



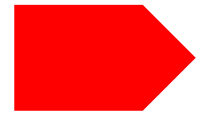
ÚRS/DEK BIM TOOLBOX

SIMPLE INFORMATION FLOW FROM DESIGNERS TO COST ESTIMATORS AND CLIENTS

Ing. Daniel Cihelka
ÚRS CZ a.s., Czech Republic



Introduction



Cost information – ÚRS price system



ÚRS/DEK BIM TOOLS for design & estimate



Overview and outlook

ABOUT ÚRS CZ a.s.



- ▶ Czech Republic - Europe
- ▶ 58 years of history in the area of cost estimating and cost accounting
- ▶ Creator of ÚRS price system and SW vendor

- ▶ Since 2018 part of DEK holding

- DEK holding – 17 companies focused on construction industry
- The biggest company is DEK a.s. - vendor of building materials – 90 branches



- ▶ 6 000 active users
- ▶ 50 employees – mostly engineers



- About 300 main partners – manufacturers
- 2 600 employees

ÚRS price system (CS ÚRS) – construction cost of a project



Planning phase	Study/Preliminary design	Building permission, basic design	Tender documentation, detailed design	Contractor cost calculation (for bidding)
Level of estimate	First rough estimation	Price schedule in aggregate items	Price schedule with a detailed bill of quantity	Price schedule (bid) + contractor's cost account
Examples	Price for m3 space, m2 built-up areas, etc.	Price for m2 facade, electro per rooms, etc.	Price for m2 thin silicone grained plaster of external walls, etc.	
Parts of CS ÚRS (databases)	A – Price index (KUBIX, RUSO)	B - Agregates (RYRO, KOSTO)	C - Constructions and works	D - Cost analysis; materials, labor cost, machines, etc.
Range of data	1 300 Construction	1 200 items	100 000 items	for each item
	Speed of estimating ←		→ Level of project detail / Cost accuracy	

C – Database of construction and works



- Each Item has a unique 9-figures code
- Structured (classified) mainly according to:
 - the type of construction (buildings, roads, bridges, etc.) and the structure (foundation, vertical construction – walls etc., horizontal construction, etc.)
 - the profession (earthworks, bricklayer, isolator, plumber, carpenter, etc.)
 - cost significance
- For both public and private works (public works - without names of the products)
- Examples of items:

Code	Description	Unit	Unit price (CZK)
279113125	Foundation wall, thickness 400 mm, of permanent formwork blocks including filling of concrete class C 12/15	m2	1 490,00
279113124	Foundation wall, thickness 300 mm, of permanent formwork blocks including filling of concrete class C 12/15	m2	1 170,00
279361221	Reinforcement for foundation wall, reinforcing steel 10216 (E)	t	38 400,00
711141559	Fixing insulation against soil moisture by fusing horizontal asphalt strip AIS	m2	86,90
711142559	Fixing insulation against soil moisture by fusing vertical asphalt strip AIS	m2	100,00
311235511	Single-layer masonry brick laid on foam, strength P10, thickness 440 mm	m2	1 460,00
622531021	Thin silicone grained plaster, thickness 2.0 mm, including penetration of external walls	m2	297,00

D – Cost analysis



Each Item has cost analysis:

- Materials and their needs/per construction unit
- Wages with times/per construction unit
- Machines with times/per construction unit
- Rate of overhead, profit

Example of cost analysis for 1 construction - Single-layer masonry brick laid on foam, strength P10, thickness 440 mm

TOV Resources (changed)

Item code: 311235511 Unit: m2 price est. 1 442,83 price acc. 1 442,83

Skrátený popis: Single-layer masonry brick laid on foam, strength P10, thickness 440 mm

000 - TOV 000 (1 442,83) Tools Set TOV

sign	type	price	code	description	unit	cost/unit	need	cost	weight
<input type="checkbox"/>	pc		08211321	Water	m3	42,00	0,00137	0,06	0,00000
<input type="checkbox"/>	pc		59612051	Brick block perforated masonry thickness 440mm including mortar and binder, strength P10	m2	1 150,00	1,02000	1 173,00	0,27744
<input type="checkbox"/>	s1		712000-S2...	Worker	Nh	121,90	0,18000	21,94	0,00000
<input type="checkbox"/>	s1		712000-S3...	Worker	Nh	134,60	0,37600	50,61	0,00000
<input type="checkbox"/>	s1		712000-S3...	Worker	Nh	162,10	0,11000	17,83	0,00000
<input type="checkbox"/>	s1		912000-S4...	Worker II	Nh	121,90	0,16400	19,99	0,00000

PSN 147,90

PN 1 320,96

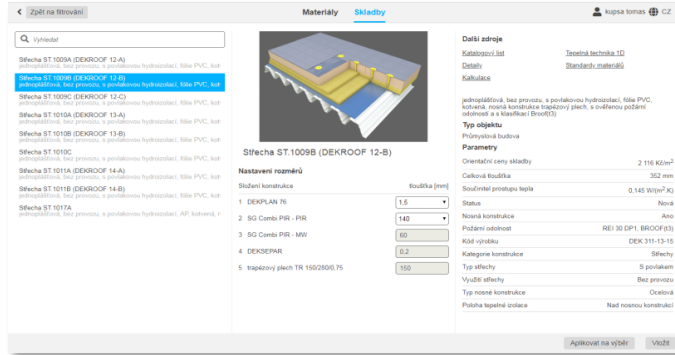
Resources amount 1 442,83

- Wages 110,37
- Levies 37,53
- Equipment 0,00
- Tariffs 0,00
- Material 1 173,06
- Subcontractors 0,00
- Not estimated 0,00
- Overhead 88,74
- Margin 33,13

ÚRS/DEK BIM TOOLBOX

1

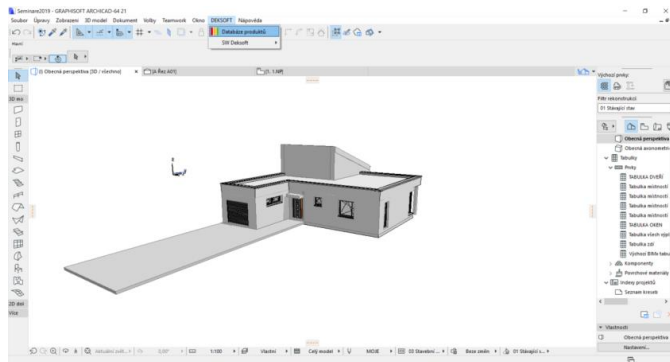
LIBRARY



- SOURCE OF INFORMATION
- MATERIALS, PRODUCTS, STRUCTURES
- TECHNICAL, ECONOMIC, GUARANTEES
- SEARCHING AND CONFIGURATING

2

PLUG IN - 3D BIM SW



- INSERTING MATERIALS, PRODUCTS, STRUCTURES
- ARCHICAD, REVIT, ALLPLAN

3

BIM CLOUD



- VISUALIZATION OF IFC MODEL
- SHARING AND ORGANIZING DATA
- VIEWING PROJECT COST IN 3D STRUCTURE
- CONNECTION TO THIRD-PARTY SOFTWARE

4

SPECIALIST'S SOFTWARE

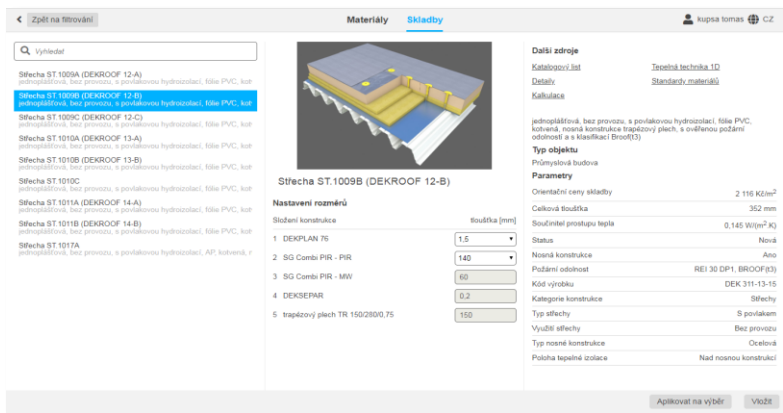


- COST AND TIME SCHEDULES
- ENERGETICS, THERMAL, ACOUSTICS, PHOTOVOLTAIC ...
- CONTRACTS, SITE DIARY, CHANGE ORDERS

1

LIBRARY

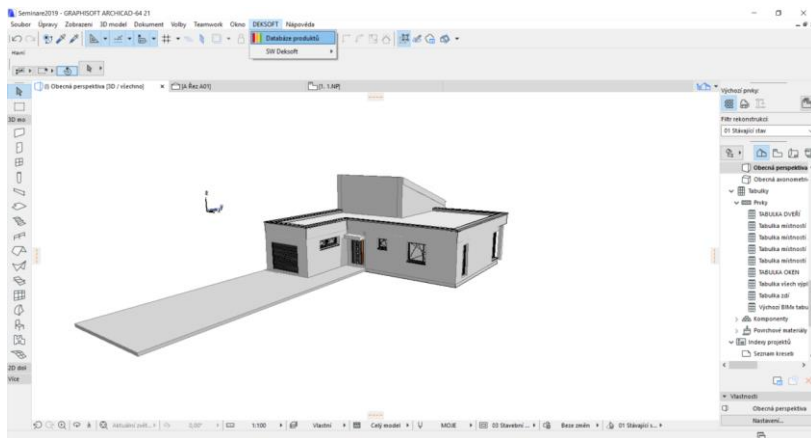
designer, manufacturer



2

PLUG IN - 3D BIM SW

designer



3

BIM CLOUD

designer, client, cost estimator, etc.



4

SPECIALIST'S SOFTWARE



cost estimator, ...

1

LIBRARY: ON WEBSITE: WWW.DEKSOFT.EU

DEKSOFT | Introduction

https://deksoft.eu/en/

DEKSOFT®

RUN PROGRAMS | CART | MY ACCOUNT | LOG OUT | English ▼

BIM SOLUTION AND QUICK COST ESTIMATOR

QUICK COST ESTIMATOR

DEK BIM PLATFORM

DEK BUILDING LIBRARY

MATERIAL STANDARDS

PROGRAMS FOR SPECIALISTS

INTRODUCTION NEWS PROGRAMS PRICELIST BIM CONTACTS



BIM DEKSOFT

- New generation of BIM DEKSOFT plug-in for Revit and Archicad
- Automatic material and structure generation from BIM DEKSOFT database
- New graphical user interface with extended filtering options
- Automatic duplicity control

[MORE DETAILS](#)

DEK Building Library

+

EN / -

Manufacturers list logos

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Active filters ▼

View items that do not contain the values needed for filtering Yes No

Show only favorite items Yes No

Category ▲

- Roofs (400)
- Facades (496)
- Partitions, drywall lining (340)
- Floors (224)
- Foundation waterproofing (24)
- Timber structures (48)

Parameters ▲

- Známa orientační cena za materiál a práci ▼
- Acoustic Rating [dB] ▼
- Combustible material ▼
- Fire separation structure ▼
- Load bearing ▼
- Fire rating ▼
- Building type ▼
- Roof type ▼

Most used

Střecha ST.8001A (DEKROOF 11-A)
dvouplášťová, bez provozu, se skládanou krytinou, DHV z AP, kotven

Podlaha PD.2003A (DEKFLOOR 04)
na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznaše

Střecha ST.1008A (DEKROOF 08-A)
jednoplášťová, bez provozu, s povlakovou hydroizolací, fólie PVC, př

Střecha ST.8003A (DEKROOF 17-A)
dvouplášťová, bez provozu, se skládanou krytinou, DHV z lehké fólie

Střecha ST.2005B (DEKROOF 09-B)
jednoplášťová, vegetační, s povlakovou hydroizolací, AP, lepená, nos

Next

1.1 Ytong Statik / 200mm
Tvárnice z autoklávaného pórobetonu kategorie I určené pro nosné

2.1 Silka S20-2000 + omítka
Skladba tvořená oboustranně omítnutou tvárnici Silka Tempo S20-20

2.2 Silka S20-2000 tl. 240 mm oboustranně omítnutá 25 mm TI
Skladba tvořená oboustranně omítnutou tvárnici Silka Tempo S20-20

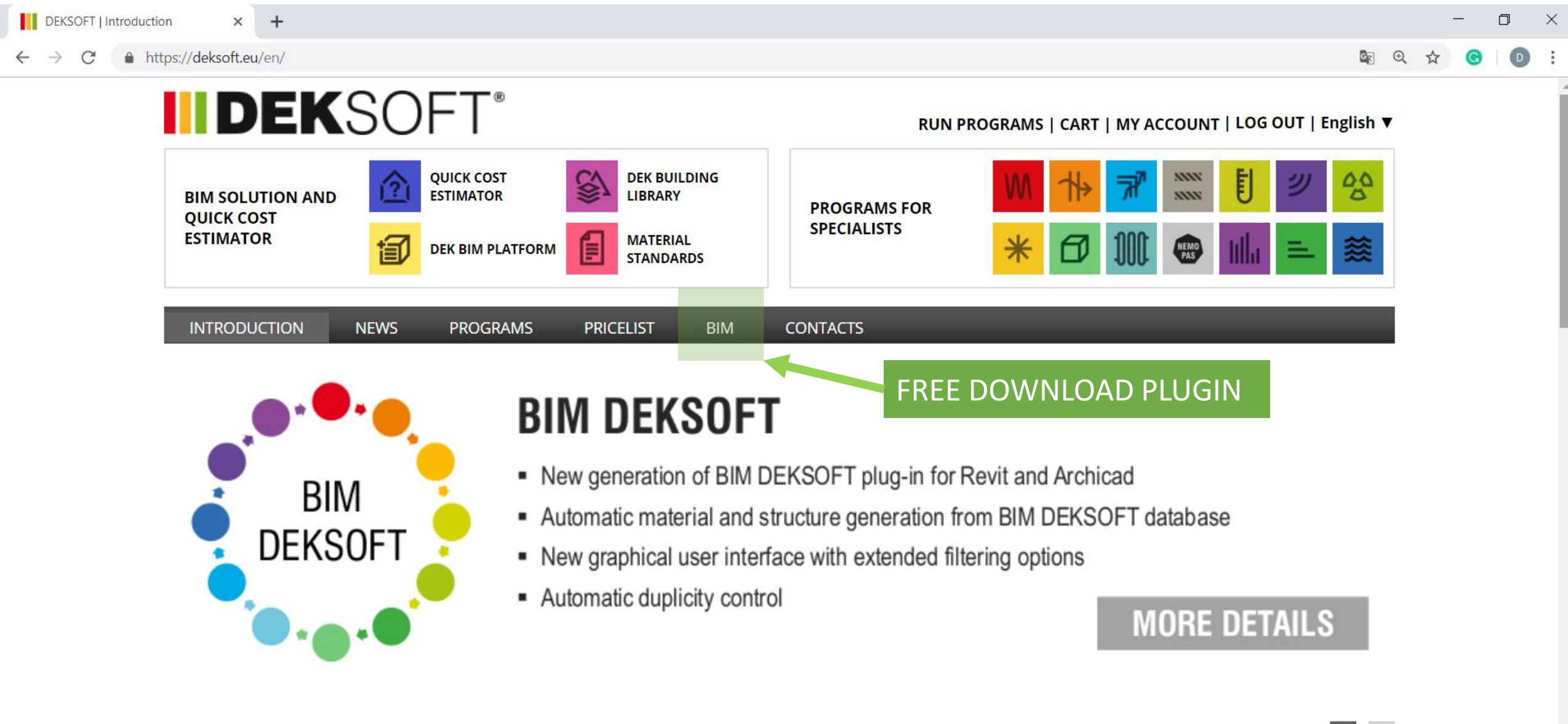
2.3 Ytong P2-500 tl. 150 mm + oboustranně Fermacell 12,5 mm na 30
Skladba tvořená tvárnici Ytong P2-500 s deskou Fermacell Vapor a s

2.5 Om. 10mm + YTONG 200 mm + Om.10 mm +40 mm MW +12,5 r
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik s minei

4.1 Ytong 150 mm omítnuto oboustr. 5 mm
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik.

4.2 (1.2) Ytong P2-500 tl. 125 mm + oboustranně omítka 20 mm
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik.

4.3 (1.4) Ytong P2-500 tl. 150 mm + jednostranně Fermacell 12,5 mm
Skladba tvořená jednostranně omítnutou tvárnici Ytong Klasik s desk



The screenshot shows the DEKSOFT website interface. At the top, there is a navigation bar with the DEKSOFT logo on the left and links for "RUN PROGRAMS", "CART", "MY ACCOUNT", "LOG OUT", and "English" on the right. Below the navigation bar, there are several menu items: "BIM SOLUTION AND QUICK COST ESTIMATOR", "QUICK COST ESTIMATOR", "DEK BIM PLATFORM", "DEK BUILDING LIBRARY", and "MATERIAL STANDARDS". To the right, there is a section for "PROGRAMS FOR SPECIALISTS" with various icons. A dark navigation bar contains links for "INTRODUCTION", "NEWS", "PROGRAMS", "PRICELIST", "BIM", and "CONTACTS". The "BIM" link is highlighted with a green box and an arrow pointing to a green callout box that says "FREE DOWNLOAD PLUGIN". Below the navigation bar, the "BIM DEKSOFT" section is displayed, featuring a circular logo with the text "BIM DEKSOFT" and a list of features. A "MORE DETAILS" button is located at the bottom right of the section.

DEKSOFT®

RUN PROGRAMS | CART | MY ACCOUNT | LOG OUT | English ▼

BIM SOLUTION AND QUICK COST ESTIMATOR

QUICK COST ESTIMATOR

DEK BIM PLATFORM

DEK BUILDING LIBRARY

MATERIAL STANDARDS

PROGRAMS FOR SPECIALISTS

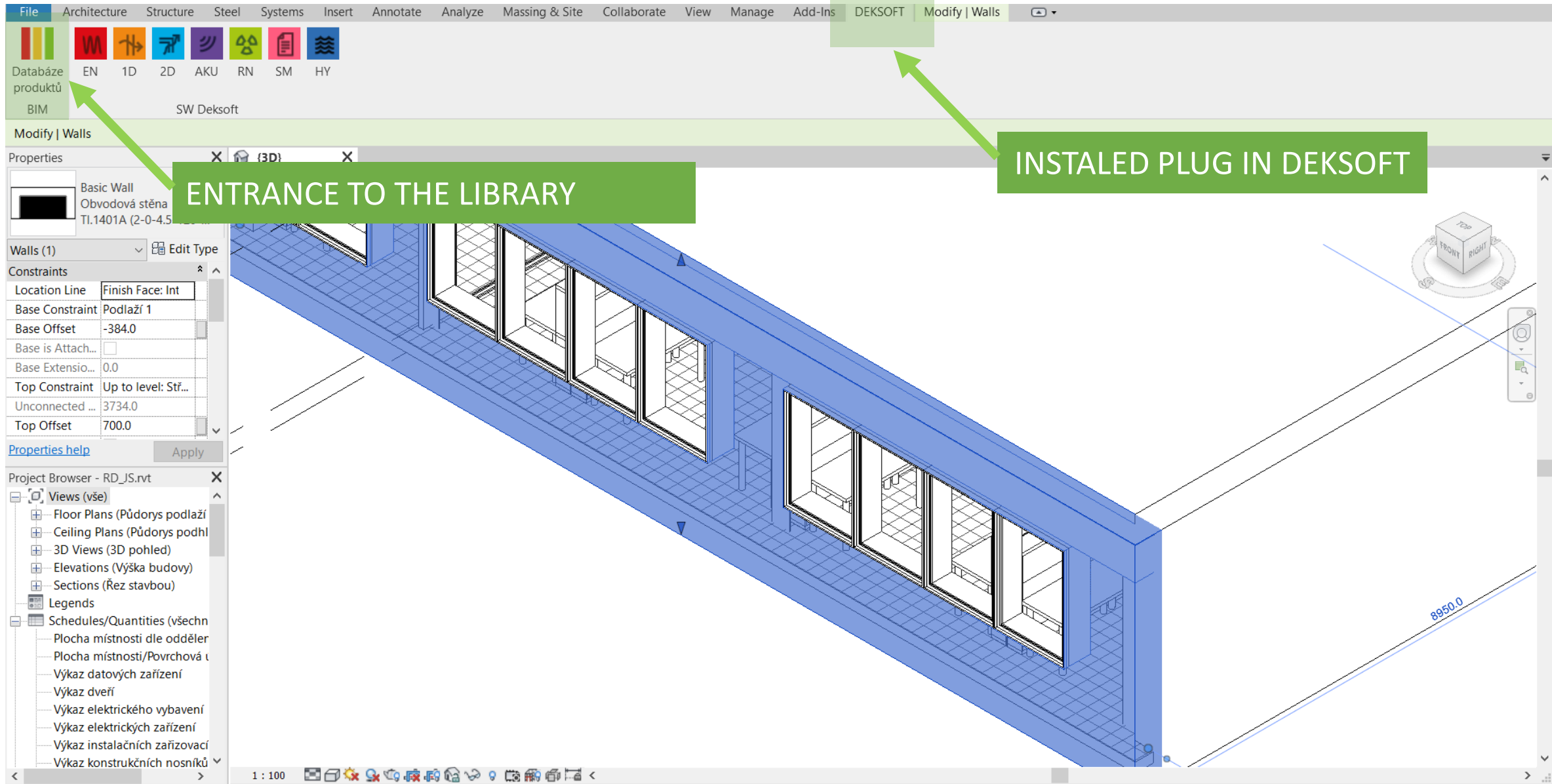
INTRODUCTION NEWS PROGRAMS PRICELIST **BIM** CONTACTS

BIM DEKSOFT

FREE DOWNLOAD PLUGIN

- New generation of BIM DEKSOFT plug-in for Revit and Archicad
- Automatic material and structure generation from BIM DEKSOFT database
- New graphical user interface with extended filtering options
- Automatic duplicity control

MORE DETAILS



2

LIBRARY - OPENED FROM PLUG IN (the same as

1

The screenshot displays the 'DEK Building Library' window within a software application. The window is titled 'DEK Building Library' and has a user profile 'Daniel Cihelka' and language 'EN / CZ' in the top right corner. The interface is divided into several sections:

- Manufacturers:** A grid of logos for various manufacturers including DEK STAVEBNINY, Isover SAINT-GOBAIN, Rigips SAINT-GOBAIN, weber SAINT-GOBAIN, BITUMAX, and BÖRNER.
- Active filters:** A section for filtering items, with options to 'View items that do not contain the values needed for filtering' (Yes/No) and 'Show only favorite items' (Yes/No).
- Category:** A list of categories with item counts: Roofs (375), Facades (479), Partitions, drywall lining (295), Floors (210), Foundation waterproofing (23), and Timber structures (46).
- Parameters:** A list of parameters such as 'Známa orientační cena za materiál a práci', 'Acoustic Rating [dB]', 'Combustible material', 'Fire separation structure', and 'Load bearing'.
- Most used:** A list of frequently used items, including 'Střecha ST.8001A (DEKROOF 11-A)', 'Podlaha PD.2003A (DEKFLOOR 04)', 'Střecha ST.1008A (DEKROOF 08-A)', 'Střecha ST.8003A (DEKROOF 17-A)', and 'Střecha ST.2005B (DEKROOF 09-B)'. Each item includes a brief description.
- Next:** A list of recommended items, including '1.1 Ytong Statik / 200mm', '2.1 Silka S20-2000 + omítka', '2.2 Silka S20-2000 tl. 240 mm oboustranně omítnutá', '2.3 Ytong P2-500 tl. 150 mm + oboustraně Fermacel', '2.5 Om. 10mm + YTONG 200 mm + Om.10 mm +40', and '4.1 Ytong 150 mm omítnuto oboustr. 5 mm'.

The background shows a 3D architectural model of a building with a roof and walls. The software interface includes a menu bar at the top with options like 'File', 'Architecture', 'Structure', 'Steel', 'Systems', 'Insert', 'Annotate', 'Analyze', 'Massing & Site', 'Collaborate', 'View', 'Manage', 'Add-Ins', 'DEKSOFT', and 'Modify | Walls'. The left sidebar contains a 'Project Browser' with a tree view of the project structure, including 'Views (vše)', 'Floor Plans (Půdorys)', 'Ceiling Plans (Půdorys)', '3D Views (3D pohled)', 'Elevations (Výška bud)', 'Sections (Řez stavbo)', 'Legends', 'Schedules/Quantities', and various 'Výkaz' (reports) for different building elements.

Materials **Structures**
EN / CZ

Manufacturers list logos

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

View items that do not contain the values needed for filtering Yes No

Show only favorite items Yes No

Category ▲

- Roofs (375)
- Facades (479)
- Partitions, drywall lining (295)
- Floors (210)
- Foundation waterproofing (23)
- Timber structures (46)

Parameters ▲

Známa orientační cena za materiál a práci ▼

Acoustic Rating [dB] ▲

30

min

max

30

77

77

Combustible material ▲

- No (954)
- Yes (122)

Fire separation structure ▲

- No (1054)
- Yes (190)

Load bearing ▼

Most used

Střecha ST.8001A (DEKROOF 11-A)
dvouplášťová, bez provozu, se skládanou krytinou, DHV z AP, kotvená, izolovaná, s povrchovou hydroizolací, roznášecí, izolační stěrka, roznášecí

Střecha ST.8003A (DEKROOF 17-A)
dvouplášťová, bez provozu, se skládanou krytinou, DHV z lehké fólie

1.1 Ytong Statik / 200mm
Tvárnice z autoklávaného pórobetonu kategorie I určené pro nosné

2.1 Silka S20-2000 + omítka
Skladba tvořená oboustranně omítnutou tvárnici Silka Tempo S20-20

2.2 Silka S20-2000 tl. 240 mm oboustranně omítnutá 25 mm TI
Skladba tvořená oboustranně omítnutou tvárnici Silka Tempo S20-20

2.3 Ytong P2-500 tl. 150 mm + oboustranně Fermacell 12,5 mm na 30
Skladba tvořená tvárnici Ytong P2-500 s deskou Fermacell Vapor a s

2.5 Om. 10mm + YTONG 200 mm + Om.10 mm +40 mm MW +12,5 i
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik s minei

4.1 Ytong 150 mm omítnuto oboustr. 5 mm
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik.

4.2 (1.2) Ytong P2-500 tl. 125 mm + oboustranně omítka 20 mm
Skladba tvořená oboustranně omítnutou tvárnici Ytong Klasik.

4.3 (1.4) Ytong P2-500 tl. 150 mm + jednostranně Fermacell 12,5 mm
Skladba tvořená jednostranně omítnutou tvárnici Ytong Klasik s desk

5.1 (7.1; 1.3) Ytong Klasik / 125 mm + Fermacell + MW
Skladba tvořená tvárnici Ytong Klasik s deskou Fermacell Vapor a mi

FILTER BY STRUCTURES

FILTER BY TECHNICAL INFORMATION

2 LIBRARY – examples of structures; floor

TECHNICAL INFORMATION

DEK Building Library

Back to filter

Materials Structures

EN / EN

Search

Most used

Podlaha PD.2003A (DEKFLOOR 04)
na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

Podlaha PD.2005A (DEKFLOOR 06)
na terénu, laminátová, roznášecí betonová mazanina s podlahovým v

Podlaha PD.2006A (DEKFLOOR 07)
na terénu, vinyl, roznášecí betonová mazanina, izolace z pěnového p

Podlaha PD.2009A (DEKFLOOR 36)
na stropě, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

MATERIALS IN THE STRUCTURE

Next

BITUMAX BSTS-PO-01-A
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze

BITUMAX BSTS-PO-02-A Podlaha
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze :

CETRIS IZOCET SP 45
Lehká plovoucí podlaha s dřevovláknitou izolací (hobrou).

CETRIS IZOCET SP 65
Lehká plovoucí podlaha se zdvojenou dřevovláknitou izolací (hobrou)

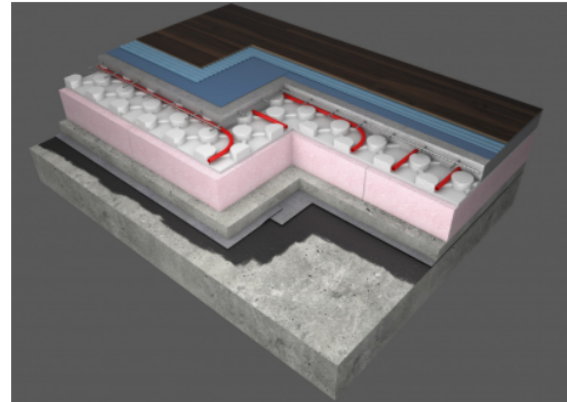
CETRIS PD 16-18 mm podlahová deska na záklopu
Cementotřískové desky CETRIS® PD uložené na nosném podkladu :

CETRIS PD 18-28 mm podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDB 16-18 mm broušená podlahová deska na záklopu
Cementotřískové desky CETRIS® PDB uložené na nosném podkladu

CETRIS PDB 18-32 (38) mm broušená podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDI podlahový izolační dílec



Podlaha PD.2005A (DEKFLOOR 06)

Dimensions settings

Structure composition	Thickness [mm]
1 Laminátová podlahová krytina	7,0
2 Tlumičí podložka	3,0
3 DEKSEPAR	0,2
4 roznášecí betonová mazanina	50
5 DEKPERIMETER PV-NR75	50
6 DEKPERIMETER SD 150	140
7 ochranná betonová mazanina	60

Sources

- Product data sheet
- Thermal Analysis 1D
- Details
- Materials standards

na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu

Building type

Family house, Apartment house, Office building

Parameters

Price for material and work	2 193 Kč/m ²
Total Thickness	314 mm
U-value	0,174 W/(m ² .K)
Status	New
Load bearing	No
Article Number	DEK 421-11-15
Structure category	Floors
Maximum uniformly distributed imposed load [kN.m-2]	3
Maximum concentrated imposed load [kN]	2
Room characteristics	Living room, Office
Space use type	Dry
Underfloor heating	Yes
Structure location	In contact with ground

Ignore layers

Apply to selection

Insert

2 LIBRARY – examples of structures; floor

DEK Building Library

— □ ×

< Back to filter

Materials Structures

EN / EN

Search

Most used

Podlaha PD.2003A (DEKFLOOR 04)
na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznášecí

Podlaha PD.2005A (DEKFLOOR 06)
na terénu, laminátová, roznášecí betonová mazanina s podlahovým v

Podlaha PD.2006A (DEKFLOOR 07)
na terénu, vinyl, roznášecí betonová mazanina, izolace z pěnového p

Podlaha PD.2009A (DEKFLOOR 36)
na stropě, keramická dlažba lepená, s hydroizolační stěrkou, roznášecí

Podlaha PD.2001A (DEKFLOOR 01)
na terénu, keramická dlažba lepená, roznášecí betonová mazanina, i

Next

BITUMAX BSTS-PO-01-A
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze

BITUMAX BSTS-PO-02-A Podlaha
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze :

CETRIS IZOCET SP 45
Lehká plovoucí podlaha s dřevovláknitou izolací (hobrou).

CETRIS IZOCET SP 65
Lehká plovoucí podlaha se zdvojenou dřevovláknitou izolací (hobrou)

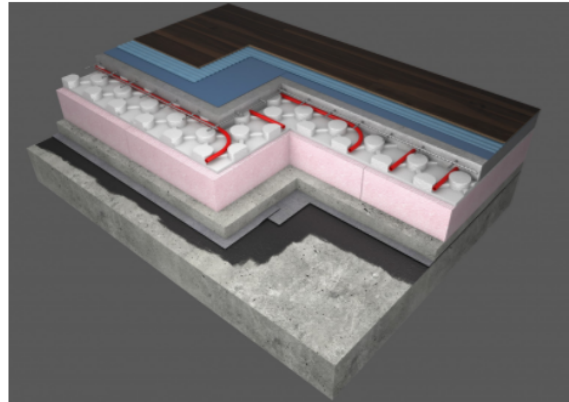
CETRIS PD 16-18 mm podlahová deska na záklopu
Cementotřískové desky CETRIS® PD uložené na nosném podkladu :

CETRIS PD 18-28 mm podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDB 16-18 mm broušená podlahová deska na záklopu
Cementotřískové desky CETRIS® PDB uložené na nosném podkladu

CETRIS PDB 18-32 (38) mm broušená podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDI podlahový izolační dílec



Podlaha PD.2005A (DEKFLOOR 06)

Dimensions settings

PRICE FOR MATERIAL AND WORK

1	Laminátová podlahová krytina	7,0
2	Tlumičí podložka	3,0
3	DEKSEPAR	0,2
4	roznášecí betonová mazanina	50
5	DEKPERIMETER PV-NR75	50
6	DEKPERIMETER SD 150	140
7	ochranná betonová mazanina	60

Sources

[Product data sheet](#)

[Thermal Analysis 1D](#)

[Details](#)

[Materials standards](#)

na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu

Building type

Family house, Apartment house, Office building

Parameters

Price for material and work 2 193 Kč/m²

Total Thickness 314 mm

U-value 0,174 W/(m².K)

Status New

Load bearing No

Article Number DEK 421-11-15

Structure category Floors

Maximum uniformly distributed imposed load [kN.m-2] 3

Maximum concentrated imposed load [kN] 2

Room characteristics Living room, Office

Space use type Dry

Underfloor heating Yes

Structure location In contact with ground

Ignore layers ---

Apply to selection

Insert

2 LIBRARY – examples of structures; floor

DEK Building Library

— □ ×

< Back to filter

Materials Structures

EN / EN

Search

Most used

Podlaha PD.2003A (DEKFLOOR 04)
na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

Podlaha PD.2005A (DEKFLOOR 06)
na terénu, laminátová, roznášecí betonová mazanina s podlahovým v

Podlaha PD.2006A (DEKFLOOR 07)
na terénu, vinyl, roznášecí betonová mazanina, izolace z pěnového p

Podlaha PD.2009A (DEKFLOOR 36)
na stropě, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

Podlaha PD.2001A (DEKFLOOR 01)
na terénu, keramická dlažba lepená, roznášecí betonová mazanina, i

Next

BITUMAX BSTS-PO-01-A
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze

BITUMAX BSTS-PO-02-A Podlaha
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze :

CETRIS IZOCET SP 45
Lehká plovoucí podlaha s dřevovláknitou izolací (hobrou).

CETRIS IZO
Lehká plovoucí

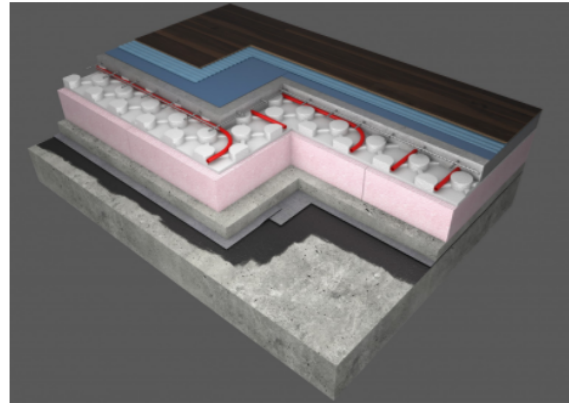
CETRIS PD 16-18 mm podlahová deska na záklopu
Cementotřískové desky CETRIS® PD uložené na nosném podkladu :

CETRIS PD 18-28 mm podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDB 16-18 mm broušená podlahová deska na záklopu
Cementotřískové desky CETRIS® PDB uložené na nosném podkladu

CETRIS PDB 18-32 (38) mm broušená podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDI podlahový izolační dílec



Podlaha PD.2005A (DEKFLOOR 06)

Dimensions settings

Structure composition Thickness [mm]

1 Laminátová podlahová krytina	7,0
	60
	80
	100
	120
	140
	160
	180
	200
	220
	240
4 roznášecí betonová mazanina	140
5 DEKPERIMETER PV-NR75	
6 DEKPERIMETER SD 150	
7 ochranná betonová mazanina	60

CHANGE THICKNESS OF THERMAL INSULATION



Sources

[Product data sheet](#)

[Thermal Analysis 1D](#)

[Details](#)

[Materials standards](#)

na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu

Building type

Family house, Apartment house, Office building

Parameters

Price for material and work 2 193 Kč/m²

Total Thickness 314 mm

U-value 0,174 W/(m².K)

Status New

Load bearing No

Article Number DEK 421-11-15

Structure category Floors

Maximum uniformly distributed imposed load [kN.m-2] 3

Maximum concentrated imposed load [kN] 2

Room characteristics Living room, Office

Space use type Dry

Underfloor heating Yes

Structure location In contact with ground

Ignore layers ---

Apply to selection

Insert

2 LIBRARY – examples of structures; floor

DEK Building Library

— □ ×

< Back to filter

Materials Structures

EN / EN

Search

Most used

Podlaha PD.2003A (DEKFLOOR 04)
na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

Podlaha PD.2005A (DEKFLOOR 06)
na terénu, laminátová, roznášecí betonová mazanina s podlahovým v

Podlaha PD.2006A (DEKFLOOR 07)
na terénu, vinyl, roznášecí betonová mazanina, izolace z pěnového p

Podlaha PD.2009A (DEKFLOOR 36)
na stropě, keramická dlažba lepená, s hydroizolační stěrkou, roznáše

Podlaha PD.2001A (DEKFLOOR 01)
na terénu, keramická dlažba lepená, roznášecí betonová mazanina, i

Next

BITUMAX BSTS-PO-01-A
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze

BITUMAX BSTS-PO-02-A Podlaha
na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze :

CETRIS IZOCET SP 45
Lehká plovoucí podlaha s dřevovláknitou izolací (hobrou).

CETRIS IZOCET SP 65
Lehká plovoucí podlaha se zdvojenou dřevovláknitou izolací (hobrou)

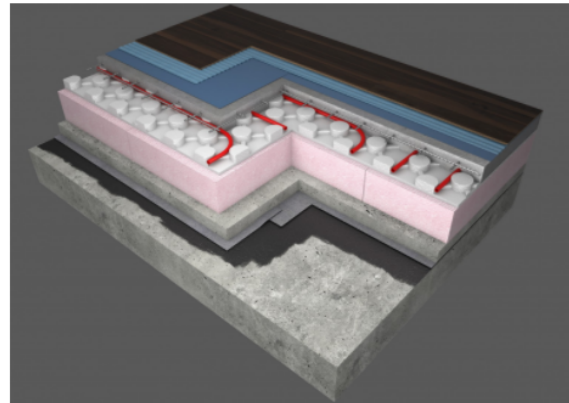
CETRIS PD 16-18 mm podlahová deska na záklopu
Cementotřískové desky CETRIS® PD uložené na nosném podkladu :

CETRIS PD 18-28 mm podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDB 16-18 mm broušená podlahová deska na záklopu
Cementotřískové desky CETRIS® PDB uložené na nosném podkladu

CETRIS PDB 18-32 (38) mm broušená podlahová deska na nosnících
Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot

CETRIS PDI podlahový izolační dílec



Podlaha PD.2005A (DEKFLOOR 06)

Dimensions settings

Structure composition	Thickness [mm]
1 Laminátová podlahová krytina	7,0
2 Tlumičí podložka	3,0
3 DEKSEPAR	0,2
4 roznášecí betonová mazanina	50
5 DEKPERIMETER PV-NR75	50
6 DEKPERIMETER SD 150	180
7 ochranná betonová mazanina	60

Sources

[Product data sheet](#)

[Thermal Analysis 1D](#)

[Details](#)

[Materials standards](#)

na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu

Building type

Family house, Apartment house, Office building

Parameters

Price for material and work

2 357 Kč/m²

CHANGED PRICE

354 mm

0,145 W/(m².K)

Status

New

Load bearing

No

Article Number

DEK 421-11-15

Structure category

Floors

Maximum uniformly distributed imposed load [kN.m-2]

3

Maximum concentrated imposed load [kN]

2

Room characteristics

Living room, Office

Space use type

Dry

Underfloor heating

Yes

Structure location

In contact with ground

Ignore layers ---

Apply to selection

Insert

LIBRARY – examples of structures; masonry

DEK Building Library

< Back to filter

Materials **Structures**

EN / EN

Search

Most used

Wienerberger ST 1.1b Wall Porotherm 44 T Profi
Porotherm 44 T Profi clay blocks are used for single layer coated load t

Wienerberger ST 1.1c Wall Porotherm 44 T Profi, paint
Interior plaster and paint for clay blocks wall.

Next

ST 1.1a Wall Porotherm 44 T Profi, tiles
Exterior tiles for clay blocks wall.

Wienerberger ST 1.1 Plinth Porotherm 38 TS Profi, plaster, paint
Porotherm 38 TS Profi clay blocks with plasterwork on both sides for pa

Wienerberger ST 1.1a Wall Porotherm 44 T Profi, plaster
Exterior plaster for clay blocks wall.

Wienerberger ST 1.1c Wall Porotherm 44 T Profi, tiles
Interior tiles for clay blocks wall.

Wienerberger ST 1.2 Lintel Porotherm KP 7
Porotherm 44 Profi Dryfix hollow clay blocks are used for single layer c

Wienerberger ST 1.2 Lintel Porotherm KP Vario UNI
Reinforced concrete bond beam.

Wienerberger ST 1.2 Plinth Porotherm 25 AKU Z Profi, plaster, paint
Porotherm 25 AKU T clay blocks with plasterwork on both sides for part

Wienerberger ST 1.2 Wall Porotherm 30 T Profi, plaster, paint
Porotherm 30 T Profi clay blocks are used for single layer coated load t

Wienerberger ST 1.2 Wall Porotherm 30 T Profi, tiles, paint
Porotherm 30 T Profi clay blocks are used for single layer coated load t

Wienerberger ST 2.3 Bond beam
Reinforced concrete bond beam.



Wienerberger ST 1.1 Plinth Porotherm 38 TS Profi, plaster, paint

Dimensions settings

Structure composition

1 Baunit NanoporTop

2 PremiumPrimer

3 Baunit MultiRenova

4 StarTex

Thickness [mm]

INSERT INTO THE MODEL

0

3,0

Porotherm 38 TS Profi clay blocks with plasterwork on both sides for partitions with higher acoustics requirements or for external wall combined with thermal insulation.

Building type

Family house, Apartment house

Parameters

Price for material and work 3 902 Kč/m²

Total Thickness 491 mm

U-value 0,134 W/(m².K)

Status New

Combustible material No

Fire separation structure Yes

Load bearing Yes

Manufacturer Wienerberger

Structure category Facades

Ignore layers ---

Apply to selection

Insert

PLUG IN - 3D BIM SW – after application into the model

The screenshot shows the 'Edit Assembly' dialog box for a wall assembly. The dialog is titled 'Edit Assembly' and shows the following details:

- Family: Basic Wall
- Type: Wienerberger ST 1.1 Plinth Porotherm 38 TS Profi, plaster, paint (2-0-3-30-2-60-4-380-10-0-0) #DSID1296#
- Total thickness: 491.0
- Resistance (R): 7.6327 (m²·K)/W
- Thermal Mass: 24.81 kJ/K
- Sample Height: 6000.0

The 'Layers' section shows a table of the wall assembly layers, divided into 'EXTERIOR SIDE' and 'INTERIOR SIDE'. A green arrow points to the 'Core Boundary' layer (Layer 7 and 10).

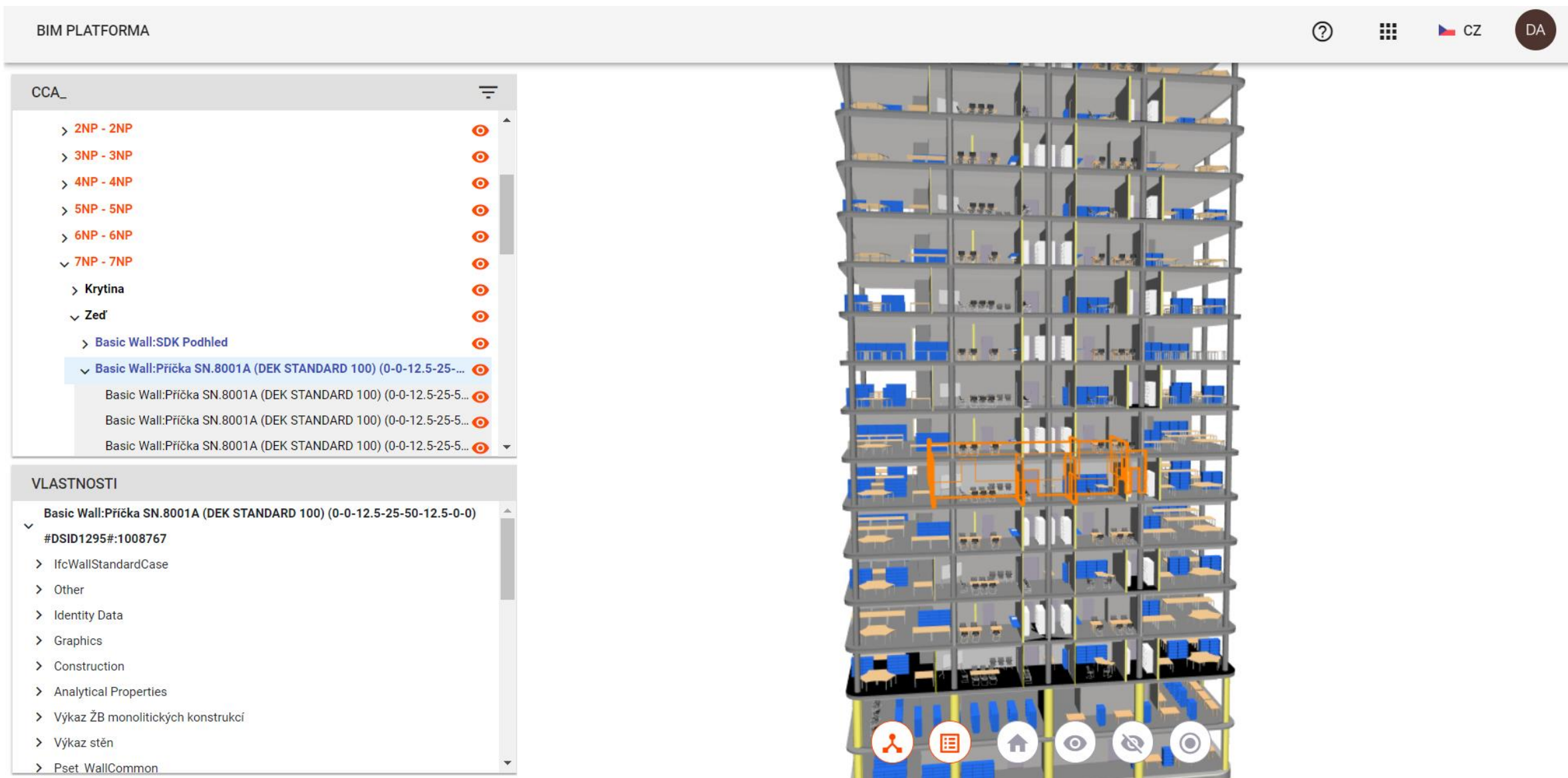
EXTERIOR SIDE					
	Function	Material	Thickness	Wraps	Structural Material
1	Finish 1 [4]	Baumit NanoporTop	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Membrane Layer	PremiumPrimer	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Finish 1 [4]	Baumit MultiRenova	3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Finish 1 [4]	Baumit Termo omítka	30.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Finish 1 [4]	Baumit přednástrík 2mm	2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Thermal/Air Layer [3]	FIBRAN XPS 300-L	60.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Core Boundary	Layers Above Wrap	0.0		
8	Thermal/Air Layer [3]	ELASTEK 40 SPECIAL MINERAL	4.0	<input type="checkbox"/>	<input type="checkbox"/>
9	Structure [1]	Porotherm 38 TS Profi	380.0	<input type="checkbox"/>	<input type="checkbox"/>
10	Core Boundary	Layers Below Wrap	0.0		

Below the table, there are controls for 'INTERIOR SIDE' (Insert, Delete, Up, Down), 'Default Wrapping' (At Inserts: Both, At Ends: None), and 'Modify Vertical Structure (Section Preview only)' (Modify, Merge Regions, Sweeps, Assign Layers, Split Region, Reveals). At the bottom, there is a '<< Preview' button and 'OK', 'Cancel', and 'Help' buttons.

A green box with white text says: **INSERTED MATERIALS WITH THEIR TECHNICAL PROPERTIES**

3 BIM CLOUD – WWW.BIMPLATFORMA.CZ

Sharing model, project documentation, ifc viewer, etc.



BIM PLATFORMA ? CZ DA

CCA_

- > 2NP - 2NP
- > 3NP - 3NP
- > 4NP - 4NP
- > 5NP - 5NP
- > 6NP - 6NP
- ▼ 7NP - 7NP
- > Krytina
- ▼ Zed'
- > Basic Wall:SDK Podhled
- ▼ Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-...
- Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-5...
- Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-5...

VLASTNOSTI

Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)

#DSID1295#:1008767

- > IfcWallStandardCase
- > Other
- > Identity Data
- > Graphics
- > Construction
- > Analytical Properties
- > Výkaz ŽB monolitických konstrukcí
- > Výkaz stěn

STRUCTURE FROM THE MODEL

GROUPED THE SAME ELEMENTS

MATERIÁLY ÚRS OCENĚNÍ CENA Z ROZPOČTU

Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)	224,024 m ²	200 002,99 Kč
TOTAL PRICE		
Dvojnásobné bílé malby ze směsi za sucha dobře oteřuvzdorných v místnostech do 3,80 m		m ²
Základní akrylátová jednonásobná penetrace podkladu v místnostech výšky do 3,80m		m ²
Montáž desek tl 12,5 mm SDK příčka		m ²
deska SDK A tl 12,5mm		m ²
Montáž nosné konstrukce z jednoduchých profilů CW+UW SDK příčka		m ²
profil vodící stěnový UW 75		m

COST ESTIMATE FOR ELEMENTS (ITEMS ÚRS - CONSTRUCTION AND WORKS)

ZAPIŠ DO ROZPOČTU

INSERT INTO SW KROS 4

SW KROS 4 – COST ESTIMATING / COST ACCOUNTING

Cost estimate for **each group** of the same elements:

- adjusting items - add, delete, change prices, cost account, etc.

01 - SO1 from construction 2019_005 - Administrativní komplex - CENKROS 4

Support until: 31.12.2019

1. version - Nabídkový rozpočet [tender] (21. 5. 2019)

Review	O	F	S	No.	T	Item number	Description	Unit	Quantity	Delivery unit price	Assembly unit price	Indexed unit price	Price index	Total delivery	Total assembly	Total price
D4 - 7NP - 7NP					D	D4	7NP - 7NP							111 838,55	160 303,37	272 141,92
D2 - Zed'					D	D2	Zed'							111 838,55	160 303,37	272 141,92
D5 - Basic Wall:Přička...					D	D5	Basic Wall:Přička SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)	m2	224,024			865,78	1,000	70 718,87	123 235,61	193 954,48
D6 - Basic Wall:SD...					D	D6	Basic Wall:SDK 200 kancelář	m2	49,583			1 576,90	1,000	41 119,68	37 067,76	78 187,44
				1	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	224,024	0,00	32,00	32,00	1,000	0,00	7 168,77	7 168,77
				2	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	224,024	0,00	14,90	14,90	1,000	0,00	3 337,96	3 337,96
				3	K	763111621	Installation boards th 12.5 mm, plasterboard partition wall	m2	224,024	0,00	108,00	108,00	1,000	0,00	24 194,59	24 194,59
				4	M	59030021	board sdk A tl 12,5mm	m2	246,426	74,30	0,00	74,30	1,000	18 309,45	0,00	18 309,45
				5	K	763111611	Installation supporting structure of simple profiles CW+UW plasterboard partition wall	m2	224,024	0,00	320,00	320,00	1,000	0,00	71 687,68	71 687,68
				6	M	59030043	profile guide wall UW 75	m	179,219	34,40	0,00	34,40	1,000	6 165,13	0,00	6 165,13
				7	M	59030046	wall profile CW 75	m	448,047	39,50	0,00	39,50	1,000	17 697,86	0,00	17 697,86
				8	M	63150966	strip thermal insulation partition acoustic λ = 0.036-0.037 tl 50mm	m2	228,504	44,80	0,00	44,80	1,000	10 236,98	0,00	10 236,98
				9	K	763111742	Installation of single layer of insulation to plasterboard partition wall	m2	224,024	0,00	28,30	28,30	1,000	0,00	6 339,88	6 339,88
				10	M	59030021	board sdk A tl 12,5mm	m2	246,426	74,30	0,00	74,30	1,000	18 309,45	0,00	18 309,45
				11	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	224,024	0,00	14,90	14,90	1,000	0,00	3 337,96	3 337,96
				12	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	224,024	0,00	32,00	32,00	1,000	0,00	7 168,77	7 168,77
				13	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	49,583	0,00	32,00	32,00	1,000	0,00	1 586,66	1 586,66
				14	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	49,583	0,00	14,90	14,90	1,000	0,00	738,79	738,79

Total price 272 141,92 ZRN 272 141,92 VRN 0,00 HZS 0,00 KČ 0,00 Others 0,00 Weight 9,771 Rubble 0,000 Man-hours 352,848

Price list of works Price list of materials Producers price lists Budget Estimation Budget spending Production invoice

STRUCTURE FROM THE MODEL



SW KROS 4 – COST ESTIMATING / COST ACCOUNTING

01 - SO1 from construction 2019_005 - Administrativní komplex - CENKROS 4

Support until: 31.12.2019

Connect to model Estimate model Platforma Send prices to Platforma

Layout: Default 1. version - Nabídkový rozpočet [tender] (21. 5. 2019)

Review

D4 - 7NP - 7NP

D2 - Zeď

D5 - Basic Wall:Příčka

D6 - Basic Wall:SD...

SEND FINAL PRICES INTO THE BIM CLOUD

O	F	S	No.				Delivery unit price	Assembly unit price	Indexed unit price	Price index	Total delivery	Total assembly	Total price		
				D	D5	Basic Wall:Příčka SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)	m2	224,024		865,78	1,000	111 838,55	160 303,37	272 141,92	
											111 838,55	160 303,37	272 141,92		
											70 718,87	123 235,61	193 954,48		
			1	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	224,024	0,00	32,00	32,00	1,000	0,00	7 168,77	7 168,77
			2	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	224,024	0,00	14,90	14,90	1,000	0,00	3 337,96	3 337,96
			3	K	763111621	Installation boards th 12.5 mm, plasterboard partition wall	m2	224,024	0,00	108,00	108,00	1,000	0,00	24 194,59	24 194,59
			4	M	59030021	board sdk A tl 12,5mm	m2	246,426	74,30	0,00	74,30	1,000	18 309,45	0,00	18 309,45
			5	K	763111611	Installation supporting structure of simple profiles CW+UW plasterboard partition wall	m2	224,024	0,00	320,00	320,00	1,000	0,00	71 687,68	71 687,68
			6	M	59030043	profile guide wall UW 75	m	179,219	34,40	0,00	34,40	1,000	6 165,13	0,00	6 165,13
			7	M	59030046	wall profile CW 75	m	448,047	39,50	0,00	39,50	1,000	17 697,86	0,00	17 697,86
			8	M	63150966	strip thermal insulation partition acoustic $\lambda = 0.036-0.037$ tl 50mm	m2	228,504	44,80	0,00	44,80	1,000	10 236,98	0,00	10 236,98
			9	K	763111742	Installation of single layer of insulation to plasterboard partition wall	m2	224,024	0,00	28,30	28,30	1,000	0,00	6 339,88	6 339,88
			10	M	59030021	board sdk A tl 12,5mm	m2	246,426	74,30	0,00	74,30	1,000	18 309,45	0,00	18 309,45
			11	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	224,024	0,00	14,90	14,90	1,000	0,00	3 337,96	3 337,96
			12	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	224,024	0,00	32,00	32,00	1,000	0,00	7 168,77	7 168,77
				D	D6	Basic Wall:SDK 200 kancelář	m²	49,583			1 576,90	1,000	41 119,68	37 067,76	78 187,44
			13	K	784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m2	49,583	0,00	32,00	32,00	1,000	0,00	1 586,66	1 586,66
			14	K	784181101	Base acrylic single penetration of surface in rooms H to 3.80	m2	49,583	0,00	14,90	14,90	1,000	0,00	738,79	738,79
						SDK příčka tl 125 mm, profil CW+UW 100, deska 2xDF 12,5									

Total price ZRN 272 141,92 VRN 0,00 HZS 0,00 KČ 0,00 Others 0,00 Weight 9,771 Rubble 0,000 Man-hours 352,848

Price list of works Price list of materials Producers price lists Budget Estimation Budget spending Production invoice

Checked: 0/19 150 %

The screenshot displays the BIM PLATFORMA web application interface. The main view is a 3D cutaway model of a multi-story office building. On the left, a tree view shows the project structure, including floors (2NP-2NP to 7NP-7NP) and various wall types. A green arrow points from the selected wall element in the tree to the 3D model. A green callout box with white text is overlaid on the model, stating: "CLIENT CAN VIEW THE MODEL AND SEE CONSTRUCTION COST OF EACH ELEMENT". At the bottom left, a "VLASTNOSTI" (Properties) panel shows details for the selected wall element, including its name, tag, and object type.

BIM PLATFORMA

CCA_

- > 2NP - 2NP
- > 3NP - 3NP
- > 4NP - 4NP
- > 5NP - 5NP
- > 6NP - 6NP
- > 7NP - 7NP 272 142 Kč
- > Krytina
- > Zed'
- > Basic Wall:SDK Podhled
- > Basic Wall:Přička SN.8001A (DEK STANDARD 10... 193 954 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 50 917 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 14 258 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 51 447 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 12 214 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 12 214 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 17 635 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 17 635 Kč
- Basic Wall:Přička SN.8001A (DEK STANDARD 10... 17 635 Kč
- > Basic Wall:SDK 200 kancelář 78 187 Kč
- > Basic Wall:SDK 100
- > Basic Wall:ŽB Stěna_200
- > Basic Wall:SDK 200 WC

VLASTNOSTI

- Basic Wall:Přička SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)
- #DSID1295#:1008773
- lfcWallStandardCase
- GlobalId 0_OZGrcmLBbeHaT8K0fdI5
- Name Basic Wall:Přička SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)
- #DSID1295#:1008773
- Tag 1008773
- ObjectType Basic Wall:Přička SN.8001A (DEK STANDARD 100) (0-0-12.5-25-50-12.5-0-0)

CLIENT CAN VIEW THE MODEL AND SEE CONSTRUCTION COST OF EACH ELEMENT

The screenshot displays the BIM PLATFORMA web interface. The main view is a 3D cutaway model of a multi-story building with various rooms and furniture. A green callout box with white text points to a specific element in the model, stating: "COST WHICH DOES NOT HAVE GRAPHIC ELEMENT IN THE MODEL".

On the left side, there is a navigation tree and a cost breakdown table. The navigation tree includes categories like Schody, Sloup, Dveře, Prostor, and various floor levels (8NP - 18NP). The cost breakdown table is as follows:

Category	Cost (Kč)
Ostatní náklady	29 850 000 Kč
Earthworks	850 000 Kč
Site transport, scaffolding	5 500 000 Kč
Site facilities	14 500 000 Kč
Documentation, final design	3 500 000 Kč
Other cost	5 500 000 Kč

Below the cost table, there is a section for properties (VLASTNOSTI) for a specific wall element, showing details like GlobalId, Name, Tag, and ObjectType.

ALSO FOR 2D PROJECT

CONSTRUCTION FOR 2D PROJECT



LIBRARY

DEK Building Library

Back to filter

Materials Structures

EN / EN

Search

Most used

- Podlaha PD.2003A (DEKFLOOR 04) na terénu, keramická dlažba lepená, s hydroizolační stěrkou, roznášecí
- Podlaha PD.2005A (DEKFLOOR 06) na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu**
- Podlaha PD.2006A (DEKFLOOR 07) na terénu, viny, roznášecí betonová mazanina, izolace z pěnového polystyrenu
- Podlaha PD.2009A (DEKFLOOR 36) na stropě, keramická dlažba lepená, s hydroizolační stěrkou, roznášecí
- Podlaha PD.2001A (DEKFLOOR 01) na terénu, keramická dlažba lepená, roznášecí betonová mazanina, izolace z pěnového polystyrenu

Next

- BITUMAX BSTS-PO-01-A na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze zbitu
- BITUMAX BSTS-PO-02-A Podlaha na terénu, nosná železobetonová konstrukce, hydroizolační vrstva ze zbitu
- CETRIS IZOCET SP 45 Lehká plovoucí podlaha s dřevotřískotou izolací (hobrou).
- CETRIS IZOCET SP 65 Lehká plovoucí podlaha se zdvojenou dřevotřískotou izolací (hobrou).
- CETRIS PD 16-18 mm podlahová deska na záklupu Cementotřískové desky CETRIS® PD uložené na nosném podkladu.
- CETRIS PD 18-28 mm podlahová deska na nosnících Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot
- CETRIS PDB 16-18 mm broušená podlahová deska na záklupu Cementotřískové desky CETRIS® PDB uložené na nosném podkladu.
- CETRIS PDB 18-32 (38) mm broušená podlahová deska na nosnících Klasická pevná konstrukce podlah se skládá z nosníků jedno nebo ot
- CETRIS PDI podlahová izolační fólie

Podlaha PD.2005A (DEKFLOOR 06)

Sources

- Product data sheet Thermal Analysis 1D
- Details Materials standards

na terénu, laminátová, roznášecí betonová mazanina s podlahovým vytápěním, izolace z pěnového polystyrenu

Building type

Family house, Apartment house, Office building

Parameters

Price for material and work	2 357 Kč/m ²
Total Thickness	354 mm
U-value	0,145 W/(m ² ·K)
Status	New
Load bearing	No

Dimensions settings

Structure composition Thickness [mm]

1 Laminátová podlahová krytina	7,0
2 Tlumící podložka	3,0
3 DEKSEPAR	0,2
4 roznášecí betonová mazanina	50
5 DEKPERIMETER PV-NR75	50
6 DEKPERIMETER SD 150	180
7 ochranná betonová mazanina	60

Ignore layers Apply to selection Insert

CHOOSE AND APPLY STRUCTURES IN SW KROS 4



COST ESTIMATING SW

KROS 4

Reviz	O	F	S	T	No.	Item number	Description	Unit	Quantity	Price	Value	...
D4						D4	ZNP - ZNP					
D5						D5	Basic Wall-PT... (0-12.5-25-58-12.5-0-0)	m ²	224,024	0,00	224,024	
K						784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m ²	224,024	0,00	224,024	
K						784181101	Base acrylic single penetration of surface in rooms H to 3.80	m ²	224,024	0,00	224,024	
M						59030021	board silk A II 12,5mm	m ²	246,426	74,30	18 309,45	
K						783111621	Installation supporting structure of simple profiles CW+LW plasterboard partition wall	m ²	224,024	0,00	224,024	
M						59030043	profile guide wall LW 75	m	179,219	34,40	6 165,13	
M						59030046	wall profile CW 75	m	448,047	39,50	17 697,86	
M						63150966	strip thermal insulation partition acoustic λ = 0.036-0.037 II 50mm	m ²	228,504	44,80	10 236,98	
K						783111742	Installation of single layer of insulation to plasterboard partition wall	m ²	224,024	0,00	224,024	
M						59030021	board silk A II 12,5mm	m ²	246,426	74,30	18 309,45	
K						784181101	Base acrylic single penetration of surface in rooms H to 3.80	m ²	224,024	0,00	224,024	
K						784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m ²	224,024	0,00	224,024	
D6						D6	Basic Wall-SDK 200 kancelář	m ³	49,583	1 576,90	78 187,44	
K						784221101	Double white painting from mixture of dry well abrasion-resistant in rooms H to 3.80 m	m ²	49,583	0,00	49,583	
K						784181101	Base acrylic single penetration of surface in rooms H to 3.80	m ²	49,583	14,90	738,79	

Total price: 272 141,92

Price list of works Price list of materials Producers price lists Budget Estimation Budget spending Production invoice

OVERVIEW AND OUTLOOK

OVERVIEW



- Current SW can be used
 - Designer – 3D BIM SW
 - Cost estimator – Cost estimating SW
- Designers can easily use library for specification, see actual prices of both works and materials during creating models
- Cost estimators can take off quantity, view 3D model, and have prepared items for cost estimate in structure which they know
- Clients can view 3D model **with cost**
- Free Library, free BIM cloud, compatible with IFC



- Verification on pilot projects
 - The main issue is the quality of models – the principles of modeling elements, level of the detail according to design, etc.

- Adaptation to the Czech BIM Classification - depending on the outputs of Czech authorities (Government strategy to implement BIM for big public work since 2022). There is no mandatory classification now.

- Next SW and data development
 - Time scheduling
 - Life-cycle costs, environmental cost
 - etc.

Thank you for your attention



CONTACT

Ing. Daniel Cihelka

Project manager

00 420 724 585 843

daniel.cihelka@urs.cz

