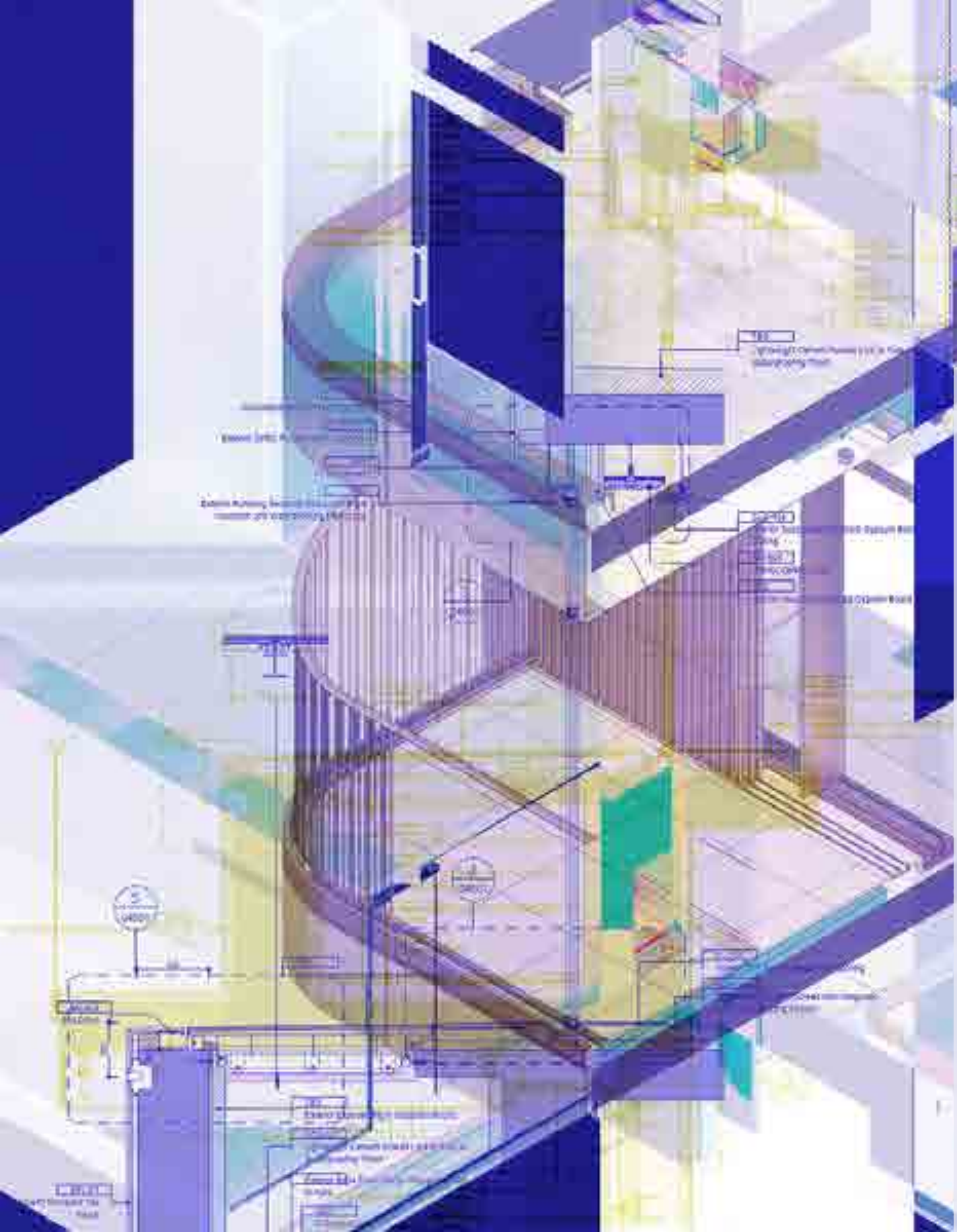


12/10/2023

The BIM Conference

PRESENTATION:

Διαδικασίες BIM για την Βελτιστοποίηση της Αρχιτεκτονικής Μελέτης Εφαρμογής

SPEAKERS:
Εμμανουήλ Μπόγρης
Αναστασία Βερτεούρη

EB/ARCHITECTS

Κύριοι Στόχοι Αρχιτεκτονικής Μελέτης Εφαρμογής

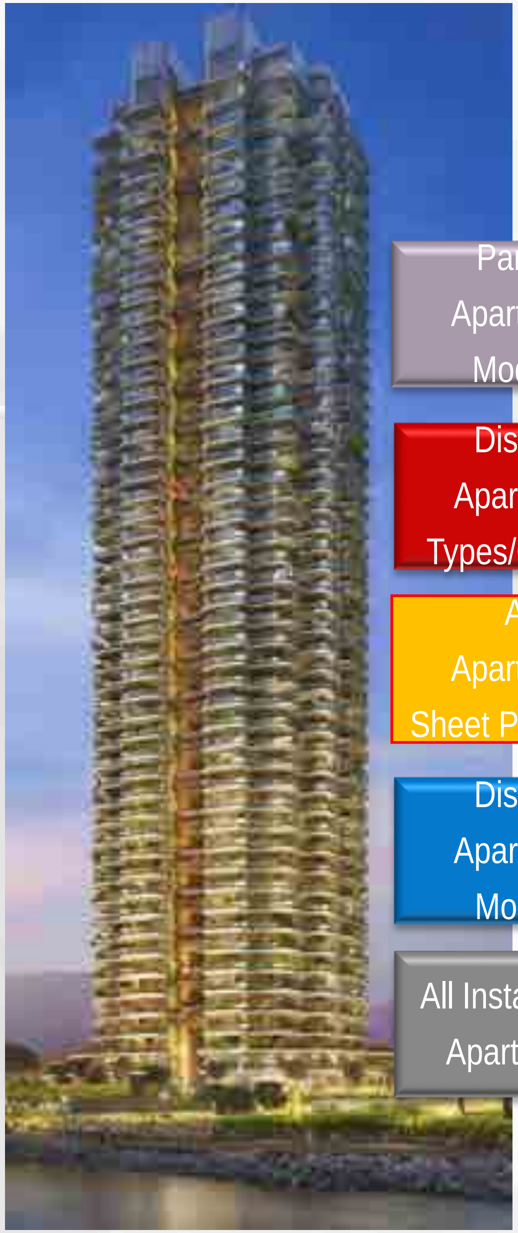
- Να διασφαλίσει την «Αρχιτεκτονική Πρόθεση» (Design Intent)
- Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο
- Να διασφαλίσει την ασφαλή Προμέτρηση & Κοστολόγηση
- Να περιορίσει την Επισφάλεια κατά την Κατασκευή

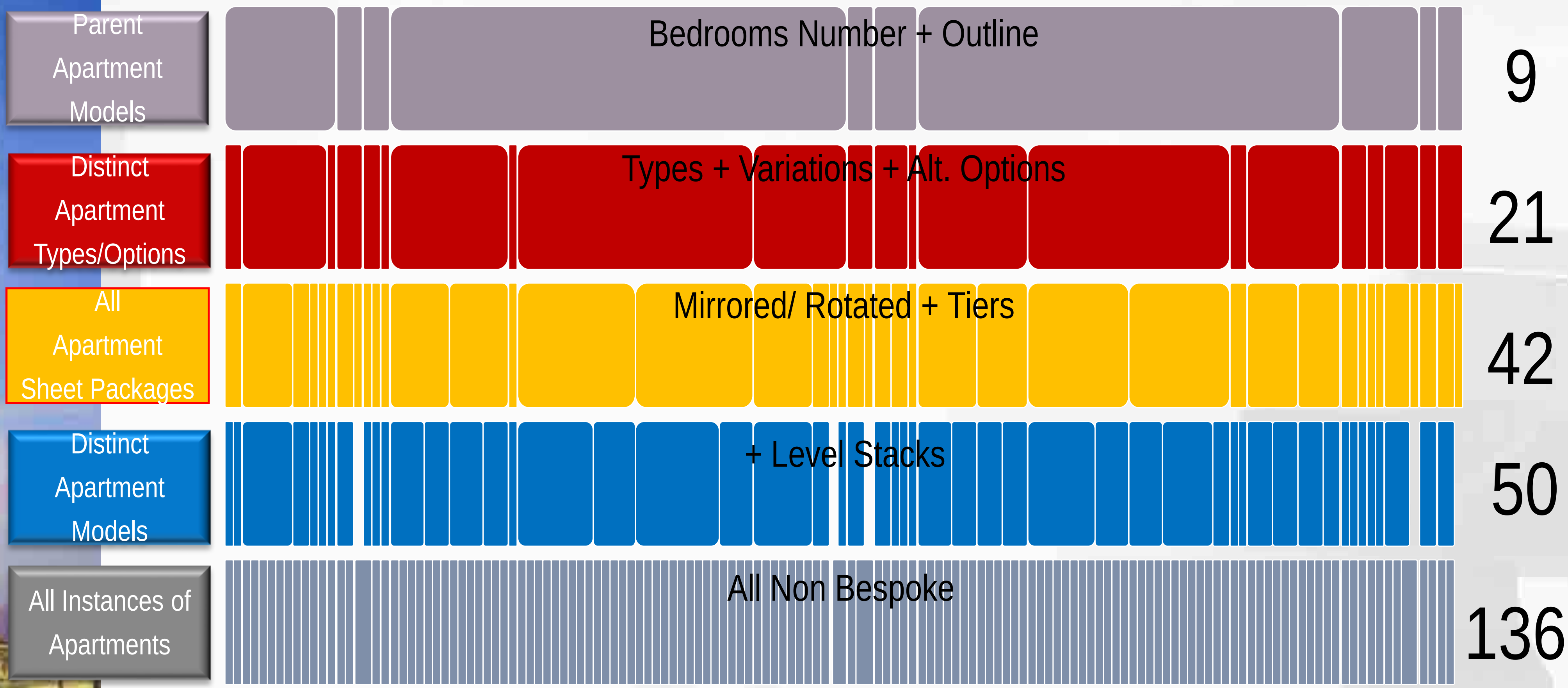



EB/ARCHITECTS




“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

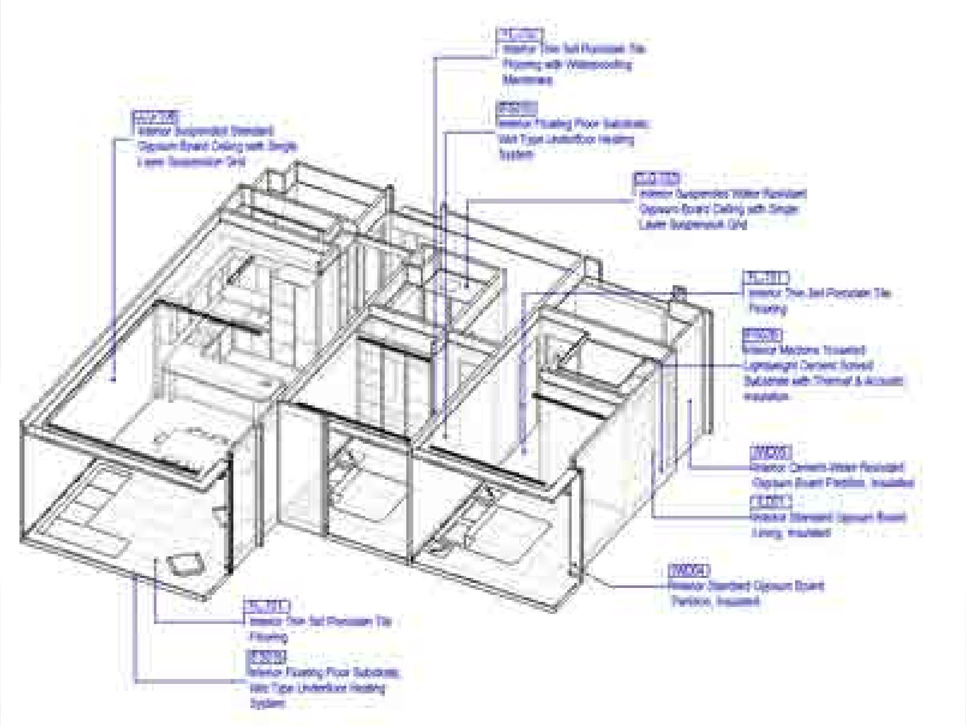


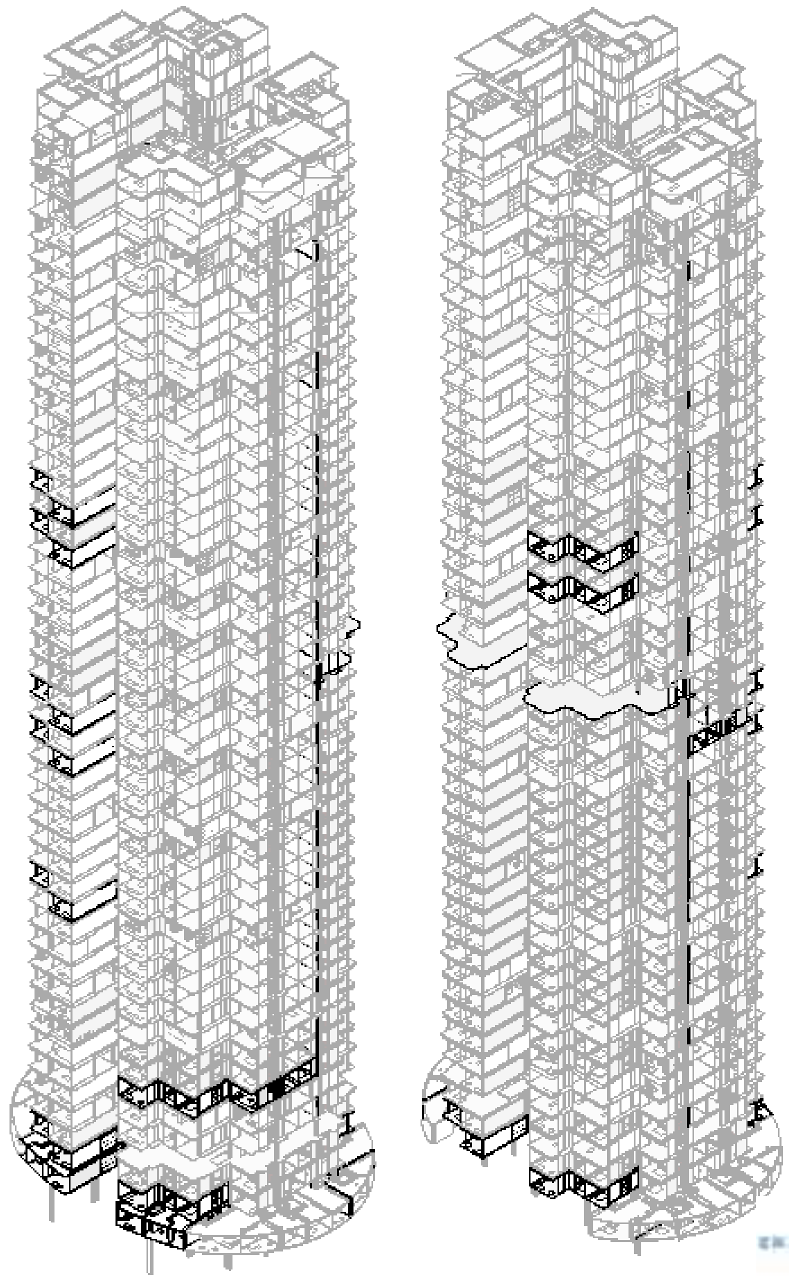


“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

2-BED TYPICAL APARTMENTS

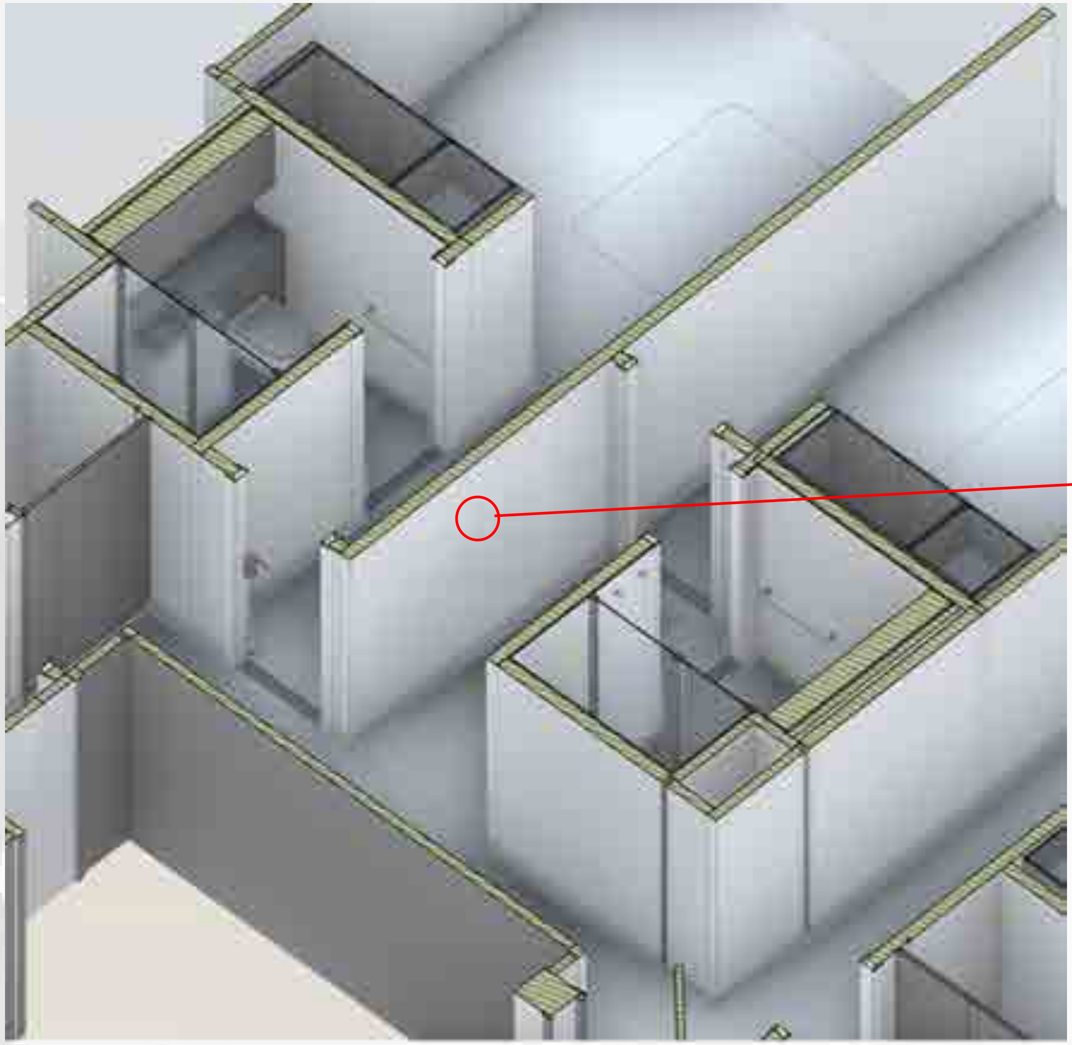
PARENT APT	VARIATION	TRANSFORM	LEVEL	LVL STACK	LINK	TIER	ORIENT.	CORE
[illegible]	Type 4	Mirrored N/S	32	L31-40	2B CR T4 Typ L31-40	1	S	A
2 Bed Corner	Type 3	Typical	33	L31-40	2B CR T3 Typ L31-40	1	N	A
2 Bed Corner	Type 3	Typical	30	L21-30	2B CR T3 Typ L21-30	1	N	A
[illegible]	Type 4	Mirrored N/S	30	L21-30	2B CR T4 Typ L21-30	1	S	A
[illegible]	Type 4	Mirrored N/S	22	L21-30	2B CR T4 Typ L21-30	1	S	A
2 Bed Middle	Type 2	Typical	22	L21-30	2B MD T2 Typ L21-30	1	W	A
[illegible]	Type 4	Mirrored N/S	20	L11-20	2B CR T4 Typ L11-20	1	S	A
[illegible]	Type 4	Mirrored N/S	13	L11-20	2B CR T4 Typ L11-20	1	S	A
2 Bed Corner	Type 4	Rotated 180o	6	L01-10	2B CR T4 Typ L01-10	1	S	B
2 Bed Middle	Type 2	Mirrored E/W	6	L01-10	2B MD T2 Typ L01-10	1	E	B
2 Bed Corner	Type 4	Typical	1	L01-10	2B CR T4 Typ L01-10	1	N	A
2 Bed Corner	Type 4	Mirrored E/W	1	L01-10	2B CR T4 Typ L01-10	1	N	B
2 Bed Corner	Type 4	Rotated 180o	1	L01-10	2B CR T4 Typ L01-10	1	S	B
2 Bed Corner	Type 4	Mirrored N/S	1	L01-10	2B CR T4 Typ L01-10	1	S	A
2 Bed Mezzanine	Type 1	Typical	[illegible]	[illegible]	2B MZ T1 Typ L00	1	S	A
2 Bed Mezzanine	Type 1	Mirrored E/W	[illegible]	[illegible]	2B MZ T1 Typ L00	1	S	B





ZR ARCHITECTS

“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”



“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

Δείκτης Πυραντοχής:
EI90

Κατασκευαστική Λογική:
Τοίχος Ξηράς Δόμησης

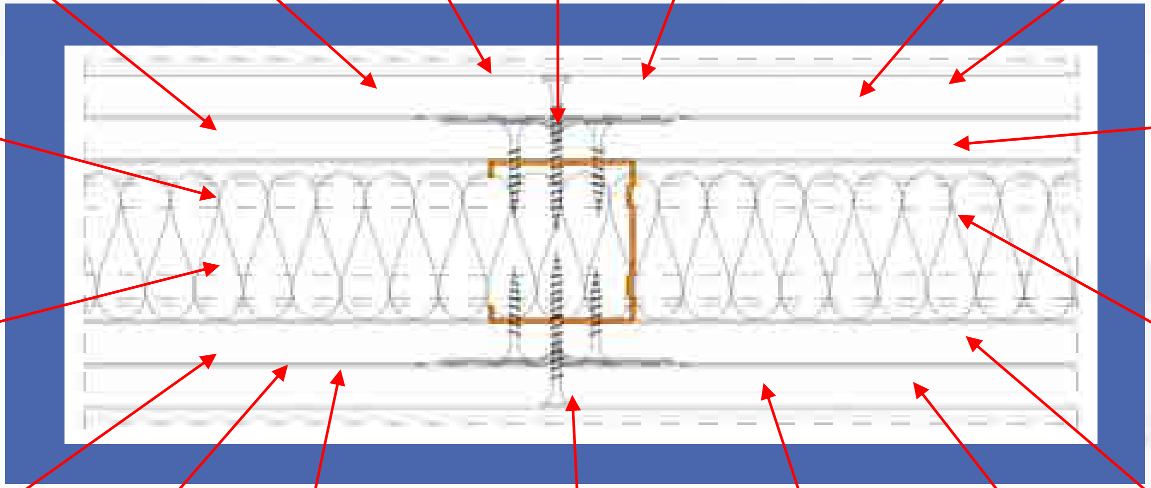
Στήριξη Βαριών Αντικειμένων:
Δεν απαιτείται

Απαίτηση Μόνωσης:
Εφαρμόζεται

Τύπος Σκελετού:
Μεταλλικός Γαλβανισμένος

Υλικό Κάλυψης:
Γυψοσανίδες

Ελάχιστο πάχος γυψοσανίδας :
12.5mm



Υλικό Μόνωσης:
Ορυκτοβάμβακας

Ελάχιστο πλήθος γυψοσανίδων ανα πλευρά:
2

U-Value:
Δεν απαιτείται

Μέγιστο Ύψος Τοιχοποίας:
3850mm

Πάχος Μόνωσης:
45mm

Ενδεικτικός Τύπος Συστήματος:
KNAUF W112

Μέγιστο Απόσταση Ορθοστατών:
400mm

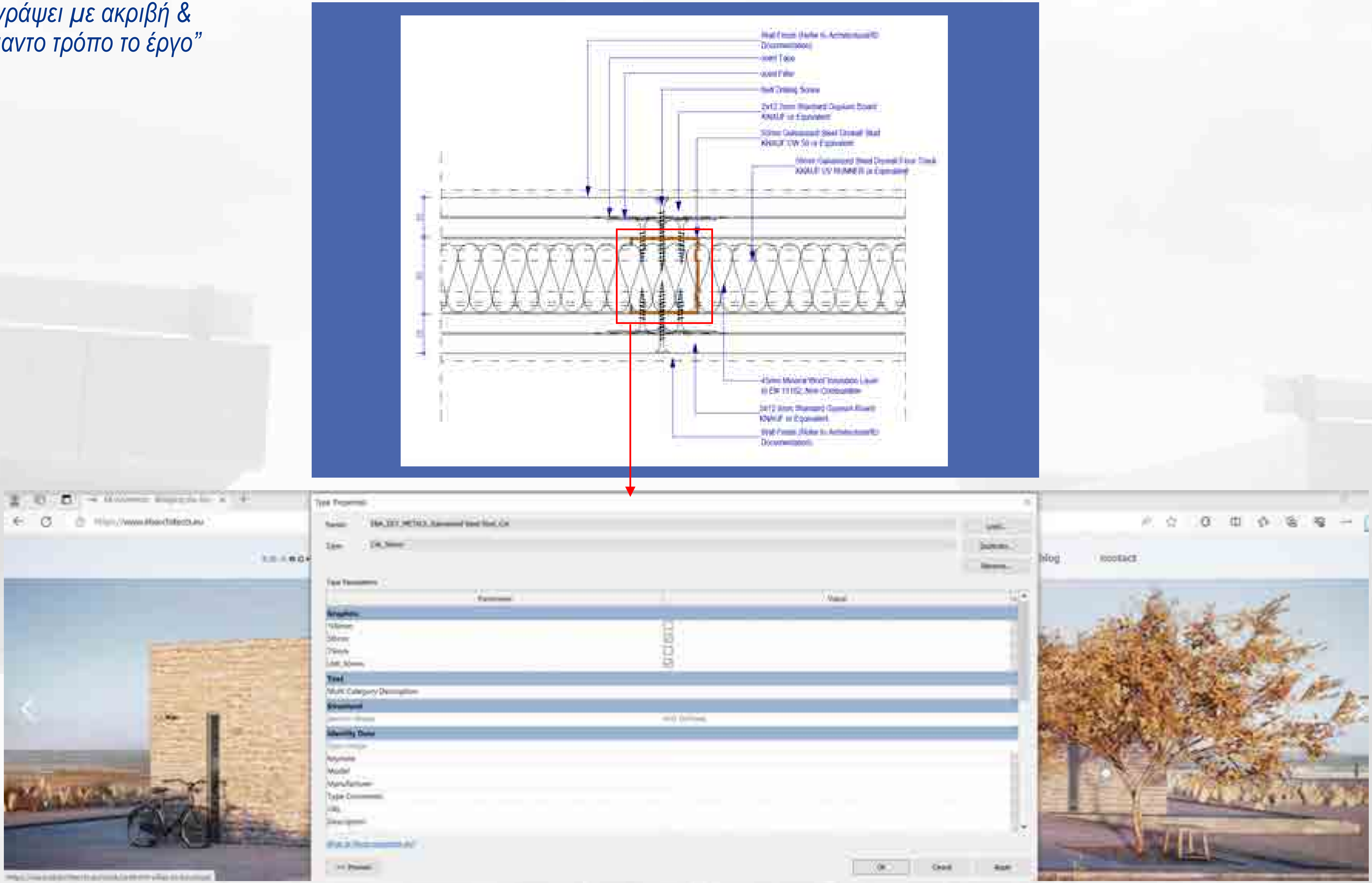
Πυκνότητα Μόνωσης:
22Kgr/m3

Δείκτης Διόρθωσης (Ctr):
9db

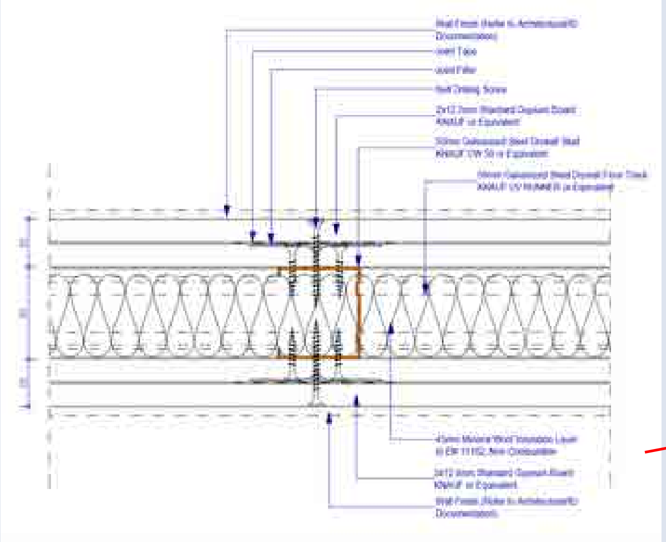
Απαιτούμενη Ηχομείωση:
45db

Ανθυγρότητα:
Δεν απαιτείται

“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”



“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”



Material: Name	Material: EBA_MAT_Description_ENG
EBA_LOD 350_BOARDINGS & SHEATHINGS_Bitumen Impregnated Fibreboard	Bitumen Impregnated Fibreboard, Expansion Joint Filler in Sheet Form
EBA_LOD 350_BOARDINGS & SHEATHINGS_Cement Board Standard	Standard Cement Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Diamant	Diamant Standard Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Diamant-Mounted inside the Galvanized Frame	Diamant Standard Gypsum Board (mounted inside the frame)
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Fire Rated	Fire Rated Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Fire Rated & Water Resistant	Fire Rated & Water Resistant Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Perforated	Perforated Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Standard	Standard Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Ultraboard	Ultraboard Standard Gypsum Board
EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Water Resistant	Water Resistant Gypsum Board

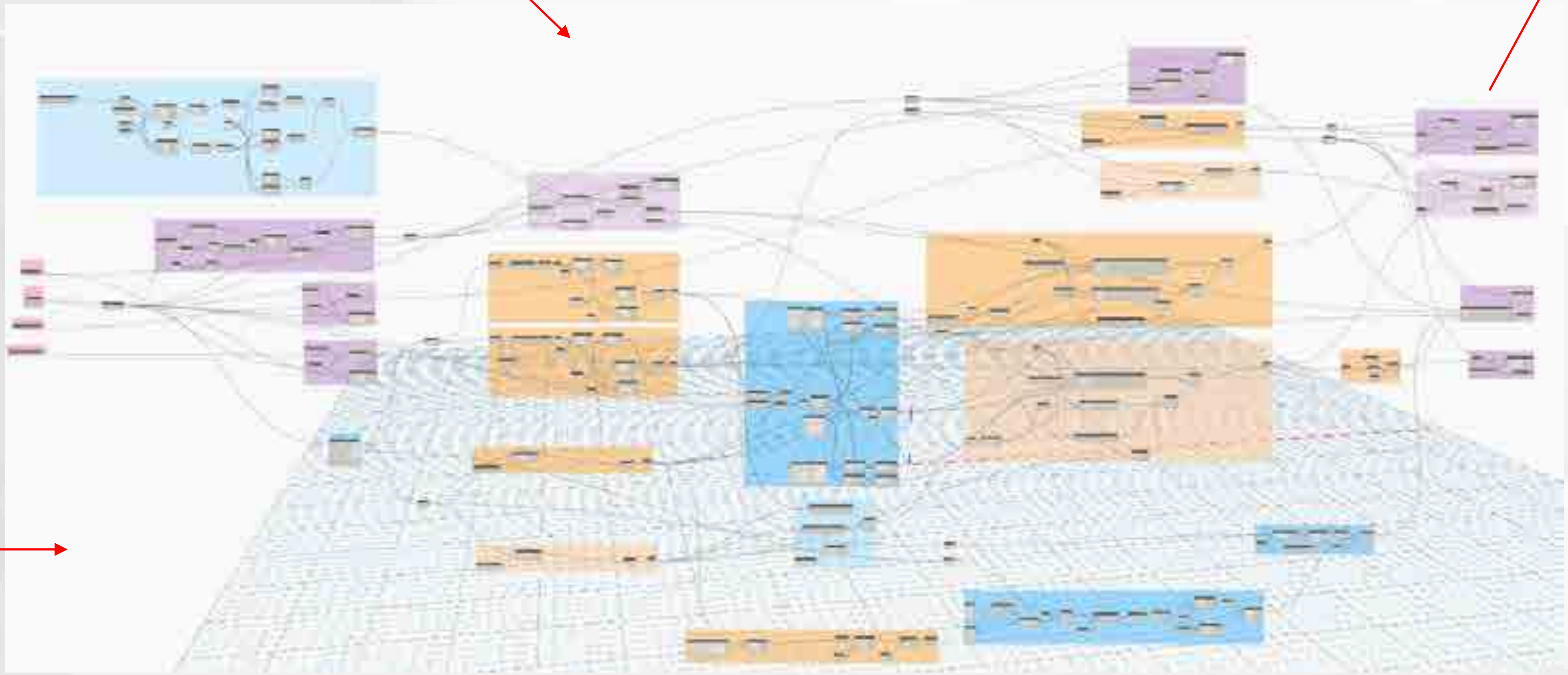
Family: Basic Wall
Type: IWDXX_Interior Standard Gypsum Board Partition, Insulated, GSGS/GSGS-100mm
Total thickness: 0.1000
Resistance (R): 0.0769 (m²·K)/W
Thermal Mass: 4.29 kJ/K

Layers

EXTERIOR SIDE

	Function	Material	Thickness
1	Substrate [2]	EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Standard	0.0125
2	Substrate [2]	EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Standard	0.0125
3	**Core Boundary**	**Layers Above Wrap**	**0.0000**
4	Structure [1]	EBA_LOD 300/350_METALS_Galvanized Drywall Stud with Mineral Wool Insulation	0.0500
5	**Core Boundary**	**Layers Below Wrap**	**0.0000**
6	Substrate [2]	EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Standard	0.0125
7	Substrate [2]	EBA_LOD 350_BOARDINGS & SHEATHINGS_Gypsum Board Standard	0.0125

“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”



IWDXX

Interior Standard Gypsum Board Partition, Insulated, 100mm Thickness, Consisting of the following Layers [12.5mm Standard Gypsum Board, 12.5mm Standard Gypsum Board, 50mm Galvanized Cold-Formed Steel Stud with Cavity Mineral Wool Insulation Batt, Thickness & Density to Suit Specifications, 12.5mm Standard Gypsum Board, 12.5mm Standard Gypsum Board]

CSI Master Classification No & Description
09 21 16 / Gypsum Board Assemblies

NRM2 Classification No & Description
2.7 / internal walls and partitions

Stud Spacing (mm) / Maximum Partition Height (m)
625 / 3.20 , 625 / 3.20 , 417 / 3.88

Fire Resistance Class
-

Weighted Sound Reduction Index (R_{w})
TBD

Correction Factor (Ctr)
TBD

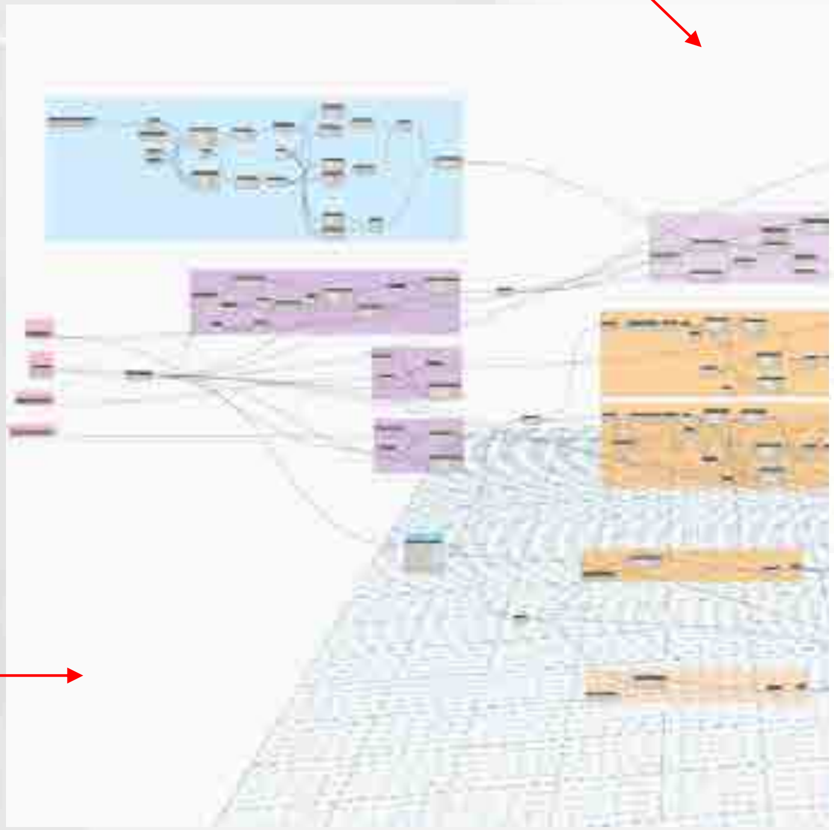
Insulation Type
Mineral Wool

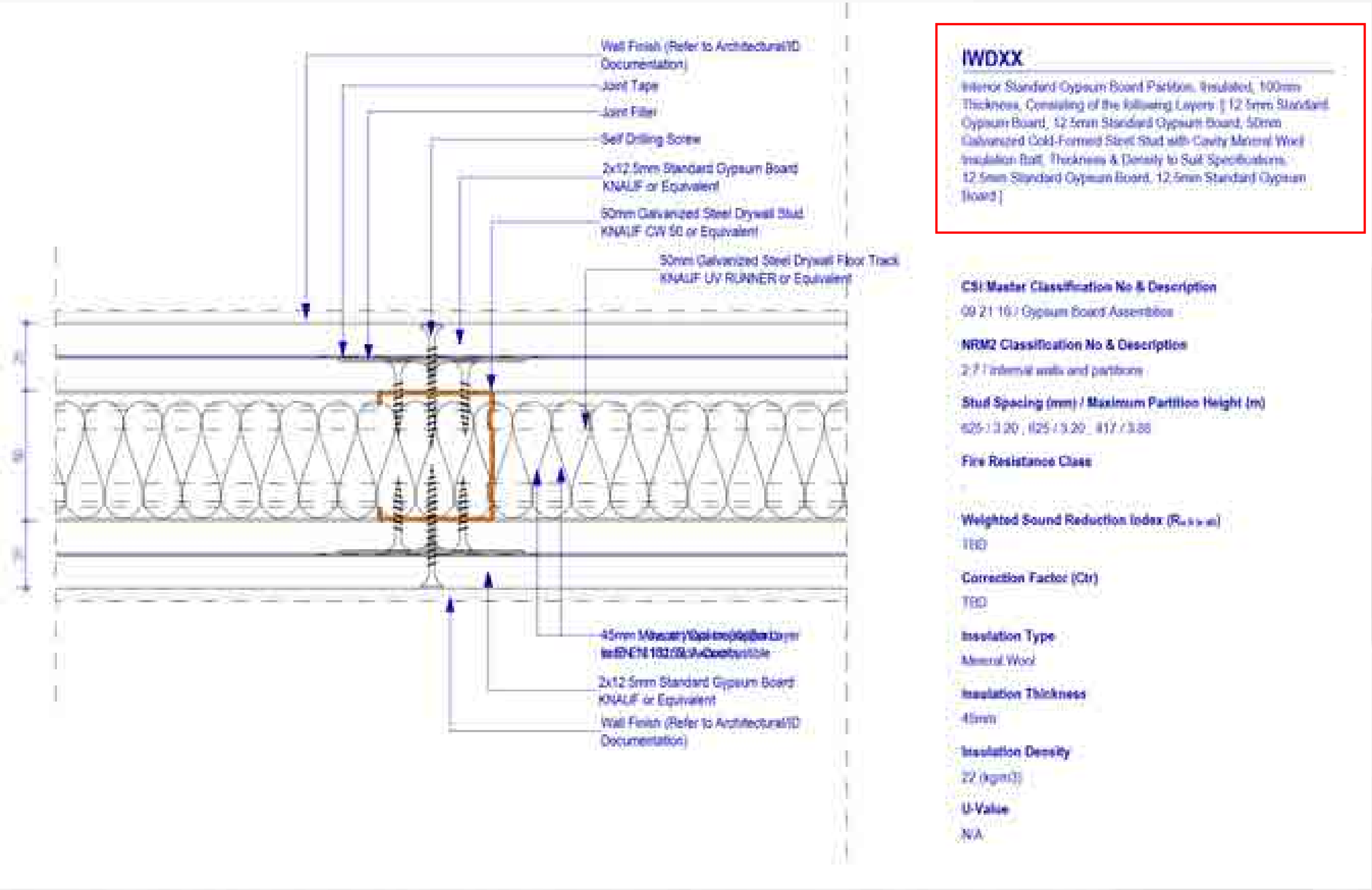
Insulation Thickness
45mm

Insulation Density
27 (kg/m3)

U-Value
N/A

“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

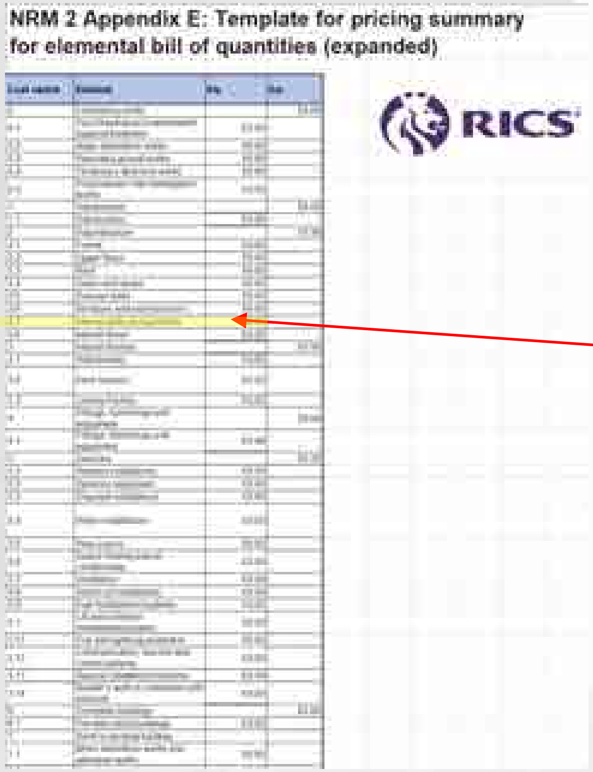


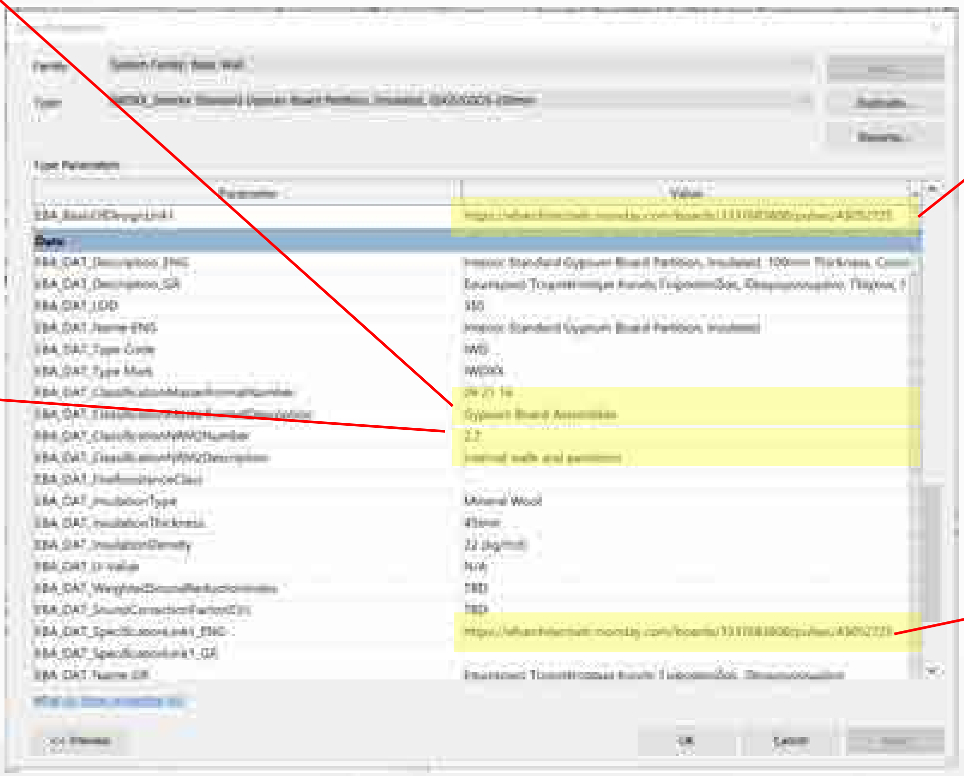


“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

09 20 00 Plaster and Gypsum Board

09 21 00 Plaster and Gypsum Board Assemblies





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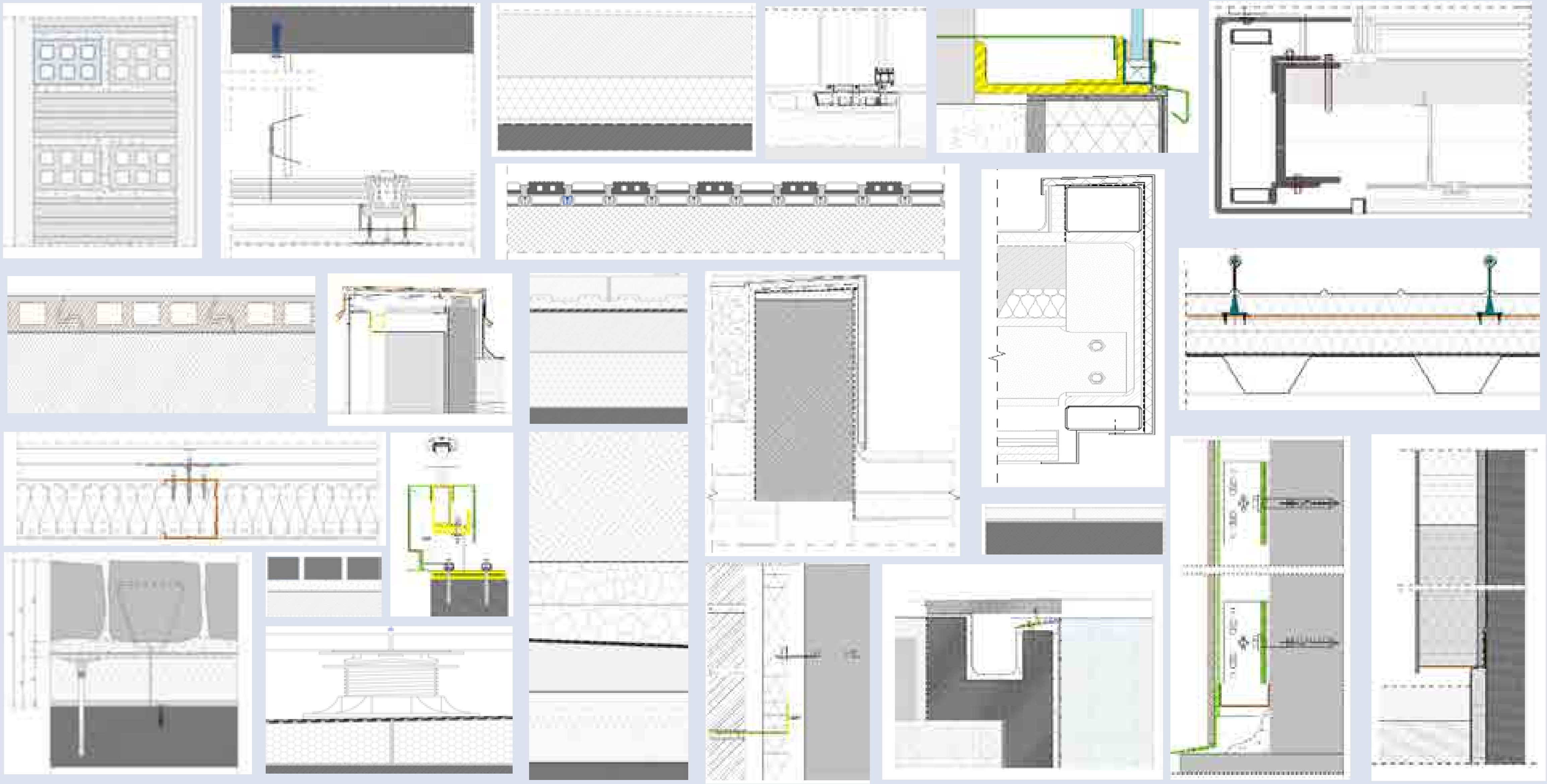
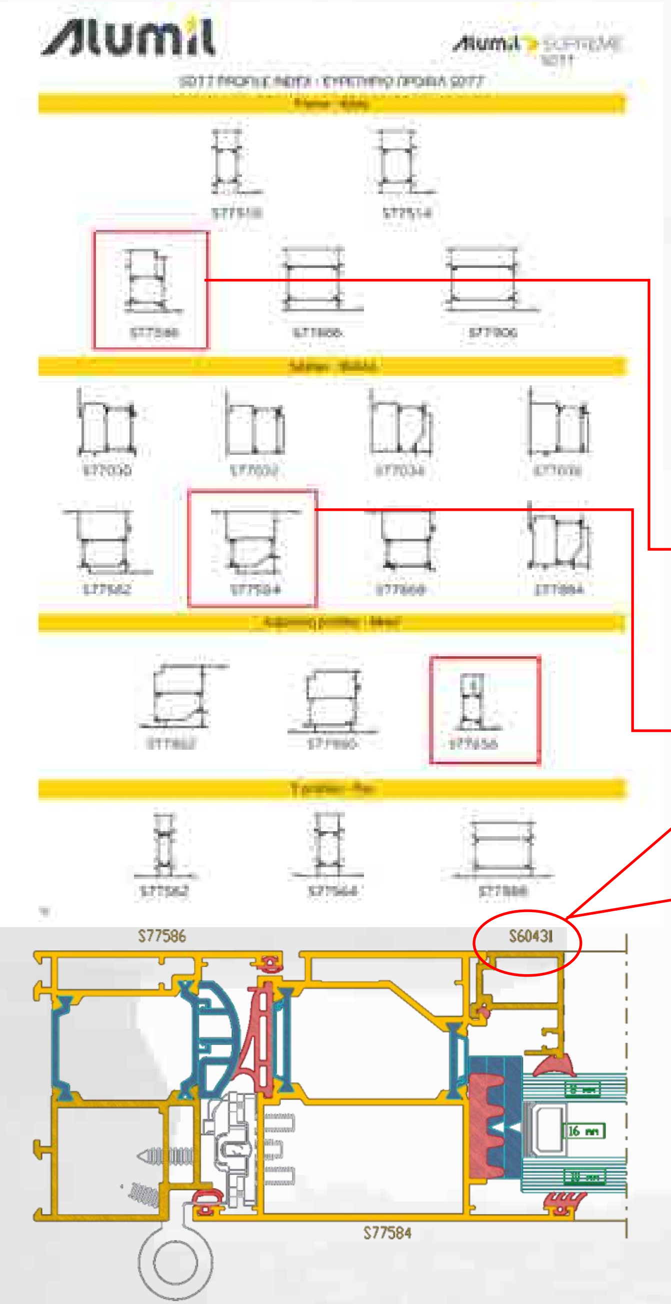
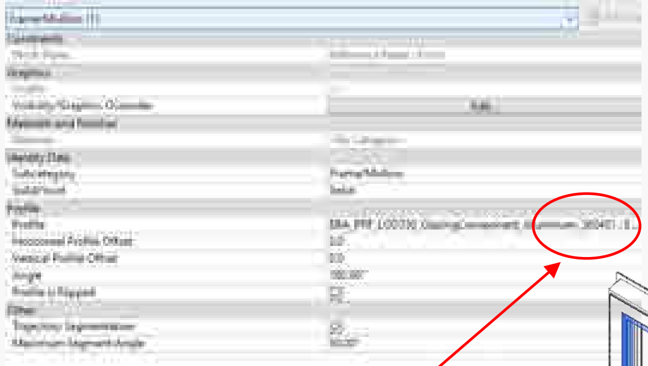
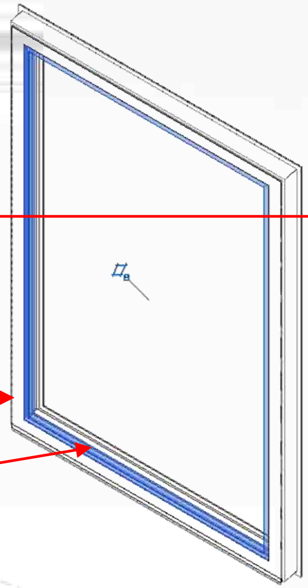


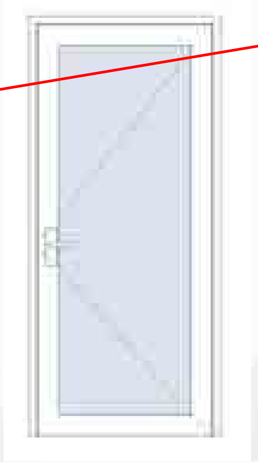
“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

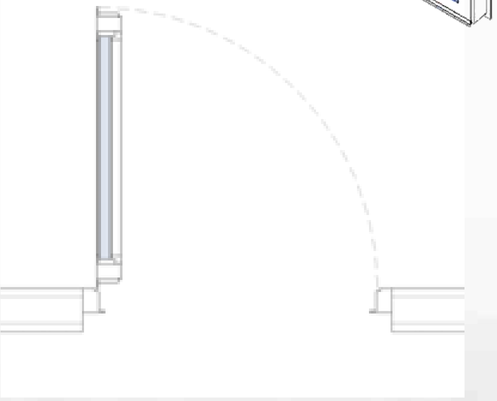
Based on Basis of Design Specifications



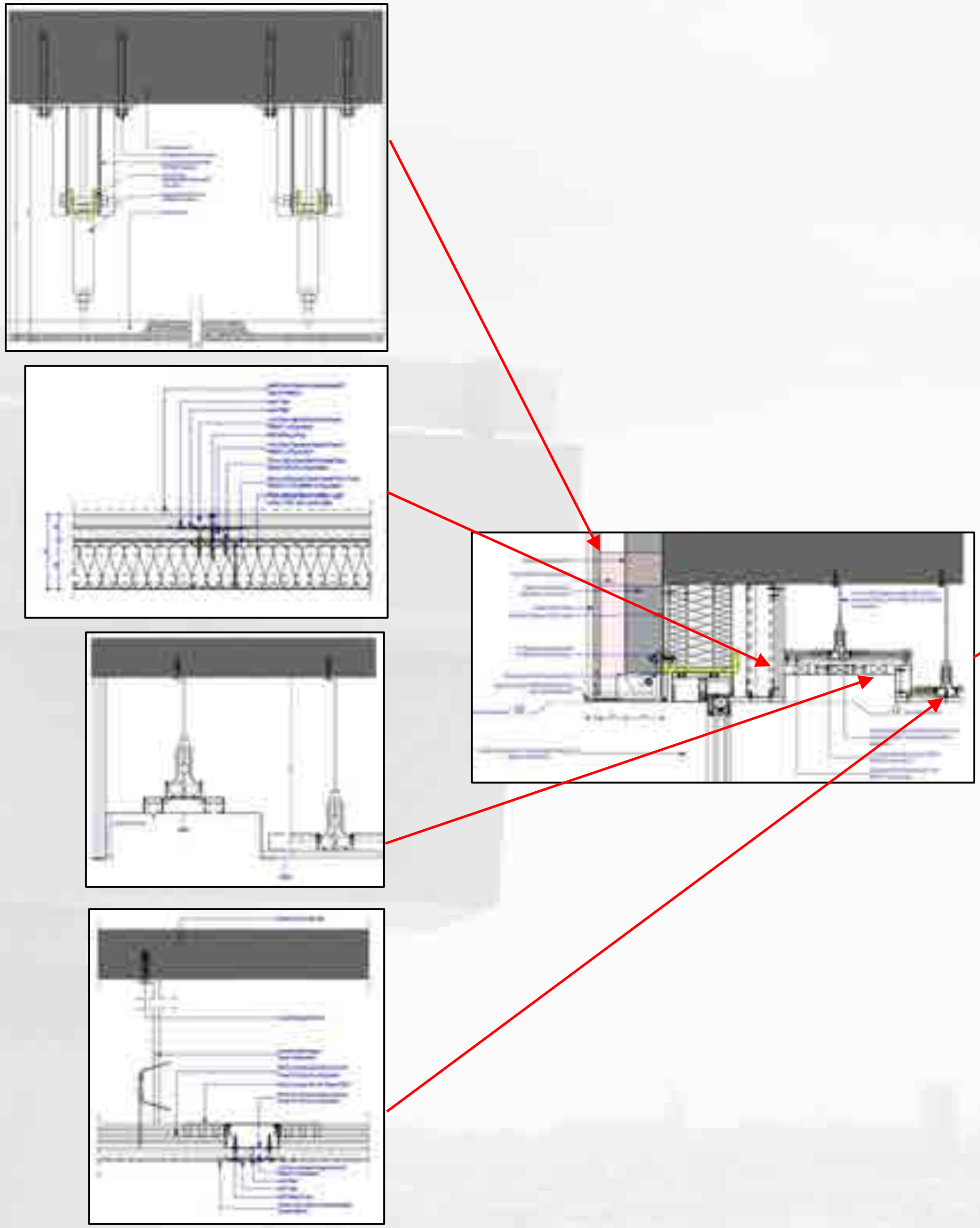


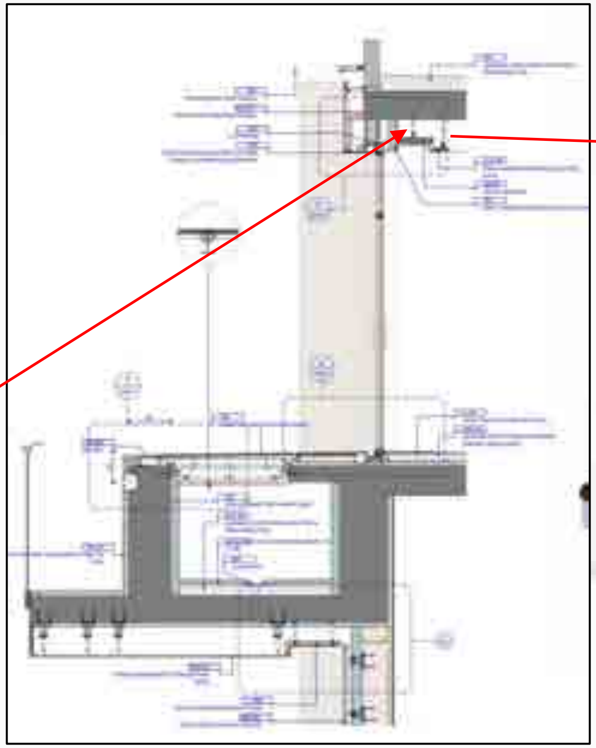


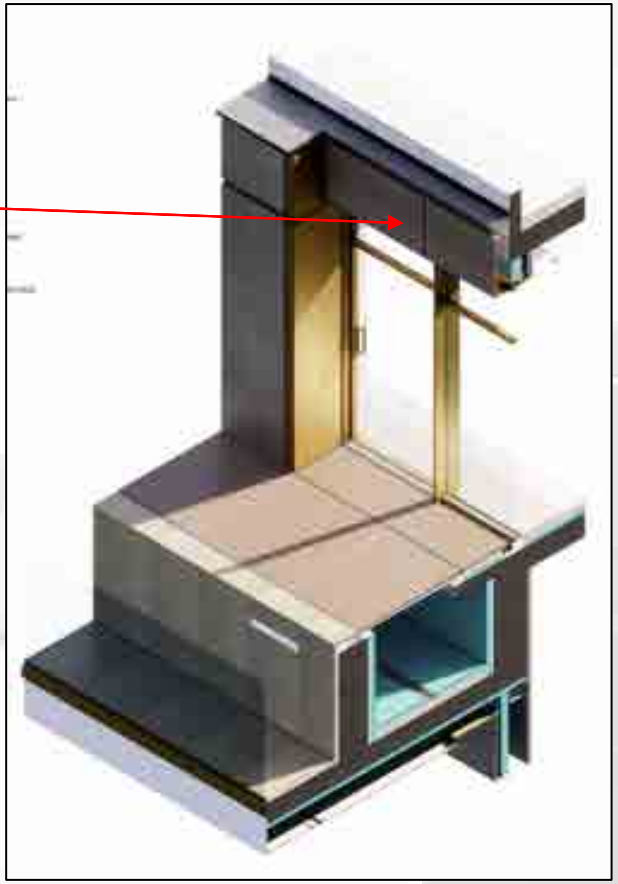




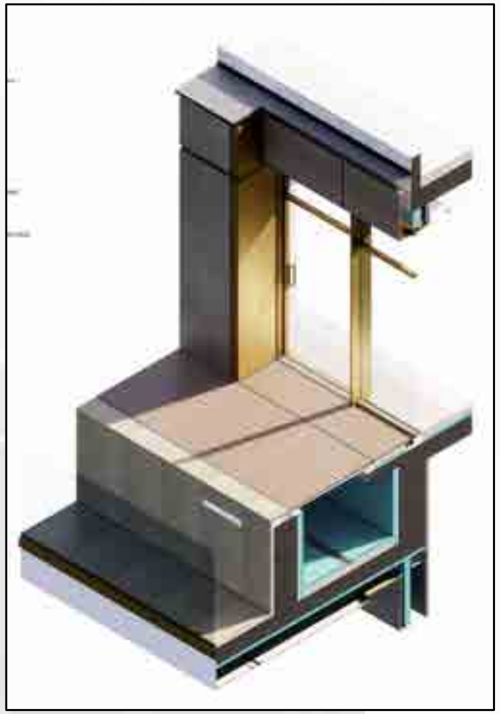
“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”

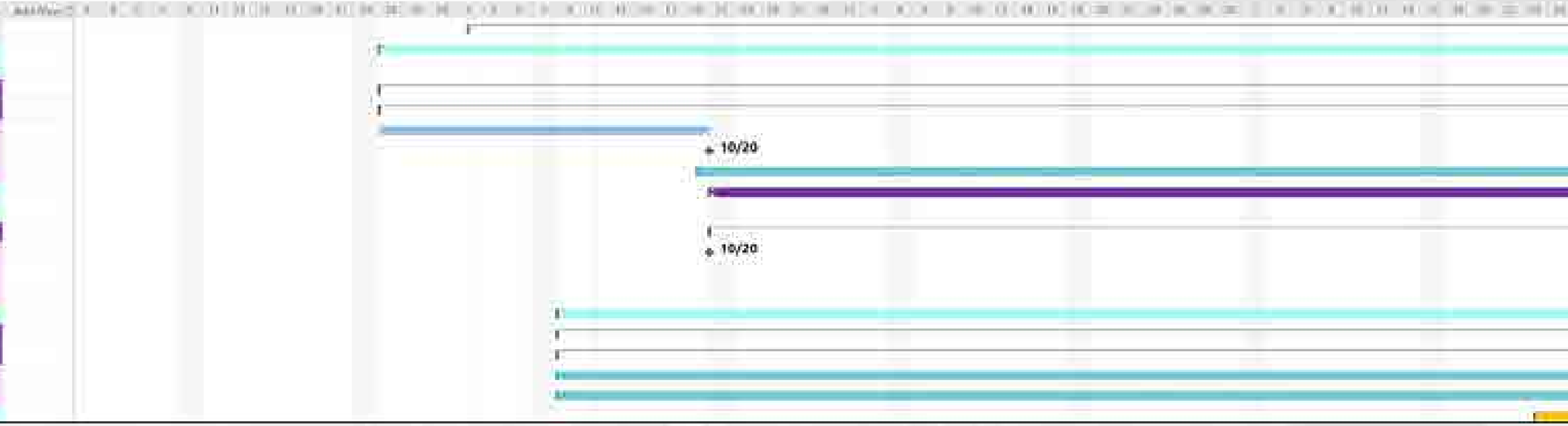






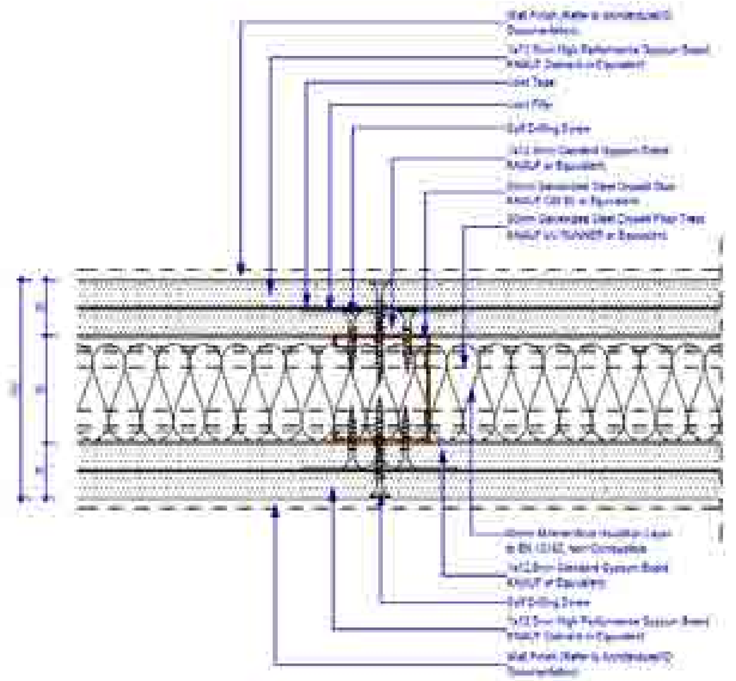
“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”





WBS	Task Name	Duration	Start	Finish
1	202309_ASTERAS_EBA_CD_DESIGN	119 days	Mon 10/2/23	Thu 3/14/24
1.1	GTSK_1_OFFER & CONTRACT ADMINISTRATION	126 days	Mon 9/25/23	Thu 3/14/24
1	General Tasks	126 days	Mon 9/25/23	Thu 3/14/24
1.1	Offer & Contract Administration	126 days	Mon 9/25/23	Thu 3/14/24
1.1.1	Offer Preparation& Managemen	20 days	Mon 9/25/23	Fri 10/20/23
1.1.2	Contract Sign Off	0 days	Fri 10/20/23	Fri 10/20/23
1.1.3	Contract Management	105 days	Fri 10/20/23	Thu 3/14/24
1.2	GTSK_2_FINANCIAL MANAGEMENT	85 days	Fri 10/20/23	Fri 2/16/24
1	Financial Management	85 days	Fri 10/20/23	Fri 2/16/24
1.1	Advanced Payment	0 days	Fri 10/20/23	Fri 10/20/23
1.2	Interim Payment 1	0 days	Fri 12/29/23	Fri 12/29/23
1.3	Final Payment	0 days	Fri 2/16/24	Fri 2/16/24
1.3	GTSK_3_DESIGN COORDINATION	95 days	Mon 10/9/23	Fri 2/16/24
1	Coordination	95 days	Mon 10/9/23	Fri 2/16/24
1.1	Design Coordination	95 days	Mon 10/9/23	Fri 2/16/24
1.1.1	Architectural Design Coordinati	95 days	Mon 10/9/23	Fri 2/16/24
1.1.2	Interdisciplinary Design (Coor	95 days	Mon 10/9/23	Fri 2/16/24
1.4	GTSK_3_QA-QC	40 days	Mon 12/25/23	Fri 2/16/24

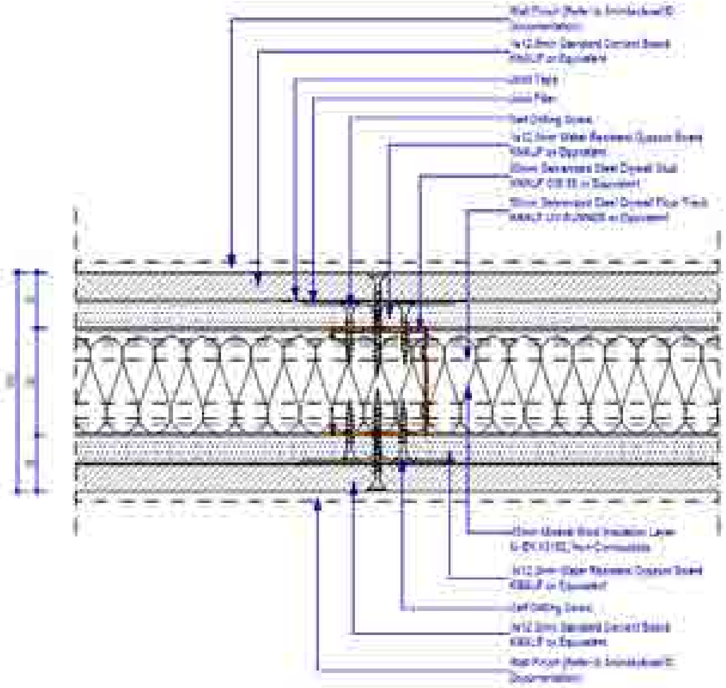
“Να περιγράψει με ακριβή & μονοσήμαντο τρόπο το έργο”



IWD01

1 IWD01: Interior High-Performance Gypsum Board Partition, Insulated-100mm

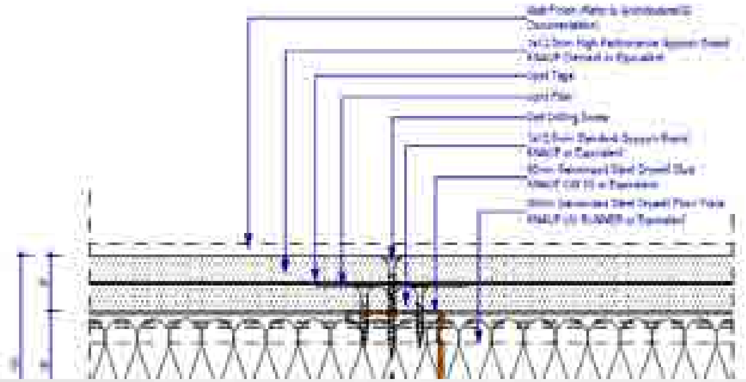
1 : 2



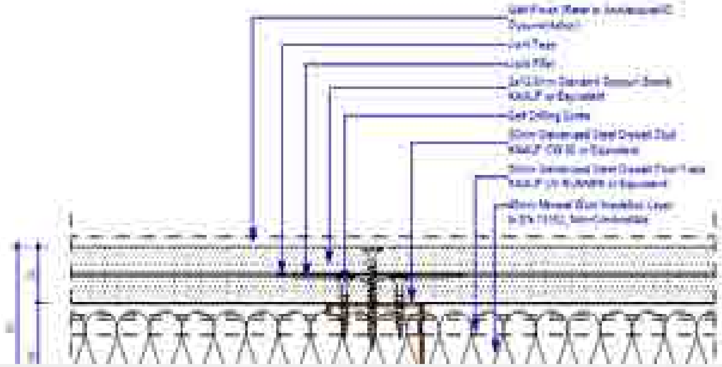
IWD02

2 IWD02: Interior Cement-Water Resistant Gypsum Board Partition, Insulated-100mm

1 : 2

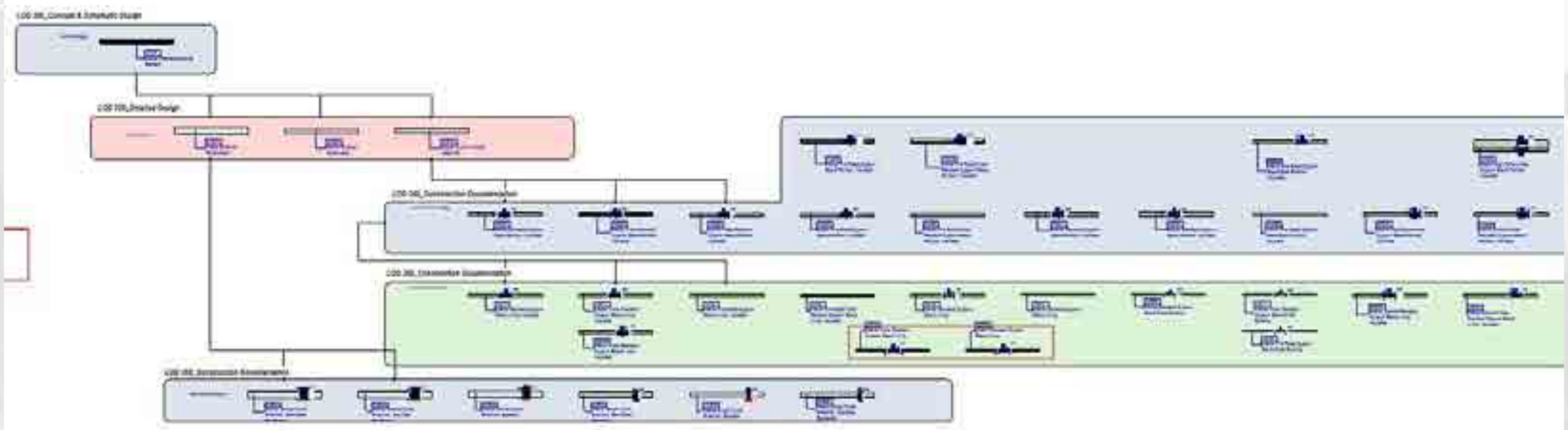


IWD03

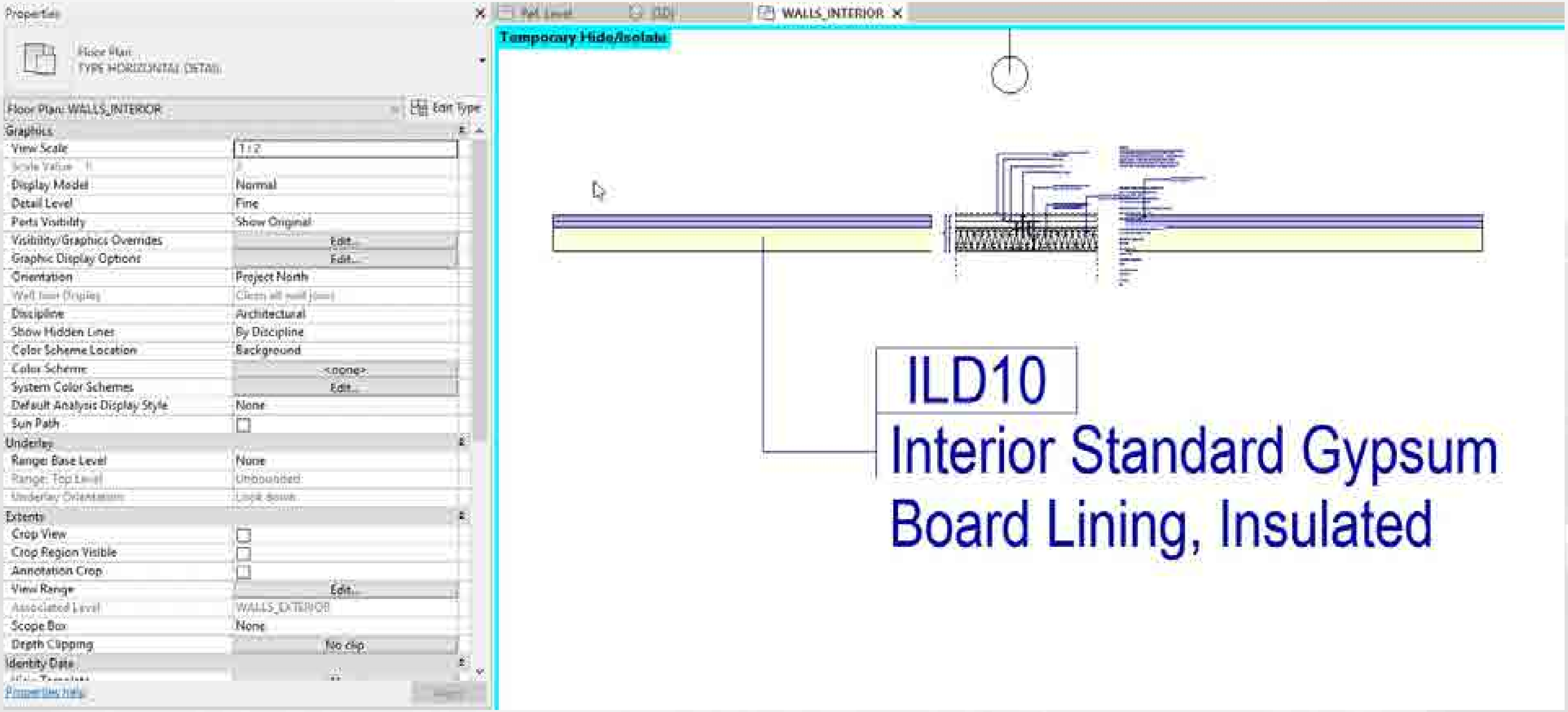


IWD04

Typology Database in Revit, containing System Families and Details



Data Rich Models
For Construction Documentation



EBA_SYSTEM TYPOLOGIES
FILTERING

Clear all slicers

Type Data

Type Name	
MasterFormat	
MasterFormat Number	
Type Code	
Type Mark	
Description_ENG	
Description_GR	

Categories

- Ceilings
- Floors
- Roofs
- Walls

Search for Specific Term

Search

Filter by Parameter

None

-

Thickness

All

Fire Resistance Class

All

Categorization

- Exterior
  - Ceilings
    - Exterior Ceilings
  - Floors
    - Exterior Floor Finishes
    - Exterior Floor Substrates
  - Roof Systems
    - Roof Systems
  - Walls
    - Exterior Insulated Facade Systems
    - Exterior Lining Drywalls
    - Exterior Walls Blockwork
- Interior
  - Ceilings
    - Interior Ceilings
  - Floors
    - Interior Floor Finishes
    - Interior Floor Underlayments/Substrates
  - Walls
    - Interior Lining Drywalls
    - Interior Walls Blockwork
    - Interior Walls Drywalls
    - Interior Walls Shaft

Type Code

- EC
  - EC01_Exterior Suspended Standard Cement Board Ceiling with Double-layer Suspension Grid, /-80mm
  - EC02_Exterior Suspended Standard Cement Board Ceiling with Single-layer Suspension Grid, /-42.5mm
  - INSUL 1x
  - INSUL 2x LAYER
- EFF
  - EFF01_Exterior Granite Cobblestone Flooring-90mm, 100x100x60mm
  - EFF02_Exterior Natural Stone Tile Flooring-75mm, 600x300x40mm
  - EFF03_Exterior Natural Stone Tile Flooring-65mm, 600x300x30mm
  - EFF04_Exterior Natural Stone Tile Flooring-55mm, 600x300x20mm
  - EFF05_Exterior Composite Wood Plank Deck Flooring-25mm, Plank Width=130mm - Plank Length=1800mm
  - EFF06_Exterior Raised Porcelain Tiles on Adjustable Pedestals-20mm, 300x300mm
  - EFF07_Exterior Raised Natural Limestone Tiles on Adjustable Pedestals-20mm, 600x300mm
  - EFF08_Exterior Raised Composite Wood Plank Deck Flooring on Adjustable Pedestals-25mm, Plank Width=130mm - Pla Length=1800mm
  - EFF09_Exterior 2nd Phase Concrete Surface Treatment Finish Flooring-150mm
  - EFF10_Exterior Marble Tile Flooring-50mm, Broomed/ 600x300mm
  - EFF11_Exterior Precast Cement Paving Tile Flooring-50mm
  - EFF12_Exterior Precast Cement Paving Tile Flooring-100mm
  - EFF13_Exterior Tactile Paving for the Visually Impaired-50mm, 400x400mm/ Type D
  - EFF14_Exterior Tactile Paving for the Visually Impaired-100mm, 400x400mm/ Type D/ Patterned
  - EFF15_Exterior Tactile Paving for the Visually Impaired-50mm, 400x400mm/ Type C
  - EFF16_Exterior Tactile Paving for the Visually Impaired-100mm, 400x400mm/ Type C/ Patterned
  - EFF17_Exterior Tactile Paving for the Visually Impaired-50mm, 300x400mm/ Type B
  - EFF18_Exterior Tactile Paving for the Visually Impaired-100mm, 300x400mm/ Type B/ Patterned

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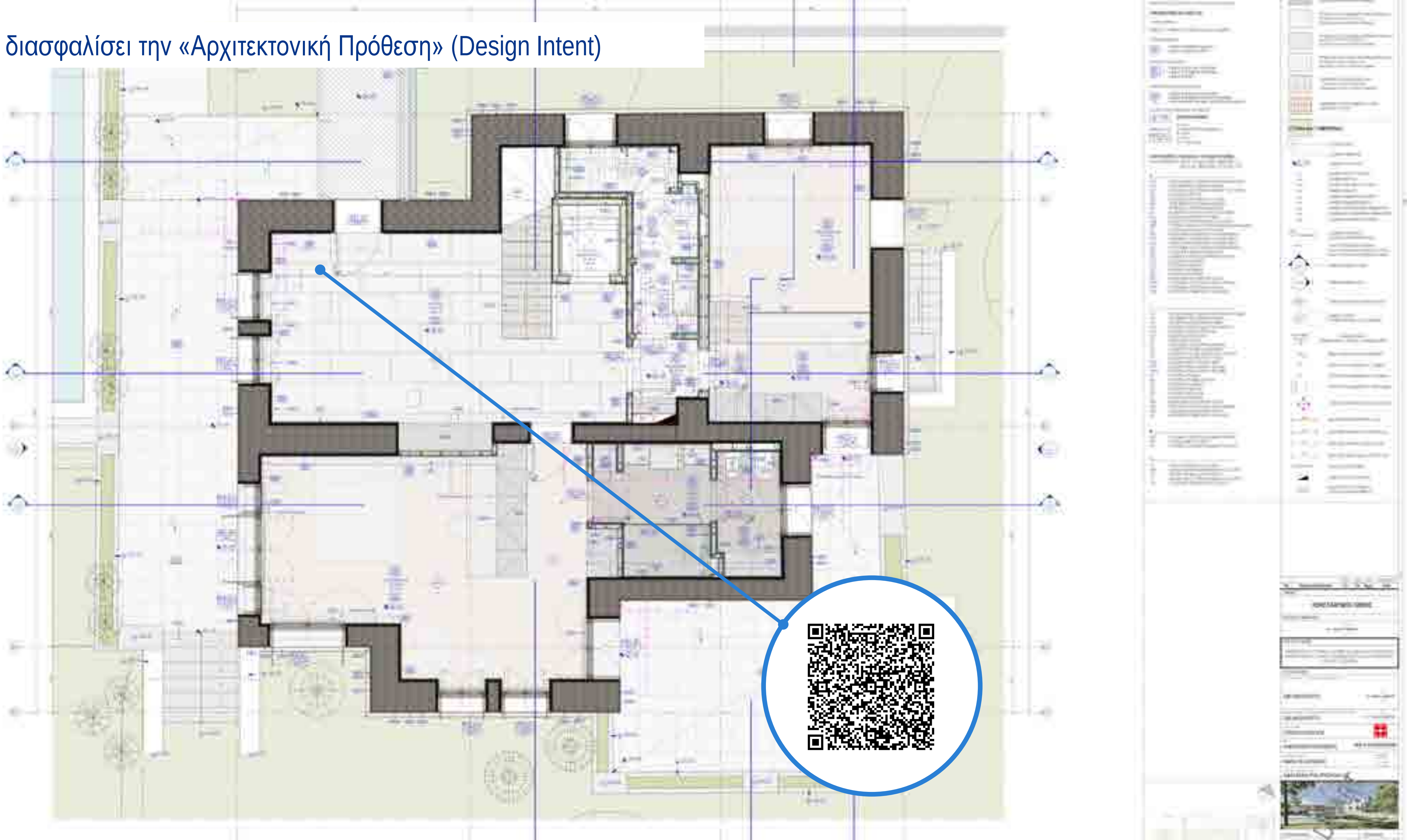
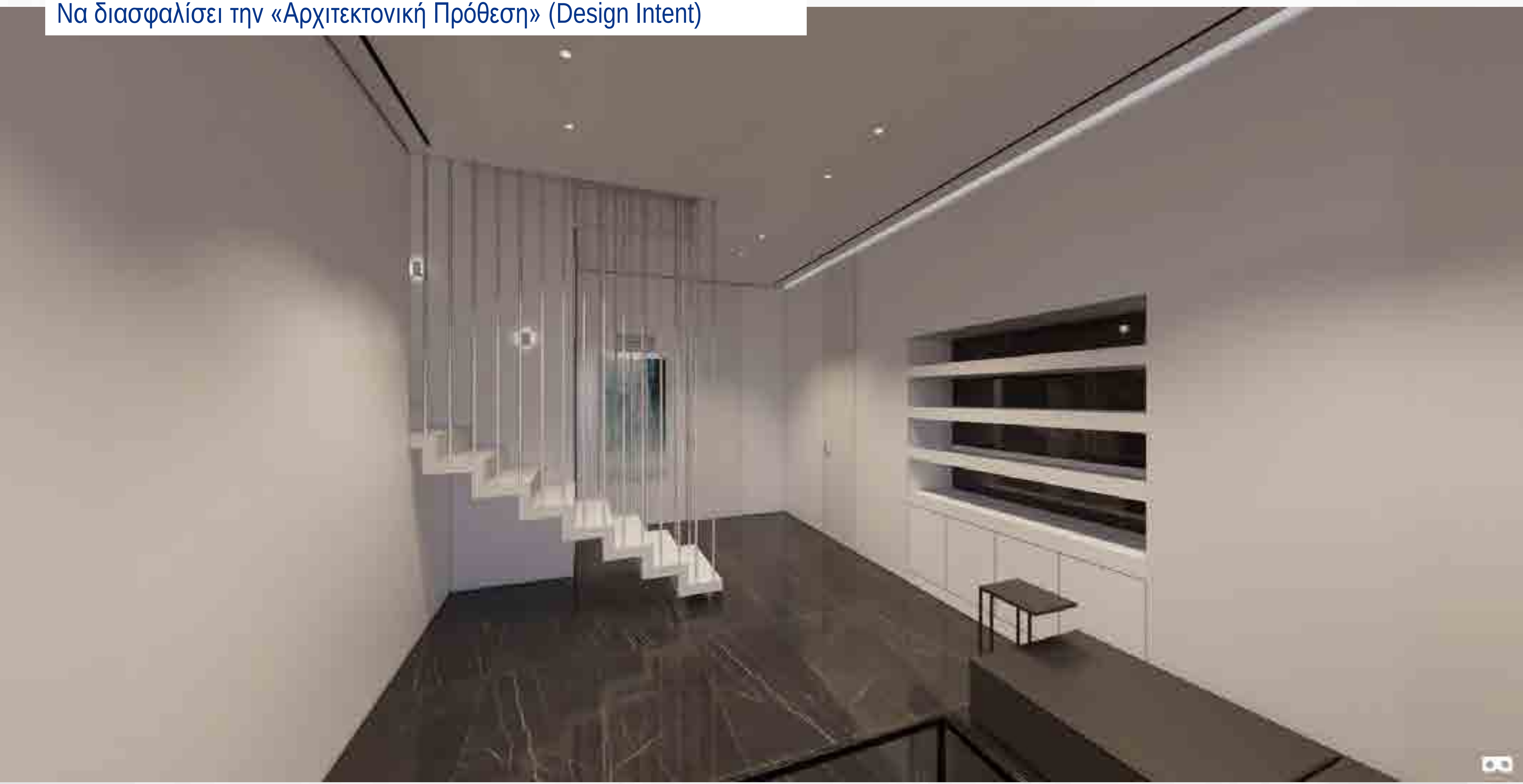
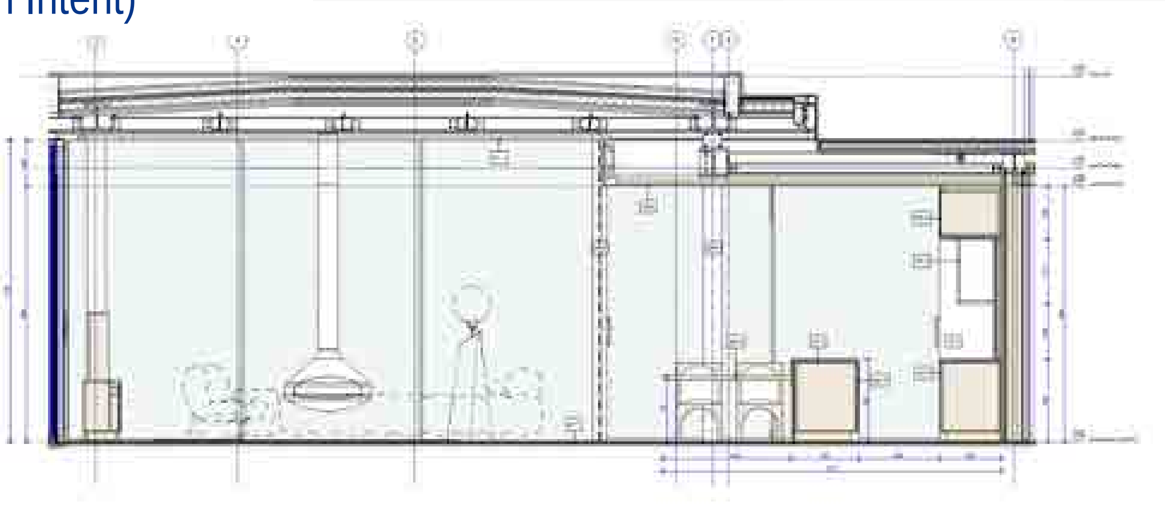
Να διασφαλίσει την «Αρχιτεκτονική Πρόθεση» (Design Intent)



Να διασφαλίσει την «Αρχιτεκτονική Πρόθεση» (Design Intent)



Να διασφαλίσει την «Αρχιτεκτονική Πρόθεση» (Design Intent)



Να διασφαλίσει την «Αρχιτεκτονική Πρόθεση» (Design Intent)

EB/ARCHITECTS

“Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

MEP

22618

Clashes

STR

5960

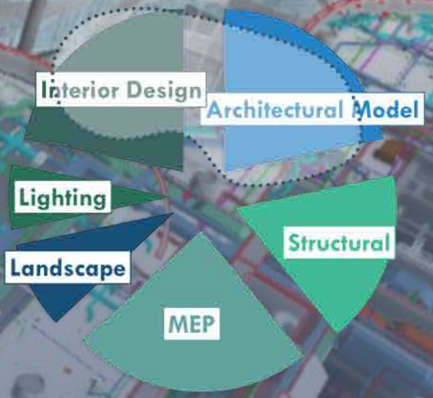
Clashes

MEP

18079

Clashes

ID



MEP vs MEP

MEP vs STRUCTURE

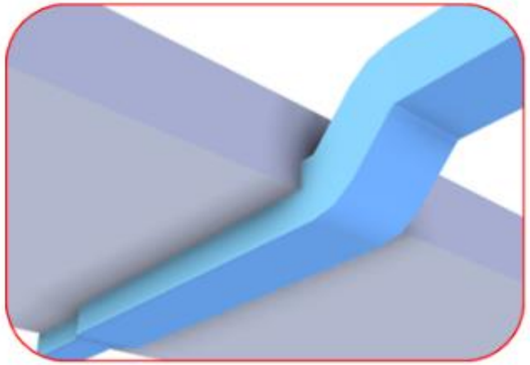
MEP vs ARCHITECTURAL/INTERIOR DESIGN ELEMENTS

*As per Date: 08/02/2019

EB/ARCHITECTS

“Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

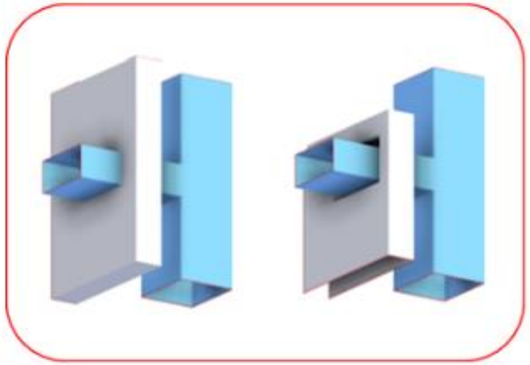
Category A



Example: Duct vs Concrete Beam

Clashes that require that one of the interfering elements has to be re-located in order for the Clash to be resolved. If not resolved they will have an impact in construction, therefore they are deemed as “Critical”.

Category B

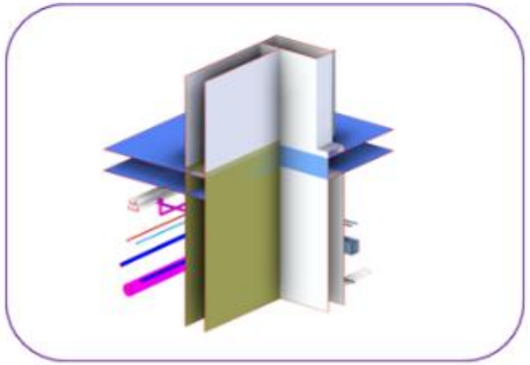


Example: Duct vs Structural Wall

Clashes that need to be resolved, but not necessarily require the relocation or re-routing of an element but a modification of the elements involved such as an opening to a structural wall. Also “Critical”.

CRITICAL

Category C



Example: Wall vs Slab

Modeling mistakes, are classified as “non-Critical”. These Clashes will have to be resolved because they affect the quality and integrity of the Models. Also in this Category:

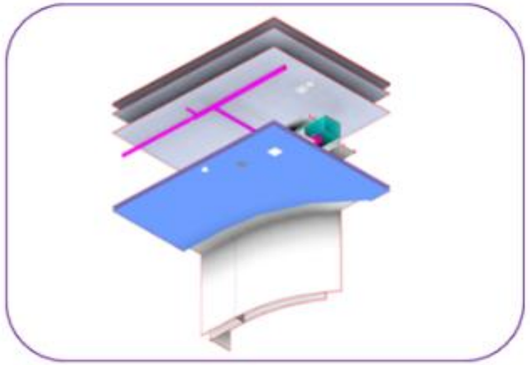
-Clashes of STR & MEP Elements with "soft" Architectural Elements, such as a Gypsum Board Assembly.

-Clashes of minor, "isolated' elements, obviously not critically affecting construction.

-Douplicate Elements.

-Clashes that affect Quantities.

Category D



Example: Lighting Fixtures vs Ceiling

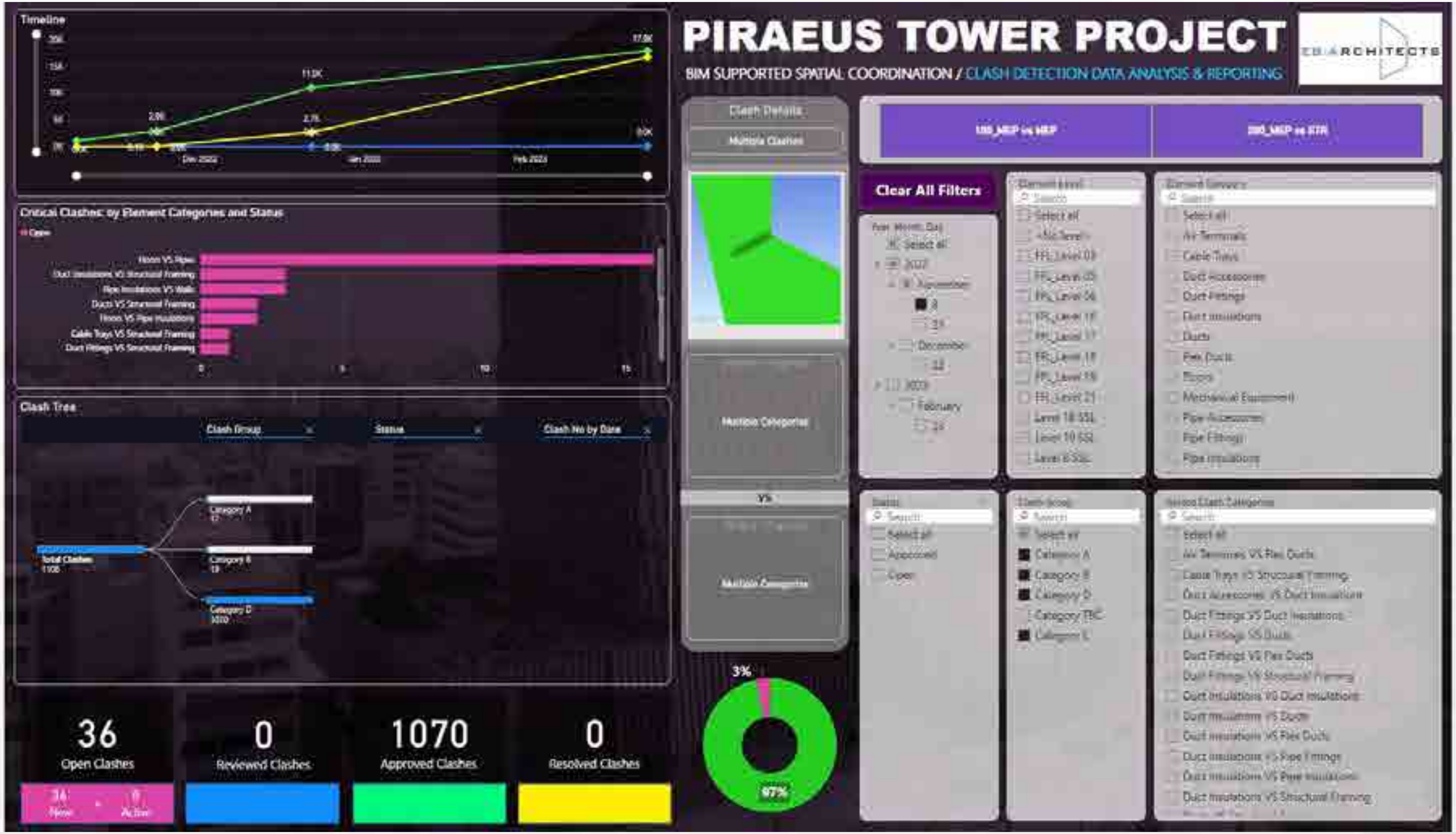
Clashes caused by software limitations, i.e. hosted elements that appear to clash with the hosts. This type of clashes should be deemed as “non-Critical”.

Clashes due to non-properly connected elements should be included in this Category.

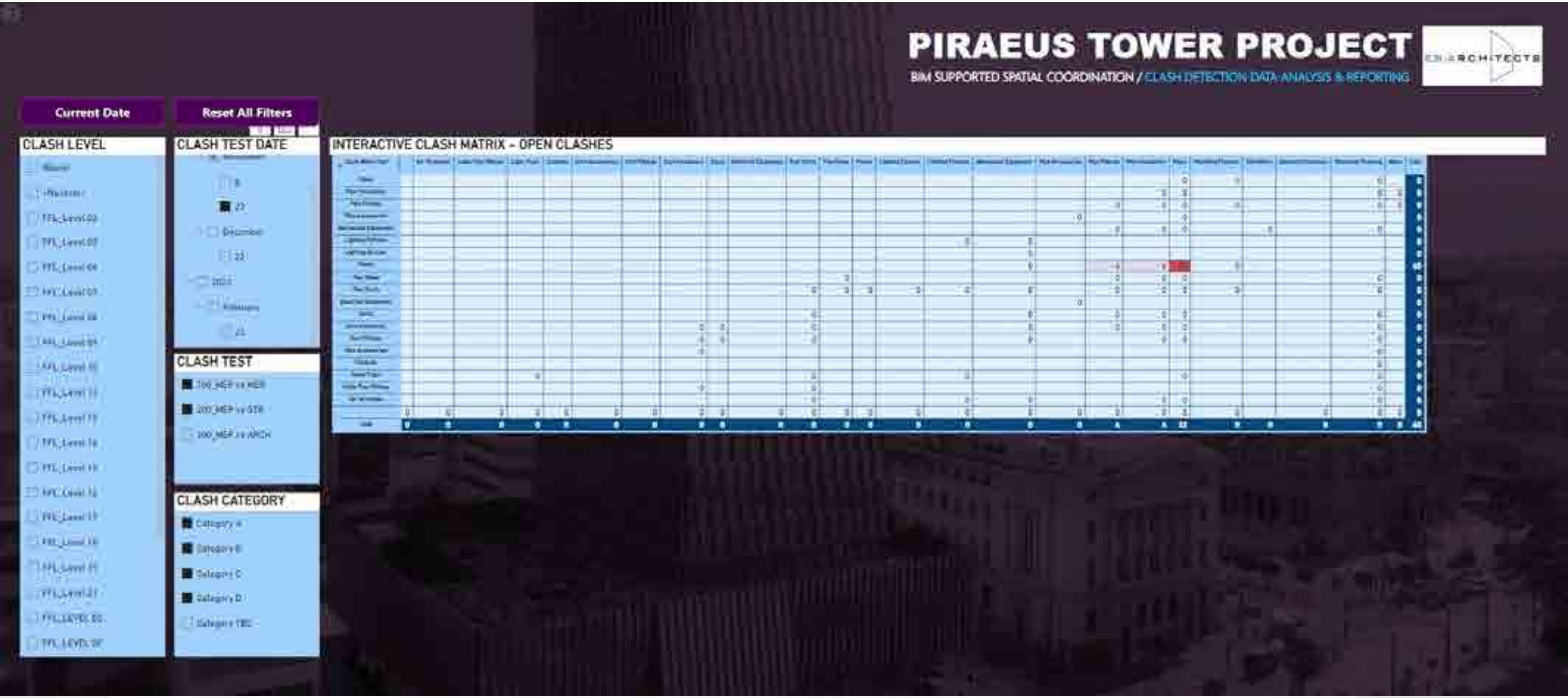
It is not necessarily required to modify the model in order to resolve these Clashes.

NON-CRITICAL

“Να περιορίσει την Επισφάλεια κατά την Κατασκευή”



“ Να περιορίσει την Επισφάλεια κατά την Κατασκευή”



“ Να διασφαλίσει την ασφαλή Προμέτρηση & Κοστολόγηση ”

WBS	WORK TYPE	DESCRIPTION	UNIT
10		Project Description	
20		Owner Development	
30		Procurement Requirements	
40		Contracting Requirements	
1010		Project Summary	
1020		Project Program	
1030		Project Criteria	
1040		Existing Conditions	
1050		Owner's Work	
1090		Funding	
2010		Site Acquisition	
2020		Permits	
2030		Professional Services	
2050		Other Activities	
2080		Budget Project Contingencies	
2090		Budget Financing	
3010		Project Delivery	
3020		Solicitation	
3030		Instructions for Procurement	
3040		Available Project Information	
3050		Procurement Forms and Supplements	
4010		Contracting Forms and Supplements	
4020		Project Forms	
4030		Conditions of the Contract	
4040		Revisions, Clarifications, and Modifications	
1010_10		Summary of Work	
1010_30		Multiple Contract Summaries	
1010_60		Work Restrictions	
1020_10		Site Program	
1020_50		Facility Program	
1030_10		Zoning Requirements	
1030_15		Planned Unit Development Requirements	
1030_30		Code Analysis	
1030_40		Design Loads	
1030_50		Sustainable Design Requirements	
1030_53		Facility Environmental Requirements	
1030_56		Indoor Air Quality Requirements	
1030_70		Historic Restoration Requirements	
1040_30		Assessment	
1040_50		Subsurface Investigation	

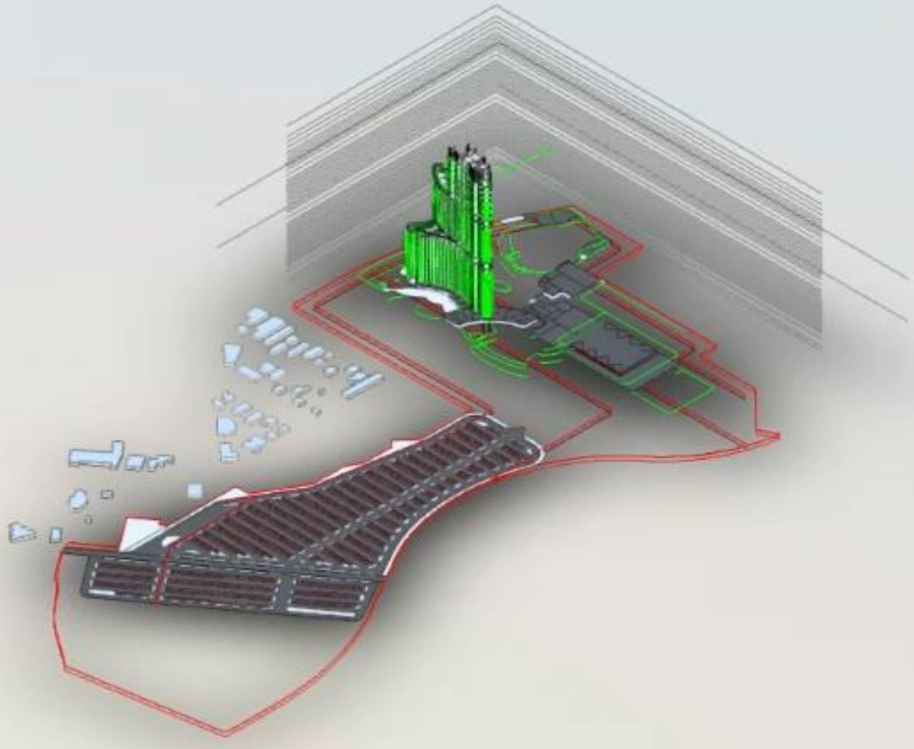
EB/ARCHITECTS

HARD ROCK HELLINIKON INTEGRATED RESORT
BILL OF QUANTITIES
GENSLER - TOWER

RESET

WBS	DESCRIPTION	UNIT	ARTICLE STATUS	DATE OF CHANGE
All	Search	All	All	All

WBS	WORK TYPE	DESCRIPTION	QUANTITY	UNIT	ARTICLE STATUS	DATE OF CHANGE
B		Shell				21/6/2023
B10		Superstructure				21/6/2023
B1010		Floor Construction				21/6/2023
B1010_20		Floor Decks, Slabs, and Toppings				21/6/2023
B1010_20_001	Supply & Install	Substrate_35mm Screed on Structural Floors - Tower Levels	73,028.37	m2	Updated Quantities	30/6/2023
B1080_10_001	Supply & Install	1/2" Tread Plate 1/4"Riser		m	New	7/10/2023
B20		Exterior Vertical Enclosures				21/6/2023
B2010		Exterior Walls				21/6/2023
B2010_20		Exterior Wall Construction				21/6/2023
B2010_20_001	Supply & Install	Concrete Pony Wall, 200mm Thickness	760.14	m2	Description Changed	30/6/2023
B2020		Exterior Windows				21/6/2023
B2020_30		Exterior Window Wall				21/6/2023
B2020_30_001	Supply & Install	Exterior Curtain Wall_Level 10	30.88	m2	Updated Quantities	30/6/2023
B2050		Exterior Doors and Grilles				21/6/2023
B2050_10		Exterior Entrance Doors				21/6/2023
B2050_10_001	Supply & Install	Type A3E, Single Swing BOH Access Door. WxH(mm)=1200x2150, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	3.00	ea	Updated Quantities	30/6/2023
B2050_10_002	Supply & Install	Type A3F.1, Single Swing Egress Door. WxH(mm)=950x2400, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	1.00	ea	Updated Quantities	30/6/2023
B2050_10_003	Supply & Install	Type B1B, Double Swing Entry or Lobby Door W/ Hold Open Hardware (900mm Eq Leaf). WxH(mm)=1800x2400, Panel: 45mm Wood, Frame: Hollow Metal with Paint Finish, FR: -	3.00	ea	Updated Quantities	30/6/2023
B2050_10_004	Supply & Install	Type B3B, Double Swing MEP Access Room Door (950mm Eq Leaf). WxH(mm)=1800x2150, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	5.00	ea	Updated Quantities	30/6/2023
B2080		Exterior Wall Appurtenances				21/6/2023
B2080_10		Exterior Fixed Grilles and Screens				21/6/2023
B2080_10_001	Supply & Install	Upper Facade Bracing: 300x500mm Steel Sections	33.25	Kgr	Updated Quantities	30/6/2023
B2080_10_002	Supply & Install	Upper Facade Bracing: 203.20x254x9.52mm Steel Sections	18.37	Kgr	Updated Quantities	30/6/2023
B2080_50		Exterior Balcony Walls and Railings				21/6/2023
B2080_50_001	Supply & Install	Glazed Railing 1200mm Height_Level 33	164.09	m	Updated Quantities	30/6/2023
B2080_50_002	Supply & Install	Pedestal Paved Balcony Parapet Construction_Level 19			Deleted	30/6/2023
B2080_70		Exterior Fabrications				21/6/2023
B2080_70_001	Supply & Install	Wide Flange HD400 x 592 Fireproofing	6,028.54	m	Updated Quantities	30/6/2023
B2080_70_002	Supply & Install	Fluted Column Cover_Level 19	8.23	m3	Updated Quantities	30/6/2023



60044

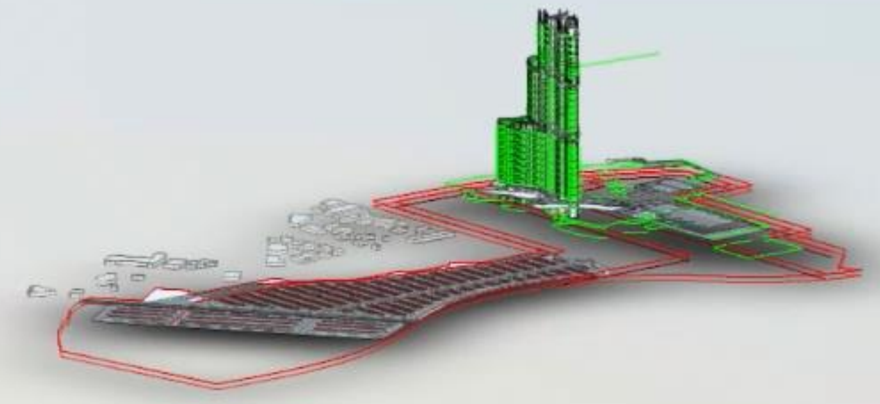
EB/ARCHITECTS

HARD ROCK HELLINIKON INTEGRATED RESORT
BoQ MATRIX
GENSLER - TOWER

RESET

Description: Search
Category: All
Width: All
WBS: All
Level: All
Type Mark: All
Height: All

WBS	First WORK TYPE	Last DESCRIPTION	QUANTITY	Last UNIT
B		Shell		
B10		Superstructure		
B1010		Floor Construction		
B1010_20		Floor Decks, Slabs, and Toppings		
B1010_20_001	Supply & Install	Substrate_35mm Screed on Structural Floors - Tower Levels	73,028.37	m2
B1080_10_001	Supply & Install	1/2'' Tread Plate 1/4"Riser		m
B20		Exterior Vertical Enclosures		
B2010		Exterior Walls		
B2010_20		Exterior Wall Construction		
B2010_20_001	Supply & Install	Concrete Pony Wall, 200mm Thickness	760.14	m2
B2020		Exterior Windows		
B2020_30		Exterior Window Wall		
B2020_30_001	Supply & Install	Exterior Curtain Wall_Level 10	30.88	m2
B2050		Exterior Doors and Grilles		
B2050_10		Exterior Entrance Doors		
B2050_10_001	Supply & Install	Type A3E, Single Swing BOH Access Door. WxH(mm)=1200x2150, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	3.00	ea
B2050_10_002	Supply & Install	Type A3F.1, Single Swing Egress Door. WxH(mm)=950x2400, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	1.00	ea
B2050_10_003	Supply & Install	Type B1B, Double Swing Entry or Lobby Door W/ Hold Open Hardware (900mm Eq Leaf). WxH(mm)=1800x2400, Panel: 45mm Wood, Frame: Hollow Metal with Paint Finish, FR: -	3.00	ea
B2050_10_004	Supply & Install	Type B3B, Double Swing MEP Access Room Door (950mm Eq Leaf). WxH(mm)=1800x2150, Panel: 45mm Metal, Frame: Hollow Metal with Paint Finish, FR: -	5.00	ea
B2080		Exterior Wall Appurtenances		
B2080_10		Exterior Fixed Grilles and Screens		
B2080_10_001	Supply & Install	Upper Facade Bracing: 300x500mm Steel Sections	33.25	Kgr
B2080_10_002	Supply & Install	Upper Facade Bracing: 203.20x254x9.52mm Steel Sections	18.37	Kgr
B2080_50		Exterior Balcony Walls and Railings		
B2080_50_001	Supply & Install	Glazed Railing 1200mm Height_Level 33	164.09	m
B2080_50_002	Supply & Install	Pedestal Paved Balcony Parapet Construction _Level 19		
B2080_70		Exterior Fabrications		
B2080_70_001	Supply & Install	Wide Flange HD400 x 592 Fireproofing	6,028.54	m
B2080_70_002	Supply & Install	Fluted Column Cover_Level 19	8.23	m3
B30		Exterior Horizontal Enclosures		
B3010		Roofing		
B3010_50		Low-Slope Roofing		
B3010_50_001	Supply & Install	Roof 125mm Topping Screed on Slab	753.82	m2
B3010_50_002	Supply & Install	Membrane, coverboard & insulation - Long Span_Level 42 Roof	450.57	m2
B3010_50_003	Supply & Install	Membrane, coverboard & insulation - Long Span_Level 33	483.38	m2
B3010_50_004	Supply & Install	Membrane, coverboard & insulation - Long Span_Level 19	287.99	m2
B3010_50_005	Supply & Install	Membrane, coverboard & insulation - Long Span_Level 01-02	9,205.10	m2
B3010_50_006	Supply & Install	Membrane, coverboard & insulation - Typical - Level 33	293.57	m2



60044

EB/ARCHITECTS

HARD ROCK HELLINIKON INTEGRATED RESORT
MODEL EVALUATION
GENSLER - TOWER

BoQ Preview

WBS	DESCRIPTION	QUANTITY	UNIT	ARTICLE STATUS	DATE OF CHANGE	QUANTIFICATION FORMULA
B1010_20_001	Substrate_35mm Screed on Structural Floors - Tower Levels	2,384.81	m2	Updated Quantities	30/6/2023	[Area] of [Type Name] = 300mm Structural Conc w/ 35mm Finish/Screed and [Area] of [Type Name] = 220 Deck + 80 Conc + 35mm Finish and [Area] of [Type Name] = 600mm Structural Conc w 35mm Screed
B2080_70_001	Wide Flange HD400 x 592 Fireproofing	167.01	m	Updated Quantities	30/6/2023	[Height]*0.001 of [Category] = Generic Models AND [Type Name] =

FILTERING BY DATA

Category: All
Level: LEVEL 05
Type Name: All
Type Mark: All
Description: All
Formula: All
Conditions: All
WBS CODE: All
ARTICLE STATUS: All
DATE OF CHANGE: All

ELEMENTS QUANTIFIED IN ARTICLES
- 1 Article
- Not Quantified

FILTERING BY DIMENSIONS

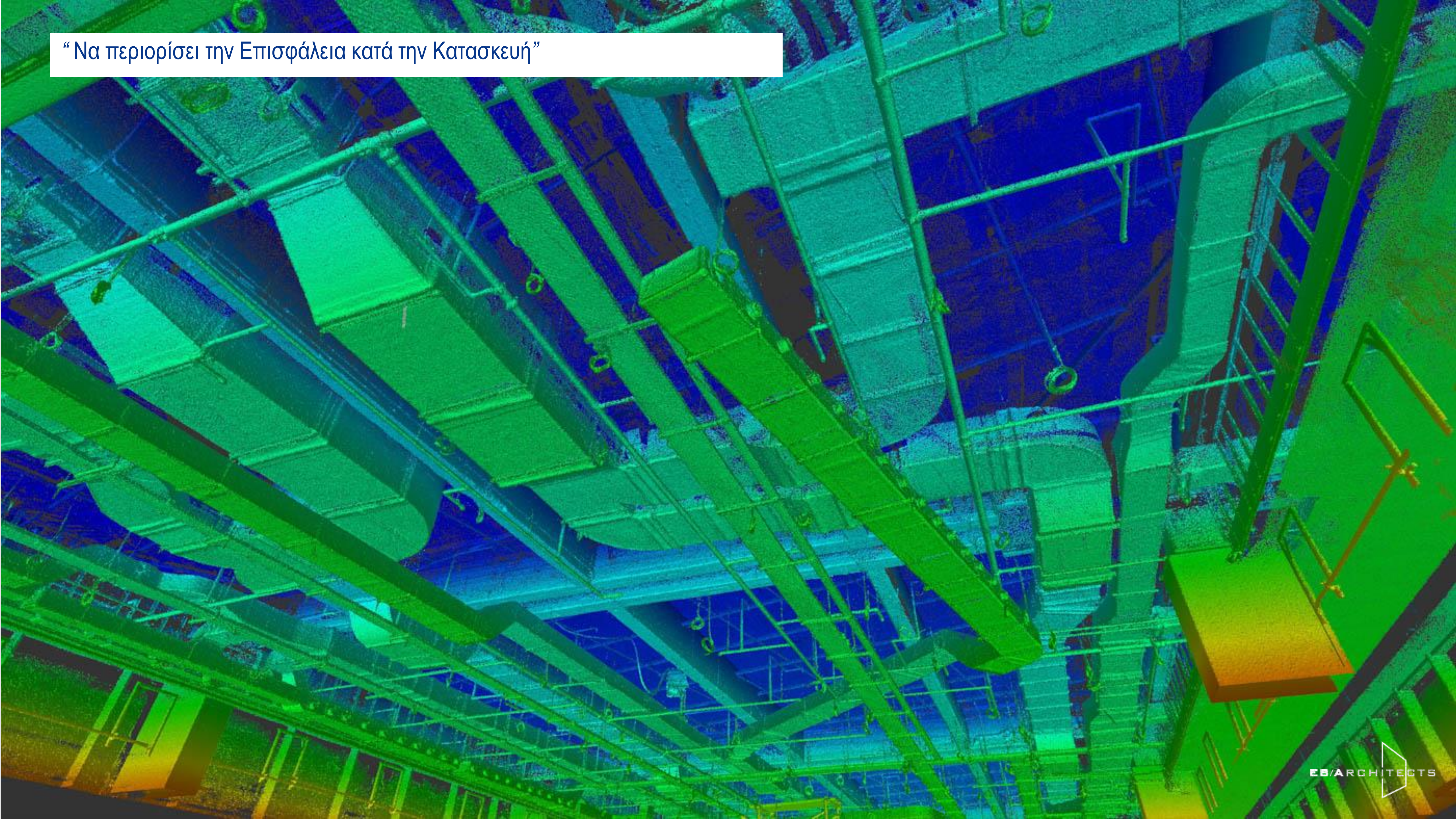
Area: 0.17 – 47329.42
Height Between x & y (mm): 20.00 – 12,600.00
Length Between x & y (mm): 2.41 – 423,295.46
Thickness (mm): All
Width Between x & y (mm): All

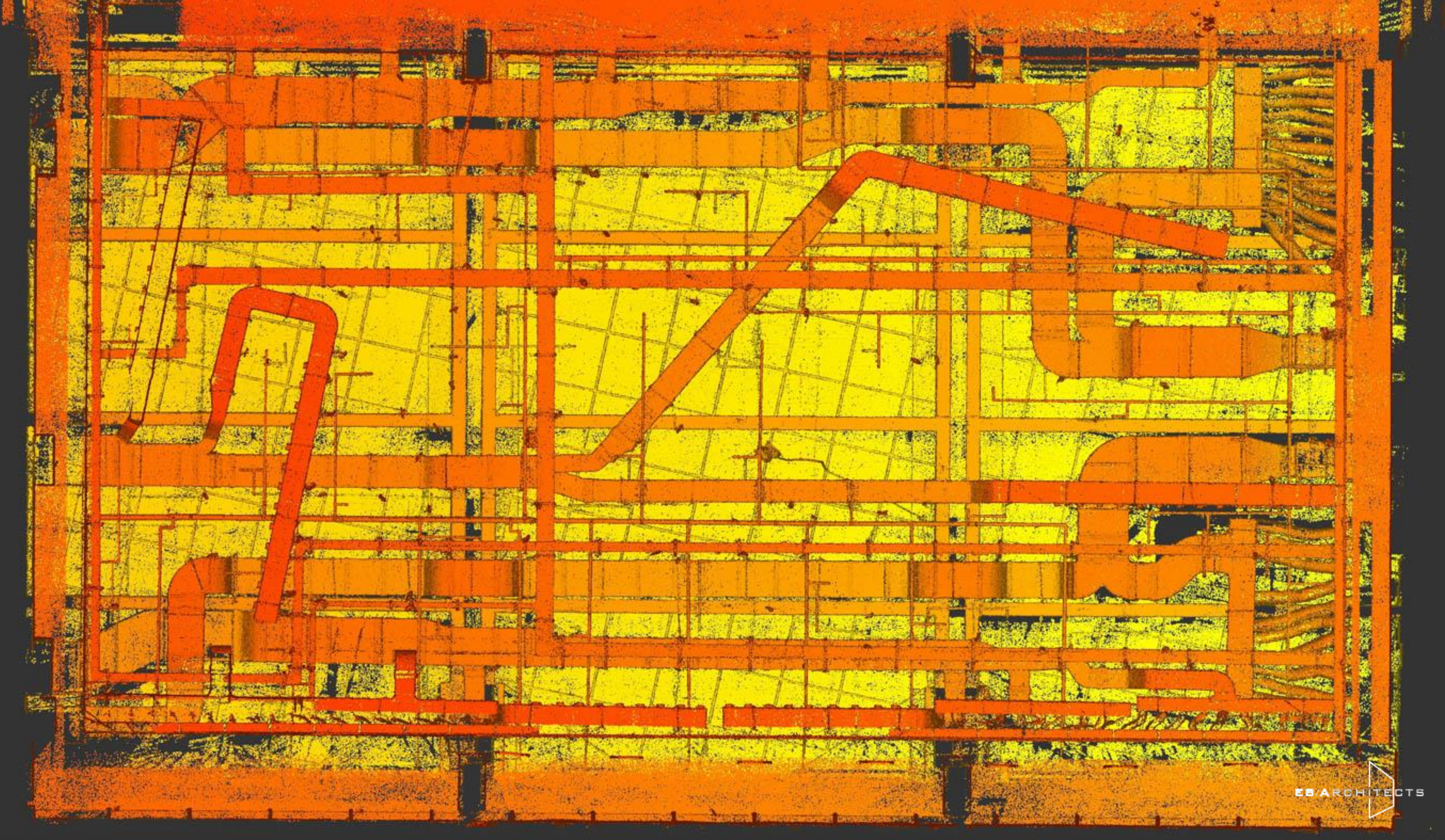
RESET

ELEMENTS

Category	Level	Count	Area (m2)	Height (mm)	Length (mm)	Thickness (mm)	Width (mm)	Perimeter (mm)	Volume (m3)	WBS Articles	Quantification
Doors	LEVEL 05	72		158,431.00		3,233.40	79,558.00			C1030_10_001 C1030_10_003 C1030_10_006 C1030_10_007 C1030_10_008 C1030_10_011 C1030_10_012 NOT QUANTIFIED	Multiple Values
Floors	LEVEL 05	1	2384.81			335.00		322,610.96	798.92	B1010_20_001	[Area] of [Type Name] = 300mm Structural Conc w/ 35mm Finish/Screed and [Area] of [Type Name] = 220 Deck + 80 Conc + 35mm Finish and [Area] of [Type Name] = 600mm Structural Conc w 35mm Screed
Generic Models	LEVEL 05	58		167,010.00		2,850.00			22.01	B2080_70_001 NOT QUANTIFIED	[Height]*0.001 of [Category] = Generic Models AND [Type Name] = HD400 x 592
Plumbing Fixtures	LEVEL 05	3					596.90			NOT QUANTIFIED	
Signage	LEVEL 05	4								NOT QUANTIFIED	
Specialty Equipment	LEVEL 05	15		7,315.20						B3010_90_001 NOT QUANTIFIED	[Count] of [Category] = Specialty Equipment AND [Type Name] = Trash - Shute - Circular Section

“ Να περιορίσει την Επισφάλεια κατά την Κατασκευή”





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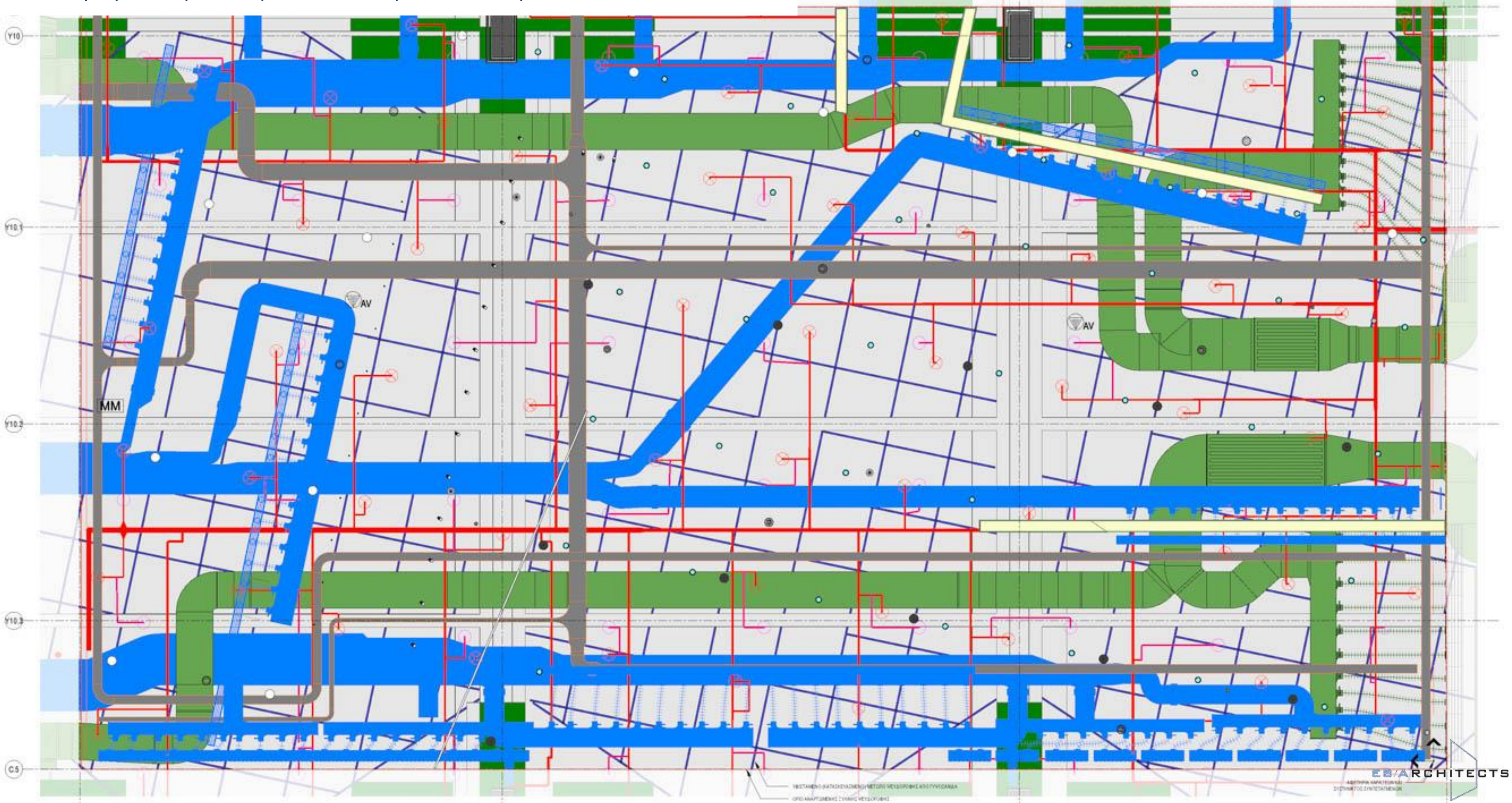

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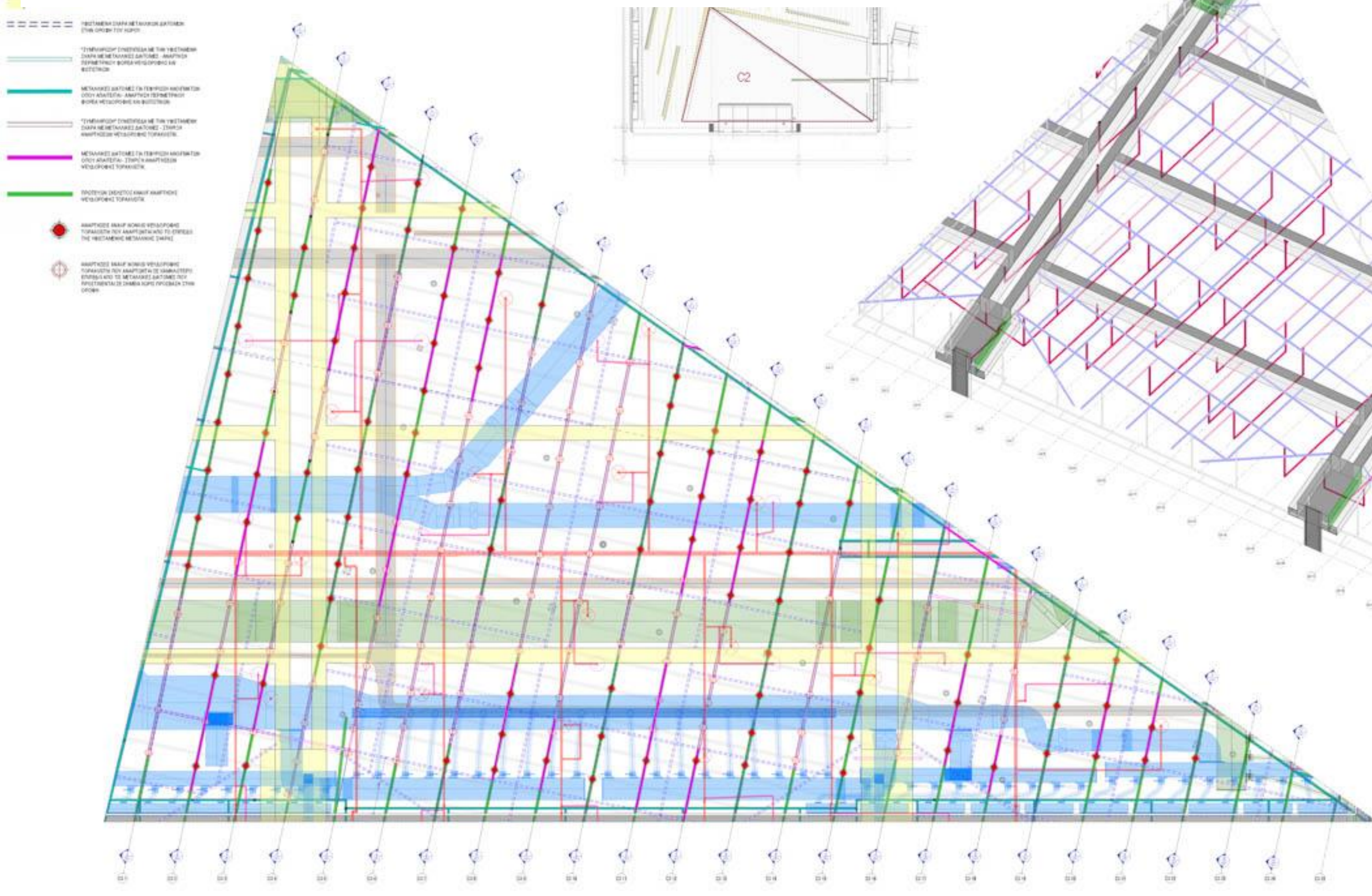

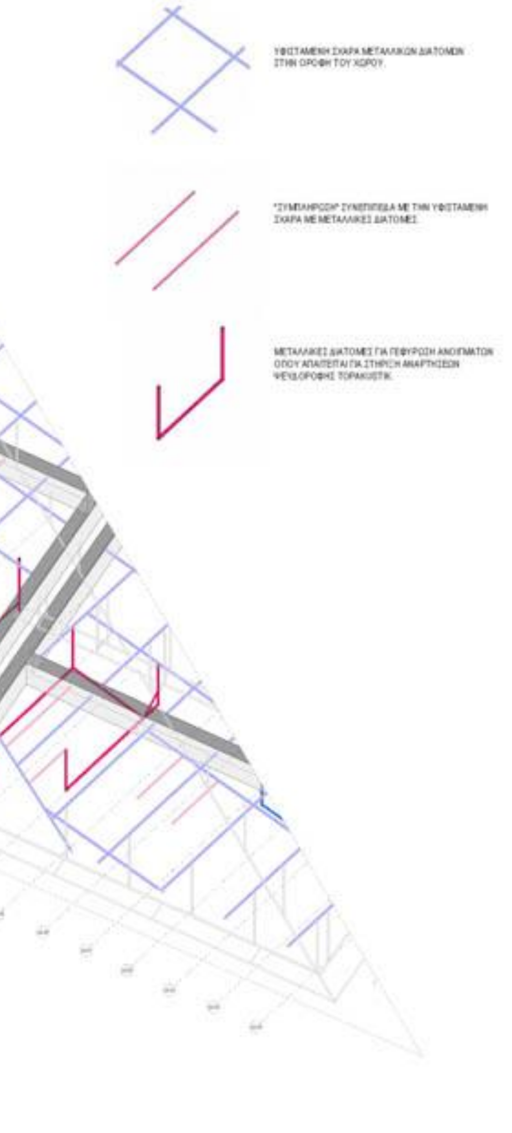

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“Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

“ Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

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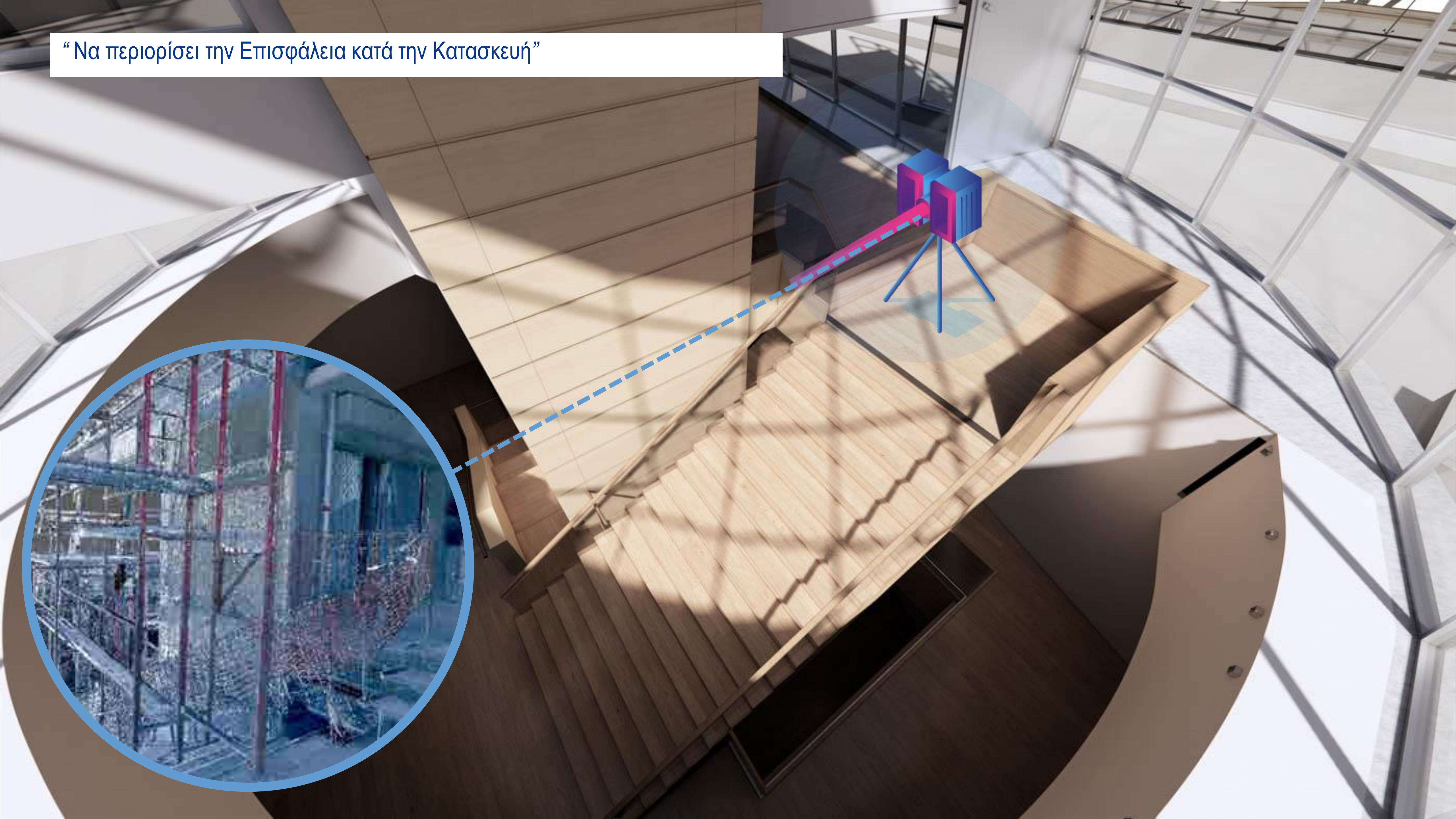
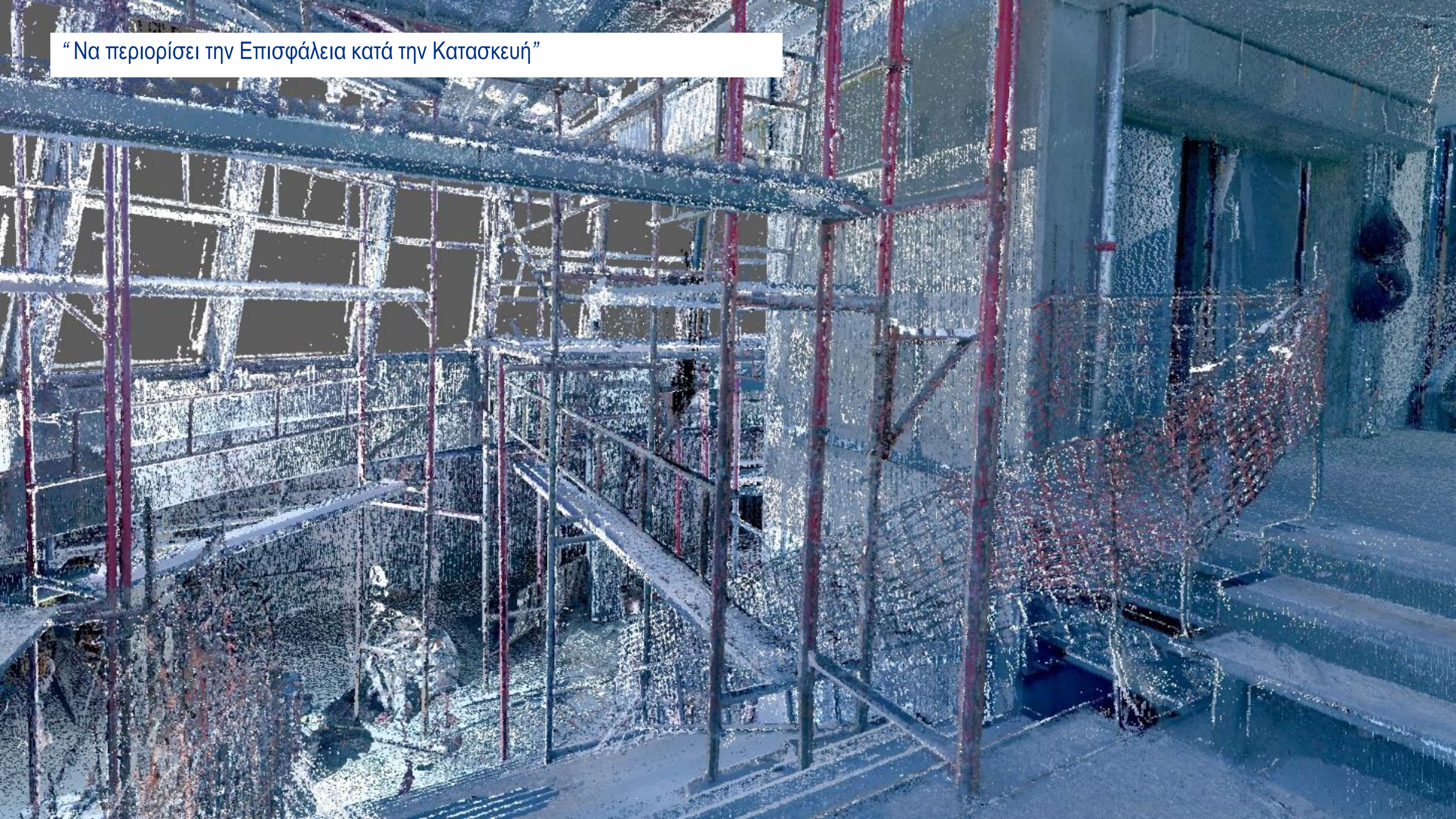


“Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

“ Να περιορίσει την Επισφάλεια κατά την Κατασκευή”



“ Να περιορίσει την Επισφάλεια κατά την Κατασκευή”

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Ευχαριστούμε!

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