# Product System: INNO\_APS

covers aluminium prop systems (APS)

Example of FFC-Task Processing with Formwork Priority

(from Clearance)



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# Given: Baywidths plus Loads plus Clearance-Layout

- Clearance: Top = Base x = 2000 mmy = 2500 mm
- Baywidths: x = 1000 mm y = 1000 mm
- Height: 4500 mm
- Legloads: -10kN
- Bearing: Top Held x y Base Restraints acc. to DIN 12811
- (LDB: hinged at spindles)





2

# First: Choose your Product System

Image:	Clearance Propping Plan	Untitle Falsework Configuration	d [MasterData.ffcl] - FFC 2.1.9.1 Formwork Configuration	*DEVELOP* Falsework Structural Design	Issuing	Tools
Properties						
Project						
No shoring section defined. Please initially create a shoring section in global operation mode within Ribbon Tab "BIM" either by manual input or out of a traverse grid axis.			Choose yo	ur product system		
Shoring Section						
Section Name Description						
Origin 0 0 0 mm						
<u>x-Axis</u> 1 0 0						
<u>y-Axis</u> 0 1 0						
Select/Insert 💽 🖤 Insert						
Properties Parts						
	X X					
	Message : Representation: Transpa Message : Loaded master data: Mas Message : Active Product System: Message : Created new project. Message : Active Product System:	urent terData.ffcl (V1.0.9.9 - 1 INCUP INNO_APS	9.02.2019 16:09:23)			
Product System INNO_APS Y 1 Global Local	Axis grid altitude Default Y Sho	w Section Planes Building Alig	nment Planes Select All View			



#### Establish a Section





#### BIM: Rename a Section





28.04.2019







#### Propping Plan: "Generate Leg Dummies"



File     Project     BIM       Higherate lead ands     If Additional and statements	Task Object	Clearance Proppin	g Plan Payework C	Configuration	Formwork Config	Unt juration	itled* [MasterData.ffcl] - Falsework Structural	FFC 2.1.8.1 * Design	*DEVELOP* Issuing	Tools		
Generate Leg Dummies	Simple mode Planning Direction X Number of dummies First grid spacing Direction Y Number of dummies First grid spacing Copy dummy leg positions Dimension X: 1000 mm Dimension Y: 1000 mm rt point	Advanced mode       2       1000 ~       2       1000 ~				Initial Choos desire • <u>Sin</u> Insu pre dire • <u>Adv</u> Insu dist	Picture: Corre te tower width od, and go ahe <u>ople mode:</u> ert a desired i eset distance of ection (other of vanced mode ert a sequence tances in x- an Insert dummy Dummy Type Dummy Type Dummy Tower Grid Dummy Tower	espond h and t ead wit numbe once in distance e of du nd y-dia <u>Sim</u> <u>Direction X</u> 1*1000 <u>Direction X</u> 1*1000 <u>Direction X</u> 1*1000 <u>Direction X</u> 1*1000 <u>Direction X</u> 1*1000 <u>Direction X</u>	lending w ower dep th: r of dumi x-directio ce possible mmy tow rections.	vith choos oth, if tow my tower on and or e than in vers with Advanc	sen Syster vers are rs with a nce in y- x-directio desired × ed mode	m on)



# Falsework Configuration: "Generate Falsework"





# Falsework Configuration: "Generate Falsework"





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#### Falsework Configuration via wizard: "Generate Falsework"





# Falsework Configuration: Ledger Configuration





#### Option: Adjustments







#### Falsework Structural Design: "Generate LDBs"



### Falsework Structural Design: "Create Concentrated Loads" - Preparatoy work





# Falsework Structural Design: "Create Concentrated Loads"





#### 🔳 🐿 當 💾 🎾 🤍 🗗 🖛 2.1.8.1 \*DEVELOP\* Untitled\* IM Project BIM Task Object Clearance Propping Plan Falsework Configuration Formwork Configuration Falsework Structural Design Tools Issuing Generate LDBs I Generate Loads on Beams and L 🜵 Create Bearing 🛛 🌵 Aod Group .gs 🜵 Create LDB 🜵 Create Concentrated Load 🜵 Create Coupling 🛛 🌵 Create Distributed Load Show Group Loads Beams/Coupling Supports Calculation Groups Bearing Target All bearings required are available as LDBs Legs templates. (Template = default settings of the Top Held x y program) Advanced configuration Multiple Mode Single Mode • Top held x/y = held laterally scene by rectangle ... Select/Insert sert

#### Falsework Structural Design: "Create Bearing" - Top



### Falsework Structural Design: "Create Bearing" - Base





## Falsework Structural Design: Show Hidden Selection





# Falsework Structural Design: "Add Calculation Group"





#### Falsework Structural Design: "Start Calculation" and save Project



