

SYMETRI

PART OF ADDNODE GROUP

NAVIATE ZERO

NICOLAI KARVED

EMNER

01

DEKARBONISERING

Symetris mission mod
dekarbonisering

02

INTRODUKTION AF NAVIATE ZERO

Introduktion og nøglefunktioner

03

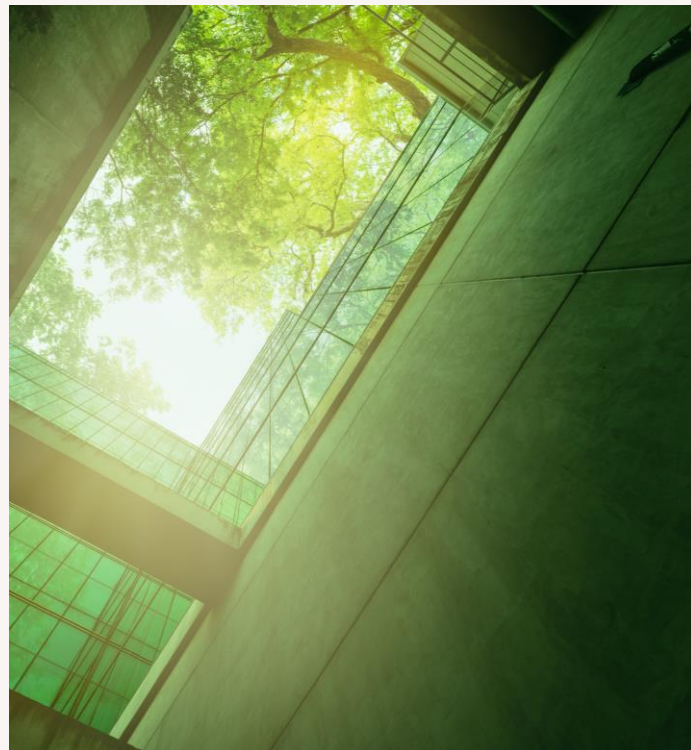
RESUMÉ

Vigtige konklusioner



MISSION

Symetri er engageret i at drive bæredygtighed i branchen baseret på vores banebrydende teknologi og ekspertise, og vi er dedikerede til at påvirke markedet positivt gennem vores fokus på dekarbonisering.



VORES HANDLINGER TALER FOR SIG SELV

SYMETRI

ADDNODE GROUP

+

One Click **LCA**

Symetri Partnerskab

Dette er et eksklusivt partnerskab, der gavner vores kunder direkte.



NAVIATE[®]

ZERO

POWERED BY
ONE CLICK LCA

Symetri Technology

Foretag smarte, bæredygtige materialevalg på en nem måde direkte i din Revit-model.



Partnere



Forskning



Kundeorienterede
løsninger & tjenester

Symetri R&D

Co-Innovation Practice

Udvikler bæredygtige, innovative løsninger for at imødekomme fremtidens behov i de samfund, vi betjener, samtidig med at vi arbejder smartere.

02

INTRODUKTION AF NAVIATE ZERO



Introduktion og nøglefunktioner

UPFRONT CARBON INPUT CARBON FOOTPRINT

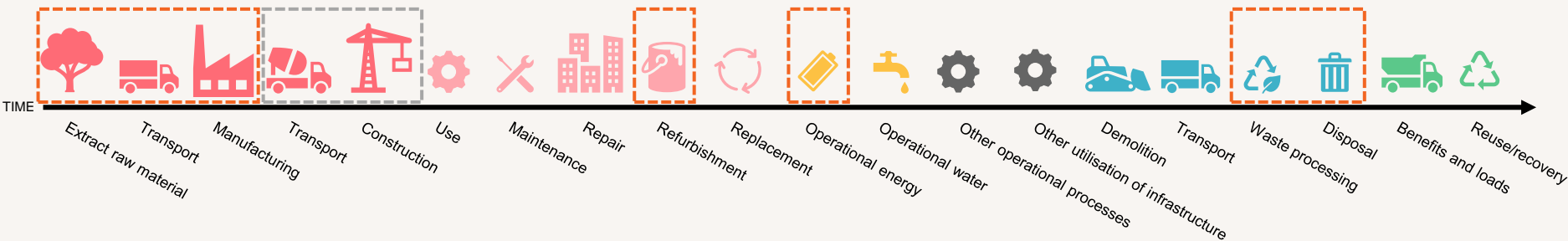
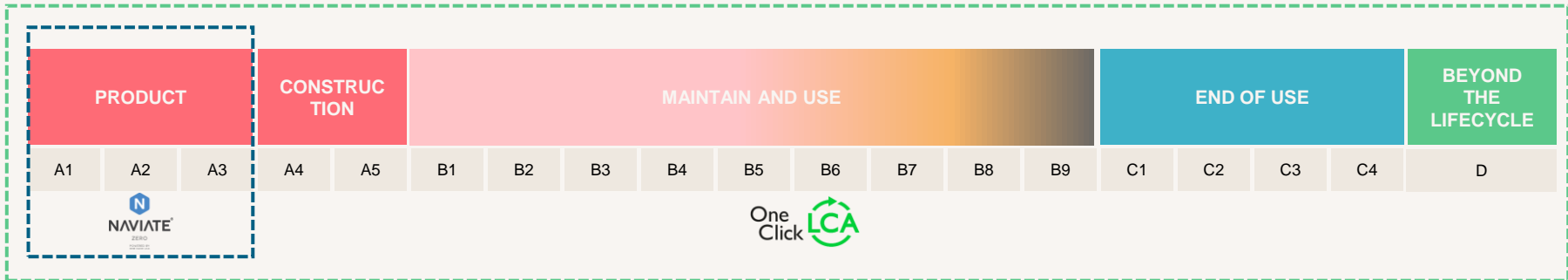
IN-USE EMBODIED CARBON FOOTPRINT

IN-USE OPERATIONAL CARBON FOOTPRINT

OUT OF SCOPE USER CARBON

END-OF-LIFE EMBODIED CARBON FOOTPRINT

BEYOND BUILDING LIFECYCLE CIRCULAR ECONOMY



● ——— Cradle to gate ——— ●

● ——— Cradle to practical completion ——— ●

● ——— Cradle to grave ——— ●

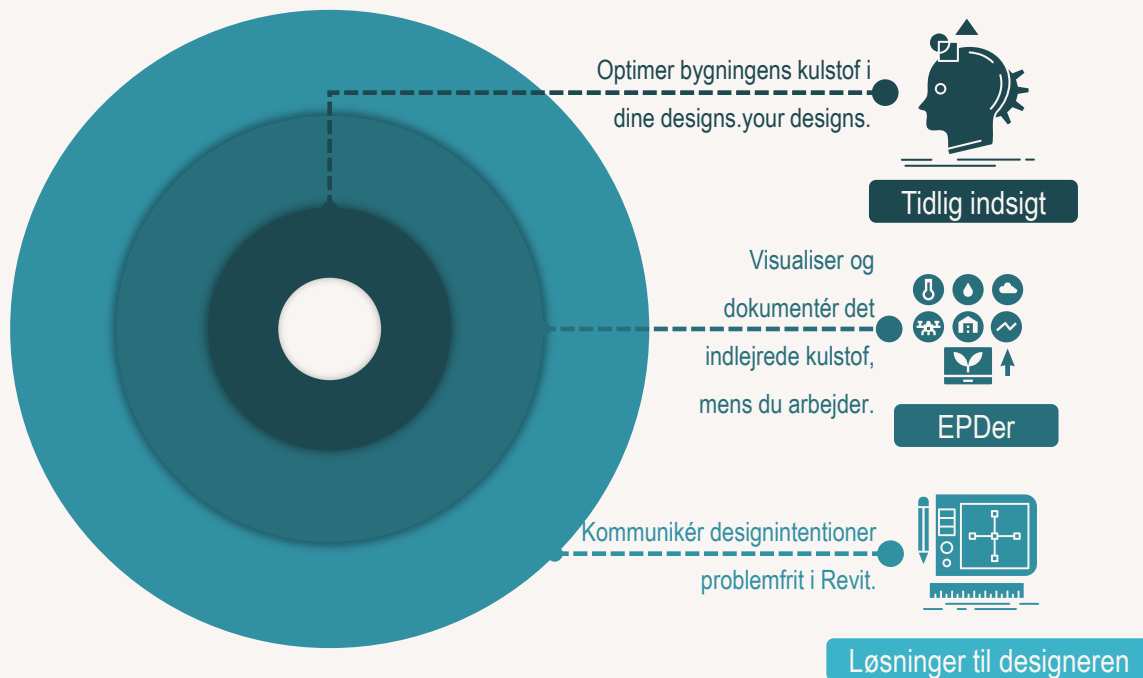
● ——— Cradle to cradle ——— ●

Life cycle stages for building products. Based on EN 15978:2011 and ISO 21930:2017.

HVORFOR NAVIATE ZERO?

En platform der:

- Forenkler valget af bæredygtige materialer
- Giver optimering af bygningens kulstofudledning lige ved hånden
- Understøtter problemfrit BIM-samarbejde



NAVIATE ZERO (NZ) DEMONSTRATIONER

NAVIATE ZERO DEMO

VÆLG OG FILTRER ELEMENTER

- Forbedr udvælgelsesprocessen ved at give anvænderne kontrol og klarhed over de enkelte elementer.



NAVIATE ZERO DEMO

FIND OG ANVEND RESSOURCER

- De avancerede filtre og fortlægningsværktøjer gør det nemt at søge efter ressourcer. Find det, du har brug for, hurtigt og effektivt.



NAVIATE ZERO DEMO

VIS OG SAMMENLIGN DETALJER

- Tag informatione beslutninger ved at sammenligne detaljerede ressourceresultater side om side i flåde.
- Få adgang til detaljerede søgning med Naviate Compliance.
- Få hjælpere og flere formler af ressourcer ved hjælp af Naviate Compliance.



NAVIATE ZERO DEMO

VISUALISER OG DOKUMENTER CO²e

- Få en klar forståelse af indlægsstyringen, identificer hotspots, og dokumenter de designalternativer i modeller, så alle kan se det.



NAVIATE ZERO DEMO

EKSPORTER TIL ONE CLICK LCA

- Forenkler indsamling af information til livscyklusvurdering og eksporter mængder med ressourcerforbrug med ét klik.



NAVIATE ZERO DEMO

BR18 KONTEKST

- BR18 bilag 2 tabel 7 data i Zero.
- Tilføj flere ressourcer til det scenarie lag.



NAVIATE ZERO DEMO

VÆLG OG FILTRER ELEMENTER

- Forbedre udvælgelsesprocessen ved at give enestående kontrol og klarhed over de ønskede elementer.



VÆLG OG FILTRER ELEMENTER

The screenshot displays the Autodesk Revit 2024 interface. The main window shows a 3D cutaway view of a multi-story building. The Properties panel on the right is open, showing the '3D View' settings. The 'Sub-Category' is set to 'Kameraview'. The 'View Scale' is 1:100. The 'Detail Level' is set to 'Fine'. The 'Parts Visibility' is set to 'Show Original'. The 'Visibility/Graphics Over...' and 'Graphic Display Options' are both set to 'Edit...'. The 'Discipline' is set to 'Architectural'. The 'Show Hidden Lines' is set to 'By Discipline'. The 'Default Analysis Display...' is set to 'None'. The 'Show Grids' is set to 'Edit...'. The 'Visible In Option' is set to 'all'. The 'Project Browser' on the right shows a tree view of the project elements, including 'Floor Plans (29, Salg)', '3D Views (80, Kamera Perspektiv)', 'Sections (A3, Snitt - Midlertidig)', and 'Area Plans (26, BTA per Bruksenhet)'. The '3D Views' folder is expanded, showing '3D - Kamera 1', '3D View 1', 'Kamera 1', and '(3D)'. The 'Area Plans' folder is also expanded, showing '2. Etasje - Apartments B' and '2. Etasje - Living Room'. The status bar at the bottom shows '1:100', 'Main Model', and 'Exclude Options'.

Autodesk Revit 2024 - PANORAMATUNET - 3D View: (3D)

File Architecture Structure Steel Precast Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Interoperability Tools [N] Accelerate [N] Architecture [N] Zero [N] Nexus One Click LCA Modify

Appk Resources CO2e Calculate Export Settings Help

Navigate Zero Help Z

3D View: (3D) Edit Type

3D View: (3D) 80. Kamera Perspektiv

Constraints Sub-Category Kameraview

Graphics View Scale 1:100 Scale Value 1: 100 Detail Level Fine Parts Visibility Show Original Visibility/Graphics Over... Edit... Graphic Display Options Edit... Discipline Architectural Show Hidden Lines By Discipline Default Analysis Display ... None Show Grids Edit... Visible In Option all

Project Browser - PANORAMATUNET

Views (all)

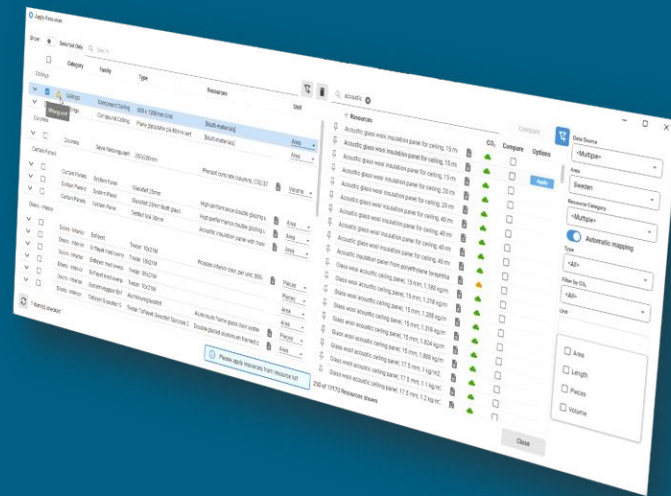
- Floor Plans (29, Salg)
 - 1. Etasje - Apartments A
 - 2. Etasje - Apartments B
 - 3. Etasje - Apartments C
 - 4. Etasje - Apartments D
 - 5. Etasje
- 3D Views (80, Kamera Perspektiv)
 - 3D - Kamera 1
 - 3D View 1
 - Kamera 1
 - (3D)
- Sections (A3, Snitt - Midlertidig)
 - Section 1
- Area Plans (26, BTA per Bruksenhet)
 - 2. Etasje - Apartments B
 - 2. Etasje - Living Room

1:100 Main Model Exclude Options

NAVIATE ZERO DEMO

FIND OG ANVEND RESSOURCER

- De avancerede filtre og kortlægningsværktøjer gør det nemt at søge efter ressourcer. Find det, du har brug for, hurtigt og effektivt.



FIND OG ANVEND RESSOURCER

Autodesk Revit 2024 - PANORAMATUNET - 3D View: (3D)

File Architecture Structure Steel Precast Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Interoperability Tools [N] Accelerate [N] Architecture [N] Zero [N] Nexus One Click LCA Modify | Floors

Modify | Floors

(3D)

Properties

Floor
Filser 200x200x5mm

Floors (1) Edit Type

Constraints

Level 1. Etasje - Apartments A

Height Offset From Level 0.50

Room Bounding

Related to Mass

Materials and Finishes

NVZeroGWPSum

ScheduleFilter

Structural

Structural

Dimensions

Slope

Perimeter 1106.00

Area 7.456 m²

Properties help Apply

Project Browser - PANORAMATUNET

Views (all)

Floor Plans (29, Salg)

1. Etasje - Apartments A

2. Etasje - Apartments B

3. Etasje - Apartments C

4. Etasje - Apartments D

5. Etasje

3D Views (80, Kamera Perspektiv)

3D - Kamera 1

3D View 1

Kamera 1

(3D)

Sections (A3, Snitt - Midlertidig)

Section 1

Area Plans (26, BTA per Bruksenh)

2. Etasje - Apartments B

2. Etasje - Living Room

Apply Resources

Show: Selected Only Search...

Category	Family	Type	Resources	Unit
Doors - Interior				
<input type="checkbox"/>	Doors - Interior	Enfløyet	Tredør 10x21M	Wooden interior door, per unit
<input type="checkbox"/>	Doors - Interior	Enfløyet med overly	Tredør 10x21M	Pieces
<input type="checkbox"/>	Doors - Interior	Enfløyet med overp.	Tredør 09x21M	Area
<input type="checkbox"/>	Doors - Interior	Enfløyet med overp.	Tredør 10x21M	Area
<input type="checkbox"/>	Doors - Interior	Systemveggdør Enf	Aluminiumglasfelt	Aluminium frame glass door
<input type="checkbox"/>	Doors - Interior	Tofløyed Glassfelt S	Tredør Tofløyed Glassfelt Sprc	Double-glazed aluminium frar
Floors - Interior				
<input type="checkbox"/>	Floors - Interior	Floor	Betong Plasstept 150mm me	[Multi-materials]
<input checked="" type="checkbox"/>	Floors - Interior	Floor	Filser 200x200x5mm	Area

Resources

Resources	CO ₂	Compare	Options
2 Way Inward Opening Window with aluminik			
2 Way Inward Opening Window, Frame: 105 r			
2 Way Inward Opening Window, per unit, Frar			
21020-1 - Marmoleum sheet 2,5 mm (Forbo)			
3-layer vapour permeable underlay, 1.1-1.5 x			
4-layer vapour permeable underlay, 1.1-1.5 x			
5-layer vapour permeable underlay, 1.5 x 30 l			
Abrasion-resistant phenolic epoxy coating, 0			
Access Control System, 1.68 kg/unit, XS4 Or			
Access control system, wall programming di			
Acetylated wood, 510 kg/m3, EN15804A2			
Acoustic and decorative ceiling tiles with car			
Acoustic and decorative ceiling tiles with mu			
Acoustic ceiling panel, faced, 12 mm, 1.3 kg			

1 item(s) checked

Please apply resources from resource list

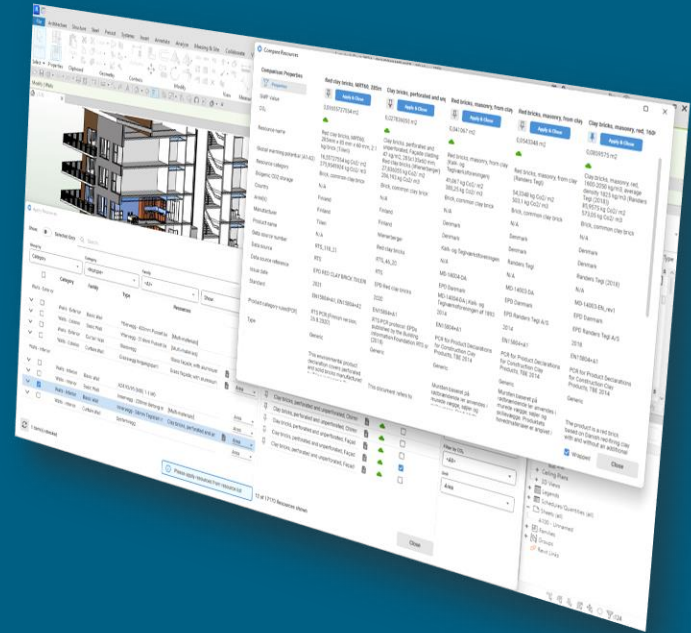
17170 of 17170 Resources shown

Close

NAVIATE ZERO DEMO

VIS OG SAMMENLIGN DETALJER

- Tag informerede beslutninger ved at sammenligne detaljerede ressourceoplysninger side om side i Revit.
- Få adgang til forenklet søgning med Naviate Companion
- Få hurtigere og dybere forståelse af ressourcer ved hjælp af Naviate Companion



VIS OG SAMMENLIGN DETALJER

The image shows the Autodesk Revit 2024 interface. The top ribbon includes tabs for File, Architecture, Structure, Steel, Precast, Systems, Insert, Annotate, Analyze, Massing & Site, Collaborate, View, Manage, Add-Ins, Interoperability Tools, [N] Accelerate, [N] Architecture, [N] Zero, [N] Nexus, One Click LCA, and Modify. The main view is a 3D perspective of a building facade with a cutaway section. The Properties panel on the right shows settings for the 3D View, including constraints, graphics, and visibility options.

The Resources dialog box is open, displaying a list of resources for comparison. The dialog includes search fields, filters, and a table of resources with columns for Name, CO2, Compare, and Options.

Resources	CO ₂	Compare	Options
Wooden entrance door, per unit, 809x2053 rr	🌿	☐	⊗
Outward opening wooden frame window, top	🌿	☐	⊗
Outward opening wooden frame window, top	🌿	☐	⊗
Painted pine molding, per kg, 15x40 mm, 0.6	🌿	☐	⊗
Paint for interiors	🌿	☐	⊗
Outward opening wooden frame window, top	🌿	☐	⊗
Outward opening wooden frame window with	🌿	☐	⊗
Outward opening wooden frame balcony doo	🌿	☐	⊗
Outward opening wooden frame balcony doo	🌿	☐	⊗
Outward opening wooden frame window, sid	🌿	☐	⊗
PET and PP yarn protective fabric for chains	🌿	☐	⊗
PET and PE yarn protective fabric for chains	🌿	☐	⊗
PET yarn protective fabric for chainsaw oper	🌿	☐	⊗
Pile heads from hot rolled steel plates, L: 18l	🌿	☐	⊗
PET yarn protective fabric for chainsaw oper	🌿	☐	⊗

At the bottom of the Resources dialog, it states "5291 of 17170 Resources shown".

NAVIATE COMPANION

Autodesk Revit 2024 - PANORAMATUNET 2024 June.rvt - 3D View: (3D)

File Architecture Structure Steel Precast Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Interoperability Tools [N] Zero [N] Nexus One Click LCA Modify

Modify Wall Door Window Component Column Roof Ceiling Floor Curtain System Curtain Grid Mullion Railing Ramp Stair Model Text Model Line Model Group Room Room Separator Tag Room Area Area Boundary Tag Area By Face Shaft Wall Vertical Dormer Level Grid Set Show Ref Viewer

Select Build Circulation Model Room & Area Opening Datum Work Plane

(3D)

Properties

3D View
80. Kamera Perspektiv

3D View: (3D) Edit Type

Constraints
Sub-Category: Kameraview

Graphics
View Scale: 1 : 100
Scale Value: 100

Apply Resources

Show: Selected Only Search...

red masonry brick

Category	Family	Type	Resources	%	Unit
Ceilings					
☑	Ceilings	Compound Ceiling	600 x 1200mm Grid	[Multi-materials]	Area
☑	Ceilings	Compound Ceiling	Plane gipsplater på 48mm lekt	[Multi-materials]	Area
Columns					
☑	Columns	Soyle Rektangulært	200x200mm	Precast concrete columns, C30/37 - C50/6i	Volume
Curtain Panels					
☑	Curtain Panels	System Panel	Glassfelt 25mm	High performance double glazing unit, 25 n	Area
☑	Curtain Panels	System Panel	Glassfelt 25mm Matt glass	High performance double glazing unit, 25 n	Area
☑	Curtain Panels	System Panel	Tettfelt Grå 50mm	Acoustic insulation panel with honeycomb	Area
Doors - Interior					
☑	Doors - Interior	Enfløyet	Tredør 10x21M	Wooden interior door, per unit, 809x2053 m	Pieces
☑	Doors - Interior	Enfløyet med overly	Tredør 10x21M	Wooden entrance door, per unit, 809x2053	Pieces
☑	Doors - Interior	Enfløyet med overp.	Tredør 09x21M	Wooden entrance door, per unit, 809x2053	Pieces

↑ Resources

Resources	CO ₂	Compare	Options
Acoustic cement-bonded wood wool panel, unpainted, 25 mm, 11.59 kg/r		☑	☑
Acoustic cement-bonded wood wool panel, unpainted, 35 mm, 14.21 kg/r		☑	☑
Acoustic insulation panels with polyethylene foam, 1200 x 2400 x 40 mm		☑	☑

Data Source: <All>

Area: <All>

Resource Category: <All>

Automatic mapping

Domains: <All>

Type: <All>

Filter by CO₂: <All>

Unit: <All>

Automatic mapping

Multipart: <All>

3 of 37794 Resources shown

Close

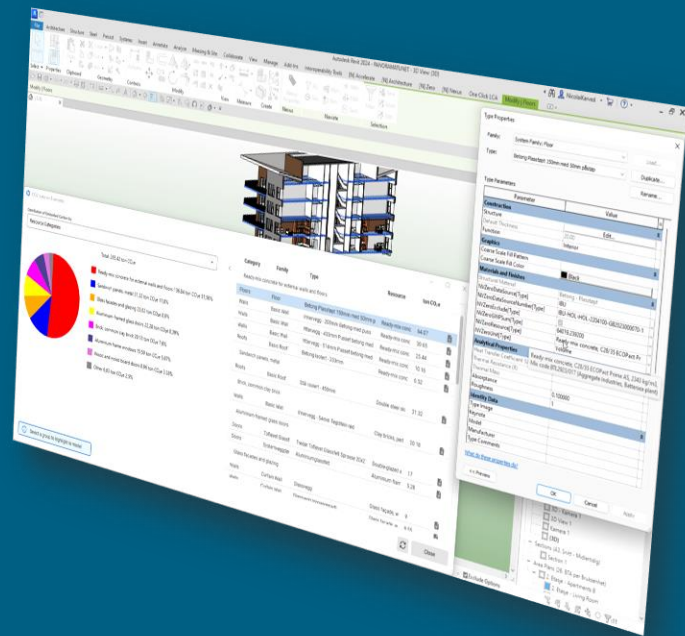
0 item(s) checked

Please check items in the type list

NAVIATE ZERO DEMO

VISUALISER OG DOKUMENTER CO²e

- Få en klar forståelse af miljøpåvirkningen, identificer hotspots, og dokumenter din designintention i modellen, så alle kan se det.



VISUALISER OG DOKUMENTER CO²e

The screenshot displays the Autodesk Revit 2024 interface for a project named "PANORAMATUNET". The main window shows a 3D cutaway view of a multi-story building. The software interface includes a ribbon with tabs for File, Architecture, Structure, Steel, Precast, Systems, Insert, Annotate, Analyze, Massing & Site, Collaborate, View, Manage, Add-Ins, Interoperability Tools, [N] Accelerate, [N] Architecture, [N] Zero, [N] Nexus, One Click LCA, and Modify. A specific ribbon for CO₂e calculation is active, featuring buttons for Apply Resources, CO₂e Calculation, Export Settings, and Help. The Properties panel on the right is set to "3D View: (3D)" and "80. Kamera Perspektiv". It lists various settings such as View Scale (1:100), Detail Level (Fine), and Visibility/Graphic options. The Project Browser on the bottom right shows a hierarchical tree of views, including Floor Plans, 3D Views, Sections, and Area Plans, with a search bar and expandable folders.

NAVIATE ZERO DEMO

EKSPORTER TIL ONE CLICK LCA

- Forenkler indsamling af information til livscyklusvurdering og eksporterer mængder med ressourcekortlægning med ét klik.



EKSPORTER TIL ONE CLICK LCA

The screenshot displays the Autodesk Revit 2023.1 interface for a project named "PANORAMATUNET - 3D View: [3D]". The main window shows a 3D cutaway view of a multi-story building. A dialog box titled "CO2 data on Elements" is open, showing a pie chart and a list of resource categories with their respective CO2e values and percentages. The total CO2e is 255,49. The dialog box also includes a "Close" button.

CO2 data on Elements

Distributed of Embodied Carbon by
Resource Categories

Total CO2e: 255,49

Resource Category	CO2e (ton)	Percentage
Concrete slabs (hollow and solid)	89,11	34,88%
Concrete wall elements	82,31	32,22%
Sandwich panels, metal	21	8,22%
Laminate flooring	19,71	7,72%
Suspended ceiling systems	16,84	6,59%
Other	10,97	4,29%
Regular gypsum board	7,25	2,84%
PVC frame windows	6,28	2,46%
Other	2,02	0,79%

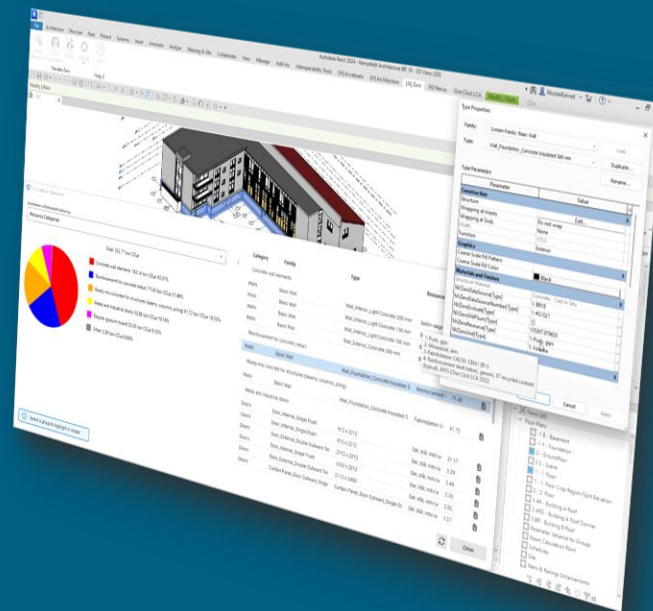
Close

The interface also shows the Project Browser on the right, listing the project structure: PANORAMATUNET, 2. Etasje - Single Bedroom 2, and various rooms and sheets. The Properties panel on the right shows the 3D View settings, including the sub-category "Kameraview" and the view scale "1:100".

NAVIATE ZERO DEMO

BR18 KONTEKST

- BR18 bilag 2 tabel 7 data i Zero.
- Tildel flere ressourcer til det samme lag.



BR 18 DATA I REVIT PARAMETRE

Autodesk Revit 2024 - Kampfeldt Architecture BR 18 - 3D View (3D)

File Architecture Structure Steel Precast Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Interoperability Tools [N] Accelerate [N] Architecture [N] Zero [N] Nexus One Click LCA **Modify | Walls**

Apply Resources CO2e Calculation Export Settings Help

Navigate Zero Help Z

Modify | Walls

CO2 data on Elements

Distribution of Embodied Carbon by Resource Categories

Total: 332,77 ton CO₂e

Resource Category	CO ₂ e (ton)	Percentage
Concrete wall elements	143,14	43,01%
Reinforcement for concrete (rebar)	71,43	21,46%
Ready-mix concrete for structures (beams, columns, piling)	61,72	18,55%
Metal and industrial doors	33,88	10,18%
Regular gypsum board	20,35	6,12%
Other	2,26	0,68%

Select a group to highlight in model

Category	Family	Type	Resource
Concrete wall elements			
Walls	Basic Wall	Wall_Interior_Light Concrete 200 mm	Beton væg
Walls	Basic Wall	Wall_Interior_Light Concrete 150 mm	
Walls	Basic Wall	Wall_Interior_Light Concrete 100 mm	
Walls	Basic Wall	Wall_Exterior_Concrete 200 mm	
Reinforcement for concrete (rebar)			
Walls	Basic Wall	Wall_Foundation_Concrete Insulated 5	Reinforcement : 71.43
Ready-mix concrete for structures (beams, columns, piling)			
Walls	Basic Wall	Wall_Foundation_Concrete Insulated 5	Fabriksbeton C: 61.72
Metal and industrial doors			
Doors	Door_Internal_Single Flush	912 x 2212	Dør, stål, indv/ud 21.17
Doors	Door_Internal_Single Flush	812 x 2212	Dør, stål, indv/ud 3.29
Doors	Door_External_Double Outward Ter	2112 x 2212	Dør, stål, indv/ud 2.49
Doors	Door_Internal_Single Flush	1010 x 2212	Dør, stål, indv/ud 2.35
Doors	Door_External_Double Outward Ter	2112 x 2400	Dør, stål, indv/ud 2.02
Doors	Curtain Panel_Door Outward_Singl	Curtain Panel_Door Outward_Singl Gi	Dør, stål, indv/ud 1.27

Type Properties

Family: System Family: Basic Wall

Type: Wall_Foundation_Concrete Insulated 580 mm

Type Parameters








Parameter	Value
Construction	
Structure	Edit...
Wrapping at Inserts	Do not wrap
Wrapping at Ends	None
Width	570.0
Function	Exterior
Graphics	
Coarse Scale Fill Pattern	
Coarse Scale Fill Color	Black
Materials and Finishes	
NVZeroDataSource[Type]	1: BR18
NVZeroDataSourceNumber[Type]	1: #G1021
NVZeroGWPSum[Type]	135397.879635
NVZeroResource[Type]	1: Puds, gips
NVZeroUnit[Type]	1: Volume

Views (all)

- Floor Plans
 - 1 B - Basement
 - 1 F - Foundation
 - 0 - Groundfloor
 - 0 S - Scene
 - 1 - 1. Floor
 - 1 - 1. Floor Crop Region/Split Elevation
 - 2 - 2. Floor
 - 3 AR - Building A Roof
 - 3 ARD - Building A Roof Dormer
 - 3 BR - Building B Roof
 - Parameter Variance for Groups
 - Room Calculation Point
 - Schedules
 - Site
 - Stairs & Railings Enhancements

Close

SAMMENLIGN NEMT DE GENERISKE DATA

Compare Resources			
Comparison Properties	Huldæk element, 22 cm, 6-10 forspændingsliner	Huldæk element, 32 cm, 6-10 forspændingsliner	Huldæk element, 32 cm, 11-17 forspændingsliner
 Properties	 Apply & Close	 Apply & Close	 Apply & Close
GWP Value	0,0498 m2	0,0664 m2	0,0679 m2
CO ₂			
Resource name	Huldæk element, 22 cm, 6-10 forspændingsliner	Huldæk element, 32 cm, 6-10 forspændingsliner	Huldæk element, 32 cm, 11-17 forspændingsliner
Global warming potential (A1-A3)	49,8 kg Co2/ m2 0,1445153802 kg Co2/ kg 144,5153802 kg Co2/ ton	66,4 kg Co2/ m2	67,9 kg Co2/ m2
Resource category	Concrete slabs (hollow and solid)	Concrete slabs (hollow and solid)	Concrete slabs (hollow and solid)
Biogenic CO2 storage	N/A	N/A	N/A
Country	Denmark	Denmark	Denmark
Area(s)	Denmark	Denmark	Denmark
Manufacturer	N/A	N/A	N/A
Product name	N/A	N/A	N/A
Data source number	#B1346	#B1350	#B1354
Data source	BR18	BR18	BR18
Data source reference	Bygningsreglementet.dk, Bilag 2: Tabeller til kapitel 11 - Energiforbrug, Tabel 7 - Generisk datagrundlag	Bygningsreglementet.dk, Bilag 2: Tabeller til kapitel 11 - Energiforbrug, Tabel 7 - Generisk datagrundlag	Bygningsreglementet.dk, Bilag 2: Tabeller til kapitel 11 - Energiforbrug, Tabel 7 - Generisk datagrundlag
Issue date	2023	2023	2023
Standard	EN15804+A1	EN15804+A1	EN15804+A1
Product category rules (PCR)	N/A	N/A	N/A
Type	Manufacturer	Manufacturer	Manufacturer
Is multipart	False	False	False
Description	N/A	N/A	N/A
Available units	m2 kg ton	m2	m2
Service life	N/A	N/A	N/A
Origin	One Click Lca	One Click Lca	One Click Lca
Region(s)	Europe	Europe	Europe
Data domain(s)	BR18 GCR	BR18 GCR	BR18 GCR
Upstream database	GaBi	GaBi	GaBi

Wrapped Close

TILDEL FLERE RESSOURCER TIL DET SAMME MATERIALE LAG.

The screenshot shows the 'Apply Resources' window in a software application. The interface is divided into several sections:

- Top Left:** 'Apply Resources' title, 'Show: Selected Only' filter, and a search bar.
- Filters:** 'Group by' (Category), 'Category' (Walls - Exterior), 'Family' (<All>), and a 'Show' button.
- Main Table:** A table with columns: Category, Family, Type, Resources, %, and Unit. It lists various wall components under 'Walls - Exterior'. One row, 'Wall_Foundation_Concrete Insulated', is expanded to show a 'Material' sub-table.
- Material Sub-table:** A table with columns: Material, Resources, %, and Unit. It lists materials like 'Concrete - Sand/Cement Screed', 'Insulation / Thermal Barriers - Batt insulation', 'Concrete - Cast In Situ', and 'Concrete - Cast In Situ Clone'. The last two rows are highlighted with a blue box and green checkmarks.
- Bottom Left:** A status bar showing '0 items checked' and a warning icon with the text 'Please check items in the type list'.
- Right Panel:** A 'Resources' list with columns: Resources, CO₂, Compare, and Options. It lists various building materials like 'Beton vægelementer', 'Aluminium clad', and 'Aluminium roller shutter door'. A 'Compare' button is visible above this list.
- Far Right:** A 'Data Source' panel with dropdown menus for 'Area' (Denmark), 'Resource Category' (<All>), 'Type' (<All>), 'Filter by CO₂' (<All>), 'Unit' (<All>), and 'Multipart' (<All>). It also has an 'Automatic mapping' radio button.
- Bottom Right:** A 'Close' button and a status indicator '61 of 27355 Resources shown'.

02

RESUMÉ



Vigtige konklusioner

Naviate Zero giver hverdagens designere værktøjer til informerede beslutninger og effektiv livscyklusanalyse.

One Click LCA understøtter dybdegående livscyklusvurderinger (LCA) og robust rapportering, hvilket giver specialiserede løsninger til kernebrugere.

- SYMETRI

DISTINGUISHING NAVIATE ZERO AND ONE CLICK LCA INTEGRATION

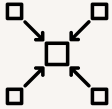
NAVIATE ZERO (NZ) | ONE CLICK LCA (OCL)



- **NZ:** Opsummerer indlejrede CO2-emissioner (A1-A3) under designet af hver model.
- **OCL:** Evaluerer den samlede miljøpåvirkning: I alle faser, standarder og certificeringer.



- **NZ:** Ingen ekstra OCL-licens er nødvendig for at vælge ressourcer og beregne GWP i Revit.
- **OCL:** Når ressourcer er valgt, kan resultatberegninger opnås ved brug af en separat licens.



- **NZ:** Beregner og gemmer ressourceoplysninger i Revits parametre og eksporterer til samarbejde i OCL.
- **OCL:** Overfører Revit-projektdata til beregninger og samarbejde; ingen data gemmes i Revit.



- **NZ:** Henter straks GWP-værdier for specifikke bygningsdele i Revit.
- **OCL:** Giver overblik over GWP-værdier for individuelle ressourcer brugt i et projekt.



- **NZ:** Forbedrer Revit med detaljeret ressourcefiltrering og sammenligning under modellens design.
- **OCL:** Få anbefalede alternative ressourcer ved evaluering af livscyklusvurderingen.

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