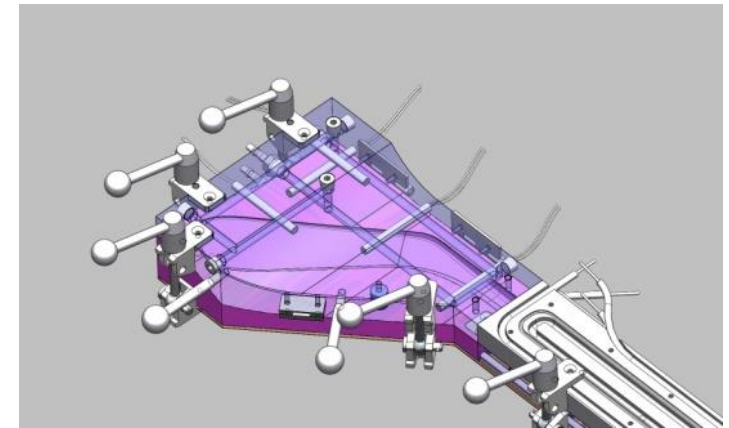
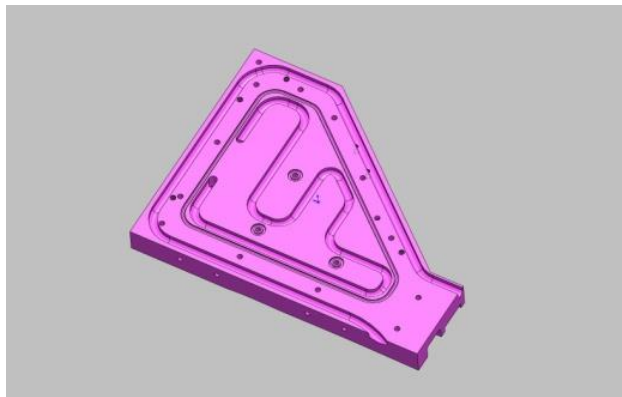
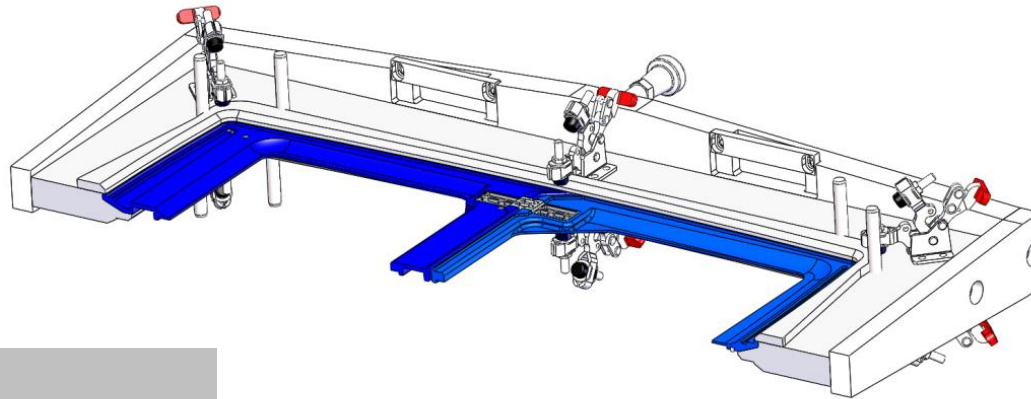


Precision Engineering Projects



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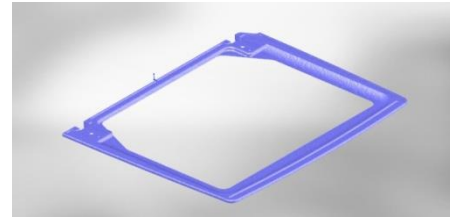
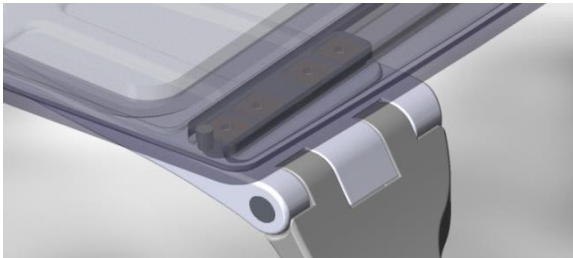
About Caddology Ltd

Caddology Ltd is an independent company offering a range of Computer Aided Design solutions geared to the professional, technical business market. We at Caddology provide a bespoke service tailored to each client, fulfilling the remit to the highest standard. Our philosophy is to focus on the finer detail, whilst ensuring the assignment completes efficiently and to specification.

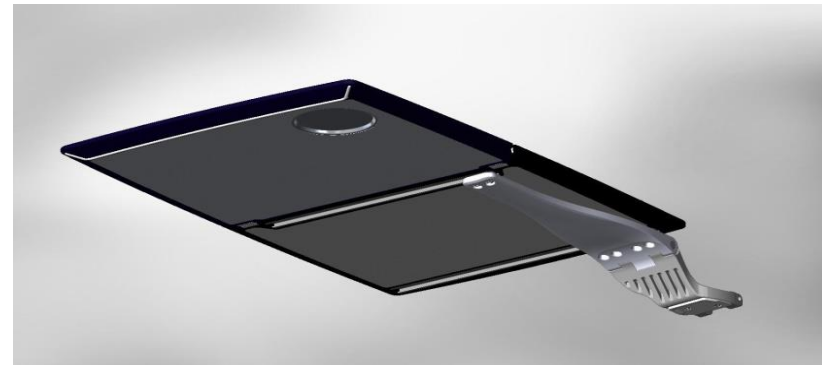


Solid Modelling / Design.....

CADDOLOGY has invested into, Solidworks, to ensure it can support all markets. Solidworks provides the perfect platform for meeting all design and draughting needs, from basic computer modeling to many areas of simulation including FEA. Solidworks is used by many Automotive and Aerospace manufacturers at all tiers.



Rendering indicating colour options on composite moulded frames.



Bi Fold Business Class Meal Table presentation images from Solidworks, for Crystal Cabin Award Entry in Hamburg.

Gained place in last 10 entrants from 150 entries.

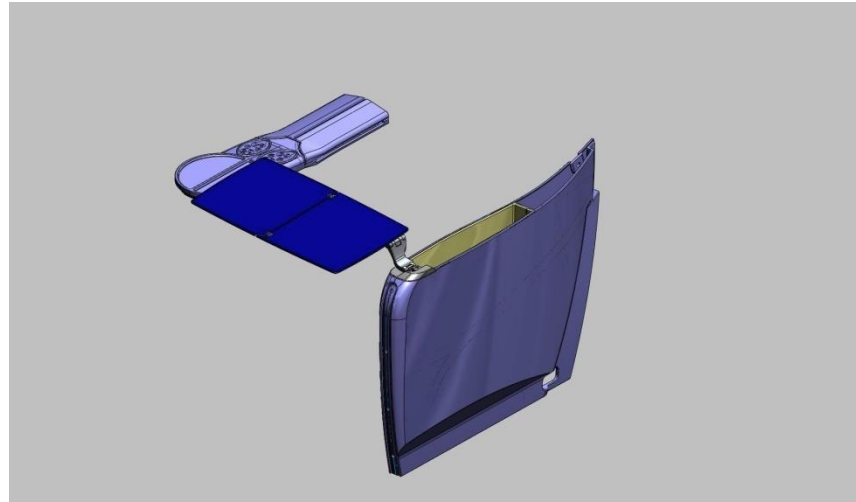


Experience.....

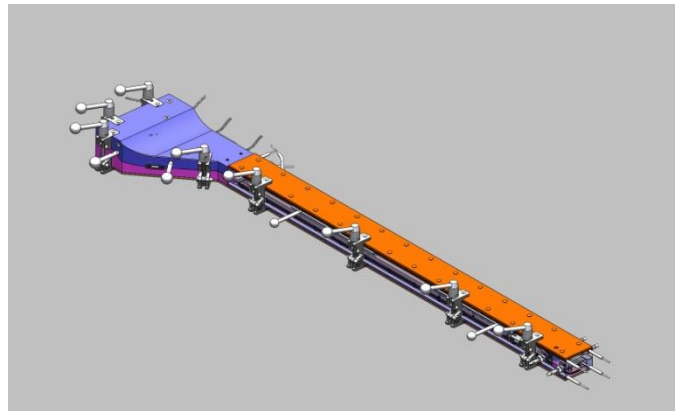
Caddology Ltd has used Solidworks extensively over many projects and contracts. We have over 10 years Solidworks experience.



Concealed Hinge Design
On Bi Fold Meal Table
Design.

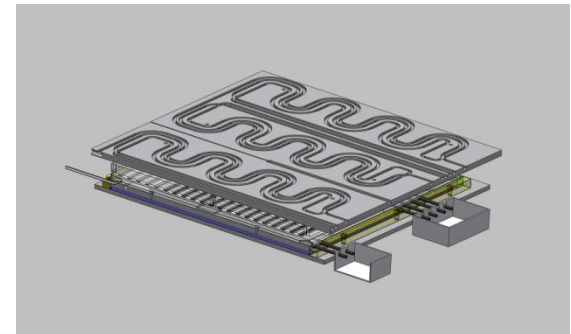


GA of Bi Fold Table attached to side arm assembly.



Solid Assembly Model of Composite Hockey Stick Tooling

Be-spoke design of Heated / Air Cooled
Press Plate Assembly using Solidworks

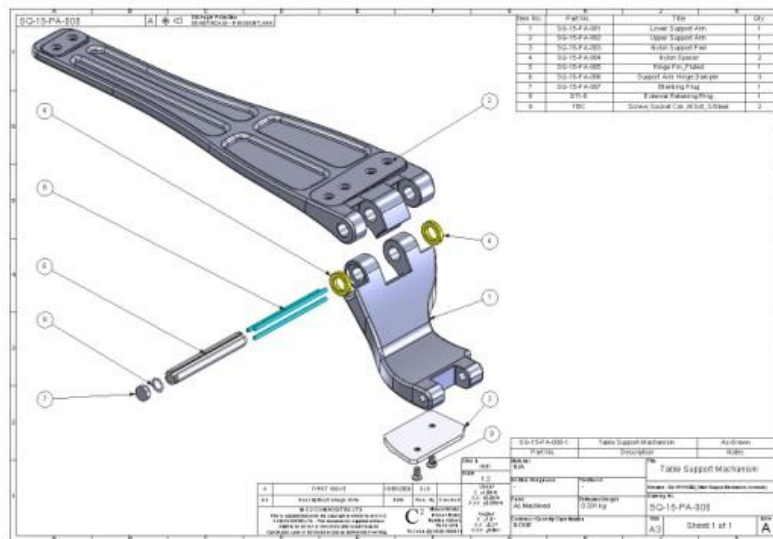


Certificate Number - 12059 oms

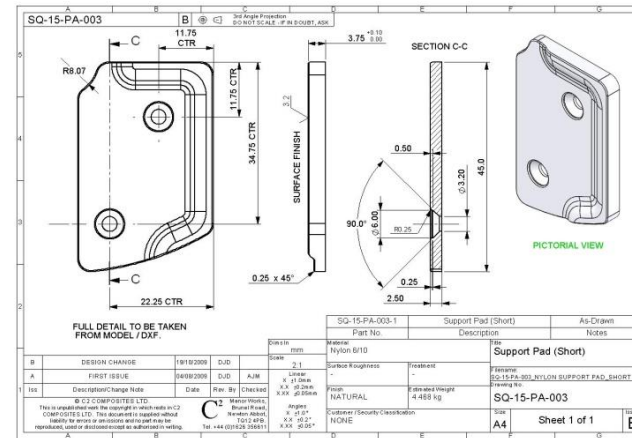
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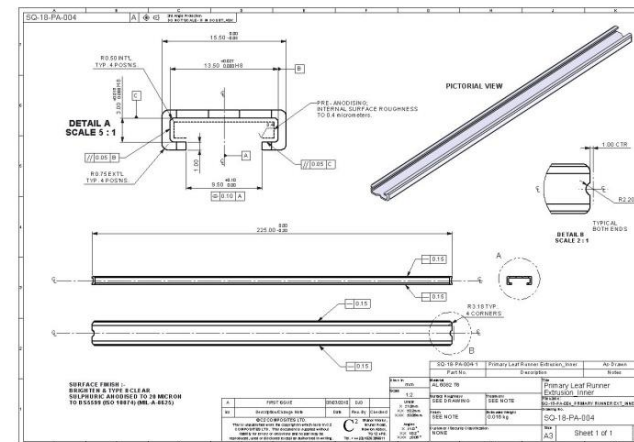
Experience.....



GA Of Damped Support Arm Mechanism For Airliner Meal Table.

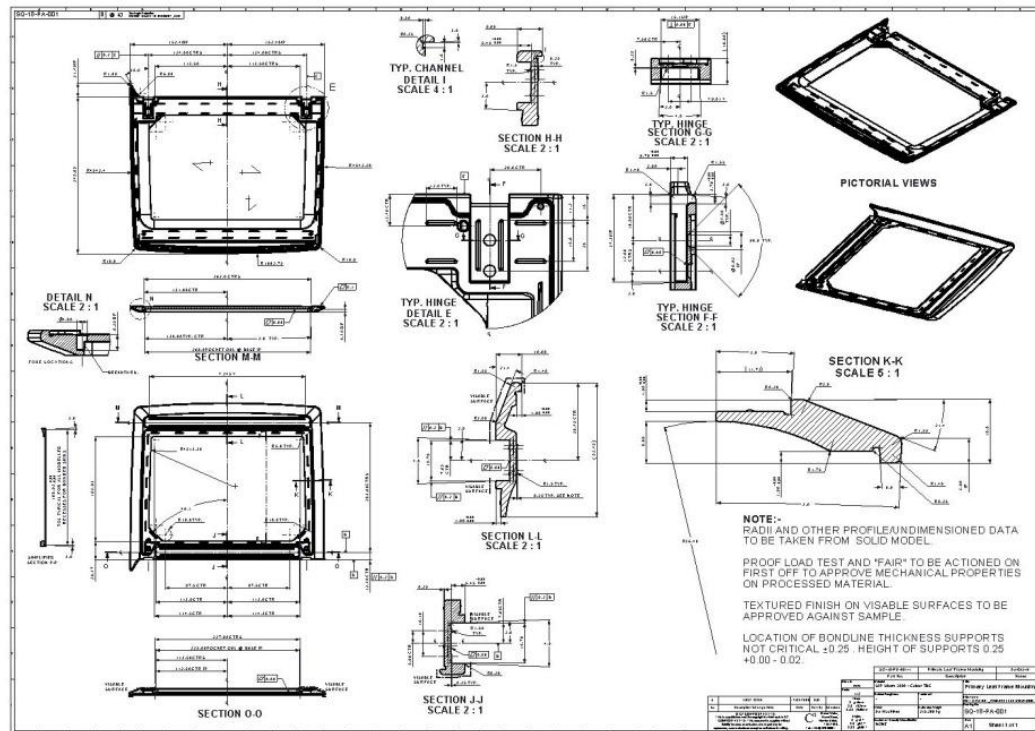


Nylon Support Pad for BI Fold Meal Table Support Arm Assembly.



Aluminium "C" Section Extrusion Designed to BS EN 755 - Grade AL6082 T6

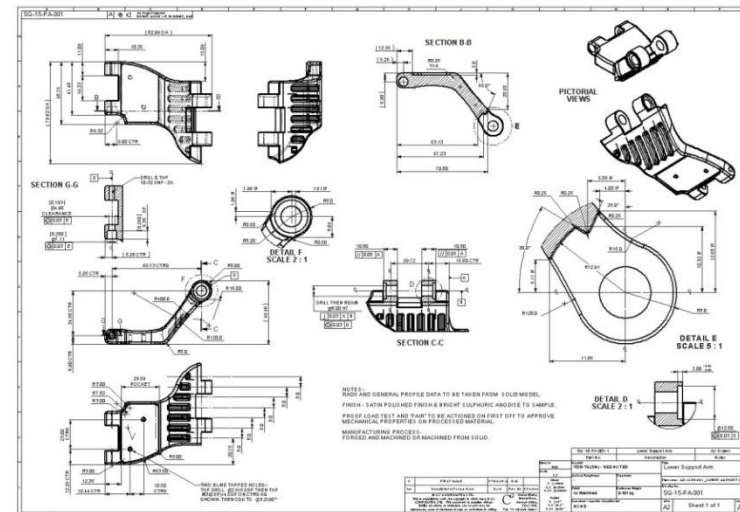
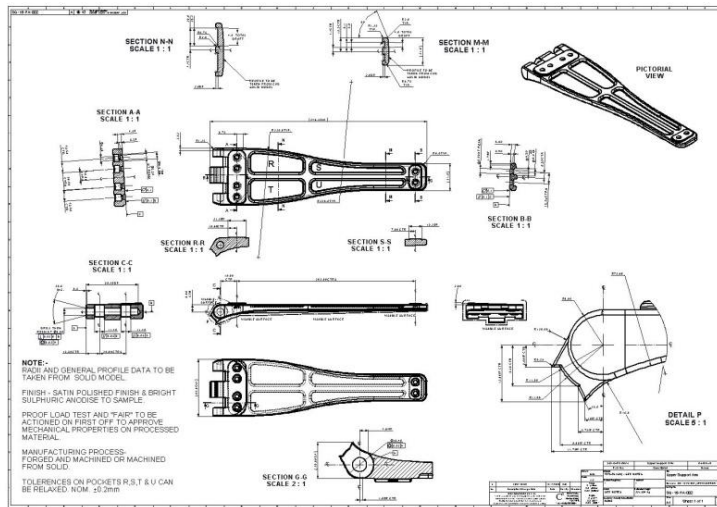
Detailing.....



Composite Injection Moulded Meal
Table Frame – Material PEI
Engineering Polymer

Detailing....

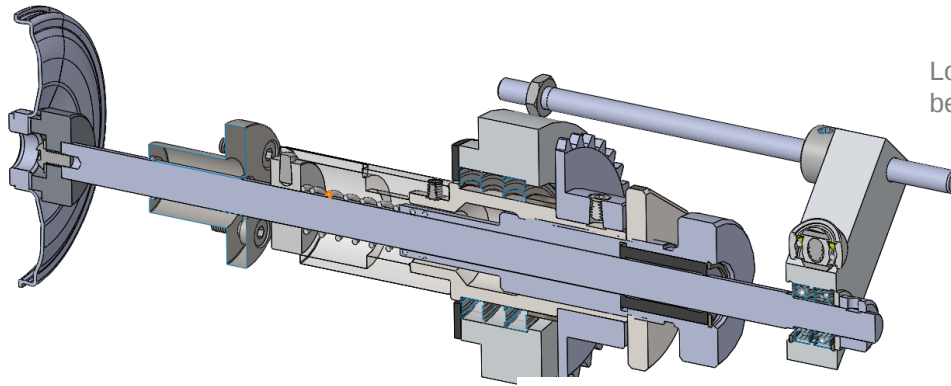
Caddology has experience to ensure correct levels of fit, form and function are part of the design whilst ensuring costs are kept to a minimum.



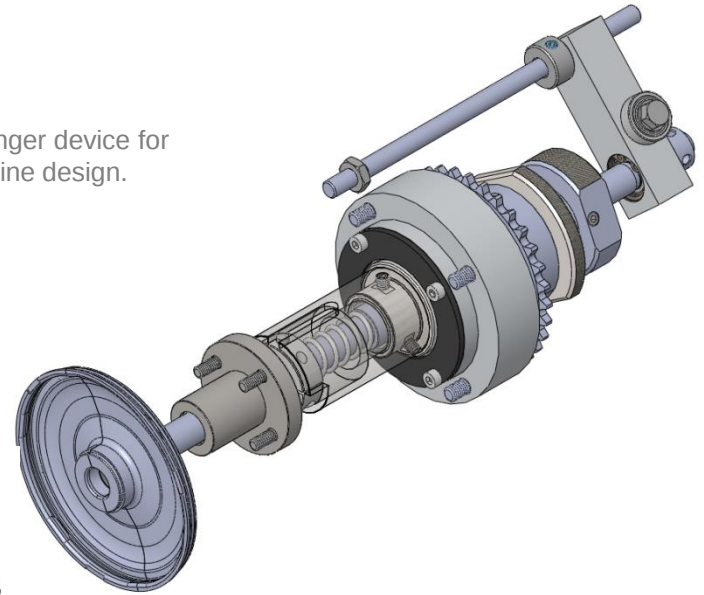
Upper Support Arm Forging
from Aerospace Grade
Aluminium Alloy AL7075.

Design...

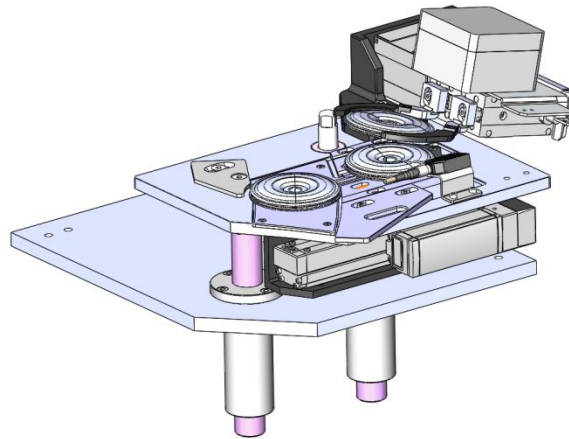
On various contracts, we have been involved with designing and detailing bespoke machine assemblies / parts, either in isolation or part of a team.



Locational Plunger device for bespoke machine design.

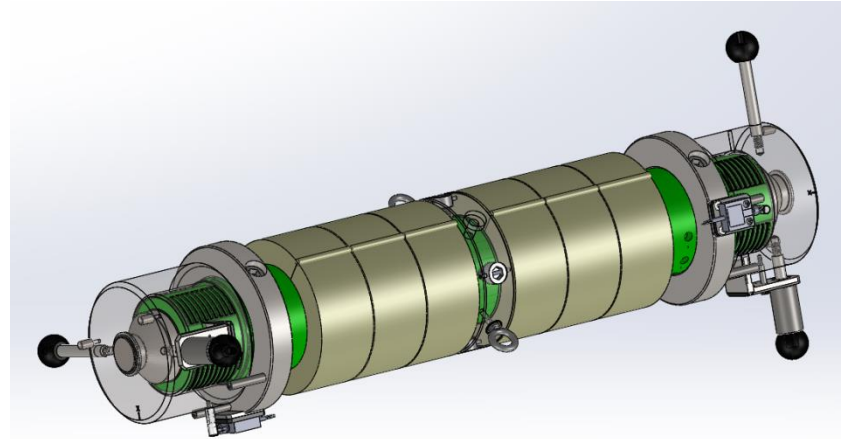
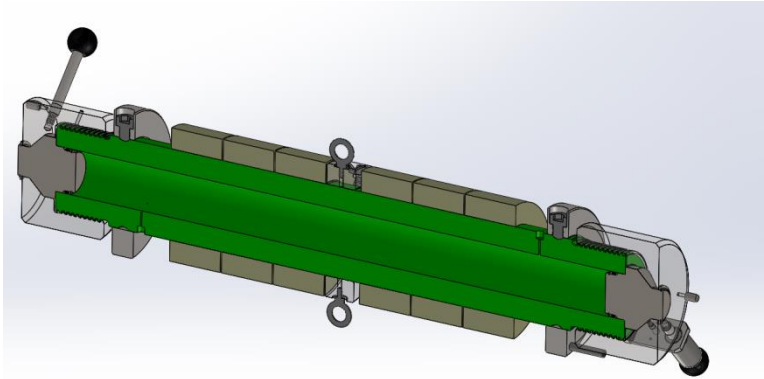


Pick & Place using electric actuators for the bespoke machine design.



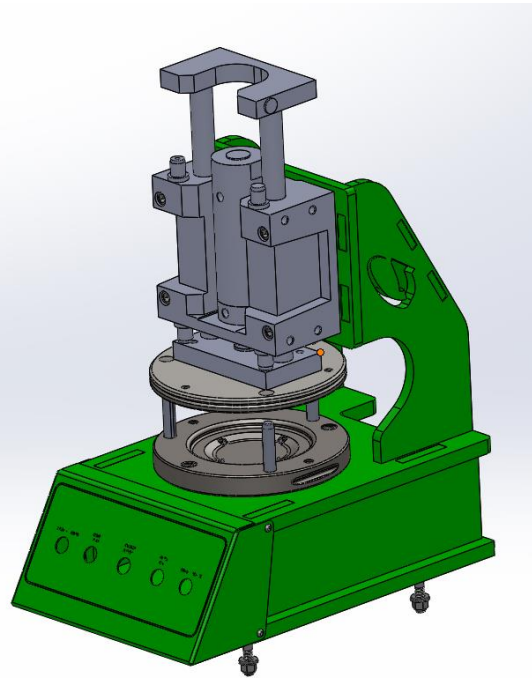
Design.....

Contracts can encompass full design or evolving an existing design, as well as just detailing up a concept design to a production unit.

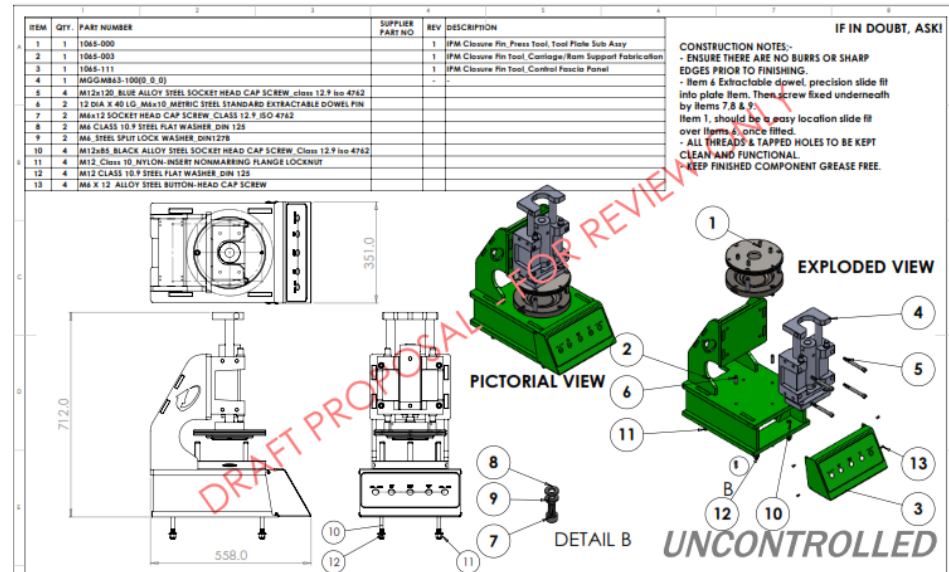


Bespoke high pressure test chamber.



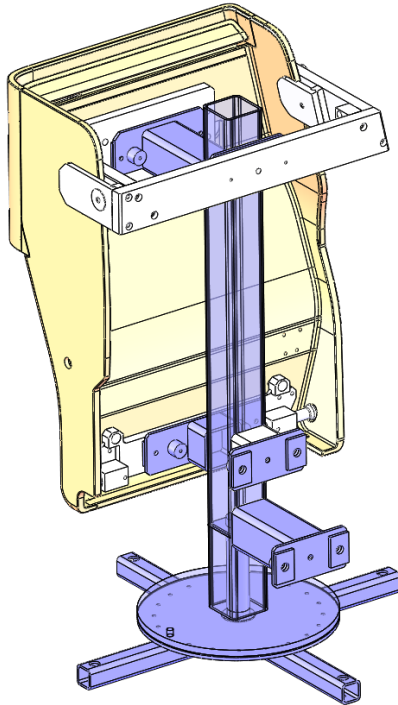


Bespoke hydraulic press
and fixture.

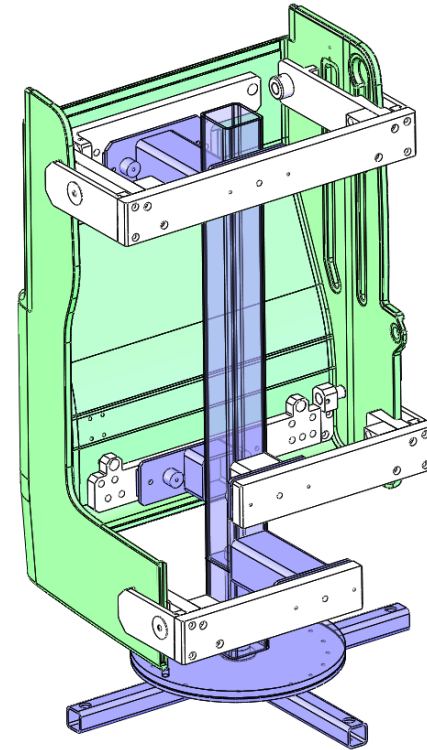


Design.....

Jig and Fixture design is important to ensure tight positional tolerances are maintained during the assembly or the curing of bonded parts. Caddology Ltd has been involved in various projects, at all levels.

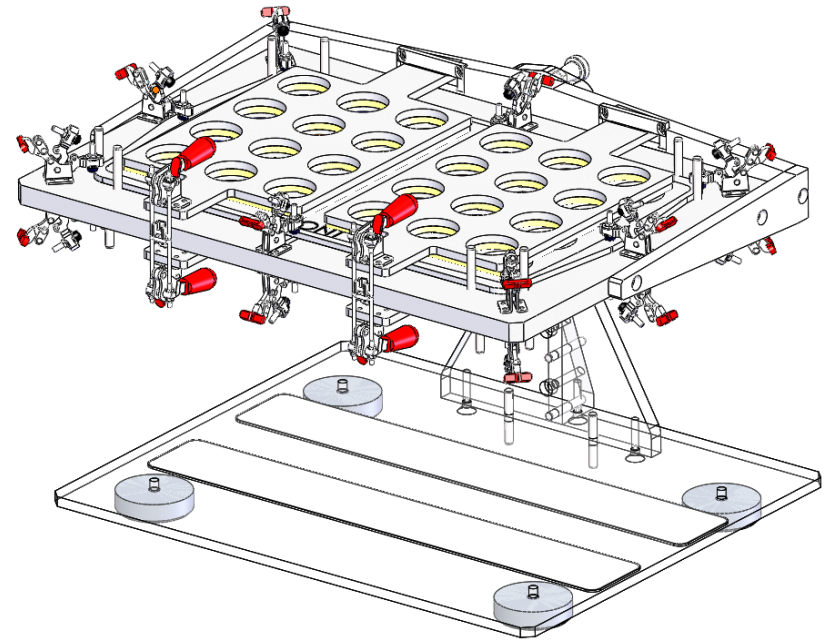
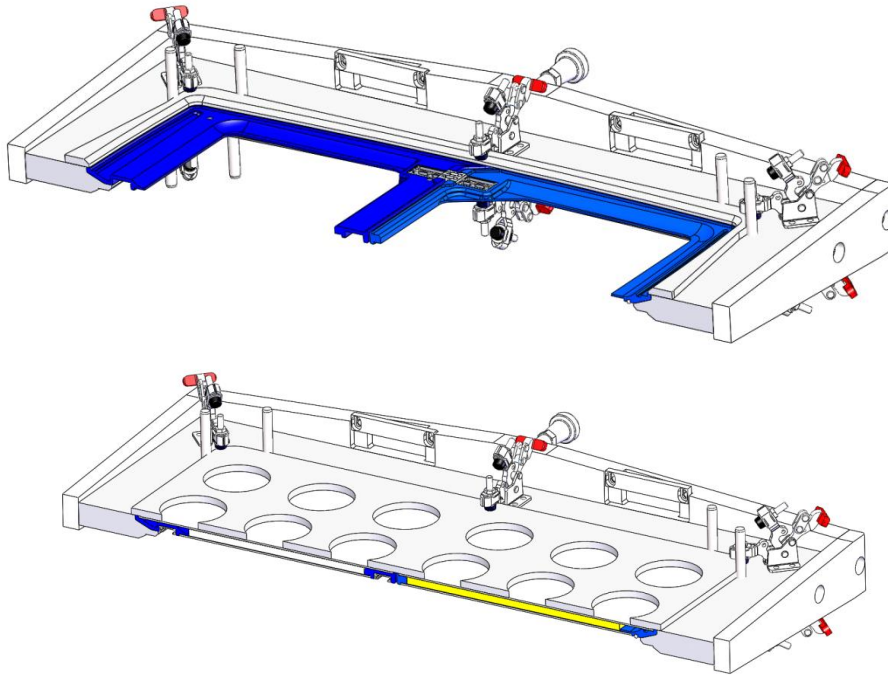


Bespoke composite carcass bonding fixture, for commercial airline seating.



Design.....

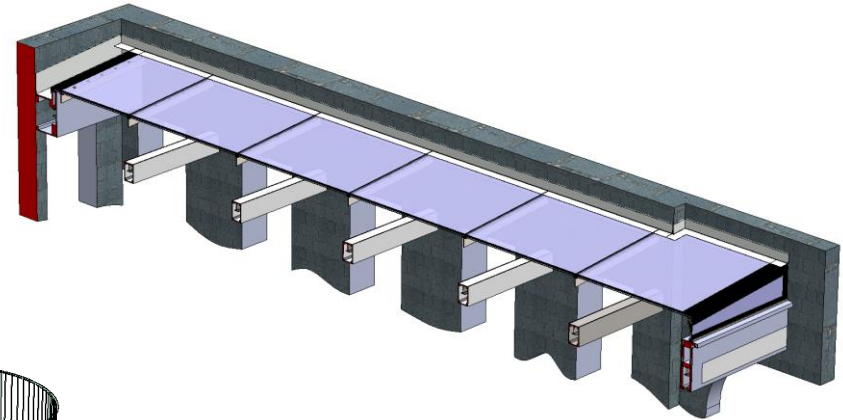
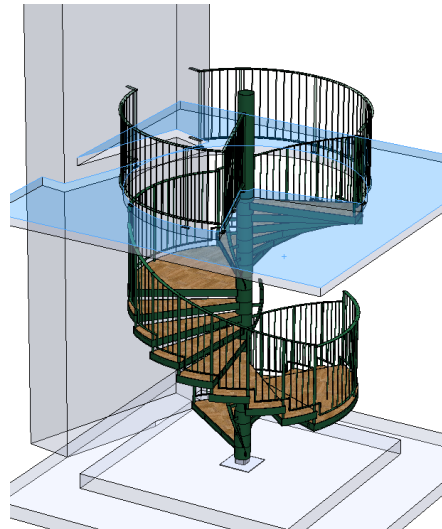
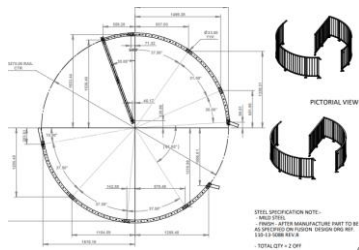
Further fixture design, for the bonding of aircraft meal table leaf using substrate material. Fixture can be inverted to allow bonding to both sides.



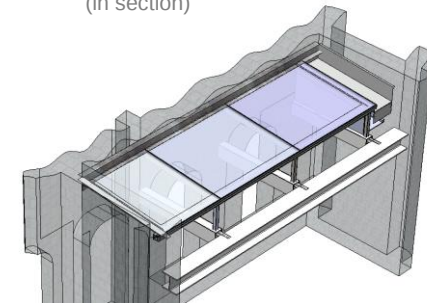
Projects Supporting Construction.



Glazed External Walkway

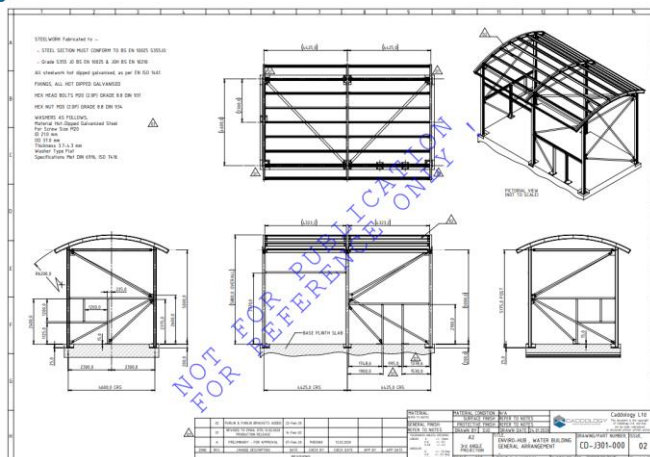
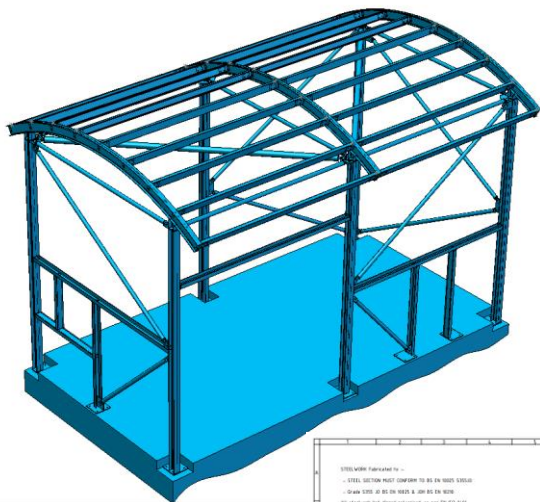


Structural Glazed Corridor Roof -
Hotel Du Vin, Exeter.
(in section)



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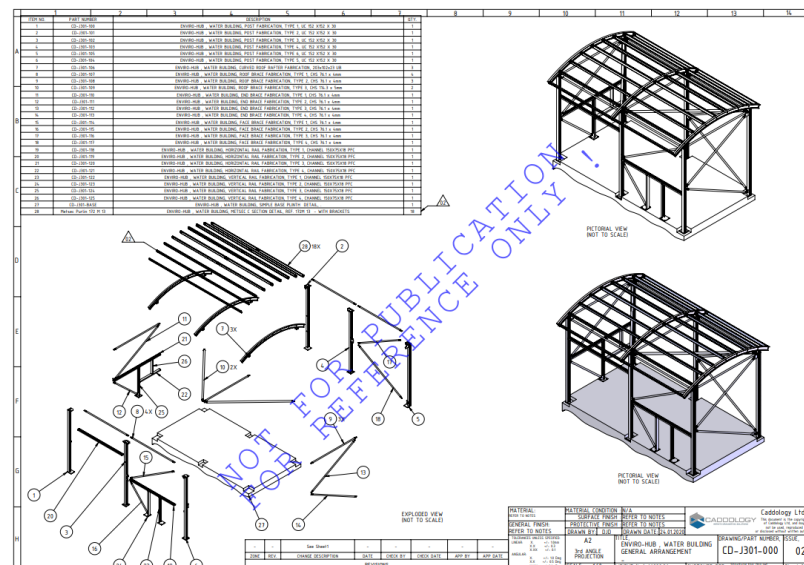
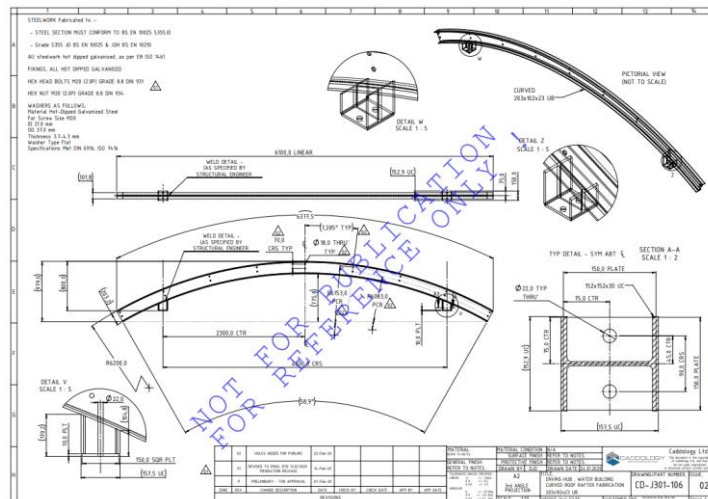
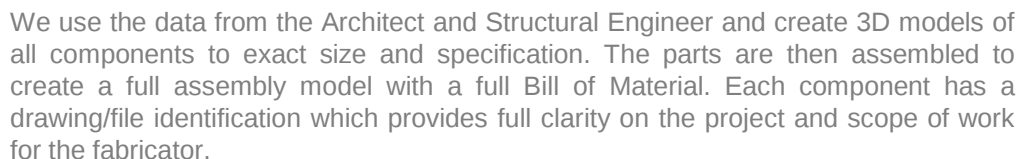
About Caddology Ltd

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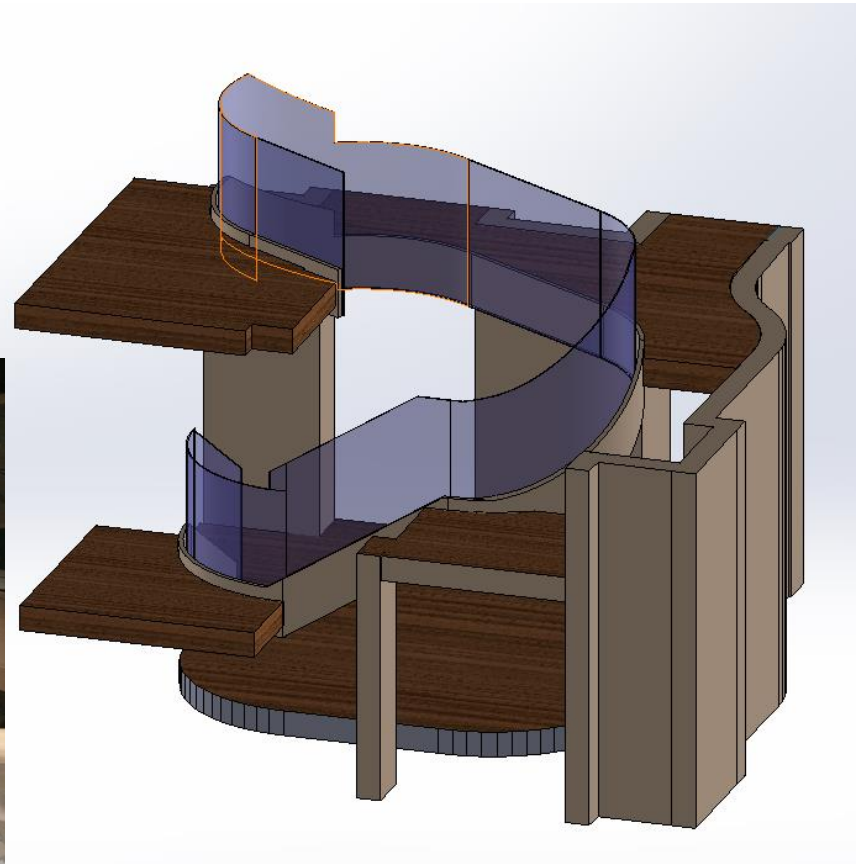
Page 2

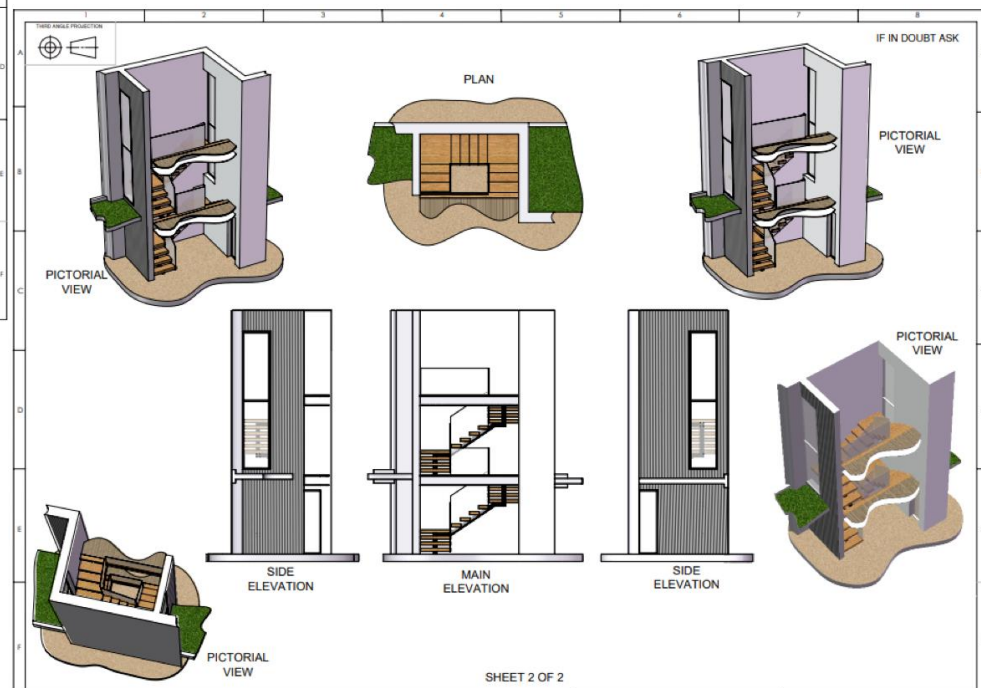
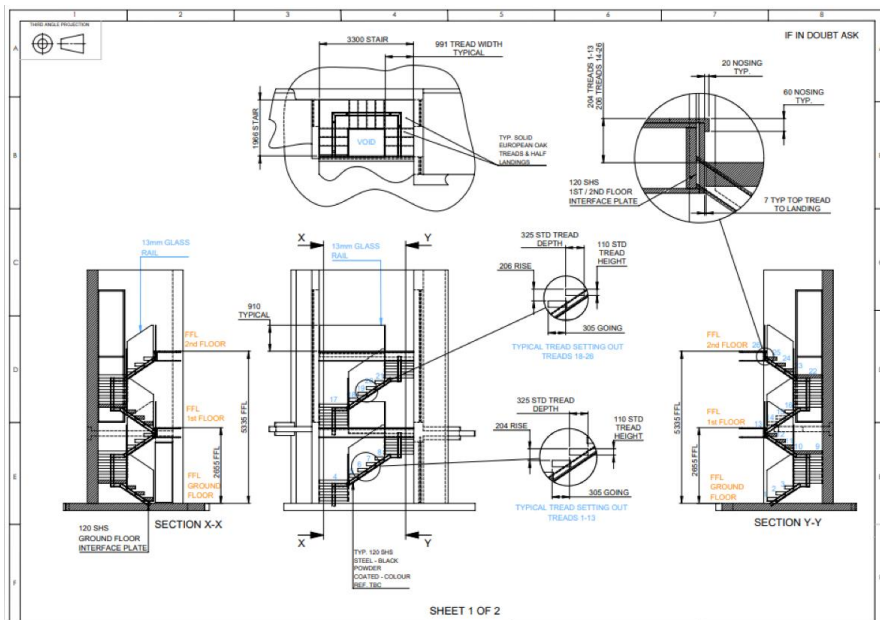


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Below is an example of a staircase where a glass handrail had to be manufactured and installed. Caddology provided the design model and form of the glass.

(Courtesy of Concept Stairs Ltd – Exeter)





Below is a typical stair specification 2D drawing with a set of visuals. All these views and 2D drawing content are linked to a single master 3D model. Any changes to this model are automatically propagated to the views and 2D drawing detail.

The 3D visuals can be as detailed as required. These show the building cutaway with detail on the stair.

(Courtesy of Concept Stairs Ltd – Exeter)

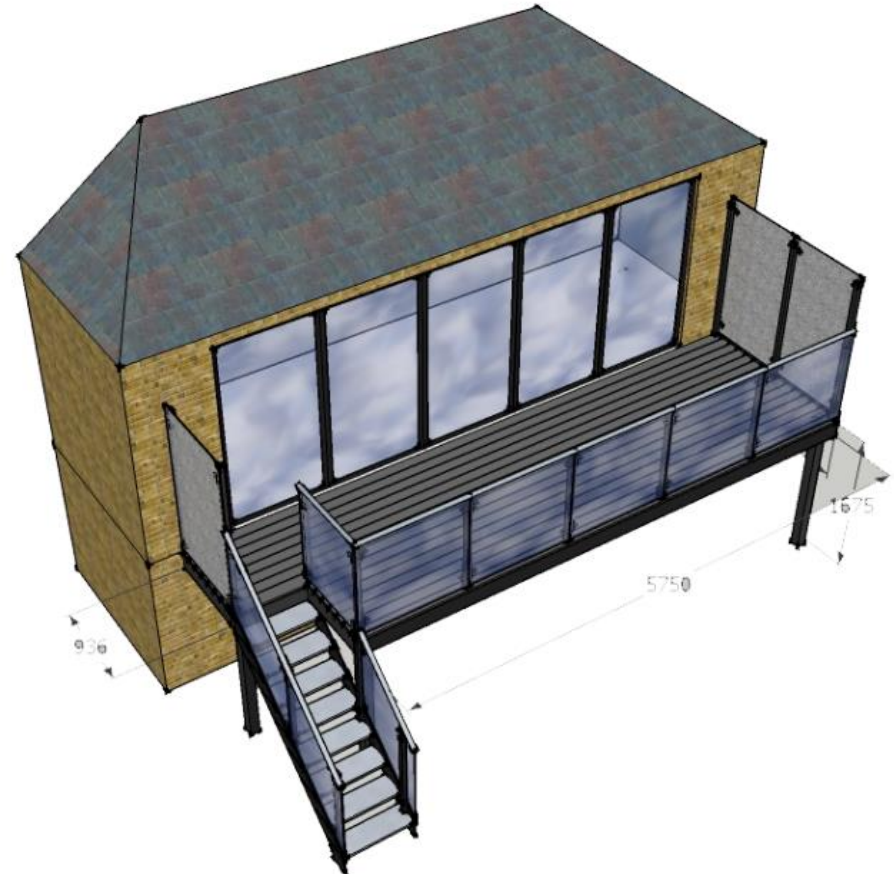


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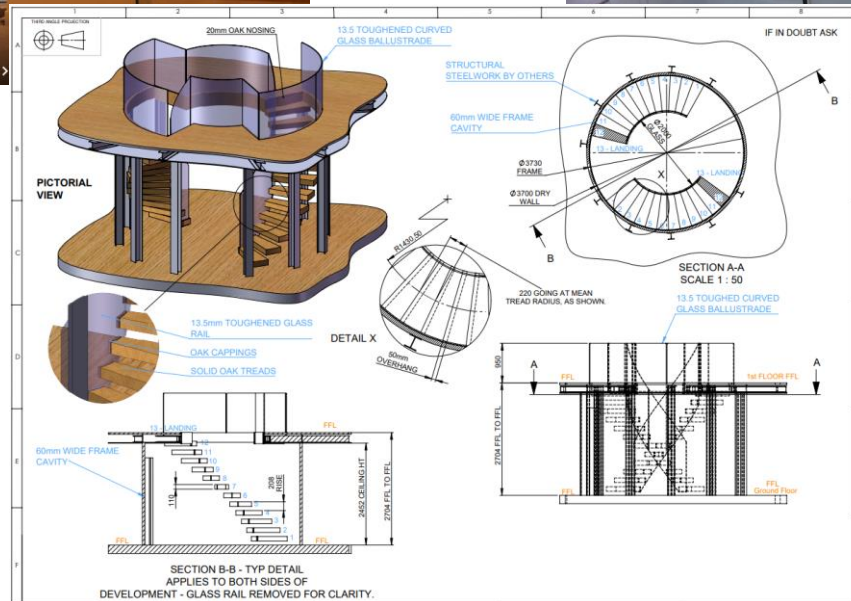
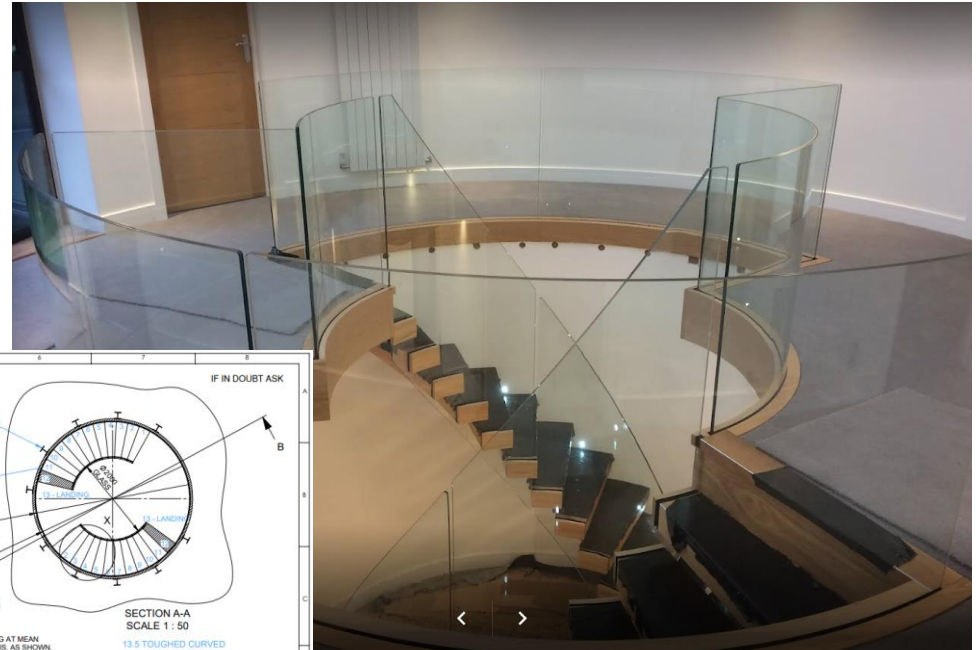
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We can produce 3D presentational details of any project. We often work with architects and similar companies. There is access to a free software download to be able to view, manipulate and even measure and interrogate the model.

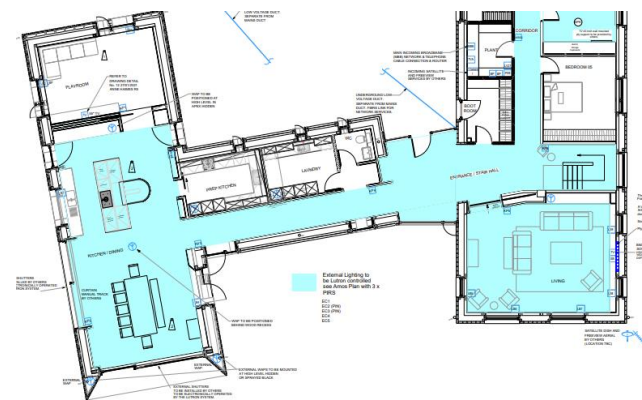
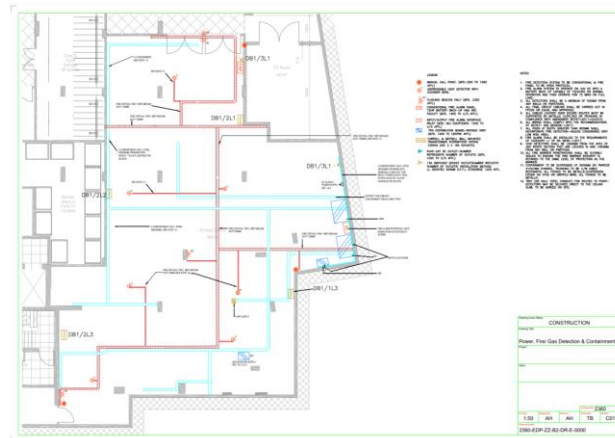
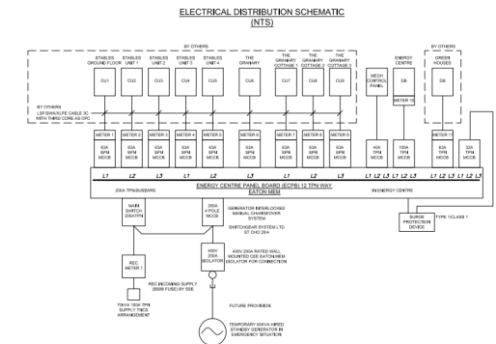
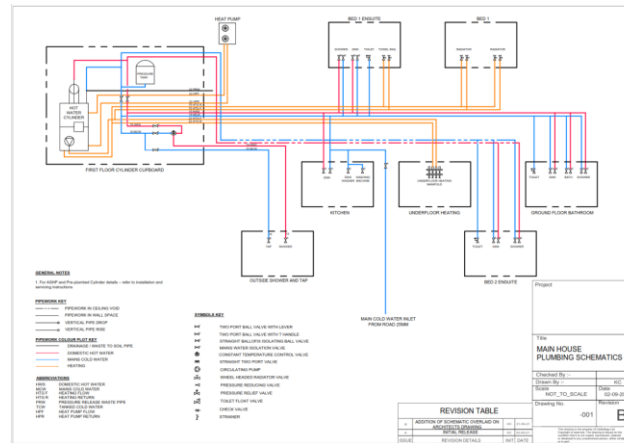
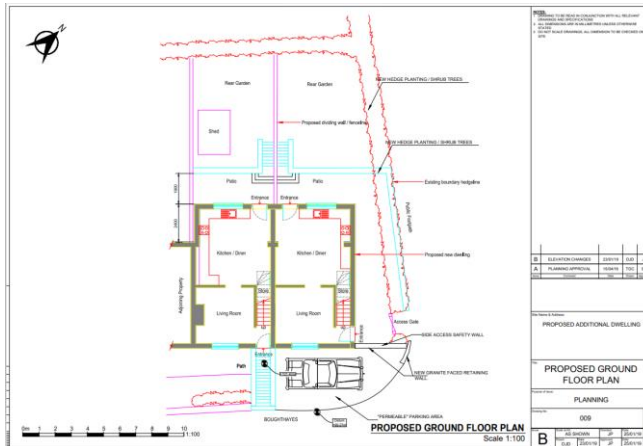


Another example of a very bespoke stair project, designed in Solidworks.
(Courtesy of Concept Stairs Ltd – Exeter)



Caddology can provide support in updating and modifying Architects detailed drawings. We can also support in updating electrical, lighting and HVAC schematics.

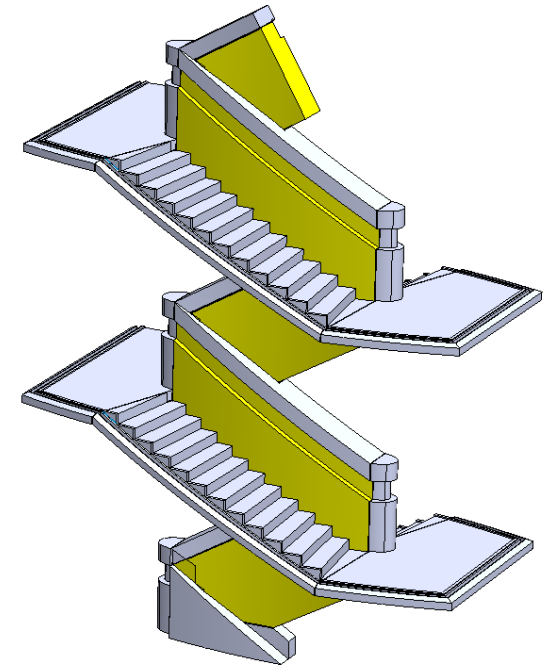
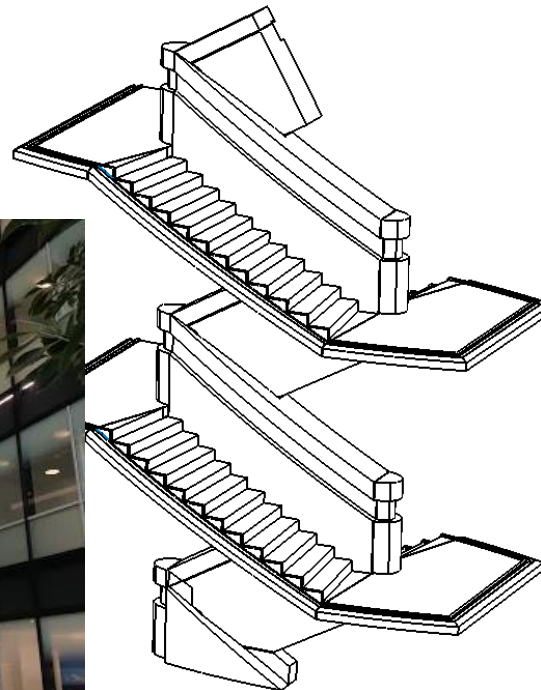
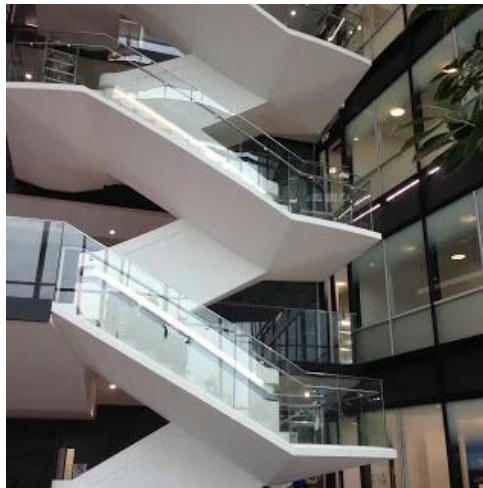
As long as we have the original CAD file, we are able to update any detail as requested. We can apply revision control and work with our customers to turn these updates around in a timely cost effective way.





Caddology Ltd get involved with all types of projects that require a validation of a 2D design. Solidworks can create surface and solid models in a quick and effective way. The models are mathematical and are not a “dumb” graphical representation. This basically means “what you see is what you get” and you achieve perfect accuracy.

Below is a validation of a 2D design using Solidworks 3D capability with the completed project to the left.



The “building blocks” of the stair were modelled and then assembled. Build tolerance and form could then be accurately reviewed to check final fit and function. The 3D output allowed mold makers to produce the molds for each cast concrete piece, as required.

