

# sigmat

BUILDING THE FUTURE OFFSITE



# A NEW WAY TO BUILD





Offsite construction is the future of building.

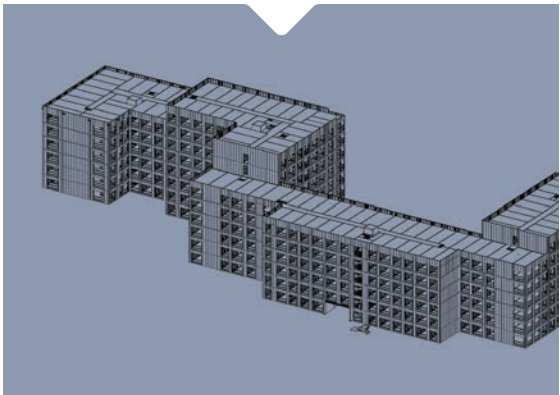
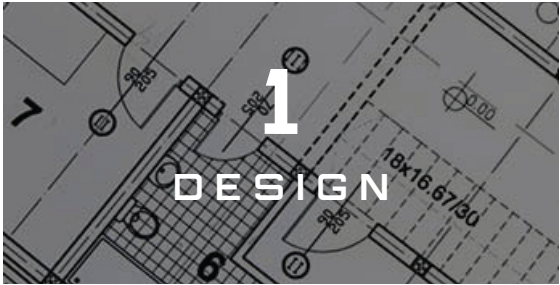
It's more efficient, more cost effective and it delivers a quicker return on investment.

Sigmat offers a single source offsite solution. We design, manufacture, assemble and install light gauge steel frame buildings up to 15 storeys.

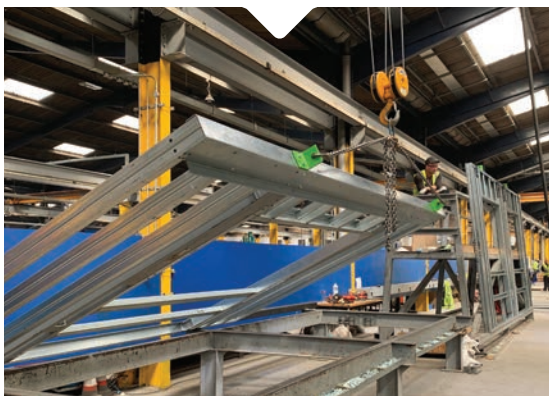
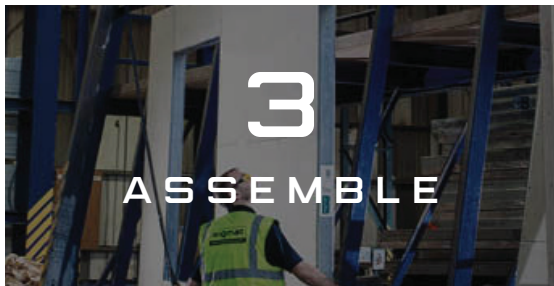


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# SOURCE TO SITE SOLUTION



From design, to build, to completion. Sigmat's off site building technology provides the smartest end to end project solution.





## OUR SECTORS



Pictured: Harris Primary Academy

Your one-stop-shop for your next offsite construction project. Sigmat has over 18 years of extensive experience and industry knowledge, and over 300 completed projects nationwide across student accommodation, residential, retirement living, hotels, townhouses and education sectors.



Sigmat offer bespoke solutions for schools, universities, campuses and other educational facilities. Improved acoustics and robustness.



Specialising in retirement villages, care homes and living. Offering bespoke options including 1 and 2 bedroom apartments, with integrated balconies and bathroom pods.



Specialising in residential schemes up to 15 storeys, ideal for city spaces for reduced time and disruption. Offer components including balconies, bathroom pods, staircases.



Extensive experience in student accommodation of multiple blocks and 1000+ rooms. Build up to 15 storeys with superior robustness.



Offering 3 and 4 storey townhouse solutions utilising bespoke Sigmat light gauge steel framing system. Custom built and assembled offsite to meet individual requirements.



Offering solutions for small and large hotel complexes. Able to accommodate transfer structure allowing for retail and hospitality venues.

# OFFSITE INNOVATION

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Our in-house building designers and Structural Engineers utilise Tekla BIM software to design the appropriate and most efficient buildings that are EC3 compliant. Each solution is rendered via Tekla into a 3D, BIM ready model.

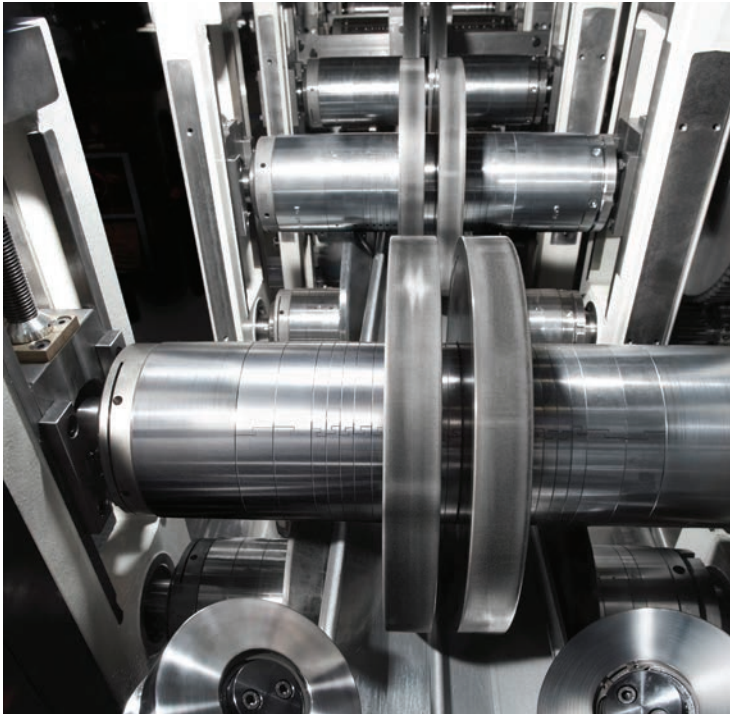
Once the design is approved, information from Tekla is automatically transferred directly to our roll-forming mills, ensuring absolute accuracy from design to manufacturing of every section and profile. Each component is barcoded to track each part from manufacturing to delivery on site.

Our controlled offsite assembly enables us to pre-assemble every structure comprising internal and external wall panels, prior to delivery. Reassurance that once sent to site, everything will fit into place and be robust. It also means shorter build time and on site health and safety risks are reduced. Offsite assembly is not weather affected or dependent and production is scheduled to meet deadlines. It is reliable and repeatable and that is cost effective.

Less time spent on site is less money spent on the build. Sigmat light gauge steel frame is installed rapidly to create the building superstructure and importantly enables follow on trades to begin at the earliest opportunity. Our proprietary scaffold-free edge protection system 'SigSafe' is a key benefit of the Sigmat System.

Opposite: Photos of our state of the art, roll-forming mills at our Leeds manufacturing facility.





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## ON SITE ADVANTAGES

We fully understand the onsite construction process and have used this knowledge to develop patented sections and profiles which save time and money. These deliver real performance and speed advantages to the construction of our load bearing light gauge steel frames for our customers. We have the ability to integrate with hot rolled sections, utilise podium structures and supply custom made steel staircases as part of our service.







## PODIUM TRANSFER STRUCTURE

INCLUDING STEEL STAIRS

TRANSFER FLOOR SLAB 160MM

SFS NON LOAD BEARING



## INTERNAL WALLS

UNCLAD BRACED  
INTERNAL WALLS

★ SOLE PLATES (WHERE REQUIRED)

ENGINEERED COLD ROLLED  
GALVANISED STEEL PANELS



## EXTERNAL WALLS

ENGINEERED COLD ROLLED  
GALVANISED STEEL PANELS

BRICK TIE CHANNELS

CALCIUM SILICATE BOARD

VISQUEEN SHEETING  
TO STRUCTURAL OPENINGS

★ MASONRY SUPPORT

★ SOLE PLATES



## VOLUMETRIC PANELS

WINDOWS & PATIO DOORS

INSULATION

BRICK TIE CHANNELS OR SIMILAR

EXTERNAL FASCIA FIXING

ELECTRICAL WIRING TO BACK BOX

EXTERNAL CALCIUM SILICATE BOARD

INTERNAL BOARDING



## FLOORS

180MM SLAB

CONCRETE ON COMPOSITE  
METAL DECKING

PRE-BOARDED FLOOR CASSETTES



## ROOFS

35MM TRAPEZOIDAL  
PROFILE ROOF DECK

COLD ROLLED PURLINS

CONCRETE ROOF



## STAIRS

### OPTION 1

- STANDARD STEEL TREAD STAIRS
- STEEL HALF LANDING

OR

### OPTION 2

- 24MM CP BOARD INSERT STAIRS
- 24MM CP BOARD INSERT HALF LANDING CASSETTES

OR

### OPTION 3

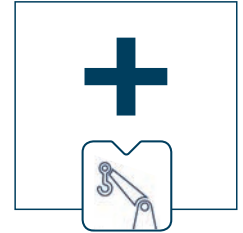
- 50MM STEEL PAN TREAD TO ALLOW FOR SCREED
- 180MM CONCRETE HALF LANDING



## BALCONIES

★ HOT ROLLED GALVANISED  
STEEL FRAME

★ 24MM CP BOARD  
INSERT



## ADDITIONAL ITEMS

SIGSAFE SCAFFOLDLESS  
ERECTION SYSTEM

LIFT SHAFT WALLS

LIFTING BATHROOM PODS

LIFTING OF PLASTER BOARD PACKS

CRANAGE

SCAFFOLD/MAST CLIMBER TIES



## GET IN TOUCH

Find out how Sigmat can help your next construction project or enquire about CPD

T: 01756 701 522

E: [enquiries@sigmat.co.uk](mailto:enquiries@sigmat.co.uk)

[www.sigmat.co.uk](http://www.sigmat.co.uk)

## WHERE TO FIND US

### HQ

Birkbeck  
Water Street  
Skipton  
BD23 1PB

### MANUFACTURING

Unit A  
Cross Green Close  
Leeds  
LS9 0RY

### CONTRACT SUPPORT

1 Crossland Park  
Cross Green Way  
Leeds  
LS9 0SE

### R&D CENTRE

Nicholas House  
Heath Park  
Cropthorne  
WR10 3NE

### GLASGOW

Suite 1.01  
Innovation Centre  
1 Ainslie Road  
Glasgow  
G52 4RU

### ELLAND

Gannex House  
Gannex Park  
Dewsbury Road  
Elland  
HX5 9AF

### TEESSIDE

Wynyard Park House  
Wynyard Business Park  
Wynyard Avenue  
Billingham  
TS22 5TB

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