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信息化建筑模拟学会前会长
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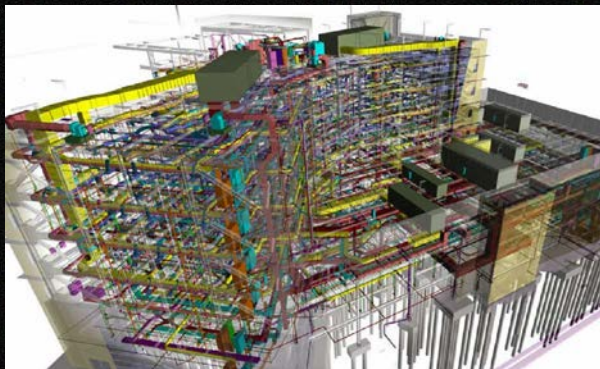
BIM 的苦 与 乐



BIM 在装饰业中应用的三个痛苦



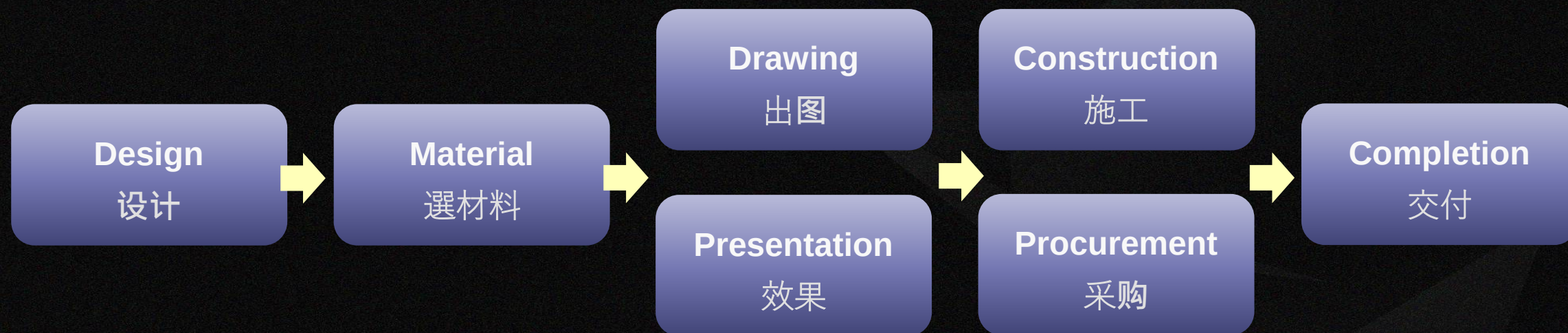
» 复杂现场环境

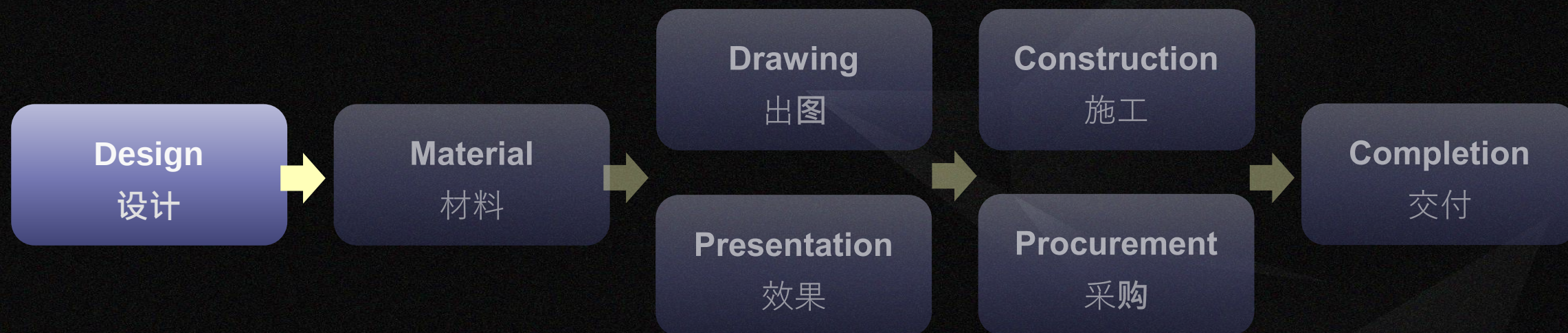


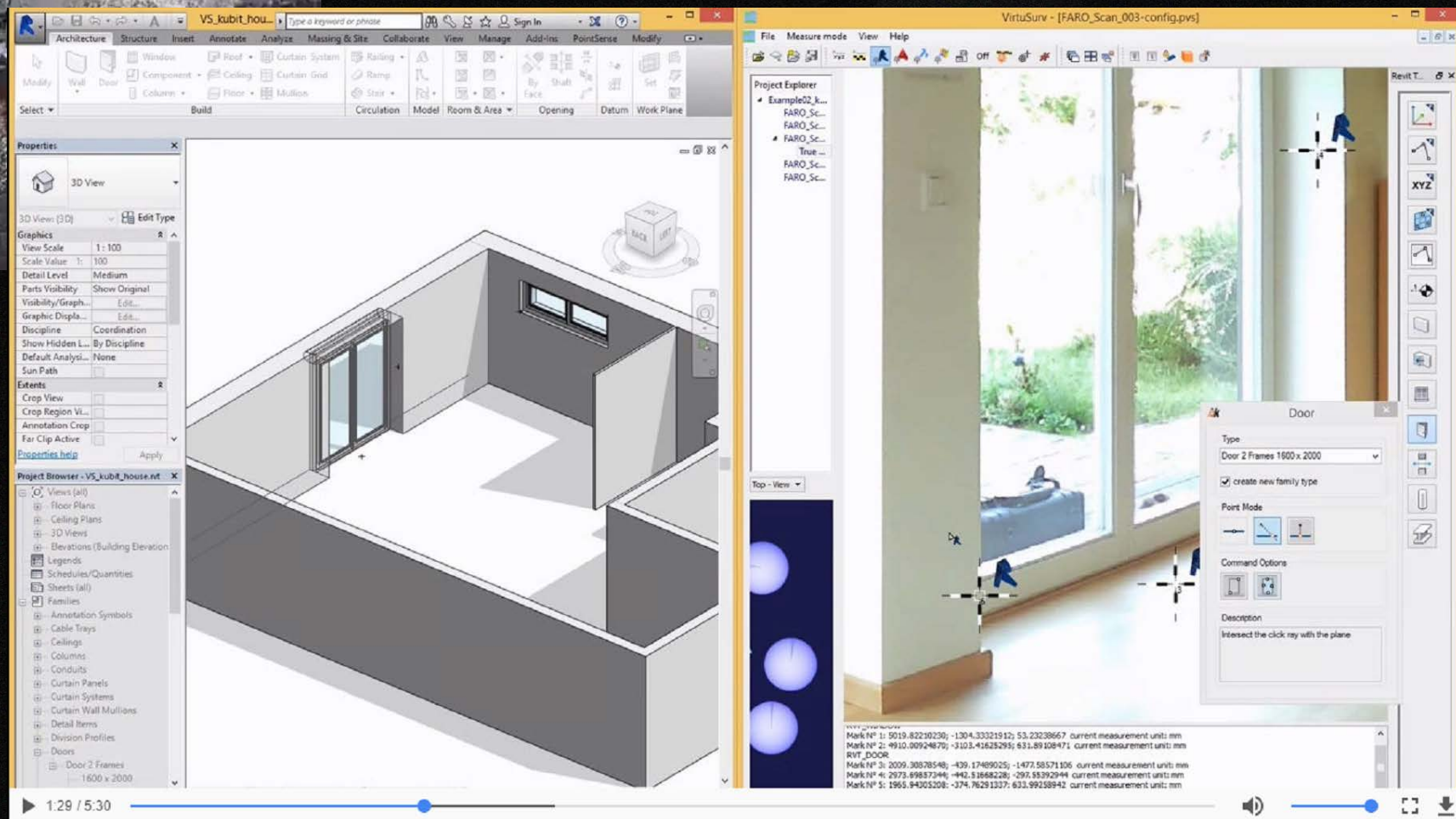
» 建模量大



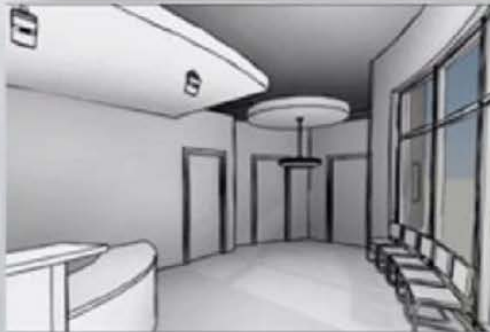
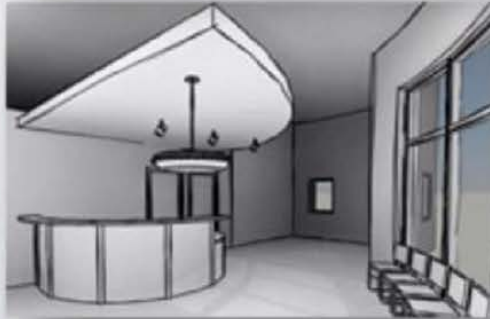
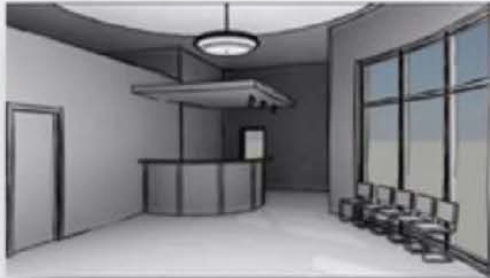
» 设计模型跟施工不匹配



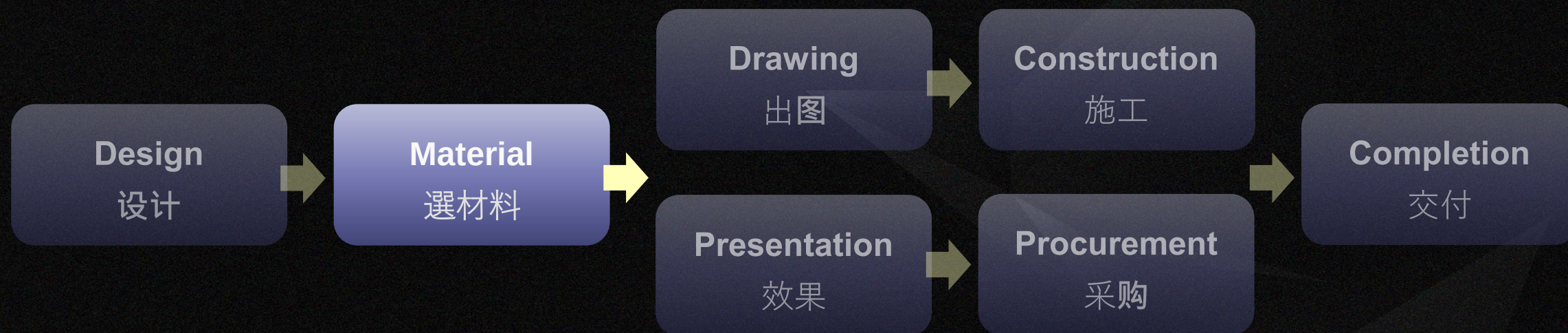




■ Design Options 方案对比







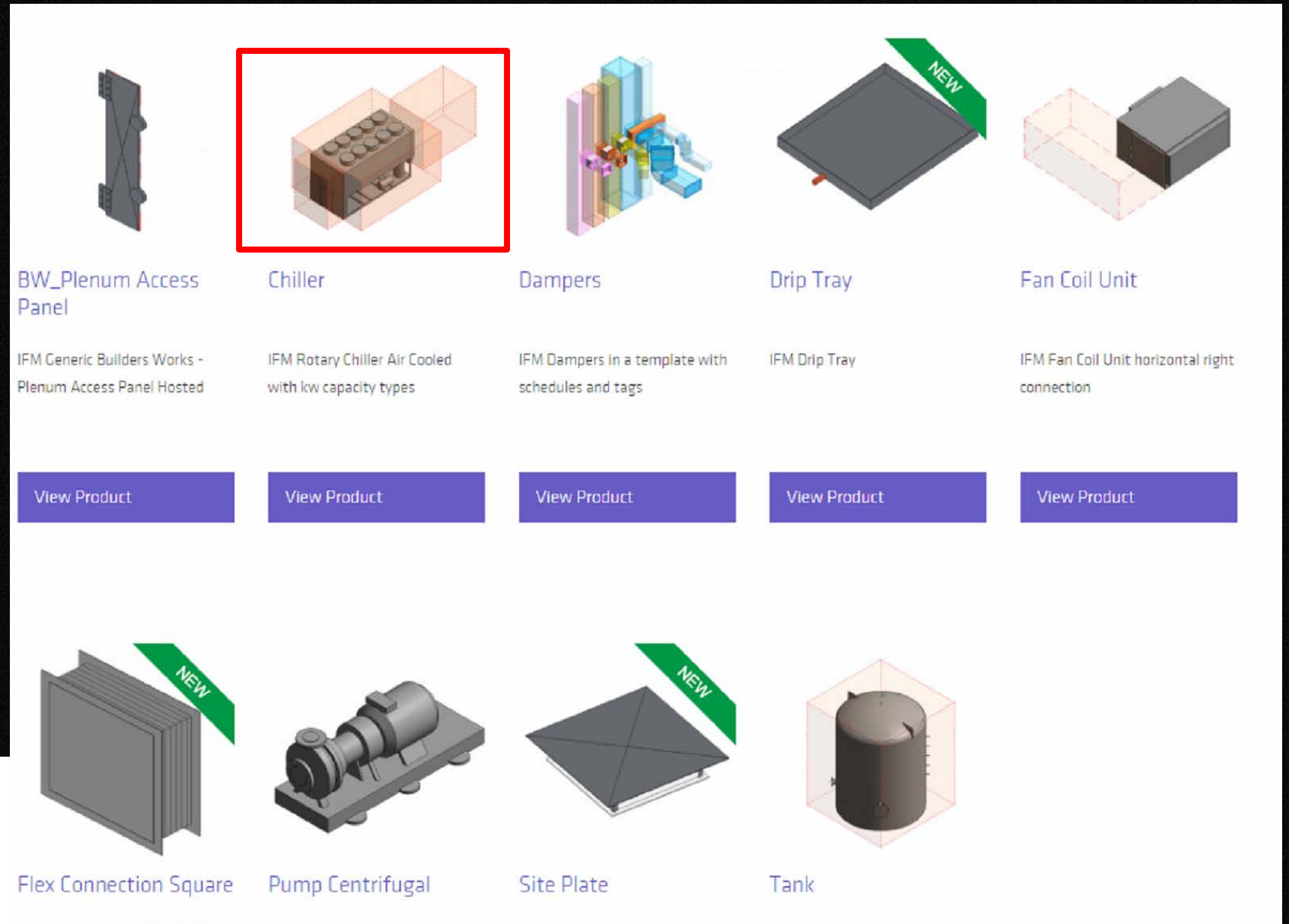
澳洲案例

設計階段: LOD 300



- 族名稱
- 基準點
- 參數結構,名稱

施工階段: LOD 400



Manufacturers Certified Models

Manufacturer's Certified Models allow suppliers to deliver project specific LOD 400 content inclusive of the technical schedules needed for finalisation of the commissioned as built LOD 500 model.



ActronAir

Product Range



AHI Carrier

Product Range



All Valve Industries

Product Range



Allvent

Product Range



Antec

Product Range



Automatic Heating

Product Range



Baltimore Aircoil

Product Range



Blucher Australia

Product Range



BMA Fabrication
Database

Product Range



Bosch

Product Range

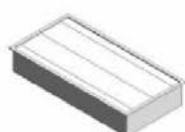
施工階段: LOD 400



Circular Plate Diffuser
ACDSC

All Bradflo Round Diffusers can be used for supply, exhaust and return air applications. They come...

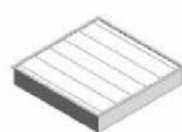
[View Product](#)



Computer Floor Grille
PTAG-Floor

Standard floor grilles for access floor designs. Available in flanged or flangeless. Colours in...

[View Product](#)



Computer Floor Grille
PTWG-Floor

Standard floor grilles for access floor designs. Available in flanged or flangeless. Colours in...

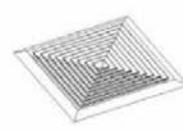
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Directional Diffuser
ACB-BevelFace

Directional Ceiling Diffusers can come in different blow patterns in both flush face and bevel face...

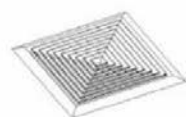
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Directional Diffuser
ACTB

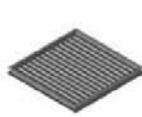
Directional Diffuser ACTB

[View Product](#)



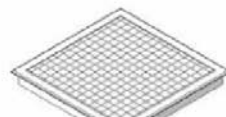
Directional Diffuser
ACTL

Directional Diffuser ACTL



Door Register Grille
AADR

Door Register Grille AADR



EggCrate Grille
AEC+AECL

EggCrate Grille AEC+AECL



Eyeball Jet Diffuser
PJDE

Bradflo PJDE Eyeball Jet Diffuser. Colours in Dulux Range + Interpon available



Half Chevron Grille ARG
Rectangular

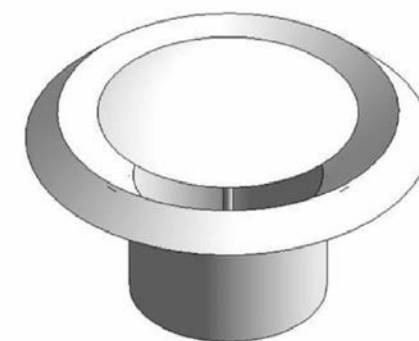
Half Chevron Grille ARG Rectangular

Eyeball Jet Diffuser PJDE

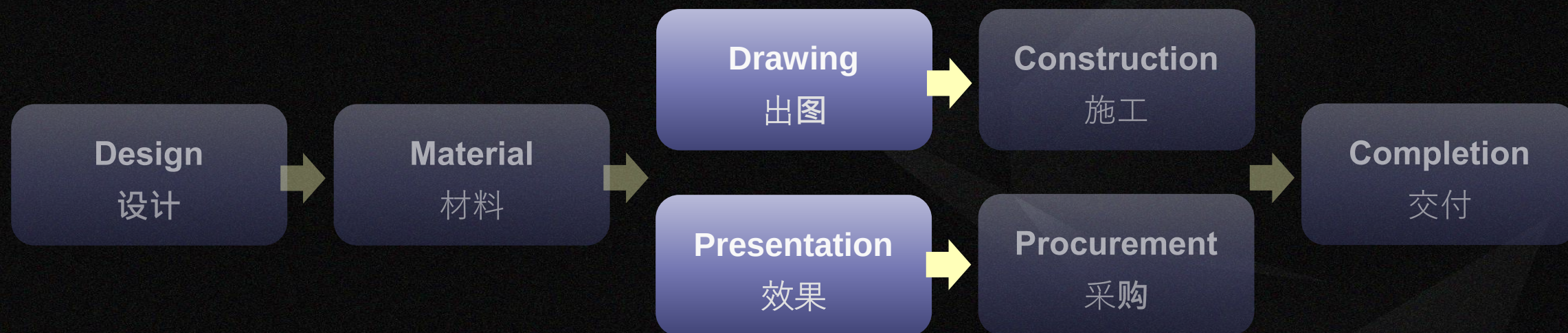
Bradflo PJDE Eyeball Jet Diffuser. Colours in Dulux Range + Interpon available.

[Download Revit files](#) [Download Revit Type Catalogue files](#)

- ☐ 2017 ([Login to download](#))
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- ☐ Type Catalogue ([Login to download](#))



施工階段: LOD 400







Revit ribbon: Create, Insert, Annotate, View, Manage, Add-Ins, Modify

Properties panel: Family: Lighting Fixtures, Edit Type, Constraints, Mechanical, Part Type: Normal, Dimensions, Round Connect... Use Diameter, Identity Data, Other, Project Browser - iGuzzini-Front Light ...

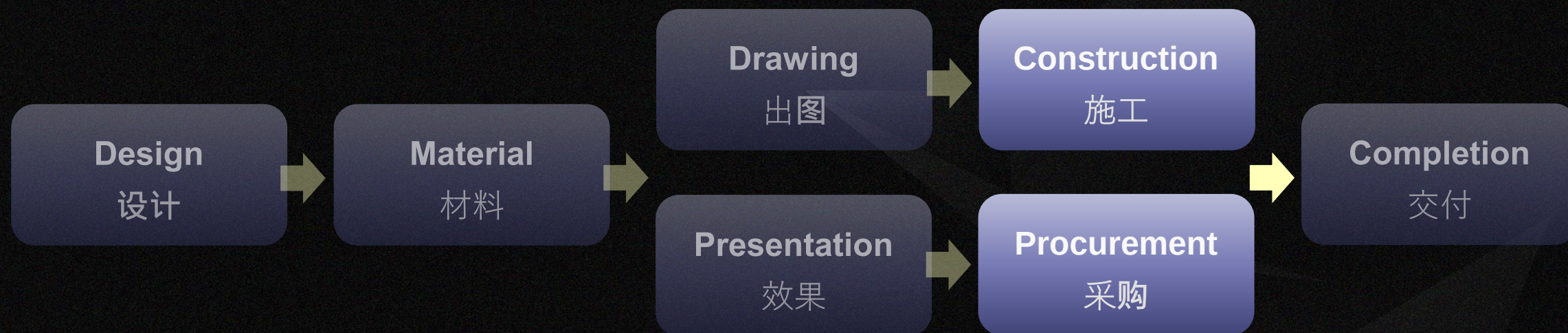
3D View: A 3D model of a lighting fixture with a yellow wireframe lens and a blue cylindrical body.

Family Types dialog box:

Name: iGuzzini- Front Light ø116-MN54

Parameter	Value	Formula	Lock
Constraints			
Default Elevation	1219.2	=	☒
Materials and Finishes			
Lens	Vetro, Trasparente iGuzzini	=	
Material main	Aluminium	=	
Material secondary		=	
box	Aluminum white iGuzzini	=	
Electrical			
Lamp	Led		
Wattage Comments			
Numero poli	1		
Voltaggio Reattanza	220.00 V		
Electrical - Lighting			
Calculate Coefficient of Utili			
Coefficient of Utilization (d			
Electrical - Loads			
Apparent Load	40.60 VA		
Dimensions			
Rotation (default)	45.000°		☐
Rotation light (default)	45.000°	Rotation	☐
IFC Parameters			
BIMObject category		=	
COBle Type Category		=	
IFC Classification		=	
Masterformat 2014 Code		=	
Masterformat 2014 Descript		=	
NBS Reference Code		=	
NRS Reference Description		=	

Buttons: OK, Cancel, Apply, Help



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21,701,702 products

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Accurate Perforating (1)

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Acoustical Surfaces, Inc. (44)

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AcrylicCon (9)

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Action Floor Systems (25)

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AD Systems (2)

ADDvise
ADDvise (1)

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Adept Collection (2)

ADVANCE LIFTS
Advance lifts (4)

AERCO
AERCO (37)

AERECO
AERECO (35)

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(9)

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Agape Design (1)

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AGF Manufacturing Inc. (2)

AGROB BUCHTAL
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Air techniques, Inc. (2)

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Alre Technologies (30)



Filter products

Brands (183)

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File types (23)

Regions (8)

Types (5)

Furniture

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[Chairs, Stools & Benches](#)

[Easy Chairs](#)

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More filter options

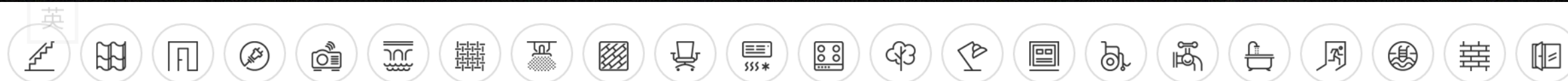
Materials (63)

Masterformat (48)

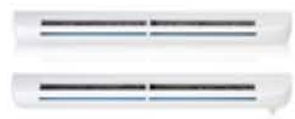
Omniclass (67)

Uniformat (8)

 Intro Mirror cabinet LED 50 Svedbergs ♥ Add	 Intro Mirror cabinet LED 55 Svedbergs ♥ Add	 Intro Vanity Unit 45 Svedbergs ♥ Add	 Intro Vanity Unit 50 Svedbergs ♥ Add	 Intro Vanity Unit 55 Svedbergs ♥ Add	 454_Biplane 120x120 high table Alias Design ♥ Add	 465_Biplane 140x140 high table Alias Design ♥ Add
 487_Biplane 200x105 high table Alias Design ♥ Add	 491_Biplane 240x105 high table Alias Design ♥ Add	 3700 Series Recessed Mounted 4C Horizontal Mailboxes Salsbury Industries ♥ Add	 3700 Series Recessed Mounted 4C Horizontal Mailboxes Salsbury Industries ♥ Add	 3700 Series Recessed Mounted 4C Horizontal Mailboxes Salsbury Industries ♥ Add	 3700 Series Recessed Mounted 4C Horizontal Mailboxes Salsbury Industries ♥ Add	 3700 Series Recessed Mounted 4C Horizontal Mailboxes Salsbury Industries ♥ Add
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Highlights of the week



Air inlet EHA²
AERECO



View
Details

**Four Seasons
parasoll**
Nola



**817_Slim
Lounge high
chair**
Alias Design



**Bolon By Jean
Nouvel Design
No.3**
Bolon



**H37457 DREAM
- OKI Light RGB**
Bossini



MFV Bathroom
Valsir



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Search



Filter products

Brands (54)

BIM object categories (22)

File types (20)

Regions (8)

Types (5)

Flooring

Carpets

Coatings & Coverings

Flooring

Flooring Systems

Laminate

+ See more

More filter options

Materials (47)

Masterformat (23)

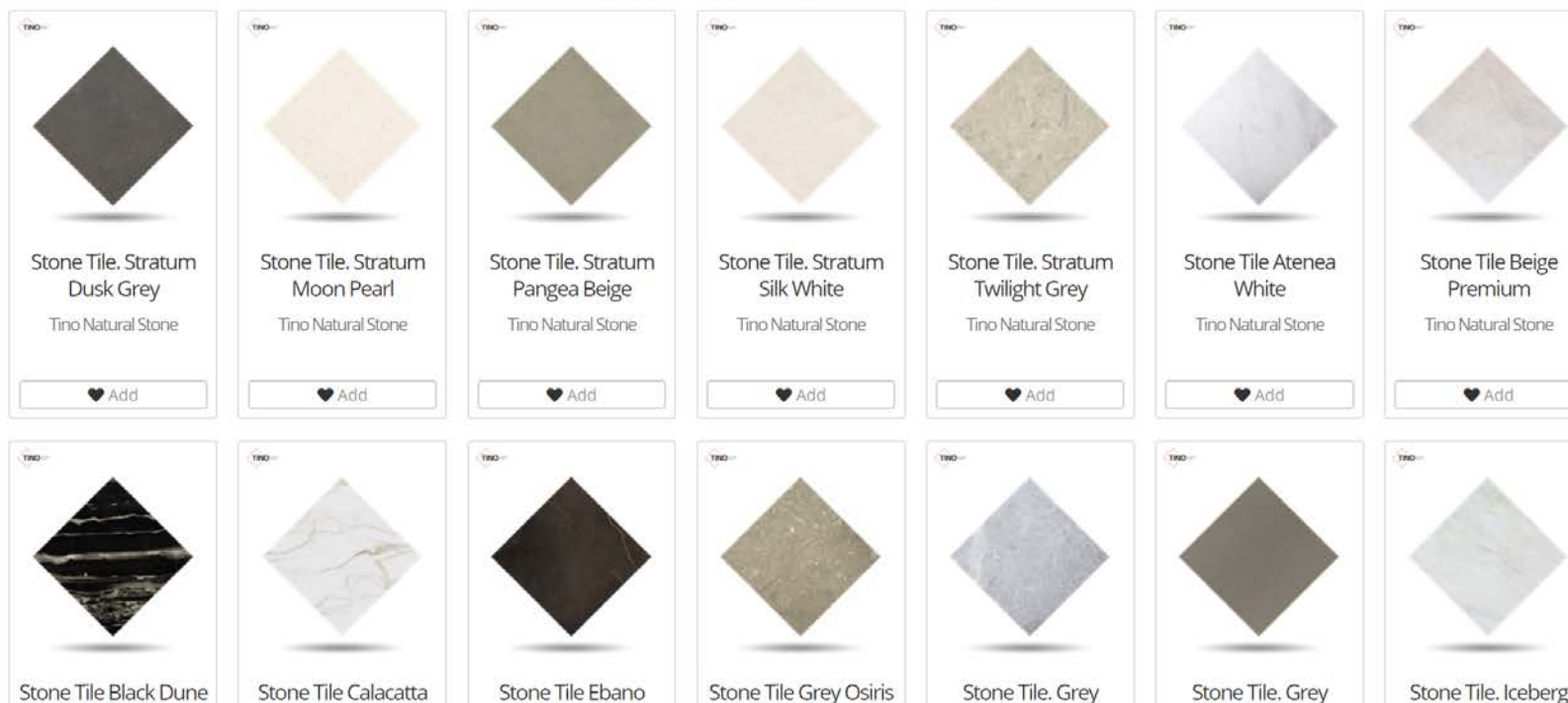
Omniclass (22)

Uniformat (6)

Missing a manufacturer?

940 product families 54 brands 268,332 downloads

BIM object categories: Flooring Reset filters



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BIMobject / Brands / JELD-WEN Northern Europe / Products / Interior Door Craft 104 Double equal



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Interior Door Craft 104 Double equal

Unique ref.: int_door_craft_104_double_egu
 Brand: JELD-WEN Northern Europe
 Product family: Interior doors
 Product group: Craft
 Date of publishing: 2017-06-20
 Edition number: 1
 Type: Object (single object)

Download (2)


ArchiCAD
 NE_Jeld-Wen_Craft_Doors_v1.lcf
 - Library file containing Craft Doors

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Revit
 JW_Interior_Door_Craft_104_Double_1.0.rfa

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Description

Links

Related

Classification

Regi

Craft is a contemporary version of the classic hand-built panel doors. Craft gets its character and strength of its components and its surroundings. Therefore these doors fit, both to the old exclusive villa and the modern stylish apartment. Craft is designed for residential and similar usage.

JW_Interior_Door_Craft_104_Double_1.0 - 3D View: (3D)

Create Insert Annotate View Manage Add-Ins Modify

Modify Properties Forms Model Control Connectors Datum Work Plane Family Editor

Properties

Family: Doors Edit Type

Constraints

Host Wall

Identity Data

OmniClass Num... 23.30.10.00

OmniClass Title Doors

Other

Always vertical ☒

Cut with Voids W... ☐

Shared ☐

Room Calculatio... ☐

Project Browser - JW_Interior_Door_Cra...

Views (all)

Floor Plans

Ref. Level

Ceiling Plans

3D Views

View 1

(3D)

Elevations (Elevation 1)

Exterior

Interior

Left

Right

Sections (Section 1)

Section 1

Sheets (all)

Families

Annotation Symbols

Detail Items

Doors

Kuopio_Frames_Light

Kuopio_Threshold_23mm

Family Types

Name: 1290 x 2090 mm - M13 x M21

Parameter	Value
Uniclass 2015 Code	
Uniclass 2015 Name	
Unifomat II Code	
Unifomat II Description	
General	
Brand url	
Date of publishing	
Design country	Finland
Edition number	1
Manufacturer country	Finland
Manufacturer name	JELD-WEN Northern Europe
Nominal height	0.00
Nominal width	0.00
Product SKU	int_door_craft_104_double_equal
Product family	Interior doors
Product group	Craft
QR code	http://bimobject.com/jeld-wen-northern-europe/product/int_door_craft_104_double_equal
Region Africa	None
Region Antarctica	None
Region Asia	None
Region Europe	EE, FI, LT, LV, RU
Region Middle East	None
Region North America	None
Region Oceania	None
Region South America	None
Weight Net (Kg)	0
Visibility	
Hidden	

OK Cancel Apply

A	B	C
DOOR	DOOR MARK	LEVEL
DOR-DBL-AEC-Wood-w_VP		
DOR-DBL-AEC-Wood-w_VP	D07	Level 1
DOR-DBL-AEC-Wood-w_VP	D08	Level 1
DOR-SGL-AEC-Wood-SC_VP		
DOR-SGL-AEC-Wood-SC_VP	D01	Level 1
DOR-SGL-AEC-Wood-SC_VP	D02	Level 1
DOR-SGL-AEC-Wood-SC_VP	D03	Level 1
DOR-SGL-AEC-Wood-SC_VP	D05	Level 1
DOR-SGL-AEC-Wood-SC_VP	D06	Level 1
Grand total: 7		

Schedule Properties

Fields Filter **Sorting/Grouping** Formatting Appearance

Sort by: **Length** ☒ Ascending ☐ Descending

☐ Header ☐ Footer: ☐ Blank line

Then by: **Type** ☒ Ascending ☐ Descending

☐ Header ☐ Footer: ☐ Blank line

Then by: **(none)** ☒ Ascending ☐ Descending

☐ Header ☐ Footer: ☐ Blank line

Then by: **(none)** ☒ Ascending ☐ Descending

☐ Header ☐ Footer: ☐ Blank line

☒ **Grand totals:** **Title, count, and totals**

Custom grand total

Grand total

☒ **Itemize every instance**

<Wall Schedule>

C	D
Type Mark	Length
Conc	1400
Conc	1400
Conc	1400
Conc	1400
Conc	6600

Schedule Properties

Fields Filter **Sorting/Grouping** **Formatting** Appearance

Fields:

- Family
- Type
- Type Mark
- Length**
- Area
- Count
- Cost

Heading: Length

Heading orientation: Horizontal

Alignment: Right

Field formatting: **Field Format...**

☐ Hidden field **Conditional Format...**

☒ Show conditional format on sheets

Calculate totals

Area	Count	Cost
96.552 m²		
190.875 m²		
27.658 m²		
173.877 m²		
163.841 m²		
10.032 m²		
31.613 m²		
90.957 m²		
94.128 m²		
94.050 m²		
94.050 m²		
97.504 m²		
15.960 m²		
15.960 m²		
15.960 m²		
15.960 m²		
48.296 m²		
16.808 m²		
26.909 m²		
28.862 m²		
28.862 m²		
21.242 m²		
7.828 m²		
19.600 m²		
17.473 m²		
10.913 m²		
7.828 m²		
29.164 m²		
28.763 m²		
28.763 m²		
8.741 m²		
3.378 m²		
2.625 m²		
52.962 m²		
8.147 m²		

Schedule Properties

Fields Filter **Sorting/Grouping** **Formatting** Appearance

Fields:

- Family
- Type
- Type Mark
- Length
- Area**
- Count
- Cost

Heading: Area

Heading orientation: Horizontal

Alignment: Right

Field formatting: **Field Format...**

☐ Hidden field **Conditional Format...**

Conditional Formatting

Condition

Field: **Area** Test: **Greater Than** Value: **25.000 m²** and 0.000 m²

Conditions to Use: **Area > 25.000 m²** Background Color: **Blue**

BIM 在装饰业中应用的三个痛苦

乐趣



» 复杂现场环境



激光素描成BIM模型



» 建模量大



阶段式建模深度转换



» 设计模型跟施工不匹配



厂家信息模型

谢谢!

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