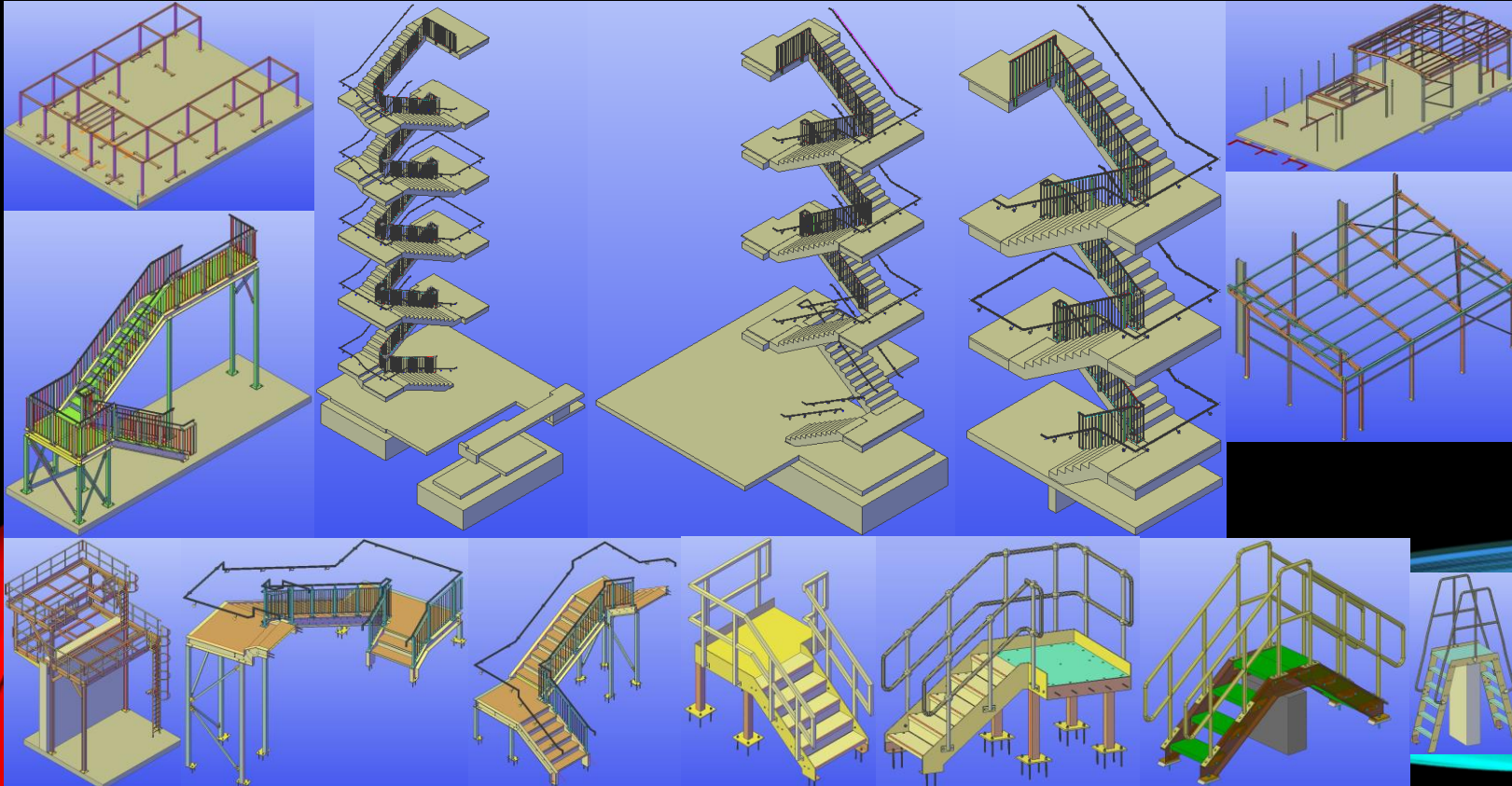
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BUSY FIRST 5 MONTHS OF 2022



Software used – Advance Steel 2022 – Jan – May 2022

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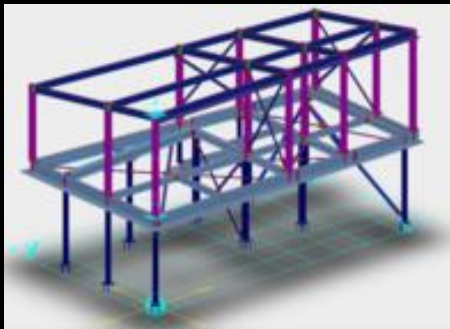
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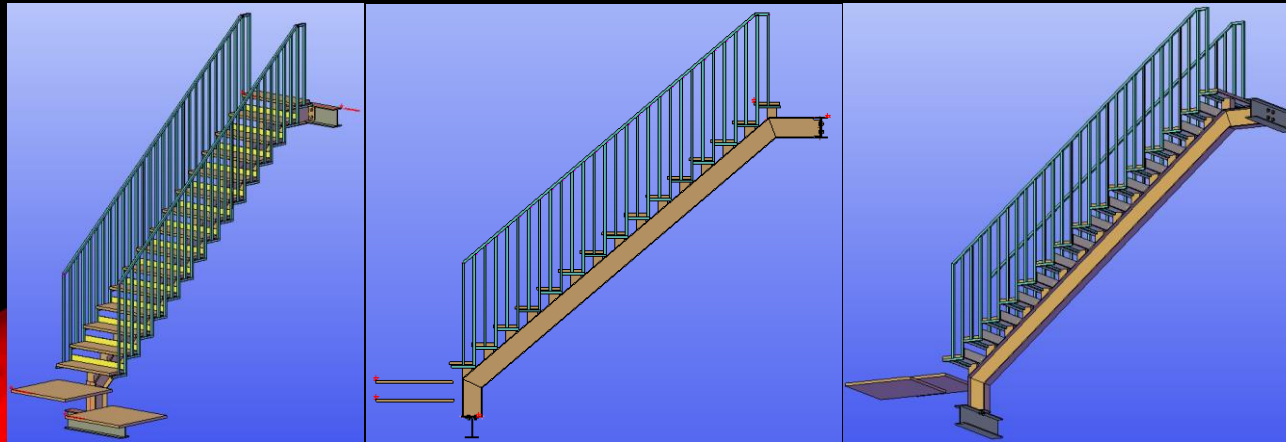
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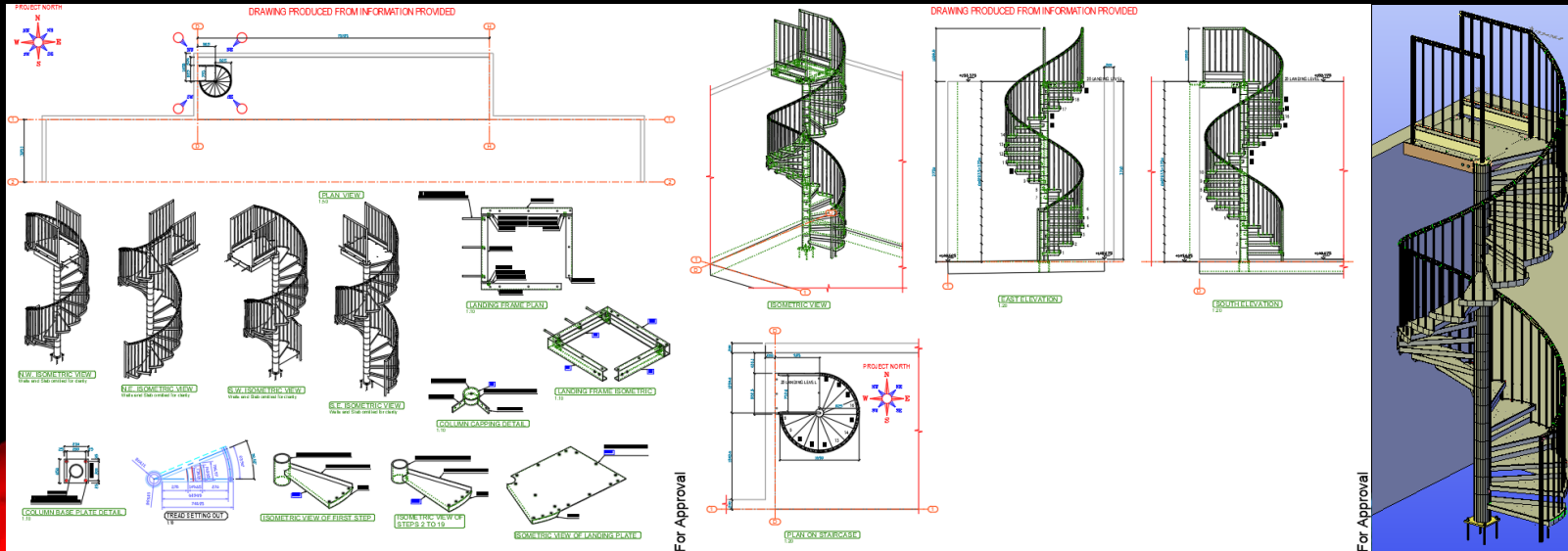
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Software used – Advance Steel 2022

Rendered video can be watched here - <https://youtu.be/rgdaHLKeKyo>

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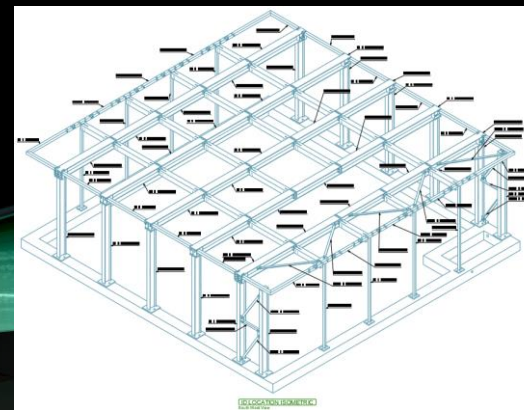
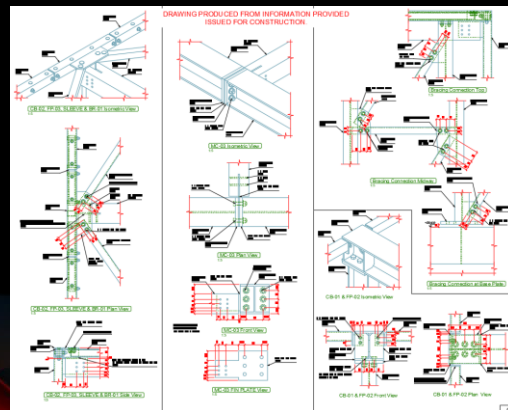
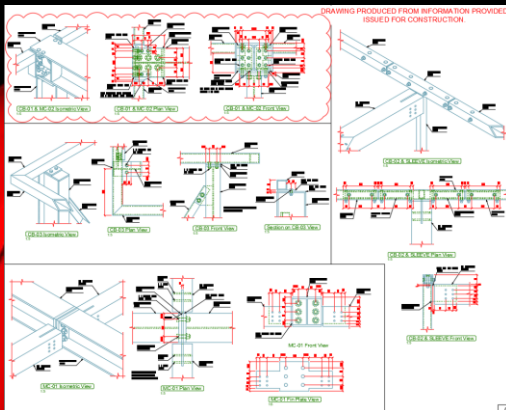
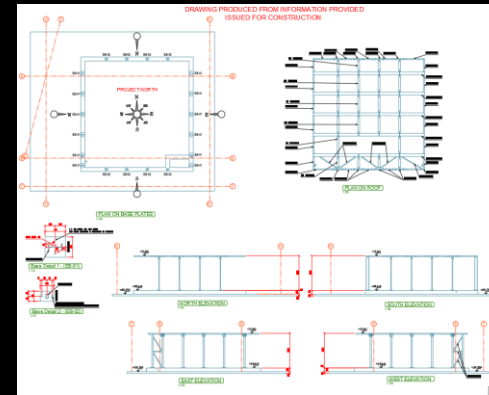
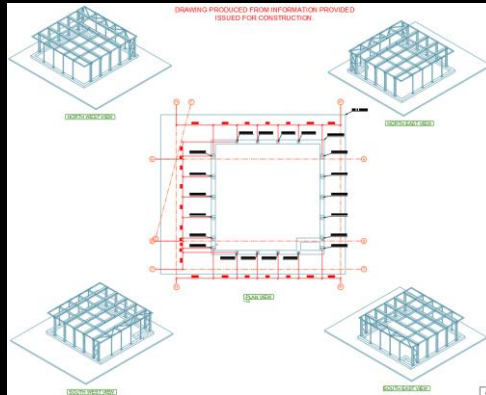
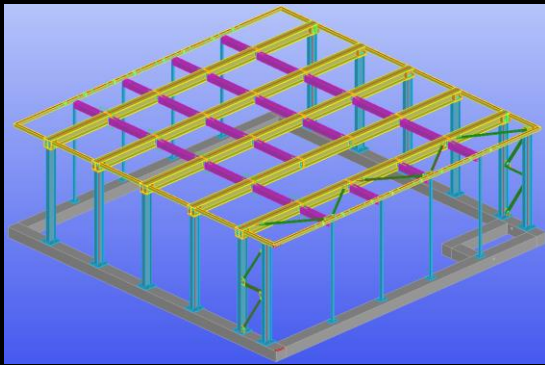
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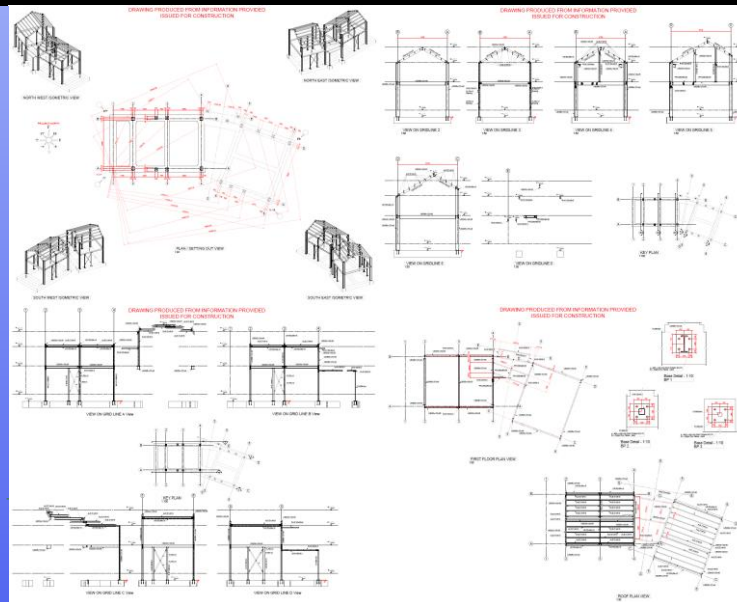
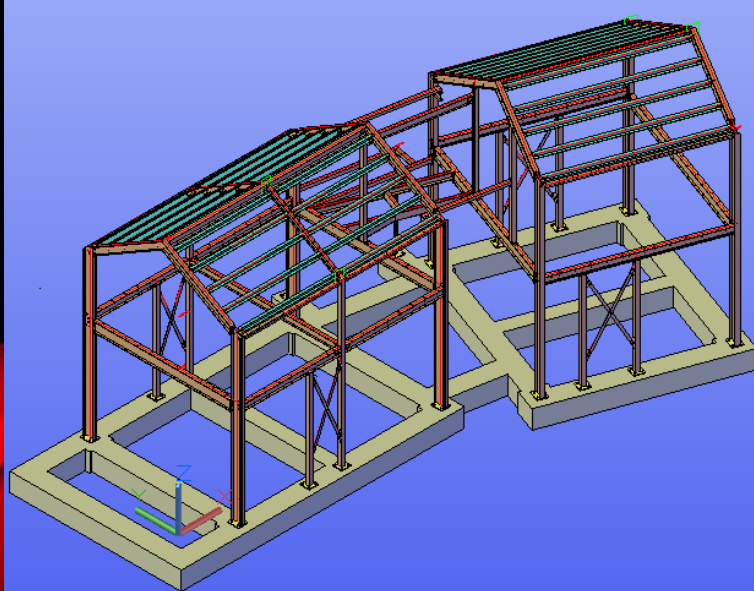
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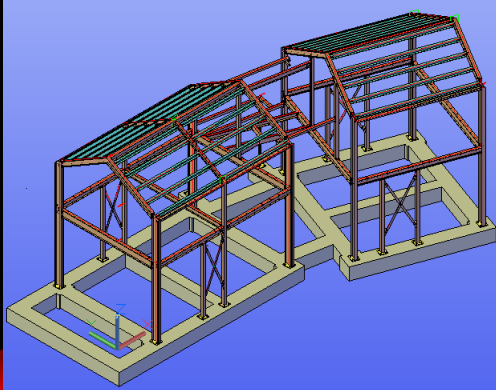
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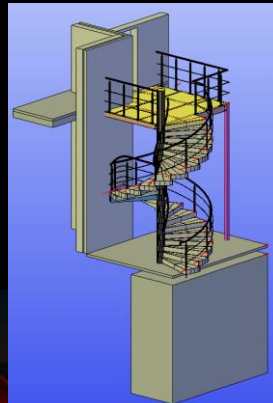
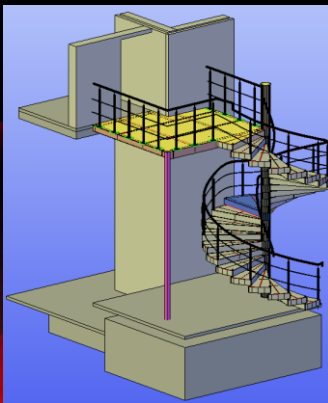
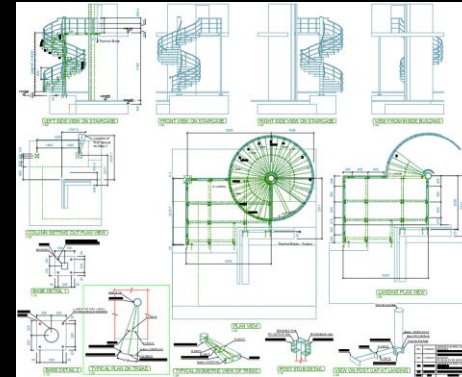
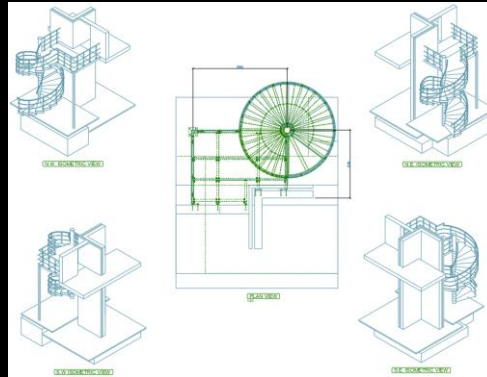
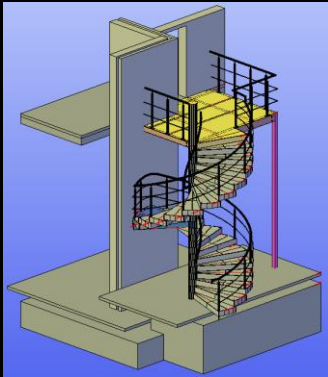
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3 Spiral Staircases.

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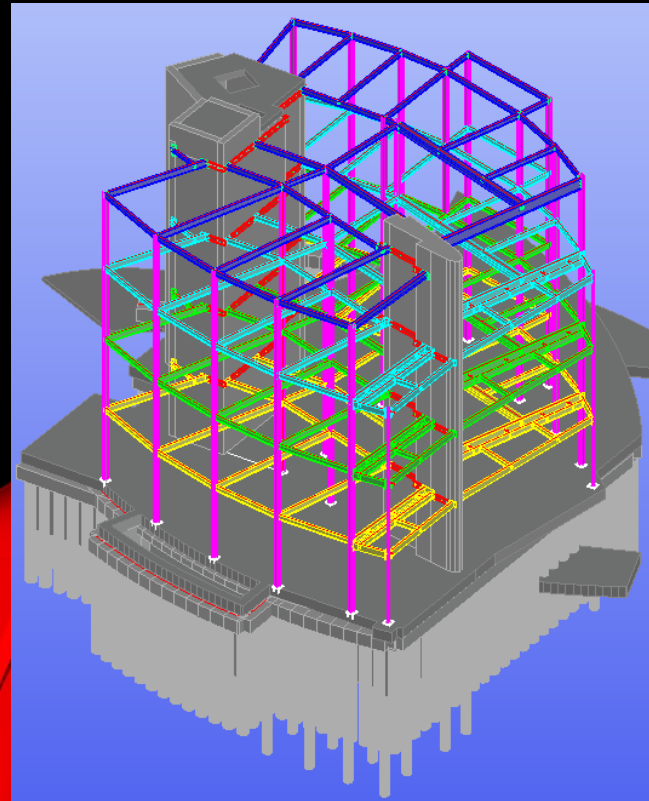
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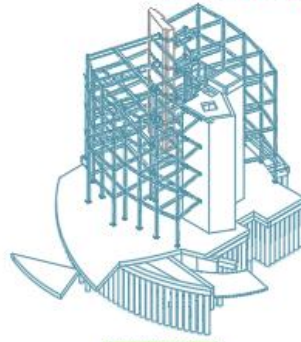


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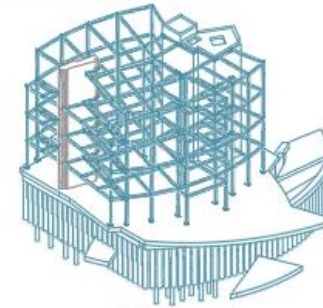
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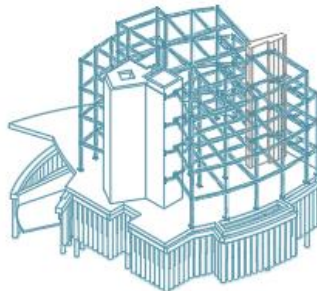
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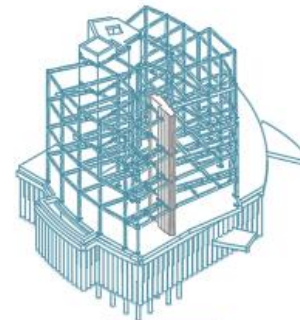
STAY IN PLACE DECKING VIEW



CRANE TRACKS & LIFTING BEYS



CRANE TRACKS & LIFTING BEYS



CRANE TRACKS & LIFTING BEYS

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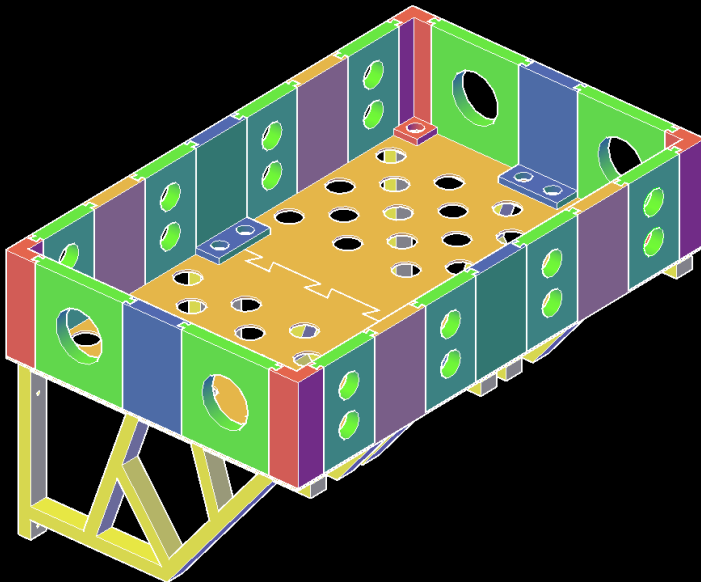
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VEGETABLE CONTAINER – 3D PRINTED

We recently got asked to model and 3D print a vegetable container for a client on the Isle of Wight. It had to be wall mounted and had to be easily dismantled if necessary - so after various designs we produced this one that the client liked, and all parts were 3D Printed:- Brackets, Base, Corners, Infills and most of all Nuts and Bolts. Easily assembled using the 3D Printed Nuts and Bolts.



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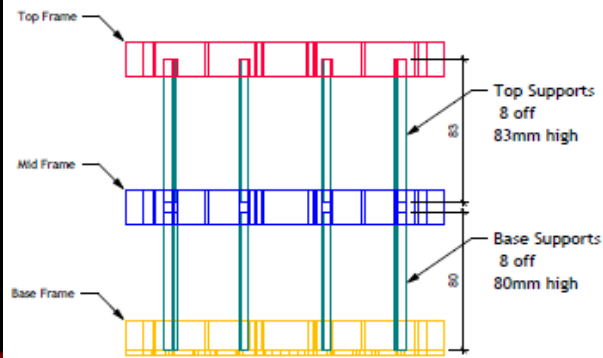
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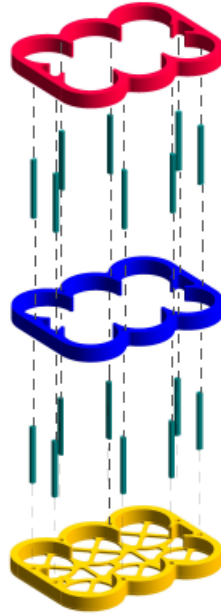
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12 CAN ORGANISER – 3D PRINT

We recently got asked to model and 3D print a 12 Can Organiser for a company called "And That's the Wrap" located on the Isle of Wight. This organiser was to keep the Cans stored together with a space in between the cans for an Ice Pack to keep them chilled in a cool bag.



Parts Location



Exploded View



Assembled Unit



And That's A Wrap are a mobile catering unit that specializes in hot and cold fresh wraps. They are located on Seaview Road in Cowes and can be booked for private events.

**And That's a Wrap
Mobile Caterers
07881 707770**

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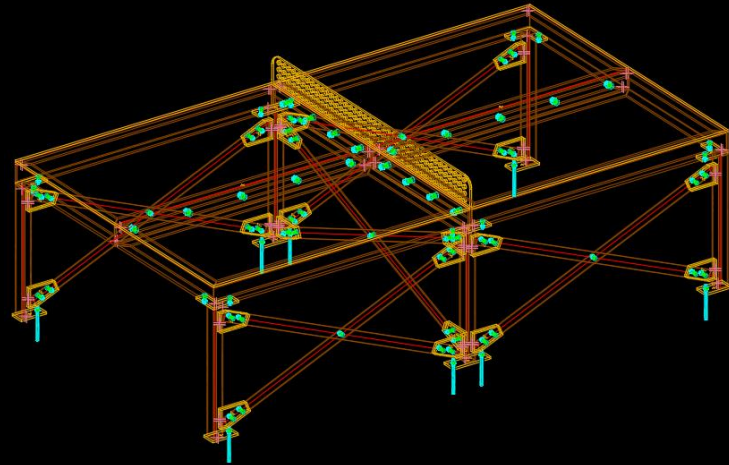
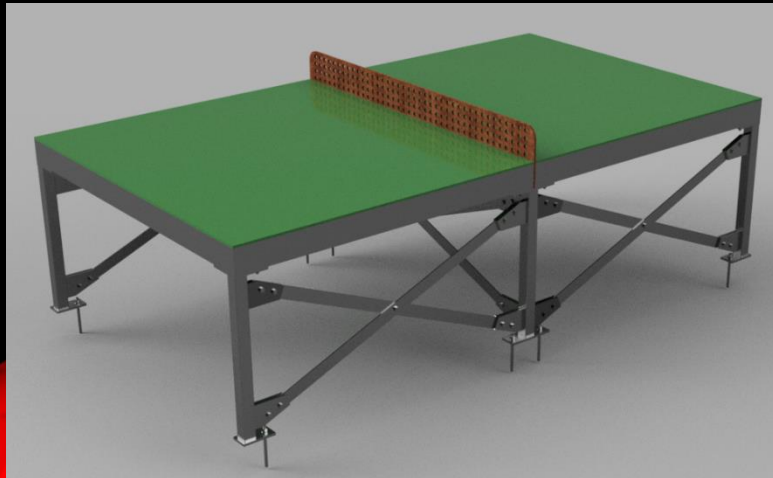
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NOT THE NORMAL STEEL STRUCTURE

We recently got asked to model and generate the fabrication details for this Ping Pong Table for an office recreation room. Modeled in Advance Steel and Rendered using blender. – Modeled, drawings created and out the door in less than 2 Hours.



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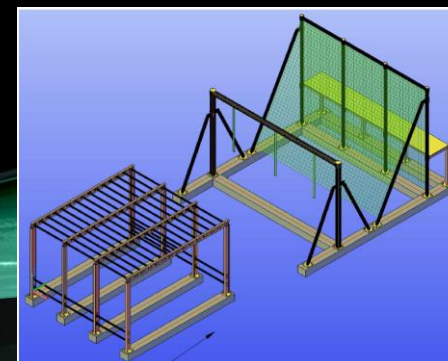
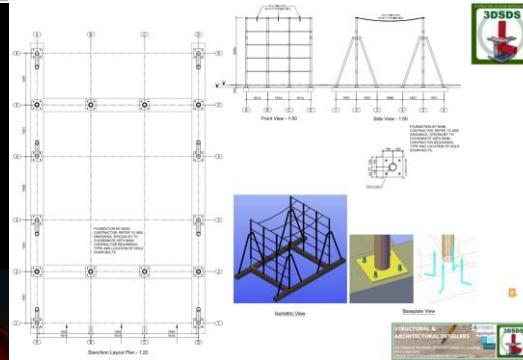
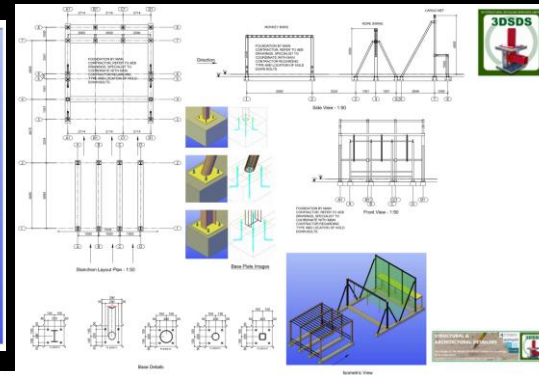
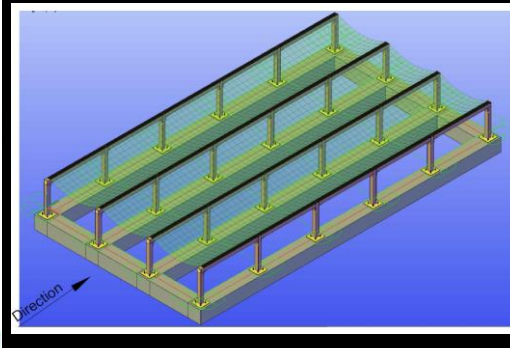
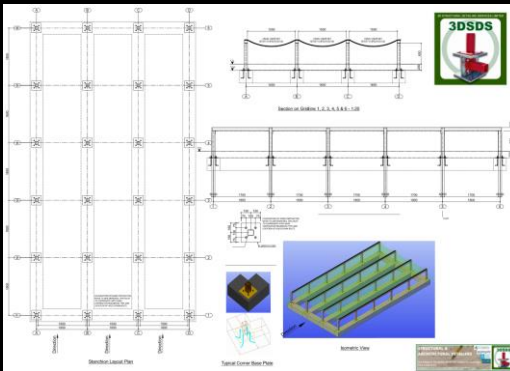
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NOT THE NORMAL STEEL STRUCTURE – Part 2

We recently got asked to model and generate the fabrication details for these Obstacles. Modeled in Advance Steel.



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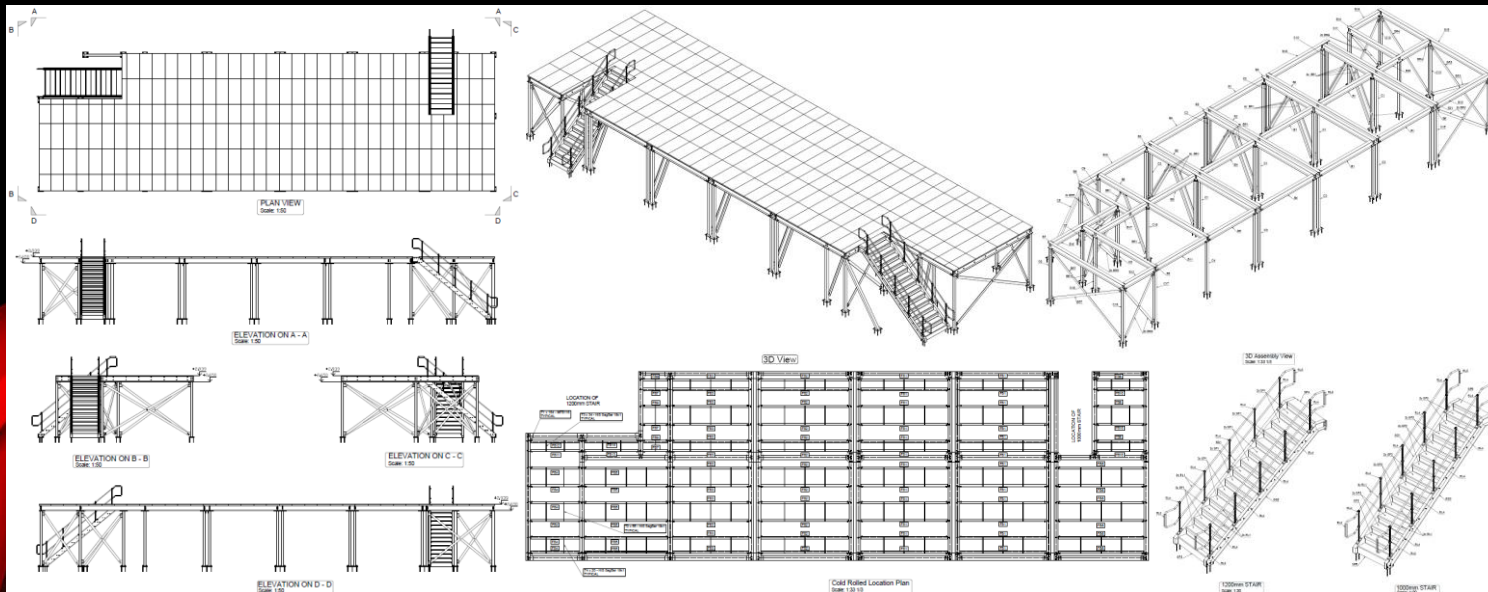
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NEED EXTRA ROOM

We have recently been asked to model and generate the fabrication details of a mezzanine floor. The Mezzanine floor has been designed to 4.8kN/m² – Light Storage as indicated in BS 6399 - Part 1. All drawings with Structural Engineer. Mezzanine Handrail by others.



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NEED EXTRA ROOM – cont.

Images of the Installed Mezzanine Floor.



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BRING YOUR DESIGNS TO LIFE

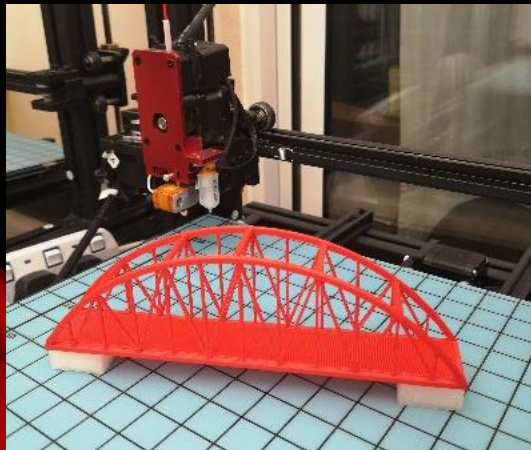
Have you ever wanted to see what your designs will look like before construction.

We can print your designs and deliver a 3D Model in just a few days.

Here is an image of a foot bridge scaled down and measures 210x80x35mm, the actual measurements would be 6m long x 1m wide.

Also is a Spiral Staircase - 3D print measures 170mm high x 120mm diameter.

Various colours available including white.



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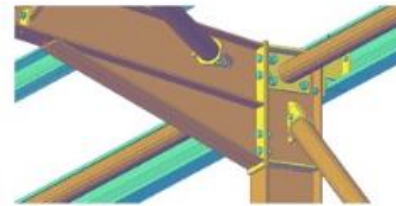
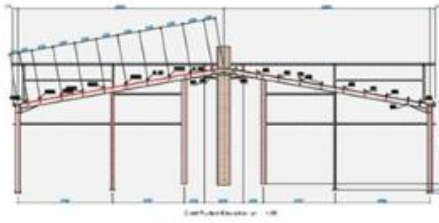


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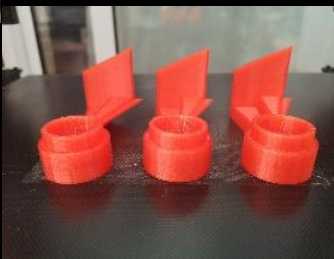
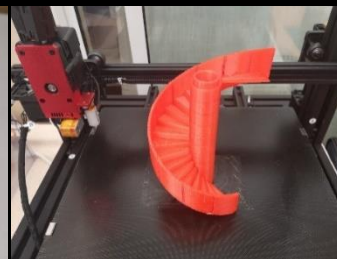
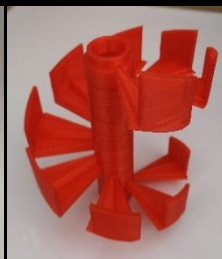
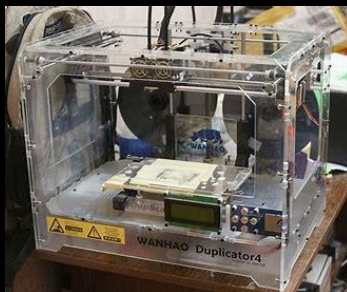
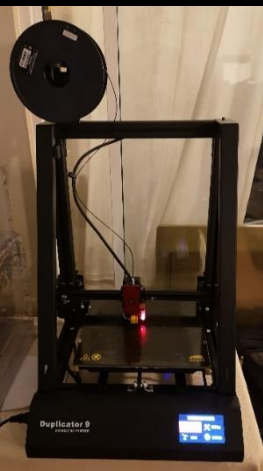
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Mobile: +44 (0) 74 8194 0018

New Service Announcement

Due to our expansion, we can now offer an additional Service a 3D Print of your model created in Advance Steel, Revit, AutoCAD or just provide us with an STL File giving you the ability to show off your creation to potential Clients to win that contract.



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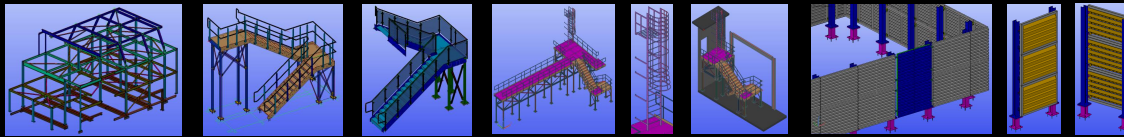
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NOT POSTED MUCH LATELY "BEEN REALLY BUSY"



- **COMMERICAL BUILDING EXTENSION.**
- **MEZZANINE FLOOR STAIRCASES.**
- **FEATURE STAIRCASES WITH GLASS INFILL PANELS FOR A FAMOUS BUT CONFIDENTIAL SITE.**
- **GANTRIES WITH STAIRCASES & CAGE LADDERS FOR ANOTHER LANDMARK PROJECT.**
- **ROOF TOP AIR HANDLING UNIT ENCLOSURES WITH LOUVERS.**

MORE DETAILS TO FOLLOW "IF I GET TIME !!"

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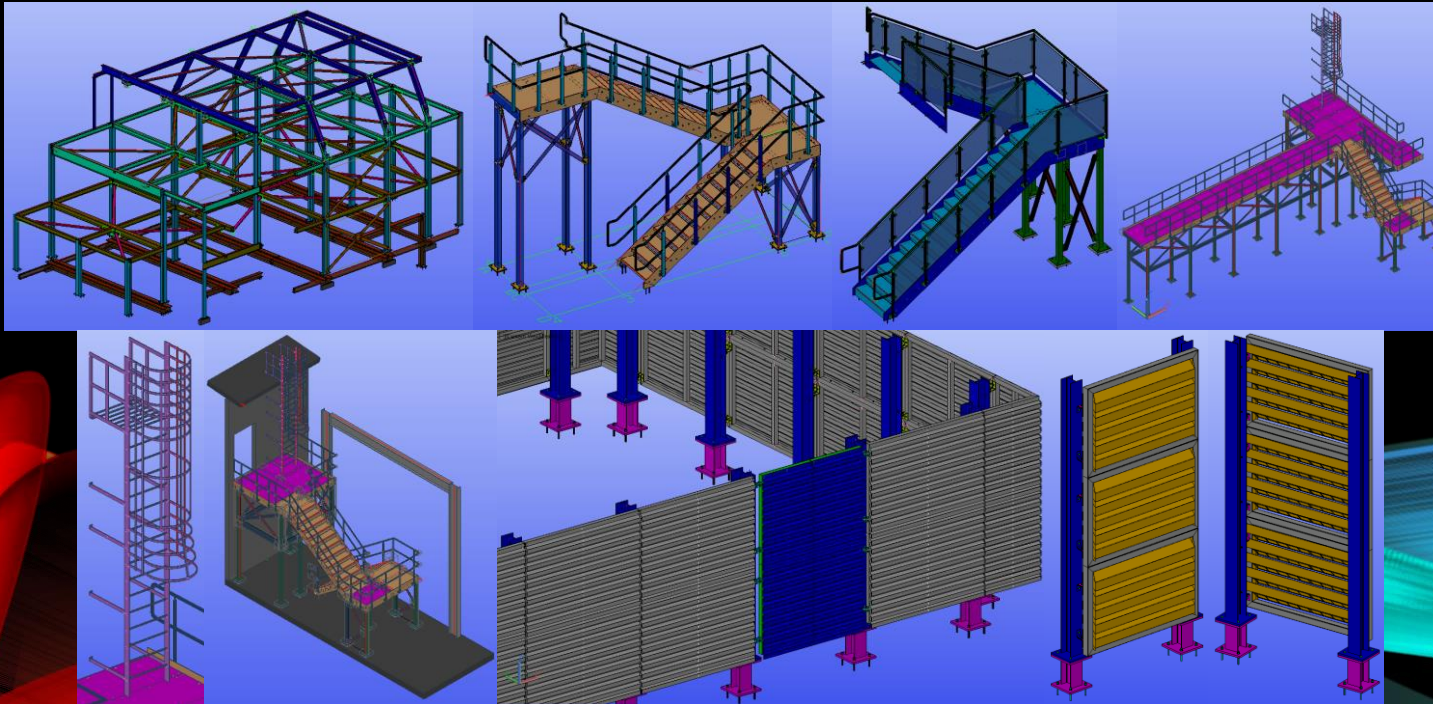
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*It has been a very busy 2 months here at 3DSDS.
Below are some images that we have been working on for some
new and existing clients.*



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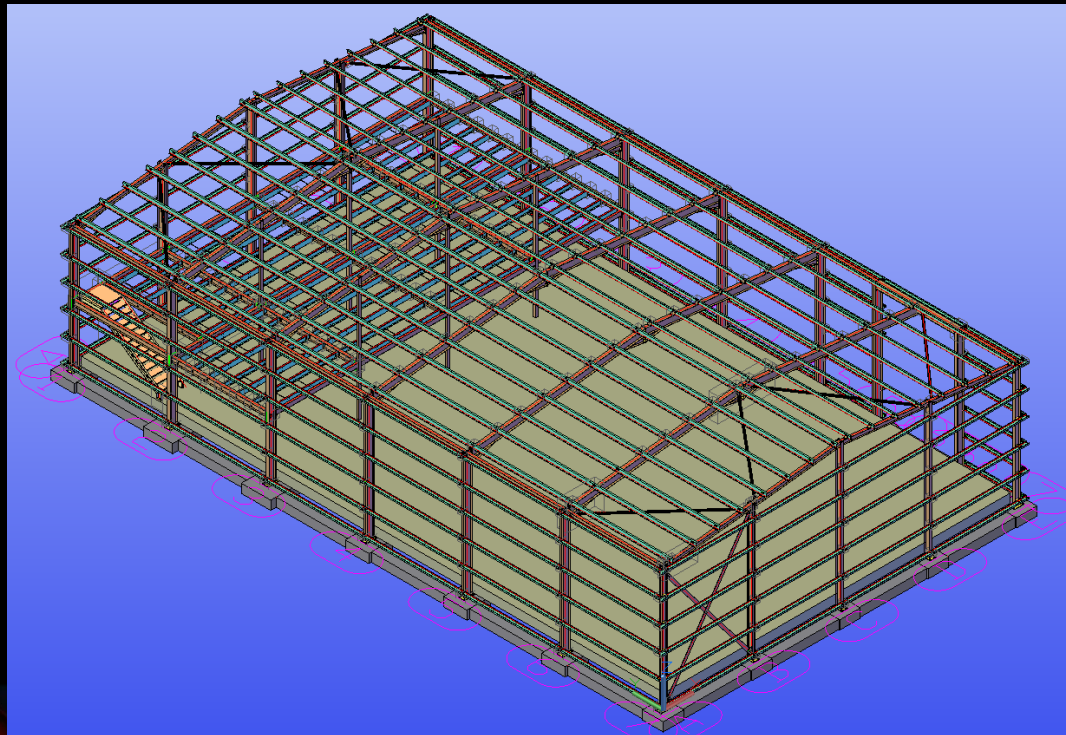
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Portal Frame Building modelled in Advance Steel.

7 days to model from
scratch with all
connections only needs
railings on stairs and
platform.

1 day to produce GAs
for Approval

7 days to produce and
tidy up fabrication
drawings and generate
all other necessary
documentation.



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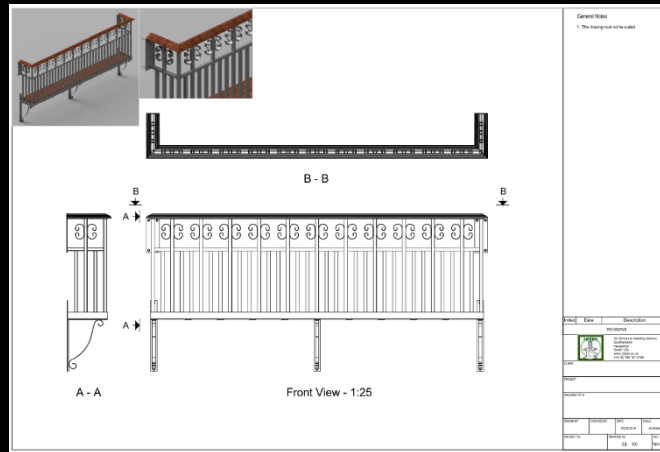


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Completed Project

5 Juliet Balconies modelled in Advance Steel & Rendered in Fusion 360.



Item	Qty	Material	Grade	Length (mm)	Width (mm)	Weight (kg)	Unit Price (£)	Total Price (£)	Notes
Structural Items									
01	PLATE	28	S275JR	500	12	28.1	0.882	24.77	
02	SPRUE	18	S275JR	1500	12	18.1	0.510	9.18	
03	SPRUE	10	S275JR	1700	60	10.1	0.760	7.60	
04	PLATE	1	S275JR	1575	60	1.17	1.17	1.17	
05	PLATE	1	S275JR	1575	60	1.17	1.17	1.17	
06	SPRUE	16	S275JR	400	2.7	2.7	0.882	14.52	
07	SPRUE	1	S275JR	200	1.1	0.1	0.882	0.88	
08	PLATE	2	S275JR	110	1.0	0.1	0.14	0.28	
09	PLATE	2	S275JR	110	1.0	0.1	0.14	0.28	
10	PLATE	2	S275JR	110	1.0	0.1	0.14	0.28	
11	SPRUE	2	S275JR	110	1.0	0.1	0.882	1.76	
12	SPRUE	2	S275JR	110	1.0	0.1	0.882	1.76	
13	SPRUE	2	S275JR	110	1.0	0.1	0.882	1.76	
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15	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
16	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
17	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
18	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
19	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
20	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
21	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
22	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
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45	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
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83	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
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85	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
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99	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	
100	PLATE	1	S275JR	110	1.0	0.1	0.14	0.14	

Software used – ADVANCE STEEL & FUSION 360

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Completed Project

26 Juliet Balconies to be modelled in Advance Steel & Rendered in Fusion 360.

BOLT LIST
 Date: 01-Apr-2019
 Project:
 Author:

Size	Length (mm)	Grade	Coating	Quantity	Type	Weight each (kg)	Total Weight (kg)	Description
M10 x 100 HEBL NUT-4Y 200A NUT-4Y 8.8 -	100	8.8	Bright Zinc	4	HEBL NUT-4Y	0.3	1.3	
				4			1.3	
							1.3	

MATERIAL LIST
 Date: 01-Apr-2019
 Project:
 Author:

Item	Size	Quantity	Grade	Length (mm)	Width (mm)	Weight each (kg)	Total Weight (kg)	Surface Area (sq/m)	Total Surface (sq/m)	Description
Straight Elements										
D1	S455J0/3	2	S275JR	2,400	16.0	33.3	0.480	0.800		
F1006	FL100X10	2	S275JR	100	0.9	1.8	0.037	0.053		
F1001	FL100X10	2	S275JR	100	0.9	1.7	0.036	0.052		
M1009	S455J0/3	16	S275JR	900	7.5	119.6	0.180	2.880		
M1011	S455J0/3	4	S275JR	200	2.5	19.6	0.160	0.240		
F1003	FL100X5	1	S275JR	2,400	3.9	3.9	0.220	0.220		
M1004	FL100X5	1	S275JR	200	0.3	0.3	0.028	0.028		
		28				175.8		4.273		
								171.0		4.273

Software used – ADVANCE STEEL & FUSION 360

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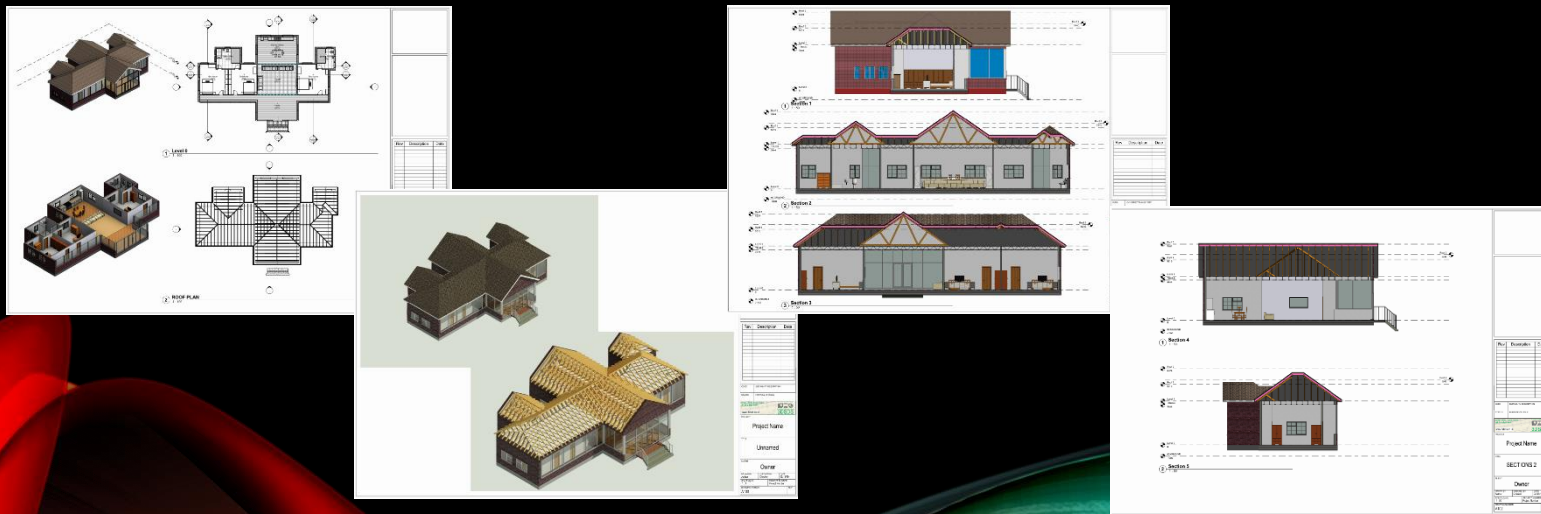
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Completed Project

A New 3 bed bungalow.
Will be constructed on 4 acres of Land.
Traditional build construction.



Software used - REVIT

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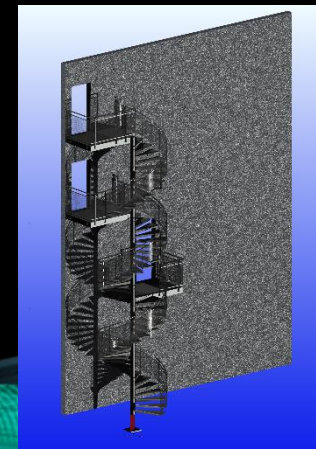
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2 Fire Escape Staircases.

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Software used – Autodesk Advance Steel

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