

I JORNADA

#CivilBIM

ESTRATEGIA Y PRIMEROS PASOS

APLICACIÓN DE BIM EN PROYECTOS DE INGENIERÍA ESTRUCTURAL



NUESTRA EMPRESA

#CivilBIM
DEGREE OF FREEDOM

3 Oficinas con 20 empleados: Oslo | Valencia | Gdansk

Socios: Gaute Mo (2010) – Fernando Ibáñez y Felice Allievi (2011) – Marcin Kasiak (2016)

Experiencia en la oficina de Santiago Calatrava

Colaboradores: Foster and Partner, Snøhetta, Helen&Hard, Knight Architects, NUNO, Saaha



EXPERIENCIA BIM

#CivilBIM
DEGREE OF FREEDOM

EDIFICACIÓN

OBRA INDUSTRIAL

OBRA CIVIL

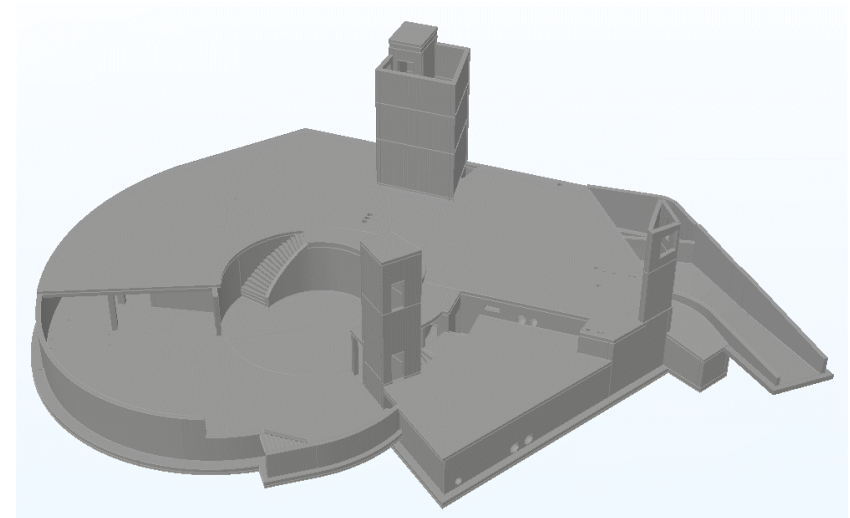
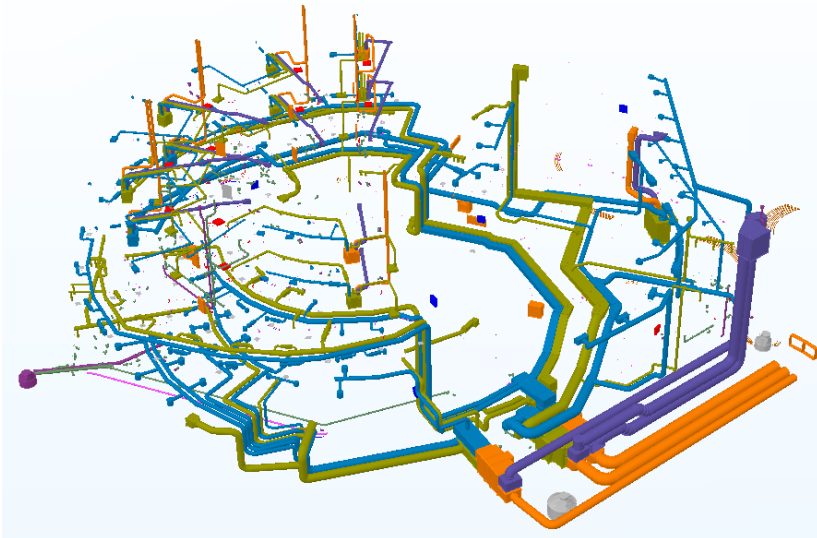
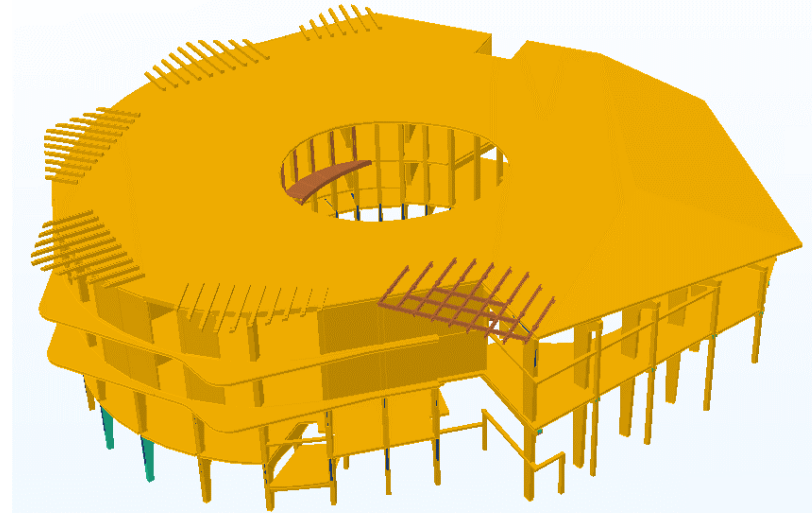
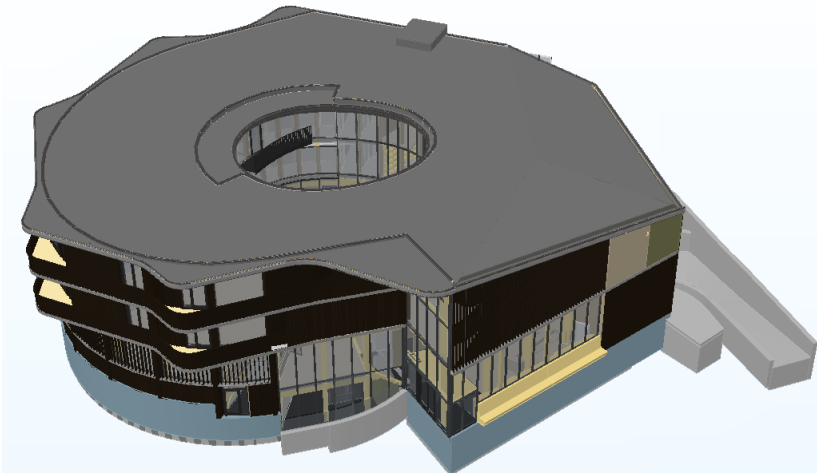
OBRAS SINGULARES



EDIFICACIÓN

Samling

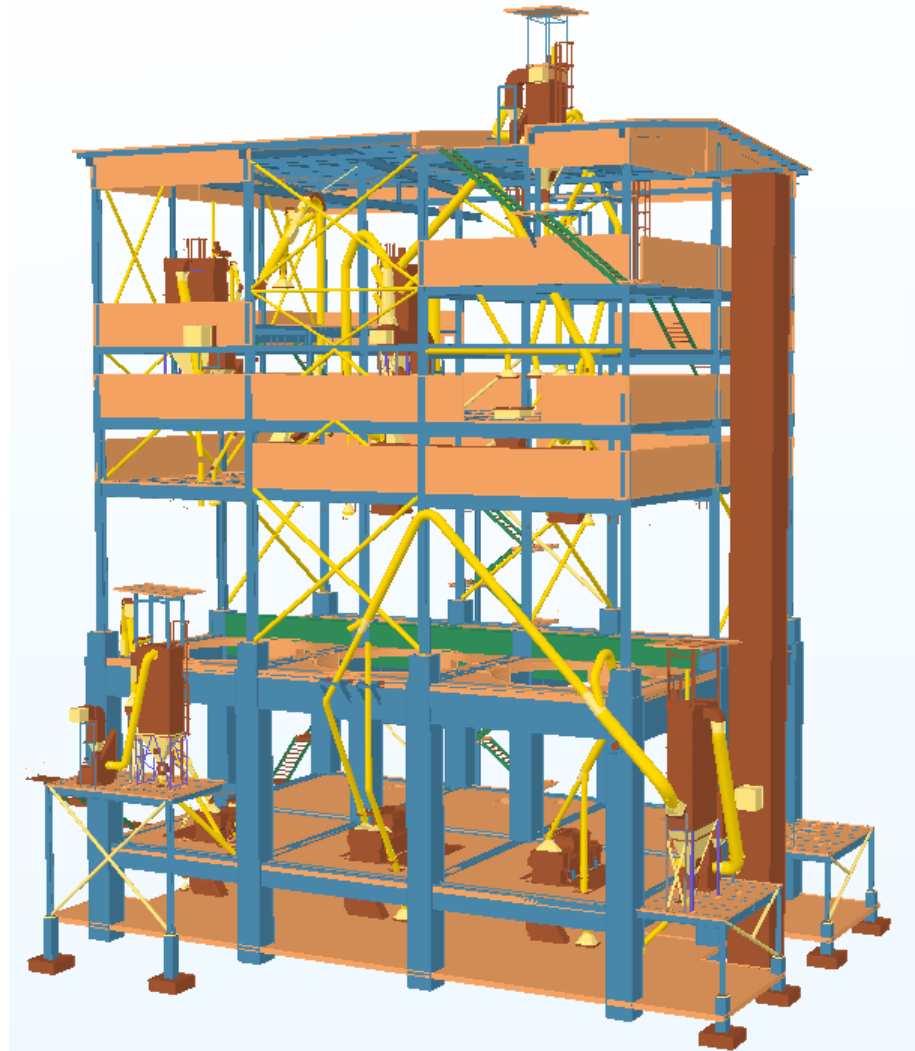
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OBRA INDUSTRIAL

Yamama

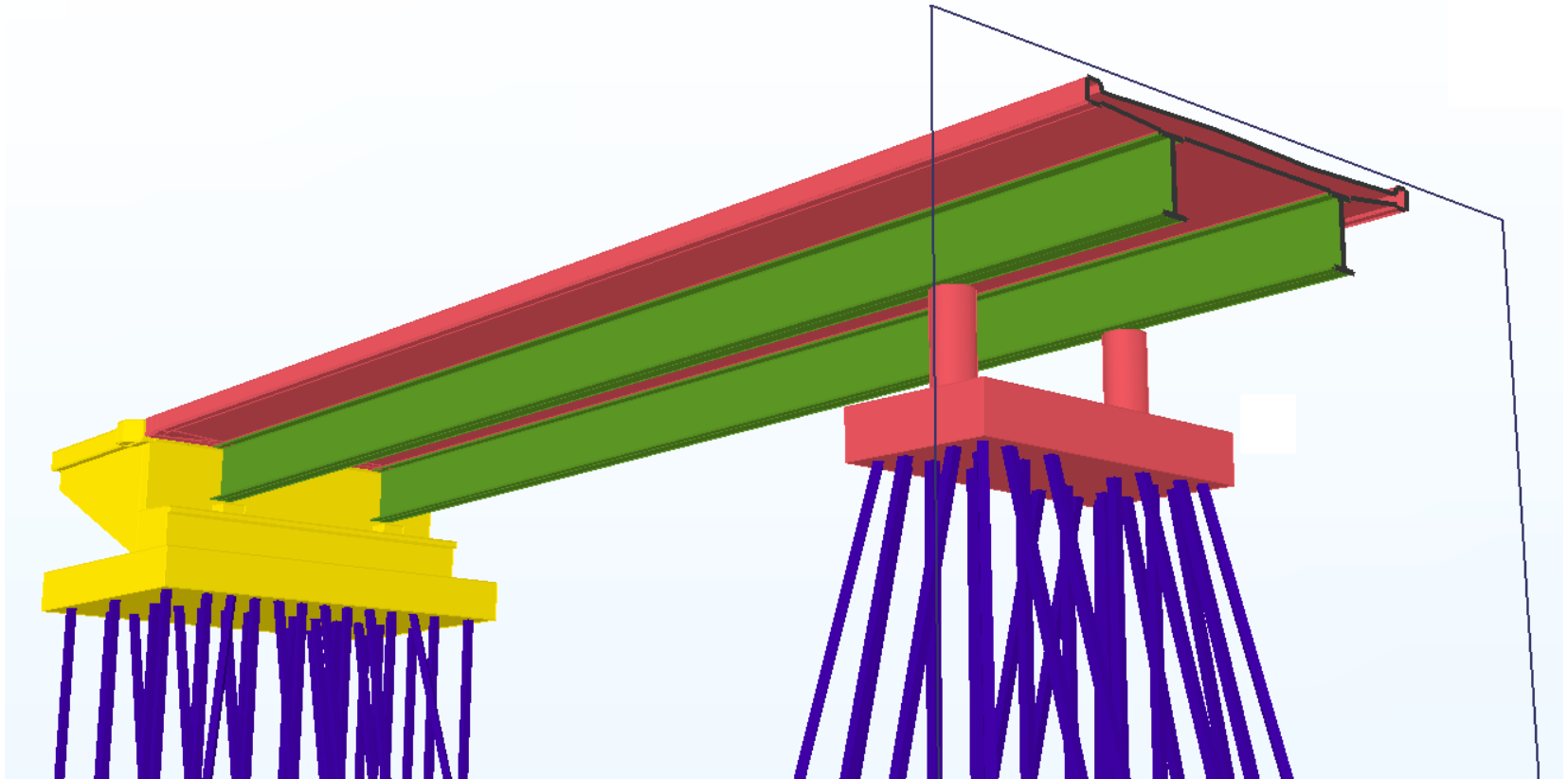
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OBRA CIVIL

Björnobron

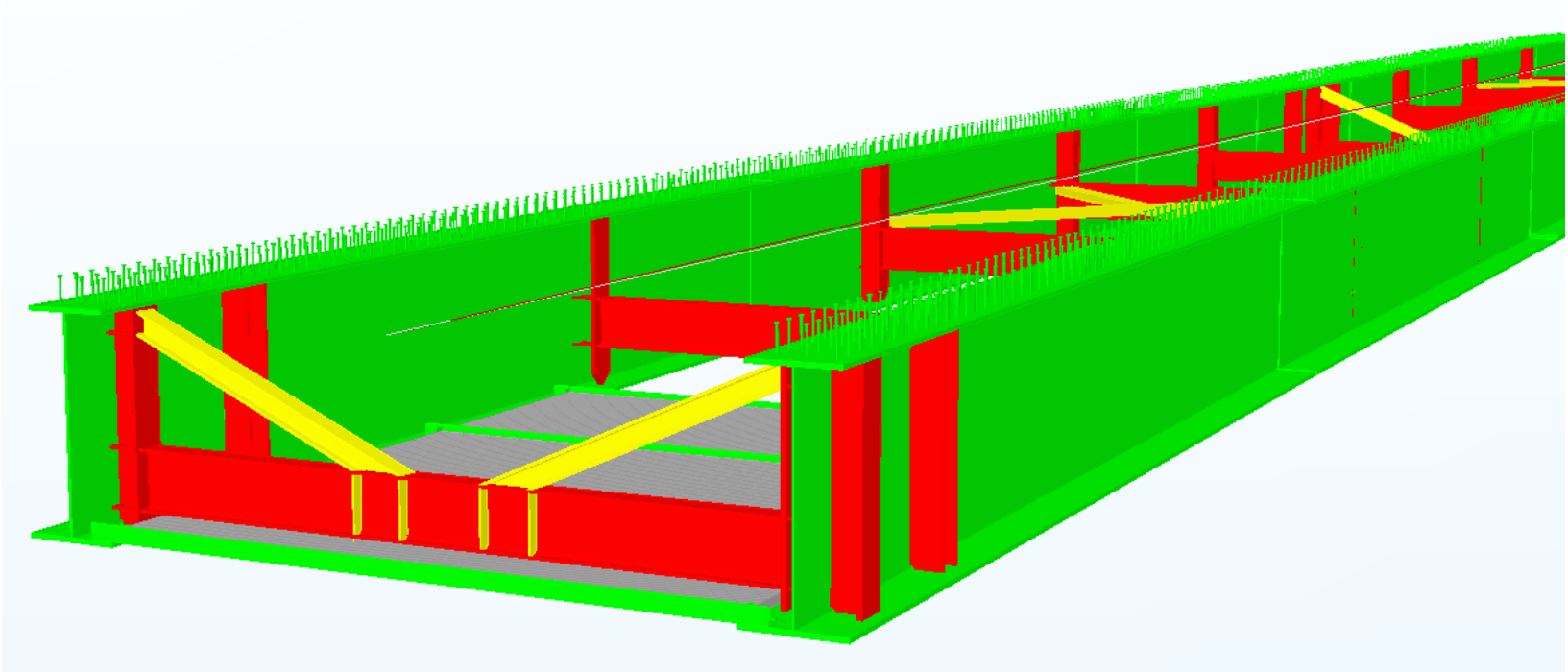
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OBRA CIVIL

Björnobron

#CivilBIM
DEGREE OF FREEDOM



OBRAS SINGULARES

Stovnertårnet

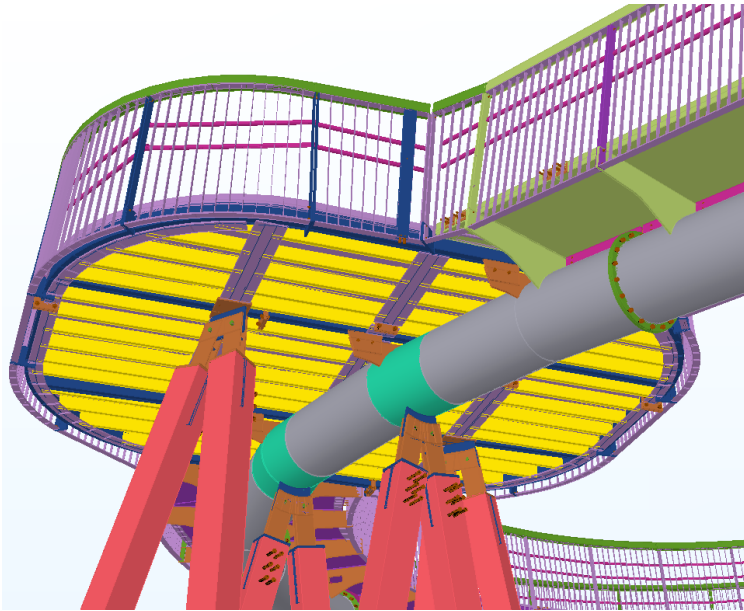
#CivilBIM
DEGREE OF FREEDOM



OBRAS SINGULARES

Stovnertårnet

#CivilBIM
DEGREE OF FREEDOM

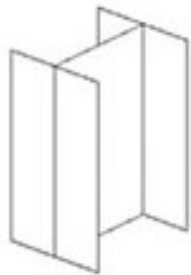


Level Of Development (LOD)

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LOD
100



LOD
200



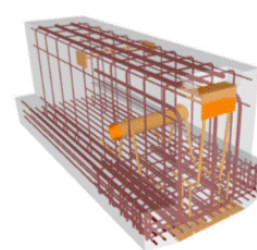
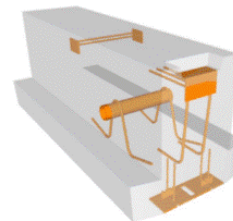
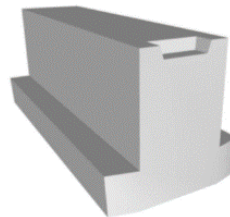
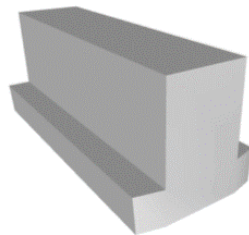
LOD
300



LOD
350



LOD
400



EDIFICACIÓN

Finansparken

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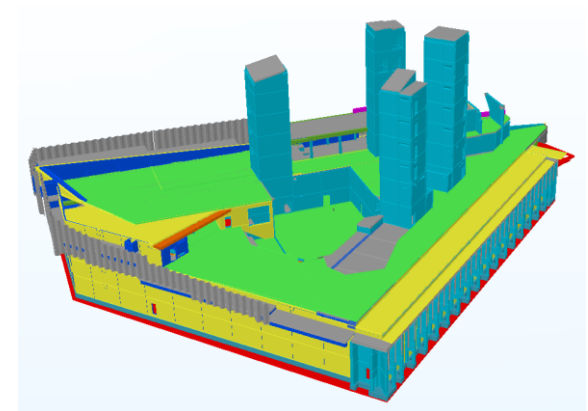
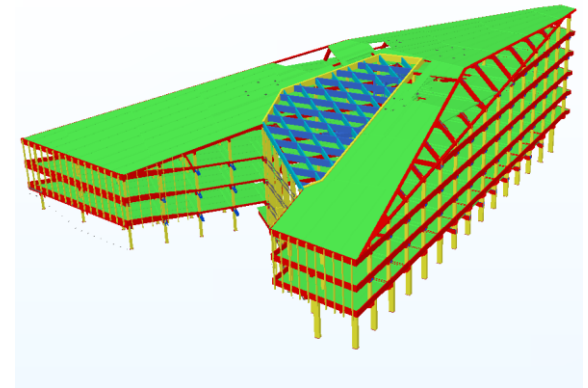
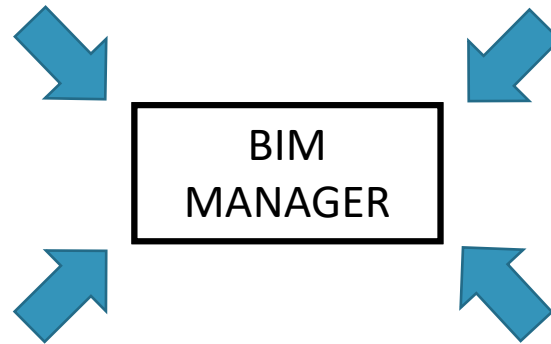
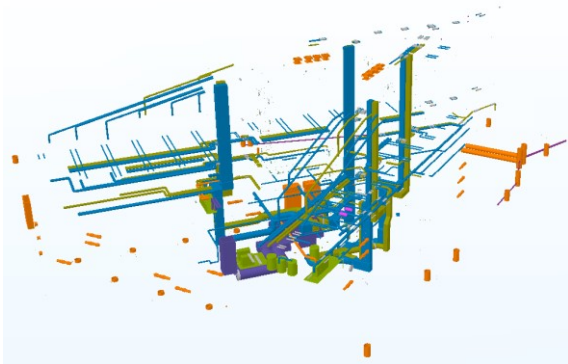
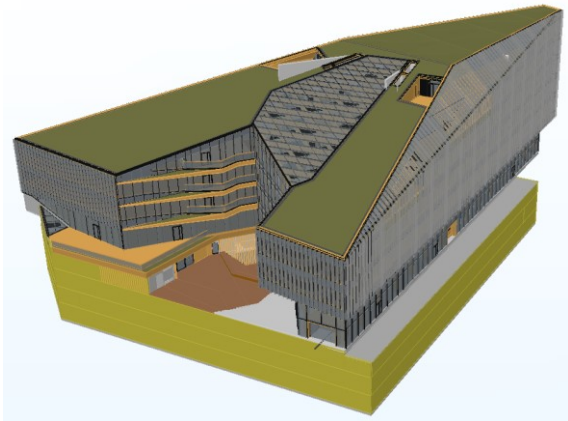


EDIFICACIÓN

Finansparken

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Coordinación entre disciplinas



EDIFICACIÓN

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Coordinación entre disciplinas



INICIATIVA por parte de las distintas especialidades

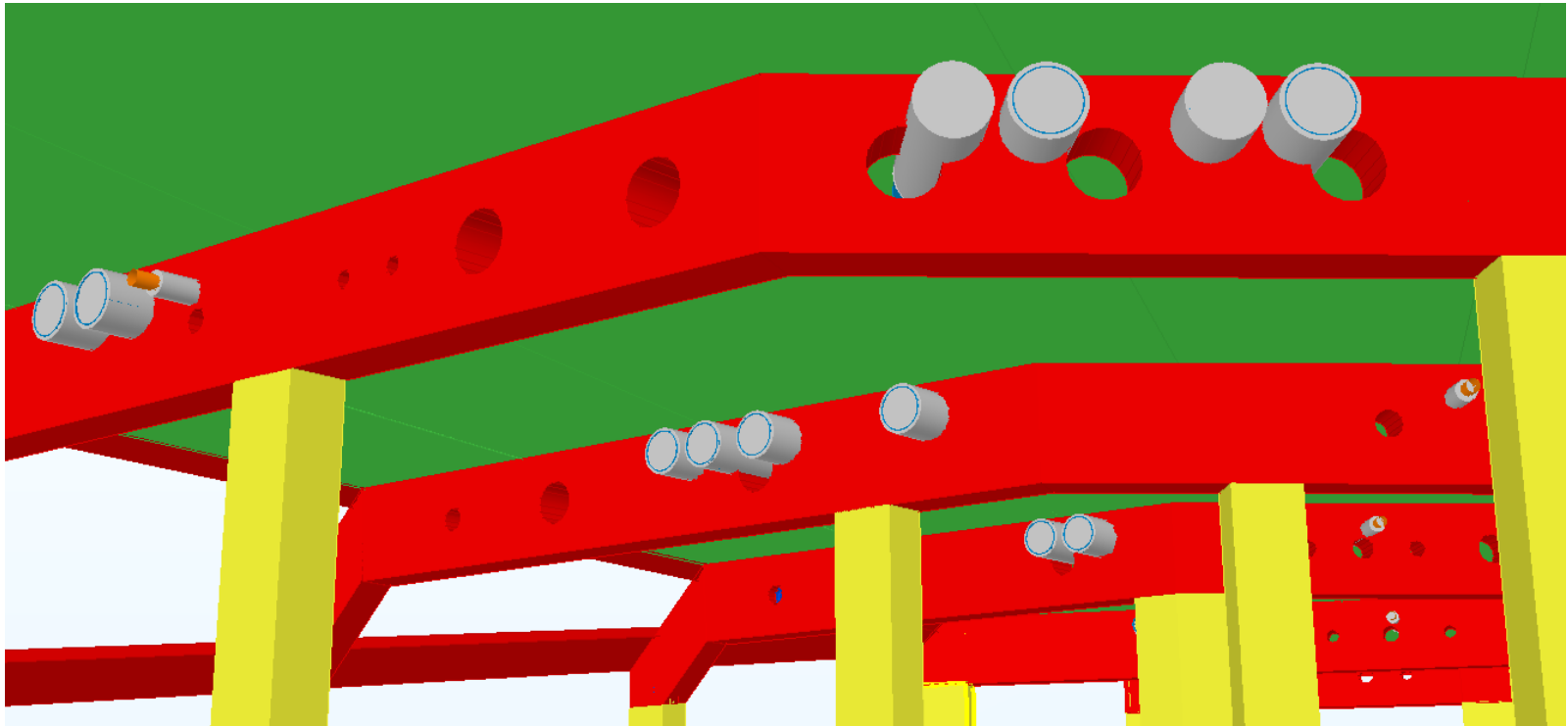
GESTIÓN por parte del BIM Manager

EDIFICACIÓN

Finansparken

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Coordinación entre disciplinas

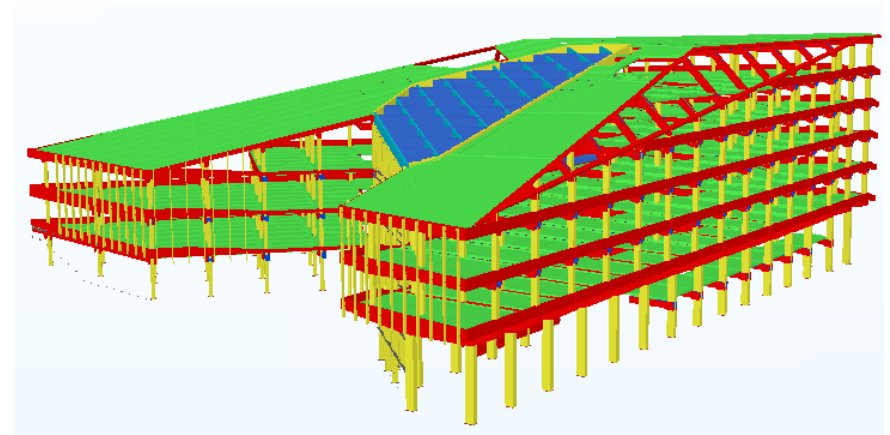
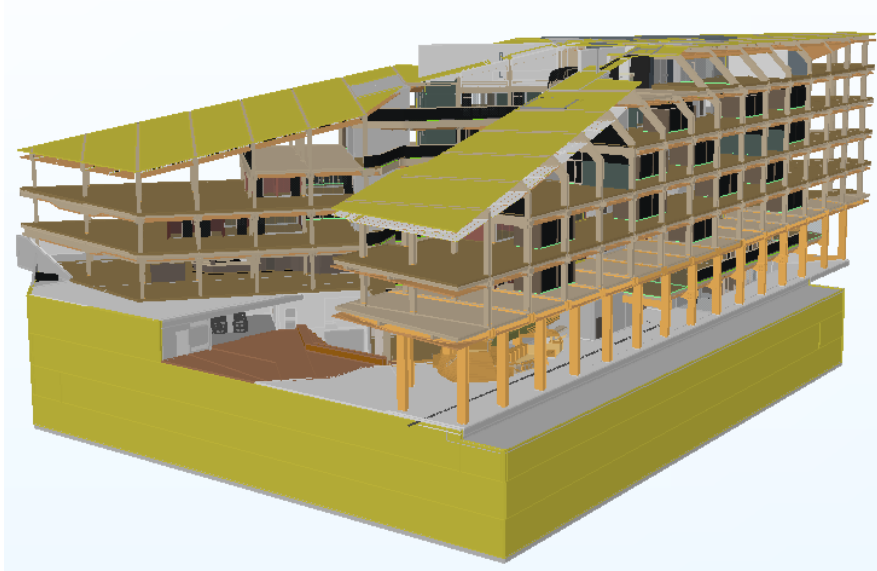


EDIFICACIÓN

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Coordinación entre disciplinas

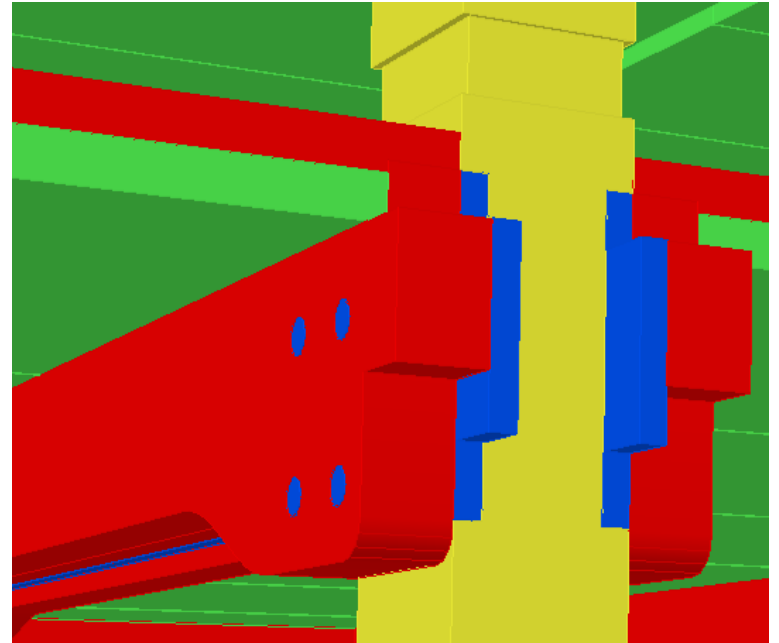


EDIFICACIÓN

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Fabricación de piezas en taller a partir de modelo BIM

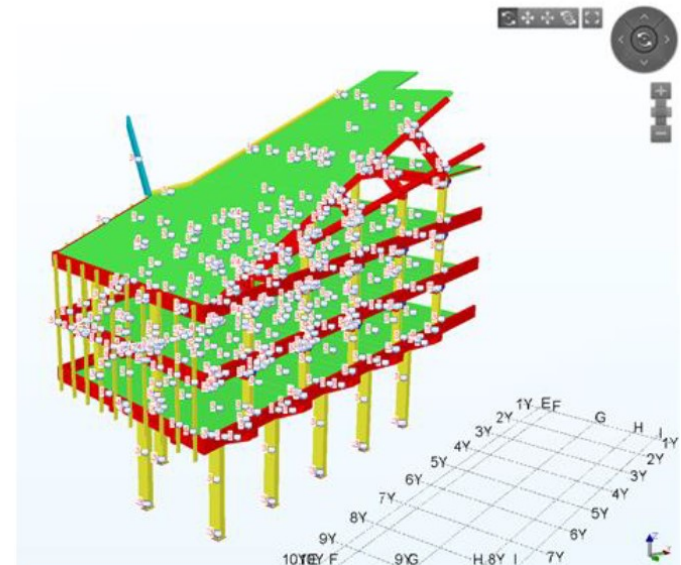
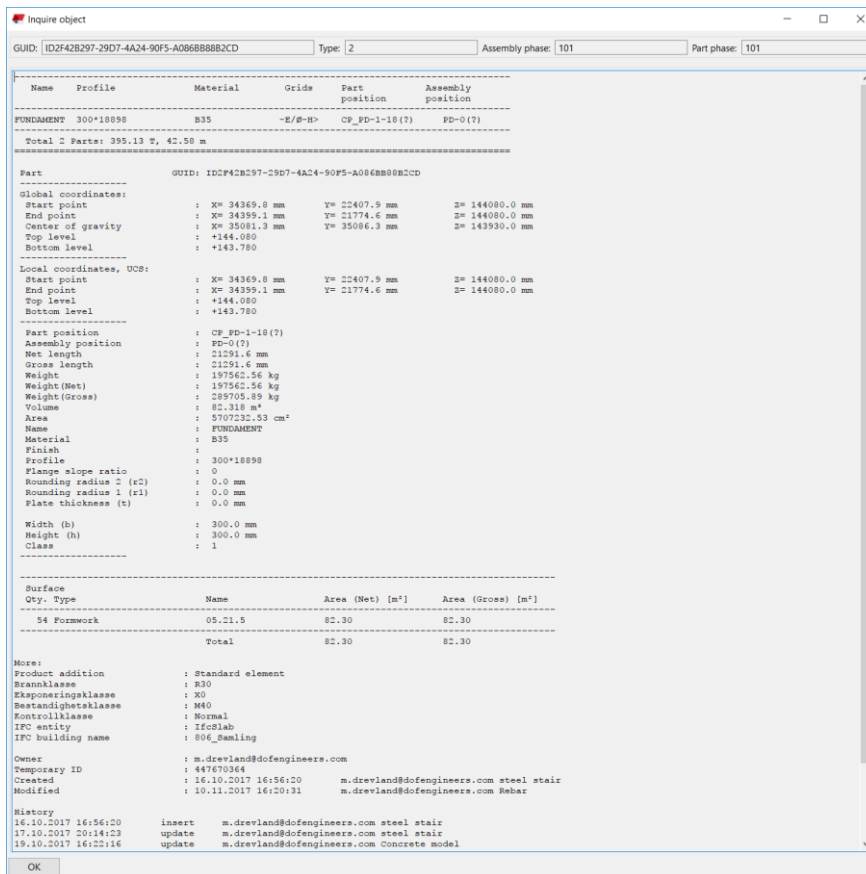


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Información entregada a través del propio modelo

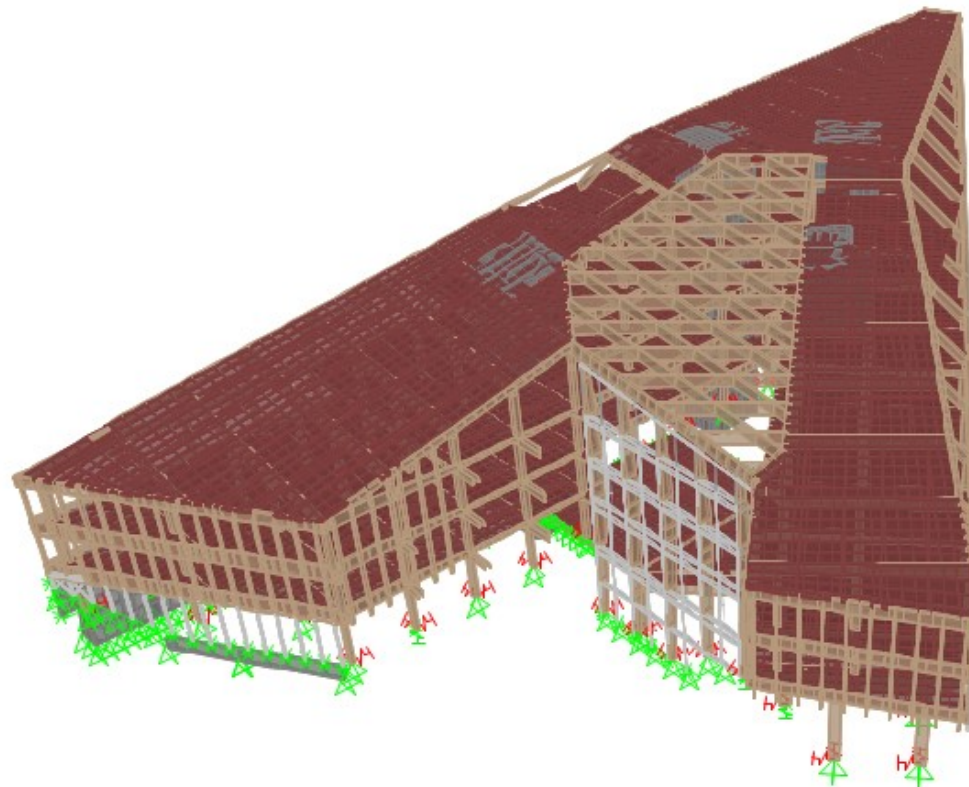


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Directrices de modelo FEM a partir de modelo BIM

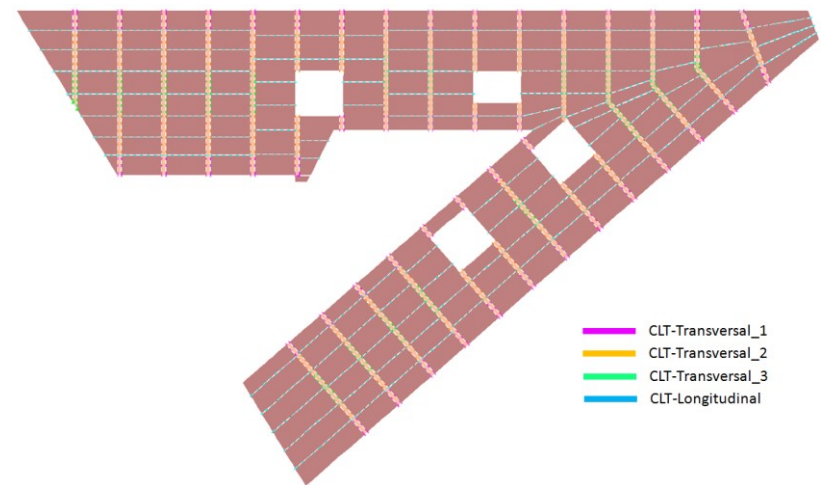


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Modelado de juntas en paneles CLT coordinado a través de modelo BIM



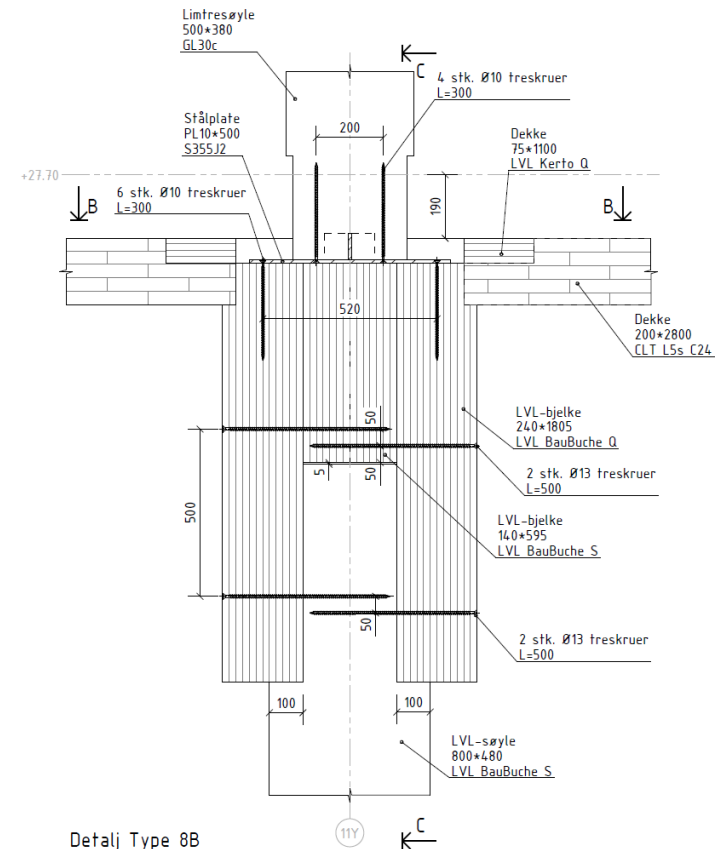
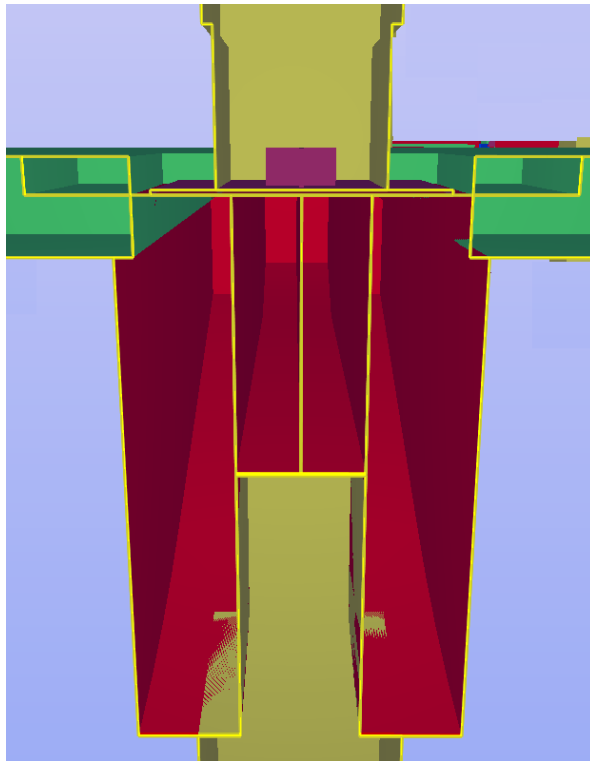
EDIFICACIÓN

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Apoyo al diseño de conexiones

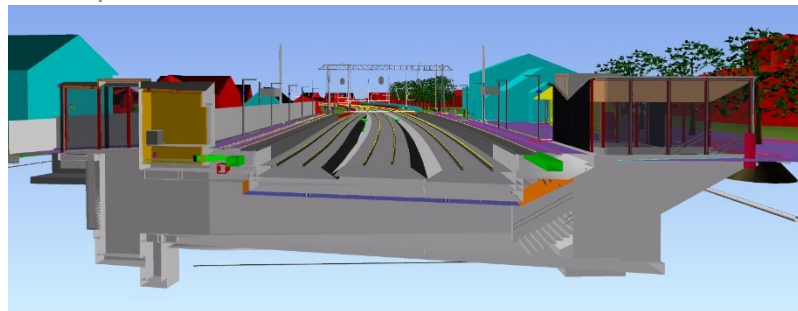


Detalj Type 8B

OBRA CIVIL

Sørumsdal

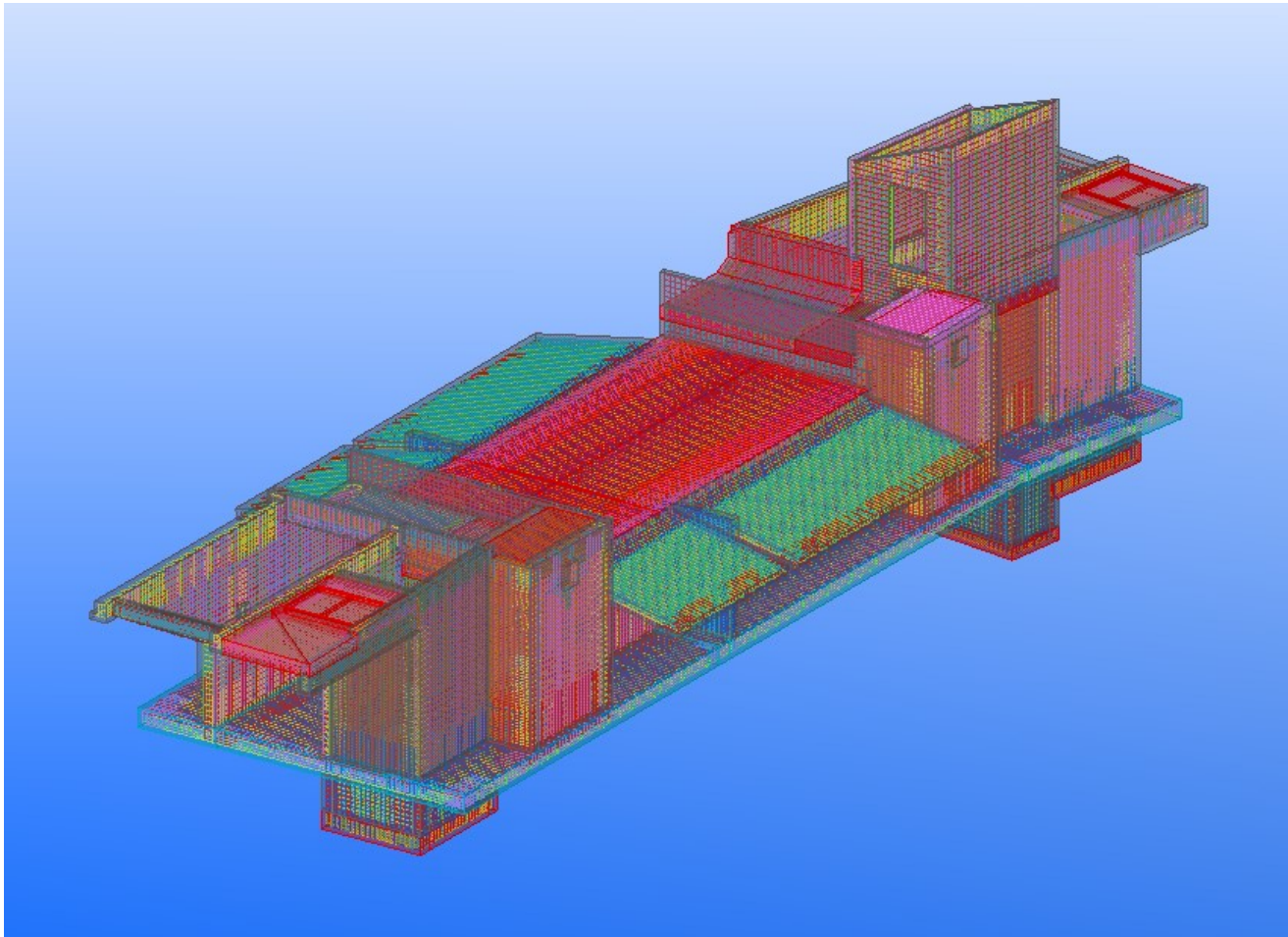
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Sørumsand

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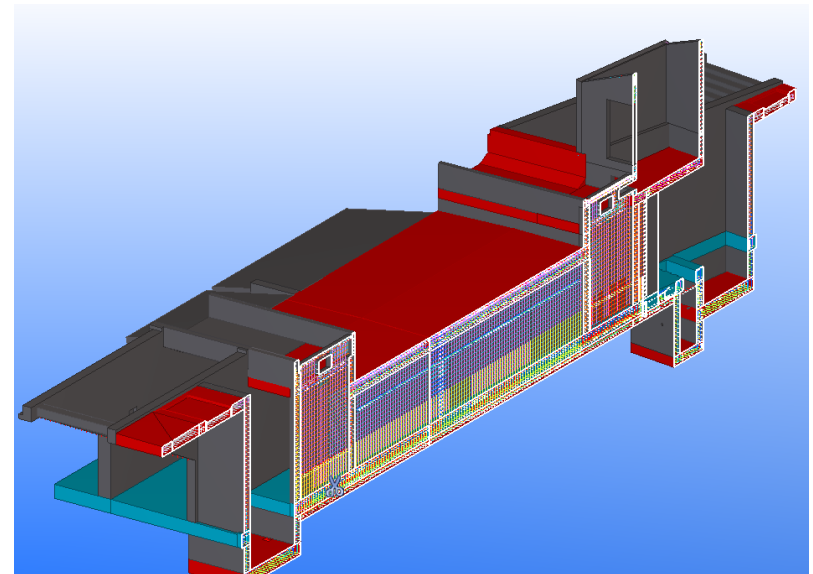
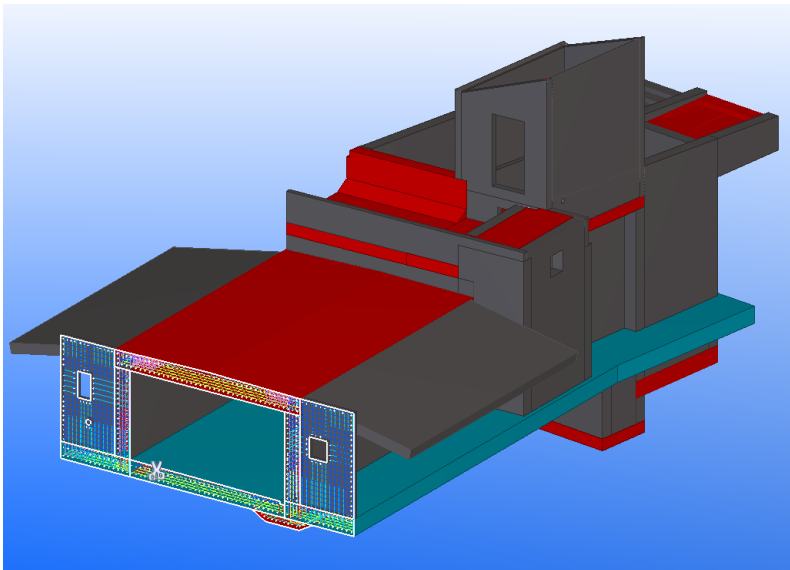


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Sørumsand

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Coordinación entre disciplinas

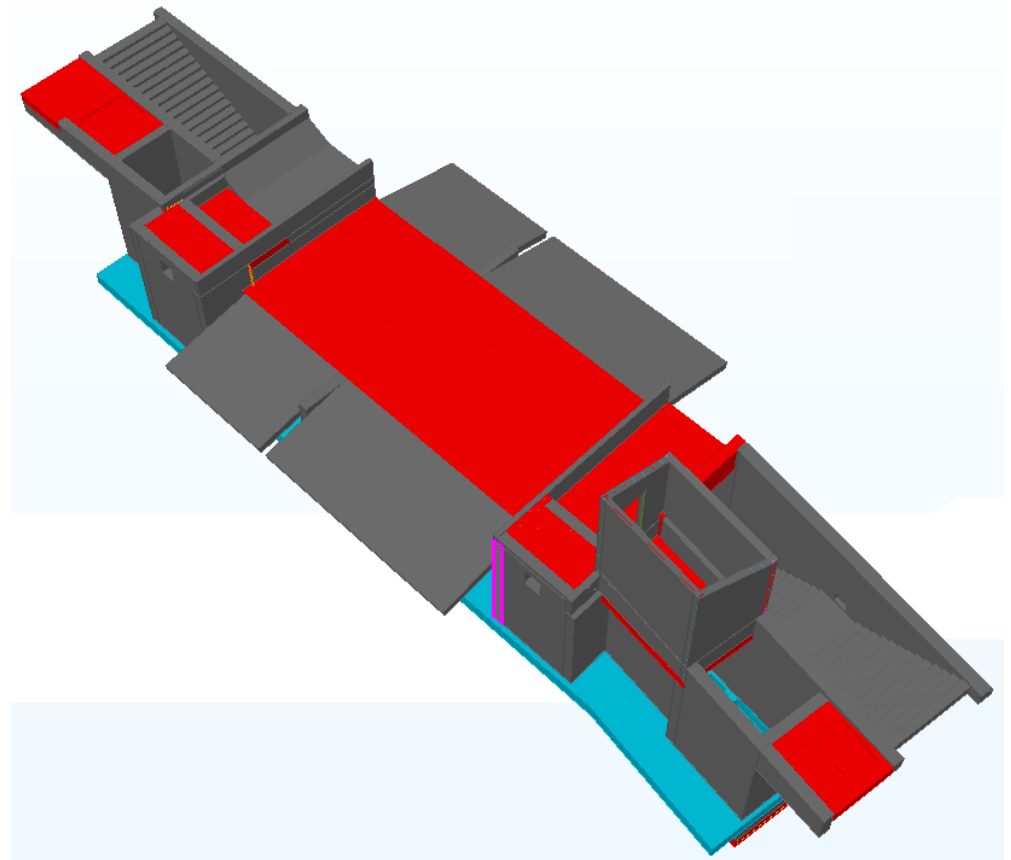
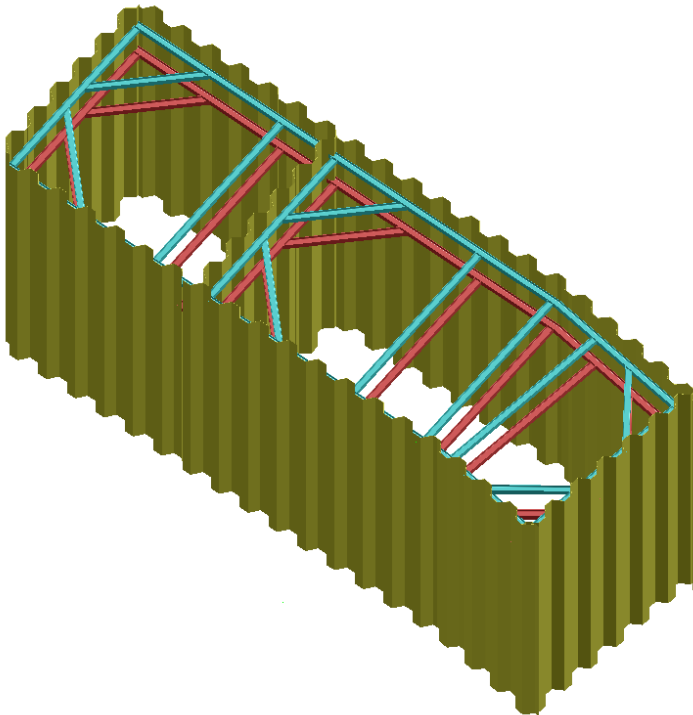


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Consideración de fases constructivas

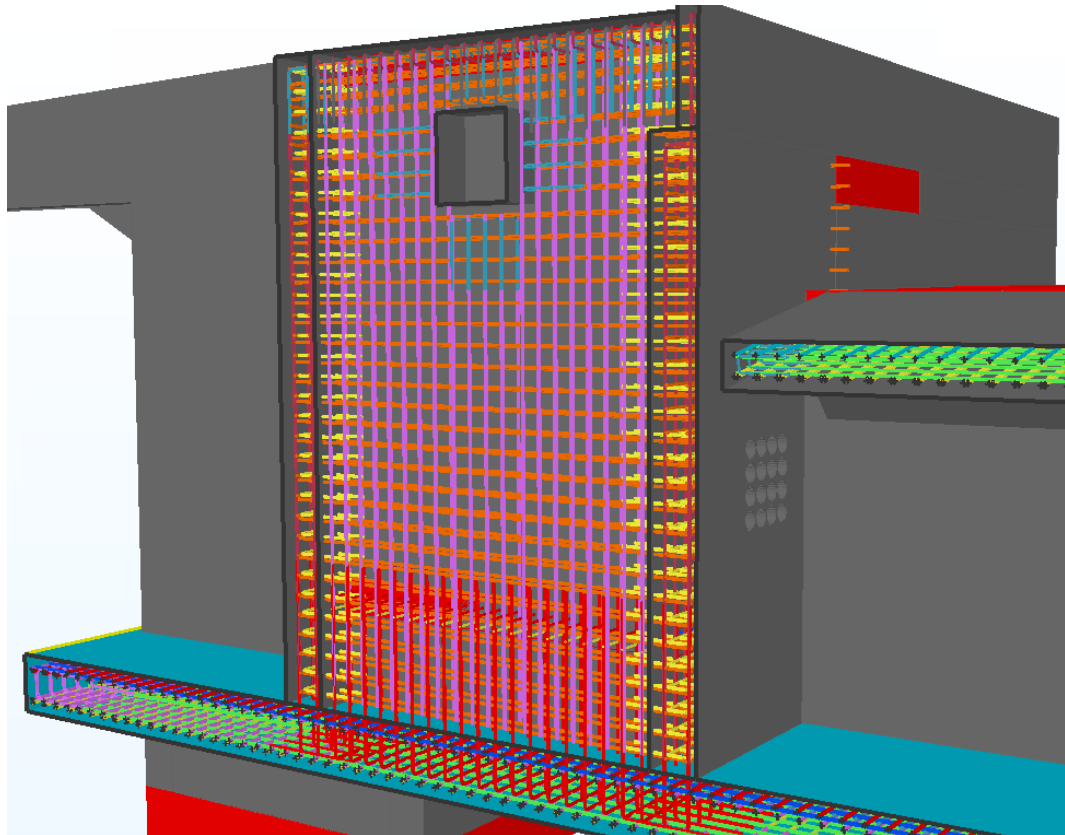


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Ventajas de introducir el armado en BIM - Congestión

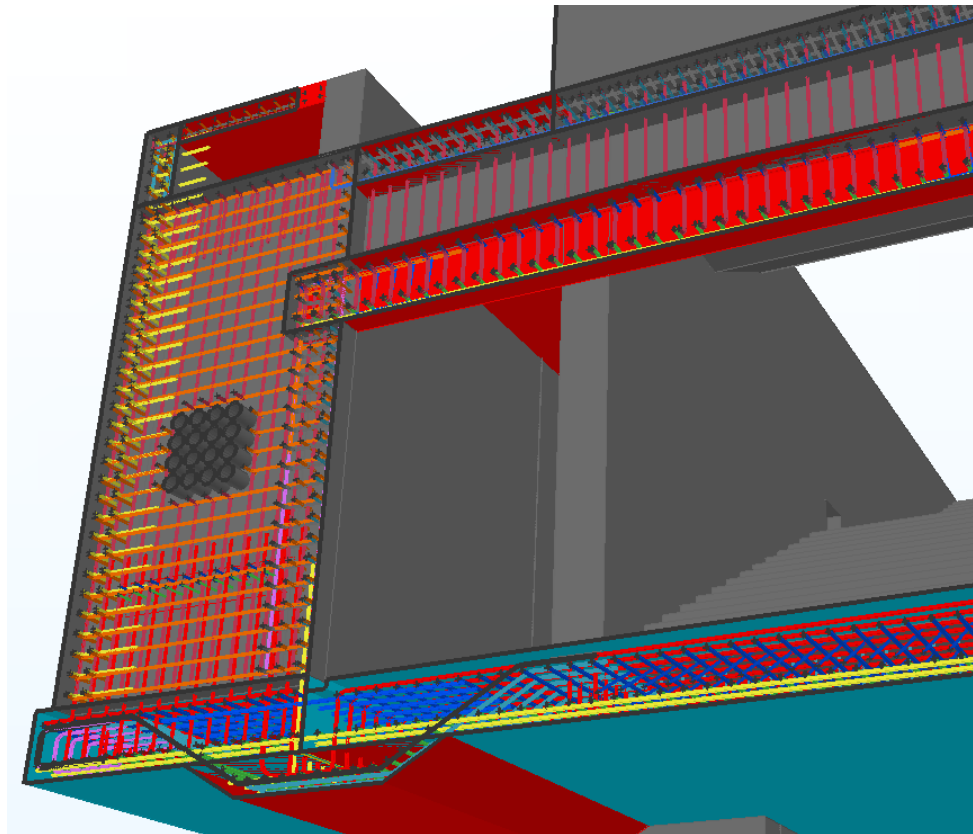


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Ventajas de introducir el armado en BIM - Congestión



Ventajas de introducir el armado en BIM - Despiece

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3766

December 2003

ICS 01.100.30

Supersedes EN ISO 3766:1999 and EN ISO 4066:1999

Incorporating corrigendum September 2004

English version

Construction drawings - Simplified representation of concrete
reinforcement (ISO 3766:2003)

Dessins de construction - Représentation simplifiée des
armatures de béton (ISO 3766:2003)

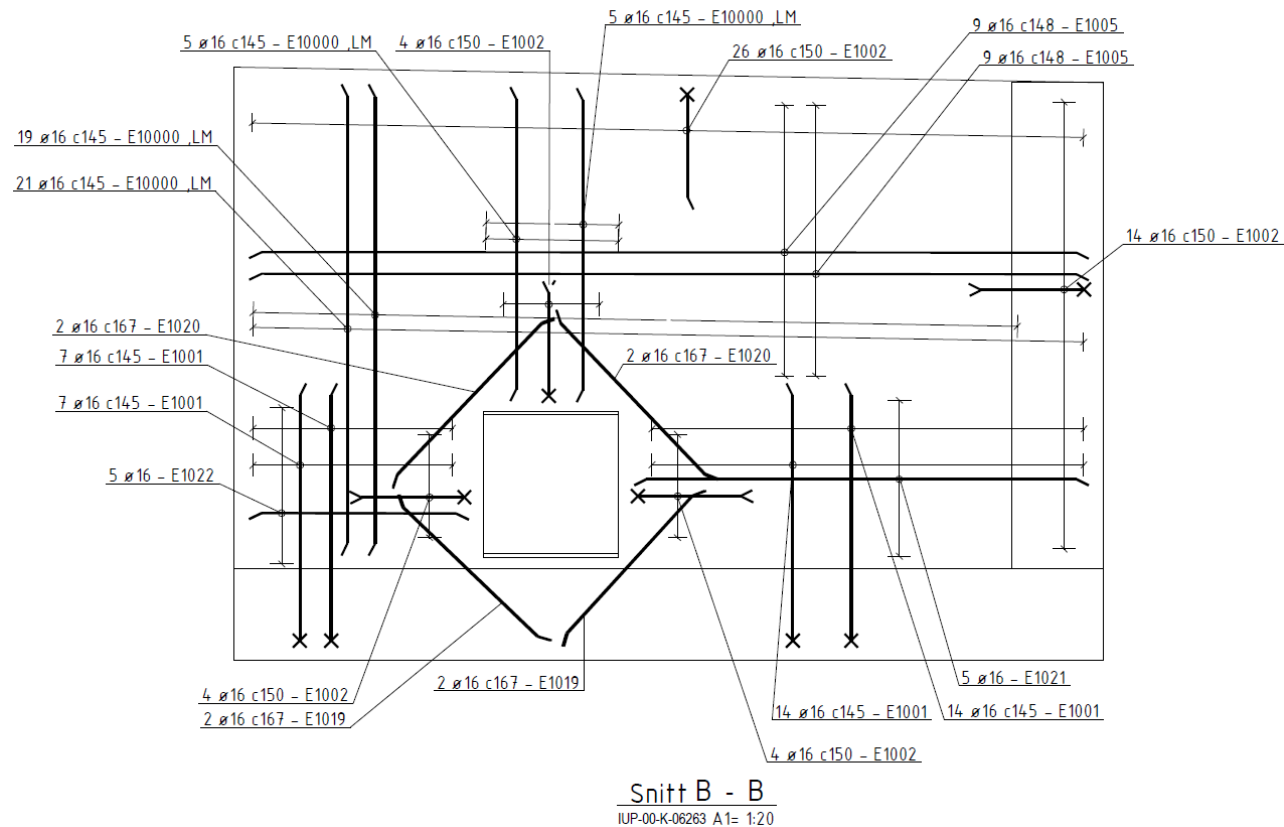
Zeichnungen für das Bauwesen - Vereinfachte Darstellung
von Bewehrungen (ISO 3766:2003)

Ventajas de introducir el armado en BIM - Despiece

Table 5 (continued)

Shape code	Bar shape	Example without end hook	Example with end hook
15			
15	0 0 a b c h	15 0 0 1 000 4 800 1 500	15 1 1 1 000 4 800 1 500 120
21			
21	0 0 a b c h	21 0 0 3 000 1 000 800	21 -1 -1 800 300 800 120
25			
25	0 0 a b c d e h	25 0 0 300 2 000 500 200 100	25 2 2 800 1 000 800 740 775 150
26			
26	0 0 a b c d h	26 0 0 1 000 1 200 1 400 1 185	26 1 1 700 700 1 200 500 120

Ventajas de introducir el armado en BIM - Despiece



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[illegible]

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