

# MagiCAD RS

## Beskrivelse af DEN lokaliseringen

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## Lokalisering DEN-MCREV-2021\_c

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumentet DEN-MCREV- 2021\_a.pdf

Bortset fra filformatet er lokaliseringen til Revit 2021, Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

Lokalisering til MagiCAD på Revit, består ud over dette dokument af fire filer.

**DEN-MCREV-2021\_c\_r<Revit version>.mrv (dataset)**

**DEN-MCREV-2021\_c\_r<Revit version>.rte (Revit template)**

**DEN-MCREV-2021\_c\_r<Revit version>.mcd (description fil)**

**magiParameters .txt (shared parameters fil)**

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

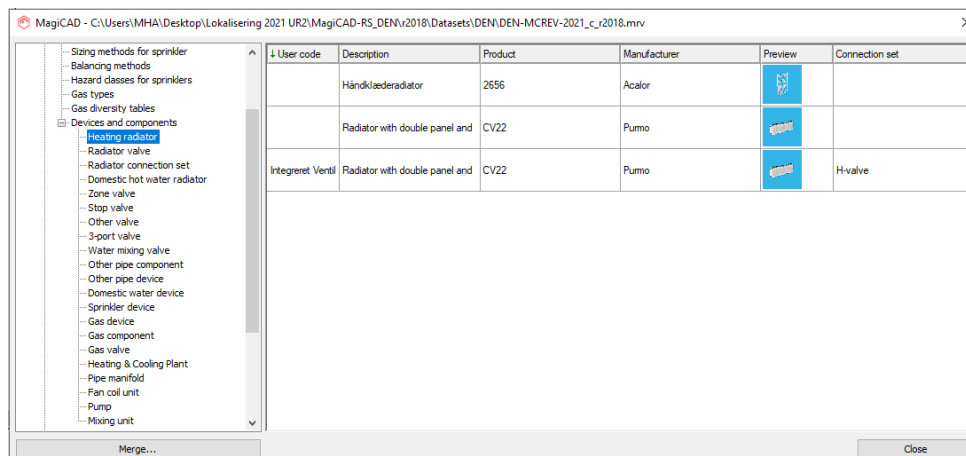
## Dataset

### Ventilation

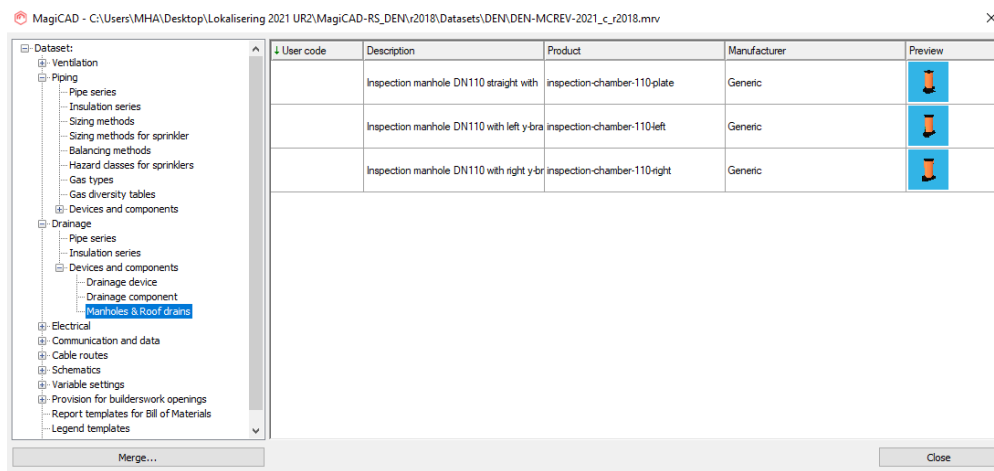
- S-part og Yparts er blevet reloaded fra MagiCAD databasen – da der er kommet nye families der giver mulighed for offsets.
- Lindab kanalsierne er blevet reloaded og opdateret
- ESNU E og ESNU S er blevet opdateret og sat ind på ny.

### Piping

- Alle 2D symboler til tapsteder er genvalgt i dataset.
- Alle Rio radiatorer er blevet slettet og der er valgt 2 Purmo radiatorer en med integreret ventil.



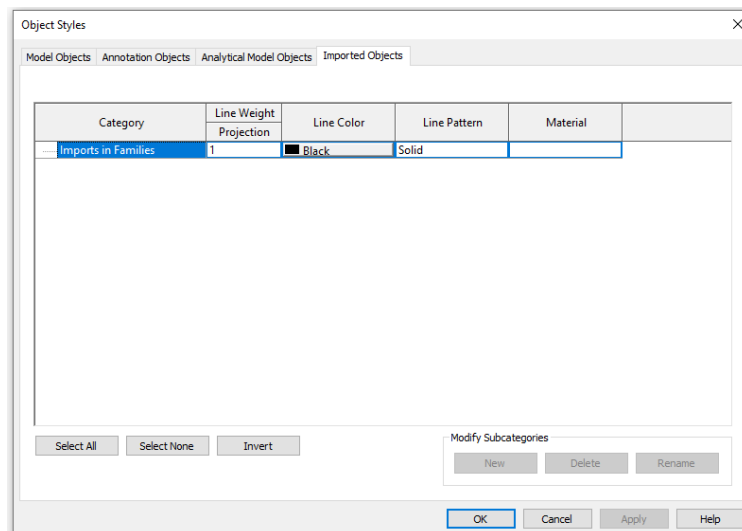
- Derudover er der også tilføjet en generisk "mixing valve" samt en generisk "radiator connection set" til datasettet.
- "Manholes & Drains" har fået nye komponenter der virker når de bliver sat ind på et afløb med fald.



## Template

### Object styles

- Object styles i template er blevet ryddet, så der ikke længere findes importerede linie typer.



### View templates

- På el siden er der blevet oprettet nye view templates både som work, sheet og section views.

E\_\_ELECTRICAL – Viser alt el.




















E\_\_ELECTRICAL DISTRIBUTION – Viser kun tavler og føringsveje.

E\_\_LIGHTING – Viser alt el minus føringsveje.

- QA \_\_\_D\_VP\_\_\_LINKED IN SCHEMATIC – er blevet opdateret med korrekte molio farver.

Visibility/Graphic Overrides for QA \_\_\_D\_VP\_\_\_LINKED IN SCHEMATIC

Model Categories Annotation Categories Imported Categories Filters

Name	Visibility	Projection/Surface			Cut		Halftone
		Lines	Patterns	Transparency	Lines	Patterns	
VPE_Is Linked In Schematic	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item BRUGSVAND, KOLDT	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item GULVVARME, FREM	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item GULVVARME, RETUR	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item SPRINKLERANLÆG	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, FREM	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, RETUR	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item KØLING, FREM	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item KØLING, RETUR	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, FREM, PRIMÆR	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, RETUR, PRIMÆR	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, FREM, SEKUND...	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VARME, RETUR, SEKUN...	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item BRUGSVAND, VARMT	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item BRUGSVAND, CIRKULAT...	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VENTILATION, INDBLÆS...	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VENTILATION, UDSUGN...	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VENTILATION, INDTAG	<input checked="" type="checkbox"/>						<input type="checkbox"/>
Detail Item VENTILATION, AFKAST	<input checked="" type="checkbox"/>						<input type="checkbox"/>

## Lokalisering DEN-MCREV-2021\_b

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumentet DEN-MCREV- 2021\_a.pdf

Bortset fra filformatet er lokaliseringen til Revit 2021, Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

Lokalisering til MagiCAD på Revit, består ud over dette dokument af fire filer.

**DEN-MCREV-2021\_b\_r<Revit version>.mrv (dataset)**

**DEN-MCREV-2021\_b\_r<Revit version>.rte (Revit template)**

**DEN-MCREV-2021\_b\_r<Revit version>.mcd (description fil)**

**magiParameters .txt (shared parameters fil)**

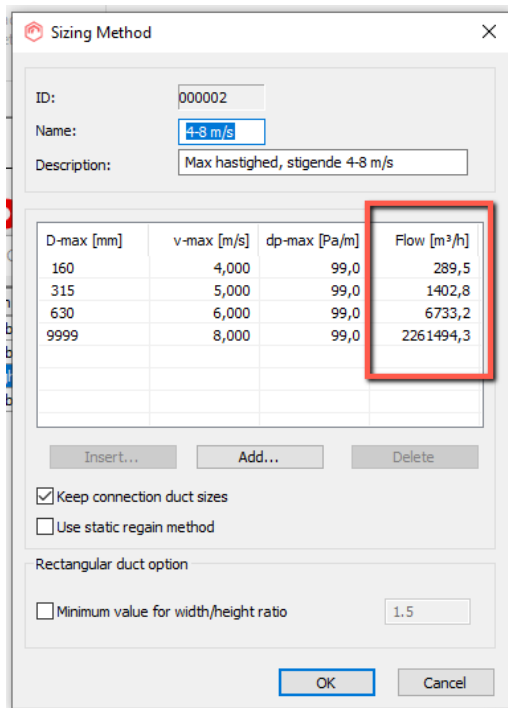
Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags



## Dataset

### Ventilation

- Flow kan nu anvendes ved dimensionering. Angiv max flow per kanaldimension via Sizing Method



Sizing Method

ID: 000002

Name: 4-8 m/s

Description: Max hastighed, stigende 4-8 m/s

D-max [mm]	v-max [m/s]	dp-max [Pa/m]	Flow [m³/h]
160	4,000	99,0	289,5
315	5,000	99,0	1402,8
630	6,000	99,0	6733,2
9999	8,000	99,0	2261494,3

Buttons: Insert..., Add..., Delete

Keep connection duct sizes  
 Use static regain method

Rectangular duct option

Minimum value for width/height ratio: 1.5

Buttons: OK, Cancel

- Kanalserierne Lindab SR og Lindab SR Standard. Påstik "TSTCU Bevelled" er udskiftet med "TSTCU Small Roundings". Kanalserierne er opdateret i Revit project template "DEN-MCREV-2021\_b\_r<Revit version>.rte

## Piping

- Beregningsstandard kan nu defineres specifikt for hver enkelt rørserie.

**Calculation settings for hydronic systems**  
By selecting the calculation standard and the pipe material the Zeta values for the pipe series will be defined

Calculation standard: **Default**  
Material: **Metal**

Size	Din	Dout	Valve size	Zone valve size
10	12.4	17.1	10	10
15	16.0	21.3	15	15
20	21.6	26.9	20	20
25	27.2	33.7	25	25
32	37.2	42.4	32	32
40	41.8	48.3	40	40
50	53.0	60.3	50	50
65	68.8	76.1	65	65
80	80.8	88.9	80	80
100	105.3	114.3	100	100
125	130.0	139.7	125	125
150	155.4	165.1	150	150

- Flow kan nu anvendes ved dimensionering. Angiv max flow per rørdimension via Sizing Method

ID: 000003  
Name: 90-30 Pa/m  
Description: Max. tryktab 90 - 30 Pa/m, faldende

D-max [mm]	v-max [m/s]	dp-max [Pa...]	Flow [l/s]
15	99,000	90,0	17,5
20	99,000	80,0	31,1
25	99,000	70,0	48,6
32	99,000	65,0	79,6
40	99,000	60,0	124,4
65	99,000	50,0	328,5
80	99,000	45,0	497,6
100	99,000	45,0	777,5

Keep connection pipe sizes

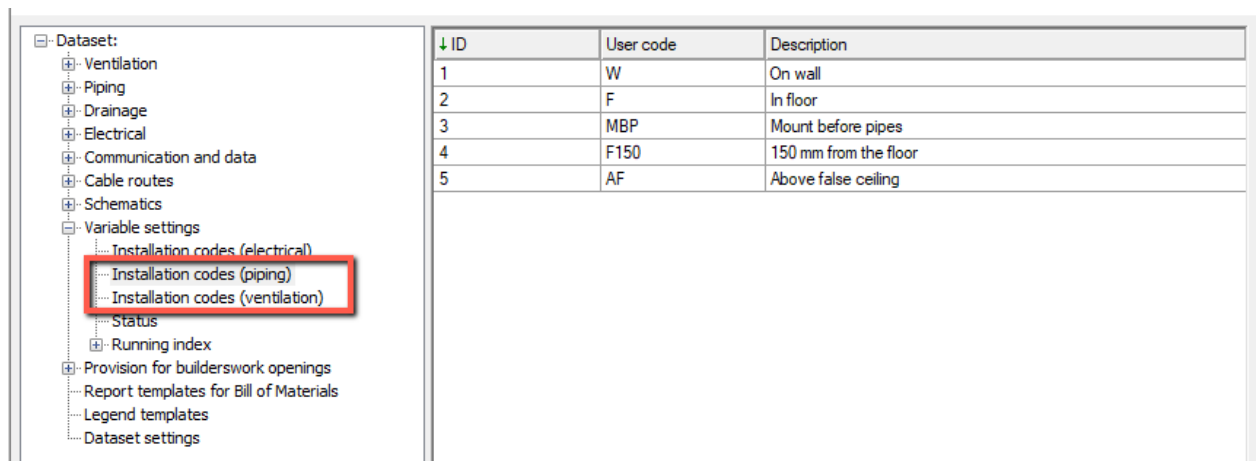
- Bedre understøttelse for pumper med variabel hastighed og multi-hastighed. Tilføjet to eksempel-pumper til datasettet.

## Schematics

- Opret præ-definerede symbol-samlinger ("Symbol assemblies") og gem dem i datasettet. Samlingen kan bestå af både symboler og Revit detail items som linjer, cirkler osv (splines understøttes ikke). En Symbol Assembly oprettes og gemmes i datasettet ved at placere symboler i et view, markere dem og vælge Create Assembly fra MagiCAD Schematics fanebladet. En Symbol Assembly kunne f.eks. være en blandesløjfe.

## Variable settings

- Installation codes kan nu, som tidligere kun muligt for el, tilføjes både piping og ventilation, og anvendes på rør/kanaler, fittings, armaturer, elementer osv.



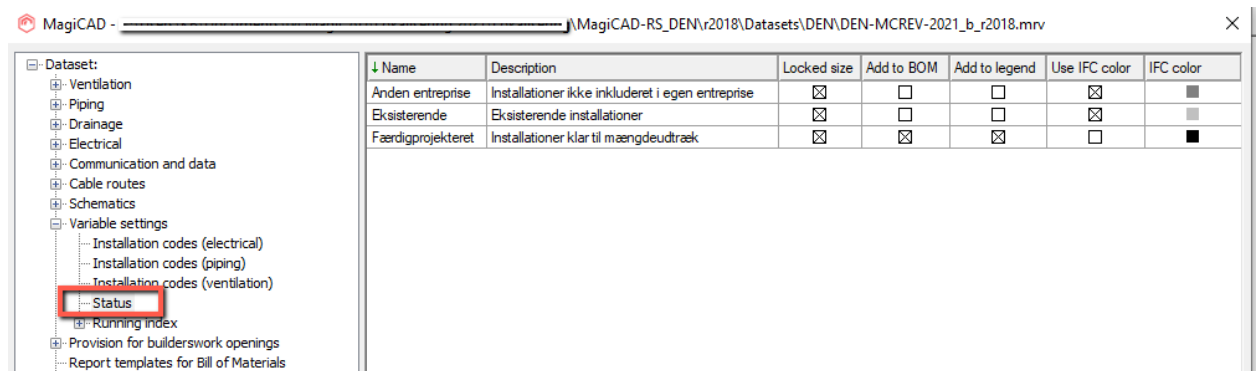
ID	User code	Description
1	W	On wall
2	F	In floor
3	MBP	Mount before pipes
4	F150	150 mm from the floor
5	AF	Above false ceiling

- Status kan anvendes til, på instance-niveau, at angive f.eks. om et element er eksisterende, foreløbig, uafklaret, egen eller anden entreprise osv.

For hver Status angives Name, Description, Locked Size (yes/no), Add to BOM (yes/no), Add to legend (yes/no), Use IFC color (yes/no), samt IFC color.

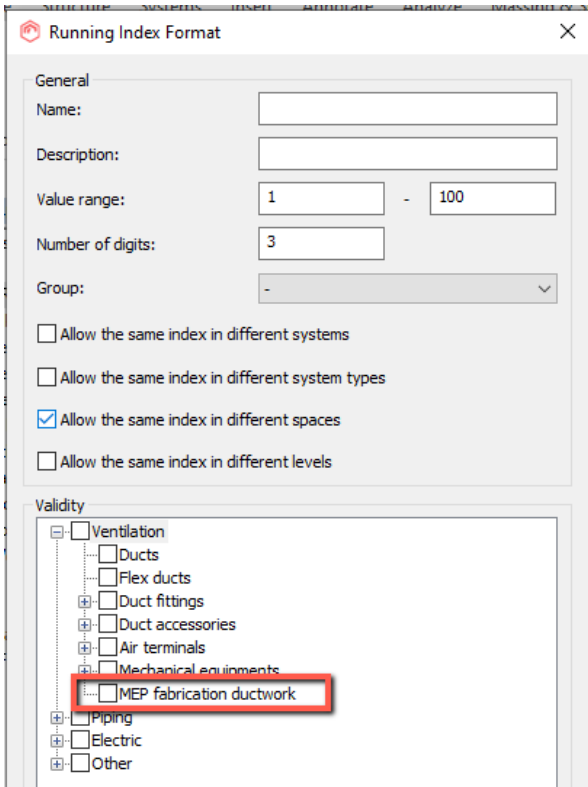
Status vælges på objektet via instance parameteret "MC Object Status".

Nedenstående eksempler er inkluderet i dataset og template i den danske lokalisering. Status overføres fra dataset til projekt via Design Data.



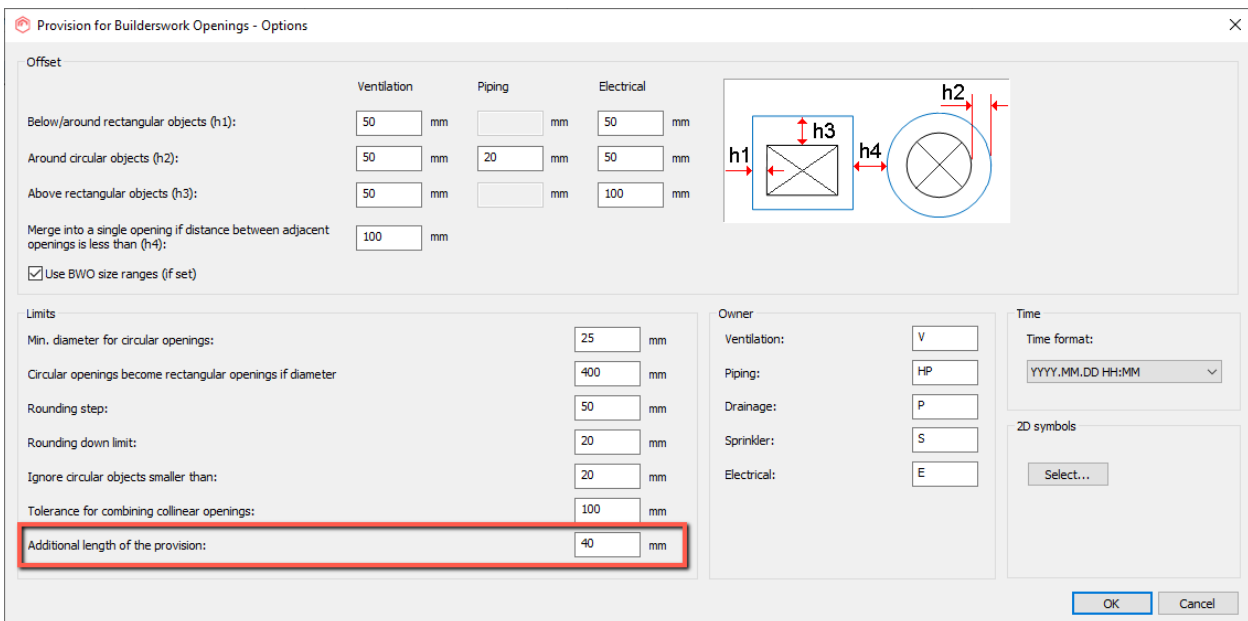
Name	Description	Locked size	Add to BOM	Add to legend	Use IFC color	IFC color
Anden entreprise	Installationer ikke inkluderet i egen entreprise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	■
Eksisterende	Eksisterende installationer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	■
Færdigprojekteret	Installationer klar til mængdeudtræk	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	■

- Running index format understøtter nu MEP fabrication parts



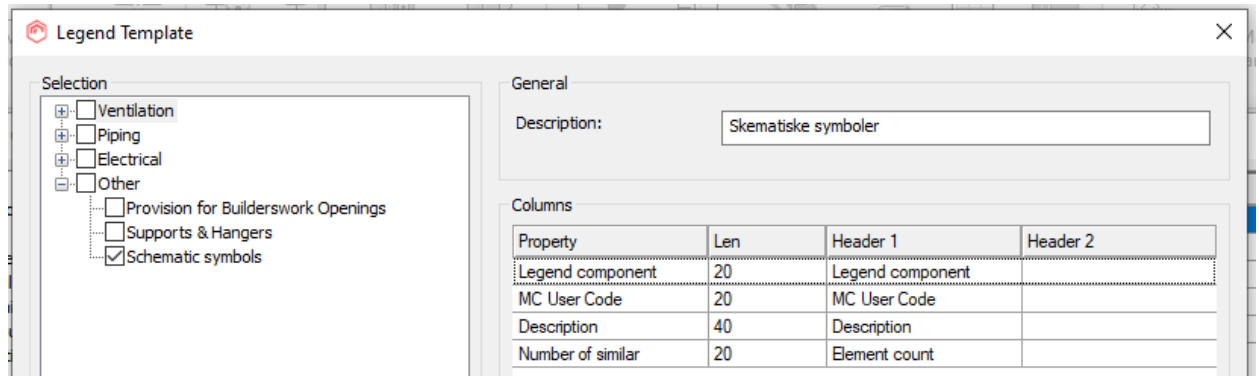
### Provision for builderswork openings

- Mulighed for at styre hvor stor en del af provision-elementet, der skal stikke ud fra væg- eller dækoverflader. Afstanden styres vha. parameteret "Additional length of the provision"



## Legend template for Schematic Symbols

- Legend templates omfatter nu også Schematic Symbols. Nedenstående eksempel er tilføjet datasettet i den danske lokalisering



## Template

### Ændringer i shared parameters fil

- MagiCAD 2021 UR-1 indeholder følgende ændringer i magiParameters.txt:

GUID	Parameter name	Group
30507a38-59bf-4e66-9ce0-718d046d2f1e	MC Copy Wire Type from Circuit	5
f0cb2d83-07c9-4de6-afbb-98b9abab529e	MC Design Sensible Cooling Load	1
402f4210-cb8a-4bb7-860e-1eabd99e5fa2	MC Design Supply Air Temperature	1
4c8bf974-566d-4b33-8718-64d84ef35ea9	MC Design Temperature Cooling	1
bae3dce1-3398-437d-b5a9-1dfdeff446ae	MC Design Temperature Heating	1
8ef7ce10-01a3-46b4-9fe0-53a3023598e7	MC Fire Rating	1
fc9fd78c-9cc3-418e-925f-9d2754f7b017	MC Not in Use	5
1c5ed3cc-b988-4f4e-b64b-e7c5a4bfe18e	MC Object Status	1
6509b509-cc20-4bb2-8526-c82d9f39a03c	MC Part Number	1
c8e3fe63-3809-40d3-b395-1ffed49959d1	MC Piping Diversified Flow	1
8f1b2b2a-480b-4b7c-8c80-f1b024900108	MC Provision Type	1
874a24dc-6b3f-46d8-a349-38e70cd70a60	MC Provision Host	1

## Ventilation

- Kanalserierne "Lindab SR" og "Lindab SR Standard" er opdateret som beskrevet under afsnittet "Dataset"
- Parameteret "MC Ventilation LpA 10 sab" er slettet

## Heating


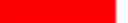






- View template "QA\_\_\_3\_P\_\_MC PIPING VELOCITY" er omdøbt til "QA\_\_\_3\_P\_\_HEATING MC VELOCITY"
- View template "QA\_\_\_P\_P\_\_MC PIPING VELOCITY" er omdøbt til "QA\_\_\_P\_P\_\_HEATING MC VELOCITY". Filtre er opdateret

Visibility/Graphic Overrides for QA\_\_\_P\_P\_\_HEATING MC VELOCITY

Model Categories		Annotation Categories		Analytical Model Categories		Imported Categories		Filters	
Name					Visibility				
Sections/Elev/Cal (VIEW-USE not 4_QUALITY ASSURANCE)					<input type="checkbox"/>				
Sections/Elev/Cal (SUB-DICIPLINE not P__HEATING VELOCITY)					<input type="checkbox"/>				
VP__Mechanical Equipment (Radiatorer)					<input type="checkbox"/>				
P__SV - AFLØB, SPILDEVAND (System Abbreviation)					<input type="checkbox"/>				
P__KF - KØLING, FREM (System Abbreviation)					<input type="checkbox"/>				
P__KR - KØLING, RETUR (System Abbreviation)					<input type="checkbox"/>				
P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation)					<input type="checkbox"/>				
P__TV - AFLØB, TAG-(REGN)VAND - (System Abbreviation)					<input type="checkbox"/>				
P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation)					<input type="checkbox"/>				
P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation)					<input type="checkbox"/>				
P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)					<input type="checkbox"/>				
P__DV - DRÆN(VAND) (System Abbreviation)					<input type="checkbox"/>				

- View template "QA\_\_\_3\_P\_\_MC PIPING dp/m" er omdøbt til "QA\_\_\_3\_P\_\_MC HEATING dp/m". Filtre er opdateret

Visibility/Graphic Overrides for QA\_\_\_3\_P\_\_MC HEATING dp/m

Model Categories		Annotation Categories		Analytical Model Categories		Imported Categories		Filters	
Name	Visibility	Projection/Surface							
		Lines	Patterns	Transp					
VP__Mechanical Equipment (Radiatorer)	<input checked="" type="checkbox"/>								
VP__Mechanical Equipment (SystemClassification Air)	<input type="checkbox"/>								
VP__Mechanical Equipment (MC Void Provision)	<input type="checkbox"/>								
P__KF - KØLING, FREM (System Abbreviation)	<input type="checkbox"/>								
P__KR - KØLING, RETUR (System Abbreviation)	<input type="checkbox"/>								
P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation)	<input type="checkbox"/>								
P__BC - BRUGSVAND (#1), CIRKULATION (System Abbr...	<input type="checkbox"/>								
P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation)	<input type="checkbox"/>								
P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)	<input type="checkbox"/>								
P__Sanitary (System Classification)	<input type="checkbox"/>								
P__Pipework MC Piping dp/m mindre end 0,050 kPa	<input checked="" type="checkbox"/>								
P__Pipework MC Piping dp/m større end 0,100 kPa	<input checked="" type="checkbox"/>								
P__Pipework MC Piping dp/m større end 0,050 kPa og ...	<input checked="" type="checkbox"/>								

- View template "QA\_\_\_P\_P\_MC PIPING dp/m" er omdøbt til "QA\_\_\_P\_P\_MC HEATING dp/m". Filtre er opdateret

Visibility/Graphic Overrides for QA\_\_\_P\_P\_MC HEATING dp/m

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

Name	Visibility	Projection/Surface		
		Lines	Patterns	T
Sections/Elev/Cal (VIEW-USE not 4_QUALITY ASSURAN...	<input type="checkbox"/>			
Sections/Elev/Cal (SUB-DICIPLINE not P___HEATING FRI...	<input type="checkbox"/>			
P___SV - AFLØB, SPILDEVAND (System Abbreviation)	<input type="checkbox"/>			
P___TV - AFLØB, TAG-(REGN)VAND - (System Abbreviat...	<input type="checkbox"/>			
P___BC - BRUGSVAND (#1), CIRKULATION (System Abbr...	<input type="checkbox"/>			
P___BK - BRUGSVAND (#1), KOLDT (System Abbreviation)	<input type="checkbox"/>			
P___BV - BRUGSVAND (#1), VARMT (System Abbreviatio...	<input type="checkbox"/>			
P___KF - KØLING, FREM (System Abbreviation)	<input type="checkbox"/>			
P___KR - KØLING, RETUR (System Abbreviation)	<input type="checkbox"/>			
P___SPR - SPRINKLERANLÆG, RØR (System Abbreviation)	<input type="checkbox"/>			
P___Sanitary (System Classification)	<input type="checkbox"/>			
VP_Mechanical Equipment (Radiatorer)	<input checked="" type="checkbox"/>			

## Electrical

- Wire type management. Via kolonnen "In use" er det nu muligt at definere hvilke ledningstyper der skal være tilgængelige ved tegning af ledninger ("Wires"). I template for den danske lokalisering, er alle typer valgt på forhånd.

Wire Type Management

General

Type name

	In use	Name	Conductor Materials	Conductor Arrangements	Weight [kg/m]	Diameter / Width [mm]	Height [mm] (if needed)	Number of phases	Number of neutrals	Number of PEs
1	<input checked="" type="checkbox"/>	THHW_Cu	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0	0	0	0	0	0
2	<input checked="" type="checkbox"/>	XHHW_Cu	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0	0	0	0	0	0
3	<input checked="" type="checkbox"/>	THHW_AI	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0	0	0	0	0	0
4	<input checked="" type="checkbox"/>	XHHW_AI	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0	0	0	0	0	0
5	<input checked="" type="checkbox"/>	MMJ 3x1,5S	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0,12	8,80	8,80	1	1	1
6	<input checked="" type="checkbox"/>	MMJ 5x1,5S	Ph: Copper PE: Copper	Live: Multi-core PE: PE Included	0,18	11,00	11,00	3	1	1

Show calculation columns

Open electrical settings... OK Cancel

### ***Schematic***

- Ny view template "QA\_\_\_\_3\_P\_\_HEATING LINKED IN SCHEMATIC"

Ny view template "QA\_\_\_\_D\_VP\_\_LINKED IN SCHEMATIC"



## Lokalisering DEN-MCREV-2021\_a

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MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2021\_a\_r2018.mrv (dataset)**
- DEN-MCREV-2021\_a\_r2018.rte (Revit template)**
- DEN-MCREV-2021\_car2018.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2021\_a\_r2019.mrv (dataset)**
- DEN-MCREV-2021\_a\_r2019.rte (Revit template)**
- DEN-MCREV-2021\_a\_r2019.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2021\_a\_r2020.mrv (dataset)**
- DEN-MCREV-2021\_a\_r2020.rte (Revit template)**
- DEN-MCREV-2021\_a\_r2020.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2021, består ud over dette dokument af fire filer.

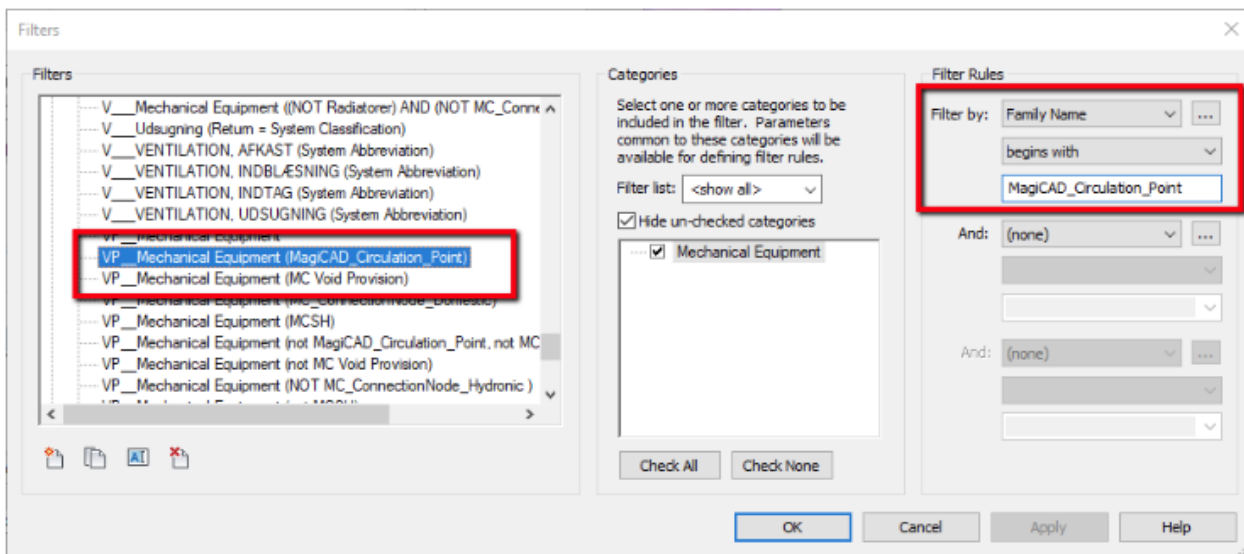
- DEN-MCREV-2021\_a\_r2021.mrv (dataset)**
- DEN-MCREV-2021\_a\_r2021.rte (Revit template)**
- DEN-MCREV-2021\_a\_r2021.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

## Template













### View templates, Filtre:

- Nedenstående filter oprettet og tilføjet view Heating viewtemplates

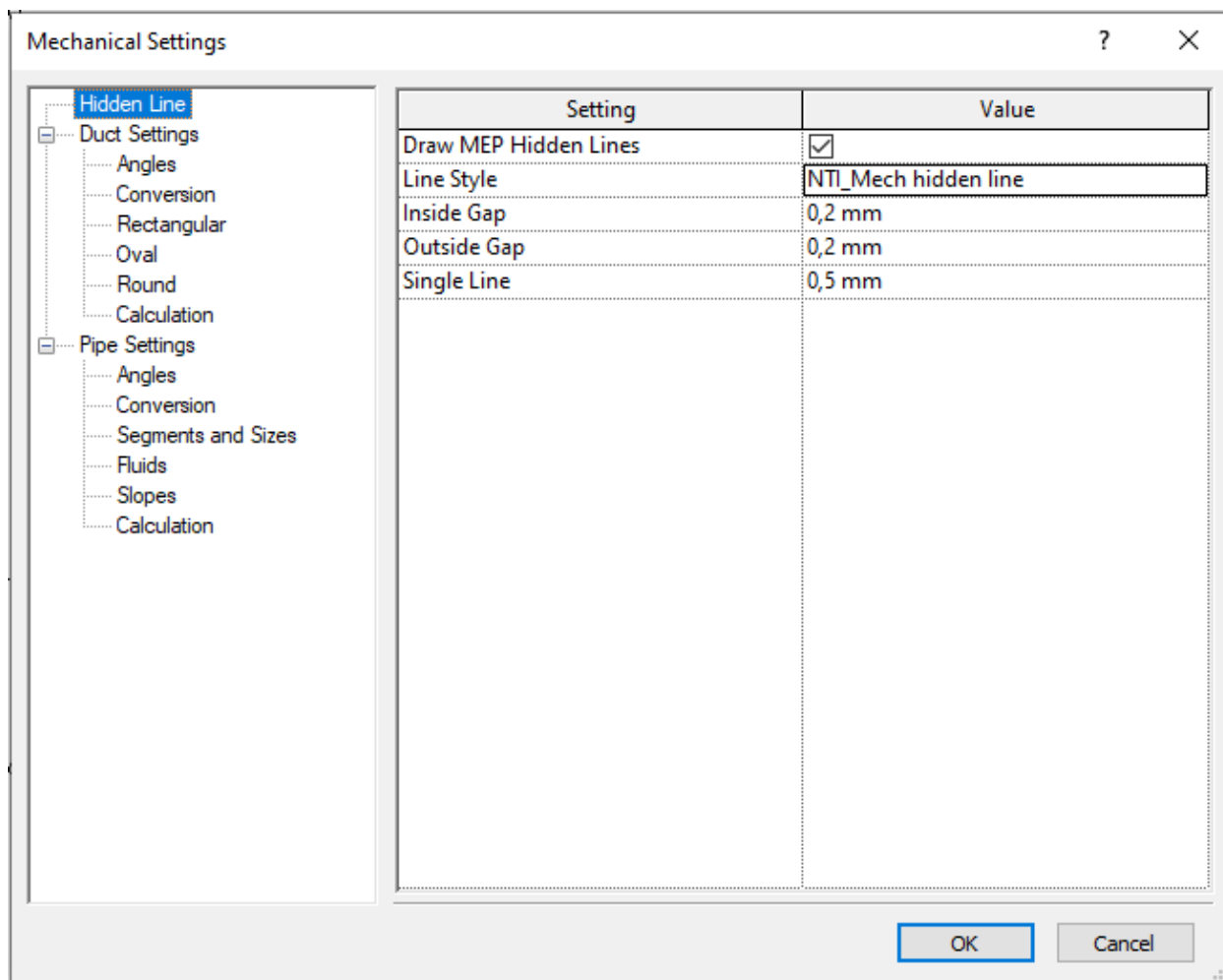


- View template WORK\_C\_C\_\_CLASH har fået tilknyttet nedenstående filtre.

Visibility/Graphic Overrides for WORK\_P\_C\_\_CLASH

Name	Visibility	Projection/Surface		
		Lines	Patterns	Transparency
Sections/Elev/Cal (VIEW-USE not 1_WORK)	<input type="checkbox"/>			
Sections/Elev/Cal (SUB-DISCIPLINE not C__CLASH)	<input type="checkbox"/>			
E__KABELBAKKE	<input checked="" type="checkbox"/>			
E__GITTERBAKKE	<input checked="" type="checkbox"/>			
E__ALMENFØRINGSVEJ	<input checked="" type="checkbox"/>			
E__KABELSTIGE	<input checked="" type="checkbox"/>			
E__LADDER	<input checked="" type="checkbox"/>			
E__RØR_I_TERRÆN	<input checked="" type="checkbox"/>			
E__RØR_I_BYGNING	<input checked="" type="checkbox"/>			
E__BELYSNINGSANLÆG	<input checked="" type="checkbox"/>			
E__LAVSPÆNDING	<input checked="" type="checkbox"/>			
VP__Insulation	<input checked="" type="checkbox"/>			50%
VP__Mechanical Equipment (Radiatorer)	<input checked="" type="checkbox"/>			
VP__Mechanical Equipment (MCSH)	<input checked="" type="checkbox"/>			

- Mech Hidden line er blevet ændret så inside og outside gap er 0,2 mm, derudover er der blevet tilknyttet en ny Line style NTI\_Mech hidden line.



Insulation i view templates.

- Alle 3D viewtemplates er indstillet til at vise insulation på 80% transparency og halftones i V/G, er gældende for både duct og pipes
- På Alle QA Viewtemplates er overriden fjernet så isoleringen vises.
- På alle plan og section viewtemplates er pipe insulation halftonet i et filter.

## ***Kanalserie.***

Lindab TCU er udskiftet fra TCU beveled til TCU Small roundings.

**Generelt:**

- Template purget og rensset.
- Duct Series opdateret:
  - Fleksible Kanaler
  - Lindab Rekt
  - Lindab SR
  - Lindab SR Standard

## Lokalisering DEN-MCREV-2020\_c

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumenterne DEN-MCREV-E-2019\_c.pdf og DEN-MCREV-MP-2019\_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_c\_r2018.mrv (dataset)**
- DEN-MCREV-2020\_c\_r2018.rte (Revit template)**
- DEN-MCREV-2020\_c\_r2018.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_c\_r2019.mrv (dataset)**
- DEN-MCREV-2020\_c\_r2019.rte (Revit template)**
- DEN-MCREV-2020\_c\_r2019.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_c\_r2020.mrv (dataset)**
- DEN-MCREV-2020\_c\_r2020.rte (Revit template)**
- DEN-MCREV-2020\_c\_r2020.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

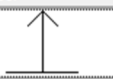
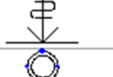
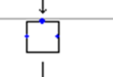
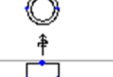
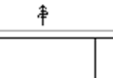
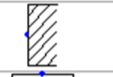
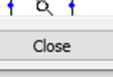


Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

## Dataset

### Schematics

- Tilføjet symboler til dataet filen, til brug med MC Schematics.

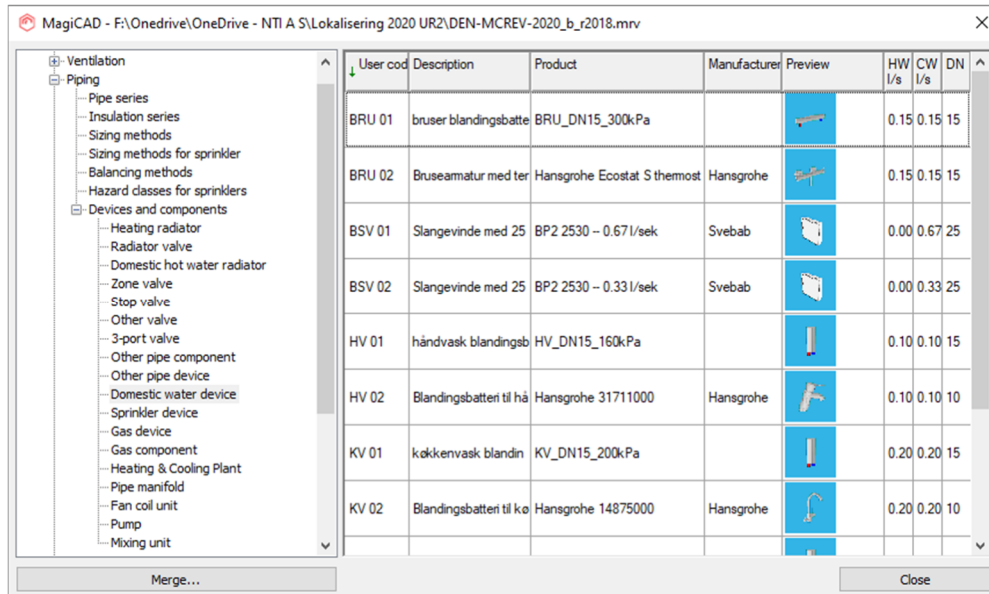
MagiCAD - F:\Onedrive\OneDrive - NTI A S\Lokalisering 2020 UR2\DEN-MCREV-2020\_b\_r2018.mrv









Dataset:	User code	Description	Symbol
Ventilation	232-01	232-01_Indblæsningsamatur, på kanal	
Piping	232-02	232-02_Udsugningsamatur, på kanal	
Drainage	232-03	232-03-2_Anemostat, indblæsning	
Electrical	232-03	232-03-1_Anemostat, indblæsning	
Communication and data	232-04	232-04-2_Anemostat, udsugning	
Cable routes	232-04	232-04-1_Anemostat, udsugning	
Schematics	232-05	232-05_Rense og inspektionslem	
E - 1	232-06	232-06_Rist i væg	
E - 2	232-07	232-07_Spæld	
E - skema 1			
E - skema 2			
P			
V			
232 - Tilbehør			
233 - Udstyr			
VP - Reguleringsudstyr & instrumenter			
Variable settings			
Provision for builderswork openings			
Report templates for Bill of Materials			
Legend templates			
Dataset settings			

Merge... Close

## Products

- Ændret navngivning på produkter så den korrekte benævnelse er der, fra Pa til kPa – devices and components



User cod	Description	Product	Manufacturer	Preview	HW I/s	CW I/s	DN
BRU 01	bruser blandingsbatte	BRU_DN15_300kPa			0.15	0.15	15
BRU 02	Bruseamatur med ter	Hansgrohe Ecostat S thermostat	Hansgrohe		0.15	0.15	15
BSV 01	Slangevinde med 25	BP2 2530 – 0.67l/sek	Svebab		0.00	0.67	25
BSV 02	Slangevinde med 25	BP2 2530 – 0.33l/sek	Svebab		0.00	0.33	25
HV 01	håndvask blandingsb	HV_DN15_160kPa			0.10	0.10	15
HV 02	Blandingsbatteri til hå	Hansgrohe 31711000	Hansgrohe		0.10	0.10	10
KV 01	køkkenvask blandin	KV_DN15_200kPa			0.20	0.20	15
KV 02	Blandingsbatteri til kø	Hansgrohe 14875000	Hansgrohe		0.20	0.20	10

- Tilføjet ESNU S og ESNU E i hhv. Supply air device og extract air device. Vær opmærksom på at tryktabs data ikke er verificeret.

	Perforeret diffusor	PKA MBB	Lindab	
	Perforeret diffusor	PCA MBB	Lindab	
	Exhaust valve	KSU	Lindab	
	Endebund med net	ESNU E		

## Template

### View templates, Filtre:

- Nye Molio farver for ventilation er ændret i template







Tabel for præsenterationsform - Ventilation

Forkortelse		Farve (RGB)
<b>Ventilation</b>		
	Ventilation, disponering	000-255-000
INDT	Ventilation, udeluft (indtag)	141-189-000
AFK	Ventilation, afkastluft (afkast)	000-129-064
VG(F/R)	Ventilation, omluft (varmegenvinding (Frem/Retur))	000-255-000
VI	Ventilation, billuft (indblæsning)	255-000-000
VU	Ventilation, fraluft (udsugning)	000-000-255
RVE	Ragventilation	255-126-000

- Derudover er alle duct systems sat til no override i line weight, samt no override i line pattern. Så bliver mech hidden line vist korrekt.
- VP\_Insulation filteret er fjernet på alle work view der har med ducts at gøre, det var overflødig på ducts, men det er stadigvæk på pipes work views,

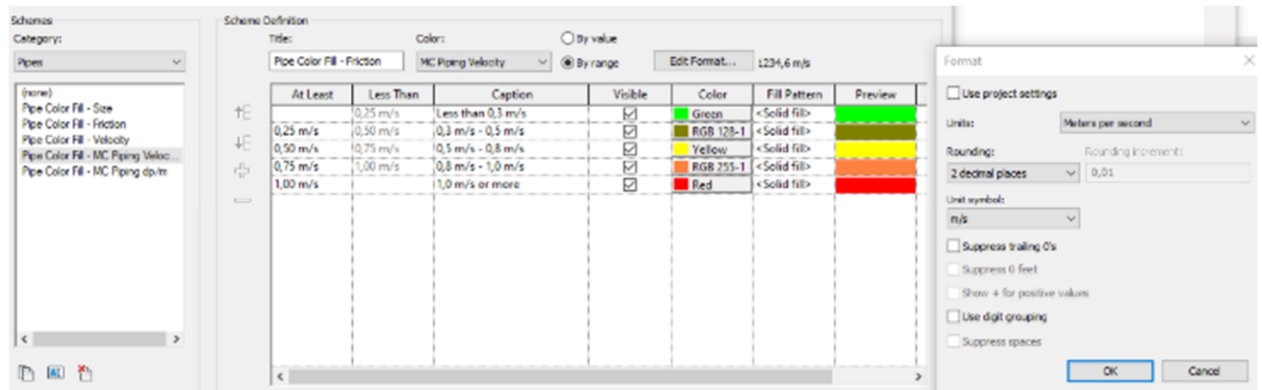
SECTION/VIEW/WORKVIEW/USE NOT...	<input type="checkbox"/>		
VP_Insulation	<input checked="" type="checkbox"/>		50%

- Tilføjer fliter S-KON til viewtemplate WORK-3\_C\_\_CLASH – Solid fill = White
- Fjernet kategorien Floor fra all QA Viewtemplates
- 3D HEATING viewtemplate er der slukket for MagiCAD\_Circulation\_Point
- QA\_\_3\_P\_\_MC PIPING dp/m er filter ændret så farverne passer med nedenstående indstillinger.

P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)	<input type="checkbox"/>			
P__Sanitary (System Classification)	<input type="checkbox"/>			
P__Pipework MC Piping dp/m mindre end 0,050 kPa	<input checked="" type="checkbox"/>			
P__Pipework MC Piping dp/m større end 0,100 kPa	<input checked="" type="checkbox"/>			
P__Pipework MC Piping dp/m større end 0,050 kPa og mindre end 0,1...	<input checked="" type="checkbox"/>			

- QA\_\_P\_P\_\_MC PIPING VELOCITY color scheme er nu med 2 decimaler





### Generelt:

- Template purget og rensset.
- Duct Series opdateret:
  - Fleksible Kanaler
  - Lindab Rekt
  - Lindab SR
  - Lindab SR Standard

## Lokalisering DEN-MCREV-2020\_b

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der ud over beskrivelsen i dette dokument, er beskrevet i dokumenterne DEN-MCREV-E-2019\_c.pdf og DEN-MCREV-MP-2019\_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_b\_r2018.mrv (dataset)**
- DEN-MCREV-2020\_b\_r2018.rte (Revit template)**
- DEN-MCREV-2020\_b\_r2018.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_b\_r2019.mrv (dataset)**
- DEN-MCREV-2020\_b\_r2019.rte (Revit template)**
- DEN-MCREV-2020\_b\_r2019.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_b\_r2020.mrv (dataset)**
- DEN-MCREV-2020\_b\_r2020.rte (Revit template)**
- DEN-MCREV-2020\_b\_r2020.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

## Dataset

### Ventilation

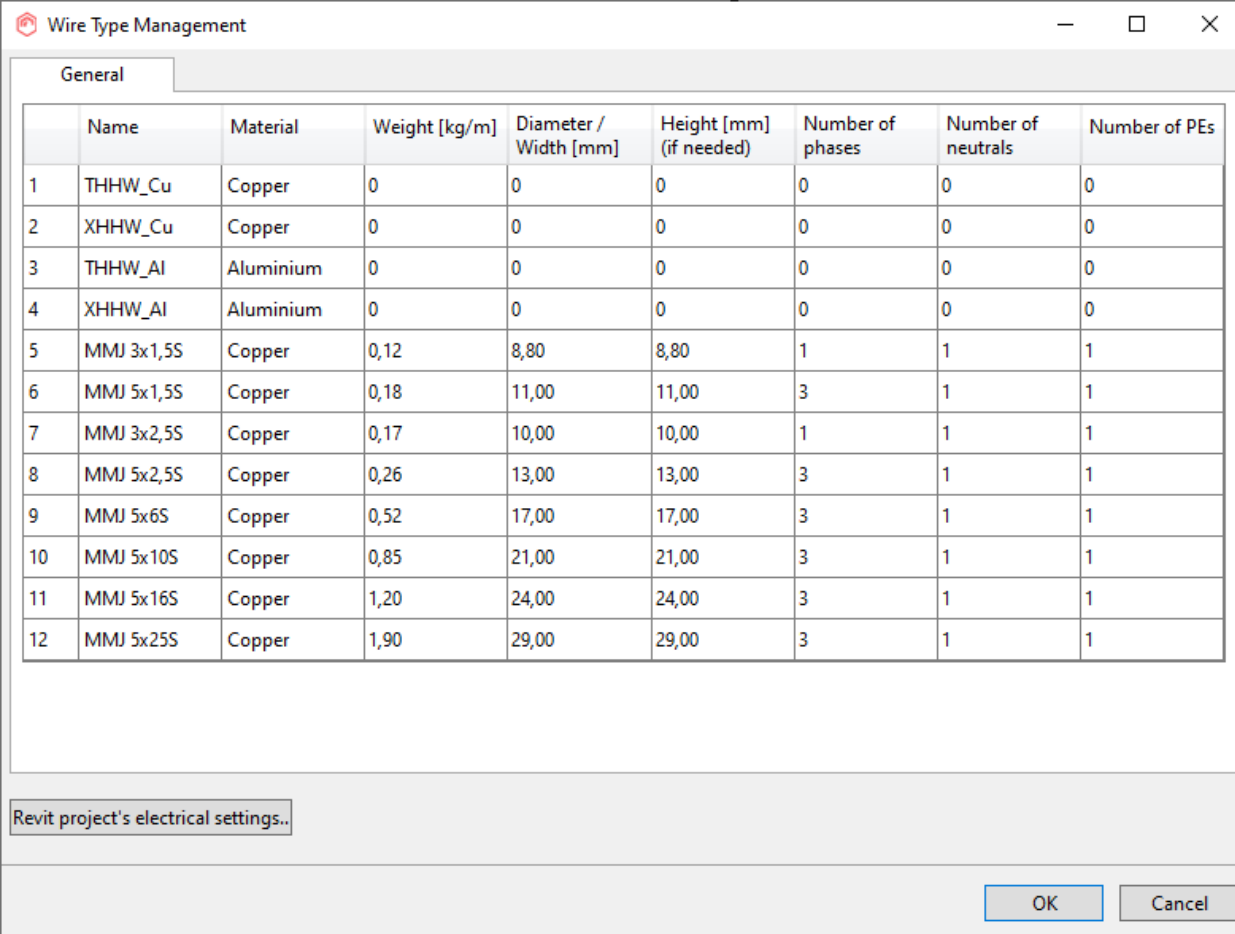
- Flangen LS LOOSE på rekt kanaler er ændret til LS\_L da LS LOOSE i visse tilfælde gav årsag til fejl.
- På serien Lindab Rekt er flangerne LS og LS Loose skiftet ud med RJFP og RJFP\_L, da disse i dag leveres som standard fra Lindab. LS og LS Loose (nu LS\_L) er bevaret i datasettet.
- På serien Lindab Rekt er Duct Joint MAGIJ-R-\*-\* er udskiftet med MAGIJ-R2. Dette for at flangens størrelse ikke påvirker kanal-længder.

### Afløb

- N-Branch er tilføjet drainage serien MA Afløb.

### EI

- Data for nye Wiring Types tilføjet:



	Name	Material	Weight [kg/m]	Diameter / Width [mm]	Height [mm] (if needed)	Number of phases	Number of neutrals	Number of PEs
1	THHW_Cu	Copper	0	0	0	0	0	0
2	XHHW_Cu	Copper	0	0	0	0	0	0
3	THHW_AI	Aluminium	0	0	0	0	0	0
4	XHHW_AI	Aluminium	0	0	0	0	0	0
5	MMJ 3x1,5S	Copper	0,12	8,80	8,80	1	1	1
6	MMJ 5x1,5S	Copper	0,18	11,00	11,00	3	1	1
7	MMJ 3x2,5S	Copper	0,17	10,00	10,00	1	1	1
8	MMJ 5x2,5S	Copper	0,26	13,00	13,00	3	1	1
9	MMJ 5x6S	Copper	0,52	17,00	17,00	3	1	1
10	MMJ 5x10S	Copper	0,85	21,00	21,00	3	1	1
11	MMJ 5x16S	Copper	1,20	24,00	24,00	3	1	1
12	MMJ 5x25S	Copper	1,90	29,00	29,00	3	1	1

Revit project's electrical settings..

OK Cancel

## Template


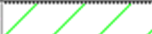





### **View Types, View templates, Filtre, og Schedules:**

- Floor Pattern visibility slukket i view templates for planer.
- Ny View Template: QA\_\_P\_P\_\_MC PIPING VELOCITY med ny Pipe Legend: MC Piping Velocity
- Ny View Template: QA\_\_P\_P\_\_MC PIPING dp/m med ny Pipe Legend:MC PIPING dp/m
- Ny View Template: QA\_\_3\_P\_\_MC PIPING VELOCITY med følgende filtre:
  - P\_\_Pipework MC Piping Velocity mindre end 0,25 m/sek
  - P\_\_Pipework MC Piping Velocity større end 0,25 m/sek og mindre end 0,50 m/sek
  - P\_\_Pipework MC Piping Velocity større end 0,50 m/sek og mindre end 0,75 m/sek
  - P\_\_Pipework MC Piping Velocity større end 0,75 m/sek og mindre end 1,00 m/sek
  - P\_\_Pipework MC Piping Velocity større end 1,00 m/sek
- Ny View Template: QA\_\_3\_P\_\_MC PIPING dp/m med følgende filtre:
  - P\_\_Pipework MC Piping dp/m mindre end 0,050 kPa
  - P\_\_Pipework MC Piping dp/m større end 0,050 kPa og mindre end 0,100 kPa
  - P\_\_Pipework MC Piping dp/m større end 0,100 kPa
- Ny View Template: QA\_\_P\_E\_ELECTRICAL PANEL på baggrund af WORK\_P\_E\_ELECTRICAL, med følgende filter tilføjet:
  - E\_\_Panel tilsluttet komponenter
- Ny View Template QA\_\_P\_E\_ELECTRICAL SWITCH på baggrund af WORK\_P\_E\_ELECTRICAL, med følgende filter tilføjet:
  - E\_\_Panel tilsluttet komponenter
  - E\_\_Switch tilsluttet komponenter
- View Type QA\_\_P\_\_HEATING VELOCITY anvender nu View Template QA\_\_P\_P\_\_MC PIPING VELOCITY
- View Type QA\_\_P\_\_HEATING FRICTION anvender nu View Template QA\_\_P\_P\_\_MC PIPING dp/m
- Filtre på View Template QA\_\_3\_V\_\_VELOCITY er ændret til at skille ved 3, 5, 7, og 9 m/sek.

- Filtre tilføjet til View Template WORK\_3\_C\_\_CLASH:

Visibility/Graphic Overrides for WORK\_3\_C\_\_CLASH

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

Name	Visibility	Projection/Surface		
		Lines	Patterns	Transparency
E_KABELBAKKE	<input checked="" type="checkbox"/>			
E_GITTERBAKKE	<input checked="" type="checkbox"/>			
E_ALMENFØRINGSVEJ	<input checked="" type="checkbox"/>			
E_KABELSTIGE	<input checked="" type="checkbox"/>			
E_LADDER	<input checked="" type="checkbox"/>			

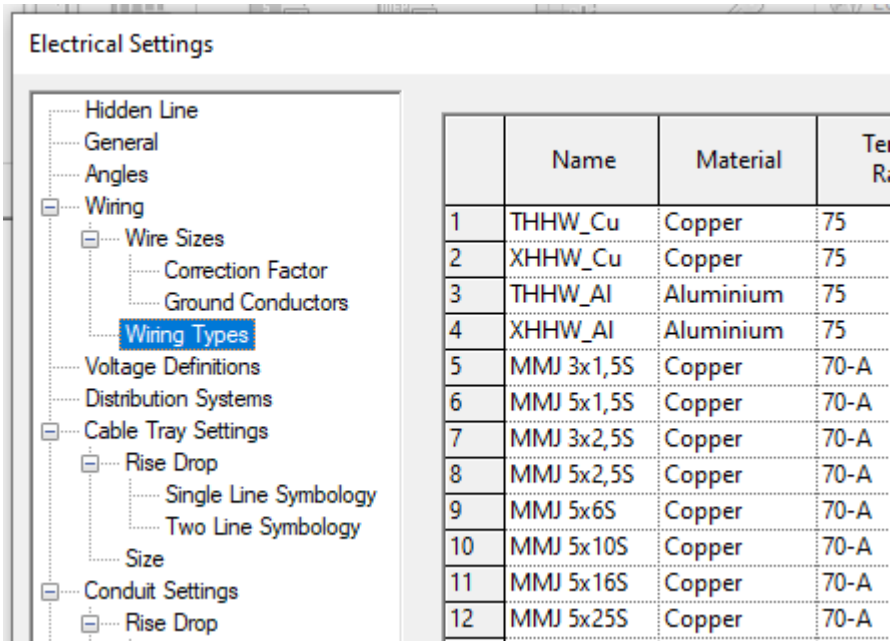
- Filtre for P\_VF og P\_VR ændret, så de styres af BEGINS WITH (VF/VR) i stedet for EQUALS (VF/VR)
- Isolering transparens styres kun vha. Filtre, og ikke både via filtre og Model Categories.
- Schedule «Rumskema» er erstattet af «Room Schedule» der kigger på Rooms, også fra linkede filer.
- Oprettet Space Schedule til brug for Spaces i den aktuelle i model. Kigger som udgangspunkt ikke efter Spaces i linkede filer.
- Cut Plane offset er ændret til 1800mm på SHEET loftplaner.
- Cut Plane offset er ændret til 10mm på WORK loftplaner

### **Families:**

- Detail Items: VARME, FREM (samt primær og sekundær) er flyttet til at ligge under MC Heating Supply og VARME, RETUR (samt primær og sekundær) er flyttet til MC Heating Supply.
- Generic Annotation family MC\_VERTICAL\_0\_DATA opdateret (anvendes på Switchboard Schematic Sheets).
- Origin family flyttet fra Level til Ref. Plane. Derved bevares Origin familien, selv hvis level slettes (evt. i forbindelse med Copy/monitor).

## MEP Settings:

- Nye Wiring Types oprettet:



	Name	Material	Termination Rating
1	THHW_Cu	Copper	75
2	XHHW_Cu	Copper	75
3	THHW_Al	Aluminium	75
4	XHHW_Al	Aluminium	75
5	MMJ 3x1,5S	Copper	70-A
6	MMJ 5x1,5S	Copper	70-A
7	MMJ 3x2,5S	Copper	70-A
8	MMJ 5x2,5S	Copper	70-A
9	MMJ 5x6S	Copper	70-A
10	MMJ 5x10S	Copper	70-A
11	MMJ 5x16S	Copper	70-A
12	MMJ 5x25S	Copper	70-A

## Generelt:

- Template purget og rensset.
- Duct Series opdateret:
  - Fleksible Kanaler
  - Lindab Rekt
  - Lindab SR
  - Lindab SR Standard

## Lokalisering DEN-MCREV-2020\_a

Denne lokalisering indeholder både EL, VVS og VENTILATION og bygger oven på de tidligere lokaliseringer, der er beskrevet i dokumenterne DEN-MCREV-E-2019\_c.pdf og DEN-MCREV-MP-2019\_c.pdf

Bortset fra filformatet er lokaliseringen til Revit 2020 og Revit 2019 identisk med lokaliseringen til Revit 2018.

MP lokalisering til MagiCAD på Revit 2018, består ud over dette dokument af fire filer.

- DEN-MCREV-2020\_a\_r2018.mrv (dataset)**
- DEN-MCREV-2020\_a\_r2018.rte (Revit template)**
- DEN-MCREV-2020\_a\_r2018.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2019, består ud over dette dokument af fire filer.

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- DEN-MCREV-2020\_a\_r2019.rte (Revit template)**
- DEN-MCREV-2020\_a\_r2019.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**

MP lokalisering til MagiCAD på Revit 2020, består ud over dette dokument af fire filer.

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- DEN-MCREV-2020\_a\_r2020.rte (Revit template)**
- DEN-MCREV-2020\_a\_r2020.mcd (description fil)**
- NTItools\_DK\_MEP\_Shared parameters .txt**



Herudover indeholder lokaliseringen nogle tegningshoveder, tegningsrammer og tags

## Dataset

### Mixing Unit

2 shunts er tilføjet. Det er blevet muligt at size og indregulere med disse.

MagiCAD - C:\Users\jhe\Desktop\2020 MR\MagiCAD-RS\_DEN\2020\_r2018\Datasets\DEN-MCREV-2020\_a\_r2018.mrv

User code	Description	Product	Manufa	Preview
	FHM-C Mixing shunt Alpha 2 15-40 pump	FHM-C8-088U0098	Danfoss	
	Shunt unit for district heating or cooling, primary circuit co	Top-25 P-1-2 S-3-4 CVP	Generic	

Left sidebar categories:

- Balancing methods
- Hazard classes for sprinklers
- Devices and components
  - Heating radiator
  - Radiator valve
  - Domestic hot water radiator
  - Zone valve
  - Stop valve
  - Other valve
  - Other pipe component
  - Other pipe device
  - Domestic water device
  - Sprinkler device
  - Gas device
  - Gas component
  - Heating & Cooling Plant
  - Pipe manifold
  - Fan coil unit
  - Pump
  - Mixing unit



## Provision for Builderswork Openings

Ved generering af "Provision for Builderswork Openings" tilføjes nu en time stamp.

Det er blevet muligt at koble symboler til "Provision for Builderswork Openings"

Provision for Builderswork Openings - Options

Offset

	Ventilation	Piping	Electrical
Below/around rectangular objects (h1):	50 mm		50 mm
Around circular objects (h2):	50 mm	20 mm	50 mm
Above rectangular objects (h3):	50 mm		100 mm
Extra offset around fire or flow dampers:	50 mm		
Merge into a single opening if distance between adjacent openings is less than (h4):	100 mm		

Use BWO size ranges (if set)

Limits

Min. diameter for circular openings:	25 mm
Circular openings become rectangular openings if diameter	400 mm
Rounding step:	50 mm
Rounding down limit:	20 mm
Ignore circular openings smaller than:	20 mm
Tolerance for combining collinear openings:	100 mm

Owner

Ventilation:	V
Piping:	HP
Plumbing:	P
Sprinkler:	S
Electrical:	E

Time

Time format: YYYY.MM.DD HH:MM

2D symbols

Select...

OK Cancel

2D Symbols

Horizontal

	ROUND Penetrating	ROUND Recess	RECTANGULAR Penetrating	RECTANGULAR Recess
Wall Plan view				
Wall Elevation				
Wall Section				

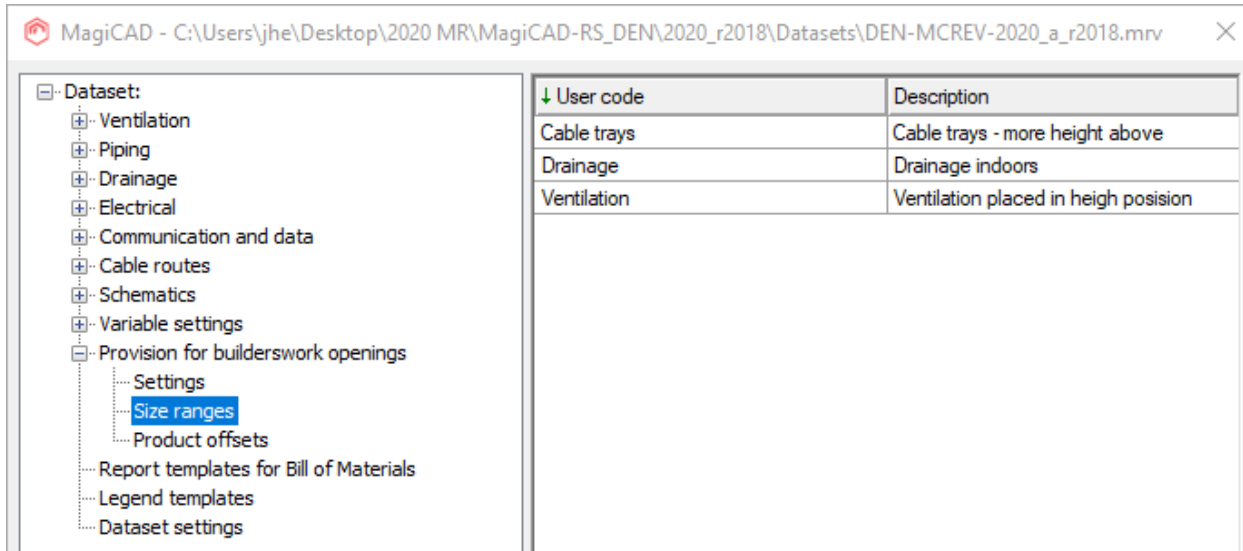
Vertical

	ROUND Penetrating	ROUND Recess	RECTANGULAR Penetrating	RECTANGULAR Recess
Floor / roof Plan view				
Floor / roof Section				

OK Cancel

”Size ranges” blev allerede muligt med 2019 UR1.

Forslag hertil er nu tilføjet til datasettet.

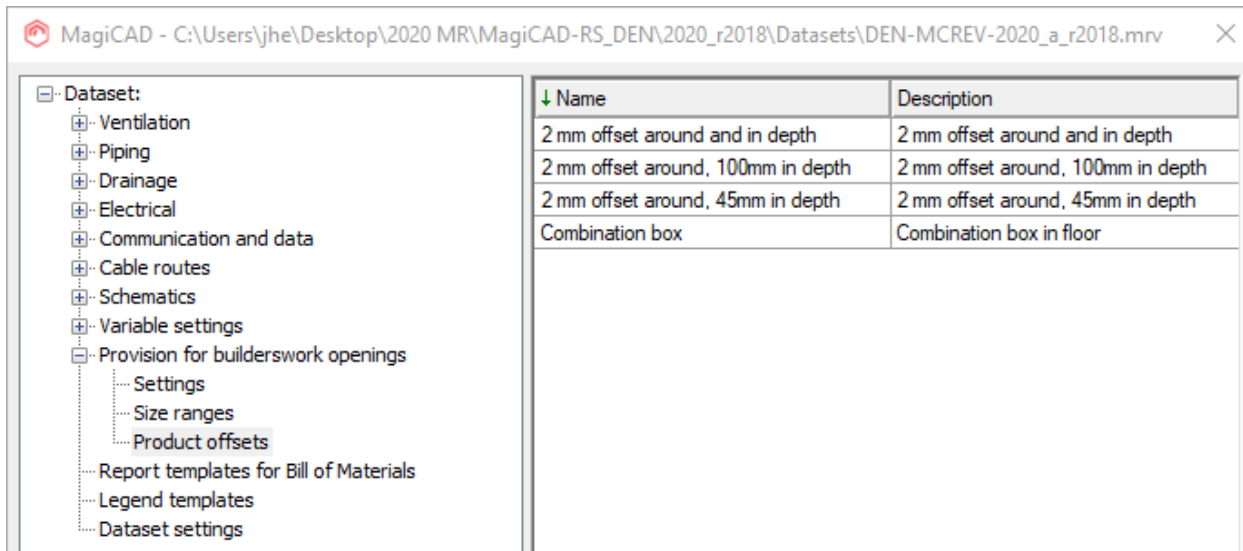


The screenshot shows the MagiCAD interface with the following table displayed:

User code	Description
Cable trays	Cable trays - more height above
Drainage	Drainage indoors
Ventilation	Ventilation placed in heigh position

”Product offsets” blev allerede muligt med 2019 UR2

Forslag hertil er nu tilføjet til datasettet.



The screenshot shows the MagiCAD interface with the following table displayed:

Name	Description
2 mm offset around and in depth	2 mm offset around and in depth
2 mm offset around, 100mm in depth	2 mm offset around, 100mm in depth
2 mm offset around, 45mm in depth	2 mm offset around, 45mm in depth
Combination box	Combination box in floor

## Template

Navngivningen af viewtemplates og viewtyper følger standarden nedenfor.

	VIEW USE	
WORK	1_WORK	ARBEJDSVIEWS
SHEET	2_SHEET	VIEWS OPSAT TIL PLOT
EXPORT	3_EXPORT	VIEWS OPSAT TIL EKSPORT
QUALITY ASSURANCE	4_QA	KVALITETSIKRING

	VIEW TYPE	
PLAN	P	PLAN
CEILING	C	LOFTPLAN
SECTION	S	SNIT OG OPSTALTER
3D	3	3d
DIAGRAM	D	PRINCIPDIAGRAMMER

	MagiCAD DICIPLINE	
ARCHITECTURE	A	ARKITEKT
COORDINATION	C	KOORDINERING
ELECTRICAL	E	EL
PIPING	P	VVS
STRUCTURE	S	BÆRENDE KONSTRUKTIONER
VENTILATION	V	VENTILATION

MagiCAD SUB-DICIPLINE	
PROVISION FOR BUILDERSWORK OPENINGS	UDSPARINGER
QA	KVALITETSIKRING
FRICITION	Pa/m
SPACE SOUND	dB
VELOCITY	m/sek
SPATIAL COMPOSITION	OPSAT TIL NTI SPATIAL COMPOSITION
DOMESTIC WATER	BRUGSVAND
DRAINAGE	AFLØB
HEATING	OPVARMNING
SPRINKLER	SPRINKLER
LIGHTING	BELYSNING

**SUB-DICIPLINE = MagiCAD DICIPLINE\_ MagiCAD SUB-DICIPLINE**

## Viewtemplates

### VIEW USE \_VIEW TYPE\_ MagiCAD-DICIPLINE\_ MagiCAD SUB-DICIPLINE

<p>View templates</p> <p>Discipline filter: &lt;all&gt;</p> <p>View type filter: 3D Views, Walkthroughs</p> <p>Names:</p> <ul style="list-style-type: none"> <li>QA_3_C_PROVISION FOR BUILDERSWORK OPENINGS</li> <li>QA_3_P_HEATING FRICTION</li> <li>QA_3_P_HEATING VELOCITY</li> <li>QA_3_V_FRICTION</li> <li>QA_3_V_QA</li> <li>QA_3_V_VELOCITY</li> <li>SHEET_3_C_SPATIAL COMPOSITION</li> <li>SHEET_3_E_ELECTRICAL</li> <li>SHEET_3_E_SPATIAL COMPOSITION</li> <li>SHEET_3_P_DOMESTIC WATER</li> <li>SHEET_3_P_DRAINAGE</li> <li>SHEET_3_P_HEATING</li> <li>SHEET_3_P_PIPING</li> <li>SHEET_3_P_SPRINKLER</li> <li>SHEET_3_V_VENTILATION</li> <li>SHEET_3_VP_SPATIAL COMPOSITION</li> <li>SHEET_3_VP_VENTILATION &amp; PIPING</li> <li>WORK_3_C_CLASH</li> <li>WORK_3_C_COORDINATION</li> <li>WORK_3_E_ELECTRICAL</li> <li>WORK_3_P_DOMESTIC WATER</li> <li>WORK_3_P_DRAINAGE</li> <li>WORK_3_P_HEATING</li> <li>WORK_3_P_PIPING</li> <li>WORK_3_P_SPRINKLER</li> <li>WORK_3_V_VENTILATION</li> <li>WORK_3_VP_VENTILATION &amp; PIPING</li> </ul>	<p>View templates</p> <p>Discipline filter: &lt;all&gt;</p> <p>View type filter: Elevations, Sections, Detail Views</p> <p>Names:</p> <ul style="list-style-type: none"> <li>SHEET_S_C_COORDINATION</li> <li>SHEET_S_E_ELECTRICAL</li> <li>SHEET_S_P_DOMESTIC WATER</li> <li>SHEET_S_P_DRAINAGE</li> <li>SHEET_S_P_HEATING</li> <li>SHEET_S_P_PIPING</li> <li>SHEET_S_P_SPRINKLER</li> <li>SHEET_S_V_VENTILATION</li> <li>SHEET_S_VP_SPATIAL COMPOSITION</li> <li>SHEET_S_VP_VENTILATION &amp; PIPING</li> <li>WORK_S_C_CLASH</li> <li>WORK_S_C_COORDINATION</li> <li>WORK_S_E_ELECTRICAL</li> <li>WORK_S_P_DOMESTIC WATER</li> <li>WORK_S_P_DRAINAGE</li> <li>WORK_S_P_HEATING</li> <li>WORK_S_P_PIPING</li> <li>WORK_S_P_SPRINKLER</li> <li>WORK_S_V_VENTILATION</li> <li>WORK_S_VP_VENTILATION &amp; PIPING</li> </ul>
<p>View templates</p> <p>Discipline filter: &lt;all&gt;</p> <p>View type filter: Ceiling Plans</p> <p>Names:</p> <ul style="list-style-type: none"> <li>SHEET_C_C_COORDINATION</li> <li>SHEET_C_E_ELECTRICAL</li> <li>SHEET_C_P_PIPING</li> <li>SHEET_C_V_VENTILATION</li> <li>SHEET_C_VP_VENTILATION &amp; PIPING</li> <li>SHEET_C_VPE_VENTILATION &amp; PIPING &amp; ELECTRICAL</li> <li>WORK_C_C_COORDINATION</li> <li>WORK_C_E_ELECTRICAL</li> <li>WORK_C_P_PIPING</li> <li>WORK_C_V_VENTILATION</li> <li>WORK_C_VP_VENTILATION &amp; PIPING</li> </ul>	<p>View templates</p> <p>Discipline filter: &lt;all&gt;</p> <p>View type filter: Floor, Structural, Area Plans</p> <p>Names:</p> <ul style="list-style-type: none"> <li>QA_P_C_PROVISION FOR BUILDERSWORK OPENINGS</li> <li>QA_P_P_HEATING FRICTION</li> <li>QA_P_P_HEATING VELOCITY</li> <li>QA_P_V_FRICTION</li> <li>QA_P_V_QA</li> <li>QA_P_V_SPACE SOUND</li> <li>QA_P_V_VELOCITY</li> <li>SHEET_P_C_COORDINATION</li> <li>SHEET_P_E_ELECTRICAL</li> <li>SHEET_P_E_LIGHTING</li> <li>SHEET_P_E_SPATIAL COMPOSITION</li> <li>SHEET_P_P_DOMESTIC WATER</li> <li>SHEET_P_P_DRAINAGE</li> <li>SHEET_P_P_HEATING</li> <li>SHEET_P_P_PIPING</li> <li>SHEET_P_P_SPRINKLER</li> <li>SHEET_P_V_VENTILATION</li> <li>SHEET_P_VP_SPATIAL COMPOSITION</li> <li>SHEET_P_VP_VENTILATION &amp; PIPING</li> <li>WORK_P_C_CLASH</li> <li>WORK_P_C_COORDINATION</li> <li>WORK_P_E_ELECTRICAL</li> <li>WORK_P_E_LIGHTING</li> <li>WORK_P_P_DOMESTIC WATER</li> <li>WORK_P_P_DRAINAGE</li> <li>WORK_P_P_HEATING</li> <li>WORK_P_P_PIPING</li> <li>WORK_P_P_SPRINKLER</li> <li>WORK_P_V_VENTILATION</li> <li>WORK_P_VP_VENTILATION &amp; PIPING</li> </ul>
<p>View templates</p> <p>Discipline filter: &lt;all&gt;</p> <p>View type filter: Renderings, Drafting Views</p> <p>Names:</p> <ul style="list-style-type: none"> <li>SHEET_D_VP_VENTILATION &amp; PIPING</li> </ul>	

## Viewtype

VIEW USE\_ MagiCAD-DICIPLINE\_ SUB-DICIPLINE

System Family: Floor Plan
WORK_C__COORDINATION
Floor Plan QA__C__PROVISION FOR BUILDERSWORK OPENINGS QA__P__HEATING FRICTION QA__P__HEATING VELOCITY QA__V__FRICTION QA__V__QA QA__V__SPACE SOUND QA__V__VELOCITY SHEET_E__ELECTRICAL SHEET_E__LIGHTING SHEET_P__DOMESTIC WATER SHEET_P__DRAINAGE SHEET_P__HEATING SHEET_P__PIPING SHEET_P__SPRINKLER SHEET_V__VENTILATION SHEET_VP__SPATIAL COMPOSITION SHEET_VP__VENTILATION & PIPING WORK_C__CLASH <b>WORK_C__COORDINATION</b> WORK_E__ELECTRICAL WORK_P__DOMESTIC WATER WORK_P__DRAINAGE WORK_P__HEATING WORK_P__PIPING WORK_P__SPRINKLER WORK_V__VENTILATION WORK_VP__VENTILATION & PIPING
System Family: Section
WORK_C__COORDINATION
Building Section Building Section Classic SHEET_E__ELECTRICAL SHEET_E__LIGHTING SHEET_P__DOMESTIC WATER SHEET_P__DRAINAGE SHEET_P__HEATING SHEET_P__PIPING SHEET_P__SPRINKLER SHEET_V__VENTILATION SHEET_VP__SPATIAL COMPOSITION SHEET_VP__VENTILATION & PIPING WORK_C__CLASH <b>WORK_C__COORDINATION</b> WORK_E__ELECTRICAL WORK_P__DOMESTIC WATER WORK_P__DRAINAGE WORK_P__HEATING WORK_P__PIPING WORK_P__SPRINKLER WORK_V__VENTILATION WORK_VP__VENTILATION & PIPING

System Family: 3D View ▼

3D View ▼

3D View  
SHEET\_E\_\_ SPATIAL COMPOSITION  
SHEET\_VP\_\_ SPATIAL COMPOSITION

System Family: Elevation ▼

WORK\_C\_\_ COORDINATION ▼

Building Elevation  
WORK\_C\_\_ COORDINATION

System Family: Ceiling Plan ▼

Ceiling Plan ▼

Ceiling Plan

System Family: Drafting View ▼

Detail ▼

Detail

## Filters

Filters

- [-] Rule-based Filters
  - Detail Item BRUGSVAND, CIRKULATION
  - Detail Item BRUGSVAND, KOLDT
  - Detail Item BRUGSVAND, VARMT
  - Detail Item GULVVARME, FREM
  - Detail Item GULVVARME, RETUR
  - Detail Item KØLING, FREM
  - Detail Item KØLING, RETUR
  - Detail Item SPRINKLERANLÆG
  - Detail Item VARME, FREM
  - Detail Item VARME, FREM, PRIMÆR
  - Detail Item VARME, FREM, SEKUNDÆR
  - Detail Item VARME, RETUR
  - Detail Item VARME, RETUR, PRIMÆR
  - Detail Item VARME, RETUR, SEKUNDÆR
  - Detail Item VENTILATION, AFKAST
  - Detail Item VENTILATION, INDBLÆSNING
  - Detail Item VENTILATION, INDTAG
  - Detail Item VENTILATION, UDSUGNING
  - E\_\_ALMENFØRINGSVEJ
  - E\_\_BELYSNINGSANLÆG
  - E\_\_GITTERBAKKE
  - E\_\_KABELBAKKE
  - E\_\_KABELSTIGE
  - E\_\_LADDER
  - E\_\_LAVSPÆNDING
  - E\_\_MC Is Inside Combination Box
  - E\_\_RØR\_I\_BYGNING
  - E\_\_RØR\_I\_TERRÆN
  - P\_\_BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation)
  - P\_\_BK - BRUGSVAND (#1), KOLDT (System Abbreviation)
  - P\_\_BV - BRUGSVAND (#1), VARMT (System Abbreviation)
  - P\_\_DV - DRÆN(VAND) (System Abbreviation)
  - P\_\_GVF - GULVVARME, FREM (System Abbreviation)
  - P\_\_GVR - GULVVARME, RETUR (System Abbreviation)
  - P\_\_Hydronic (System Classification)
  - P\_\_KF - KØLING, FREM (System Abbreviation)
  - P\_\_KR - KØLING, RETUR (System Abbreviation)
  - P\_\_Pipe Accessories
  - P\_\_Pipework
  - P\_\_Pipework friction mindre end 100 Pa/m
  - P\_\_Pipework friction større end 100 Pa/m mindre end 150 Pa/m
  - P\_\_Pipework friction større end 150 Pa/m
  - P\_\_Pipework velocity mindre end 0,25 m/sek
  - P\_\_Pipework velocity større end 0,25 m/sek og mindre end 0,50 m/sek
  - P\_\_Pipework velocity større end 0,50 m/sek og mindre end 0,75 m/sek
  - P\_\_Pipework velocity større end 0,75 m/sek og mindre end 1,00 m/sek
  - P\_\_Pipework velocity større end 1,00 m/sek
  - P\_\_Plumbing Fixture
  - P\_\_Plumbing Fixture Domestic (System Classification)
  - P\_\_Plumbing Fixture Sanitary (System Classification)
  - P\_\_Sanitary (System Classification)
  - P\_\_SPR - SPRINKLERANLÆG, RØR (System Abbreviation)
  - P\_\_Sprinklers
  - P\_\_SV - AFLØB, SPILDEVAND (System Abbreviation)
  - P\_\_TV - AFLØB, TAG-(REGN)VAND - (System Abbreviation)
  - P\_\_VF - VARME, FREM (System Abbreviation)
  - P\_\_VR - VARME, RETUR (System Abbreviation)
  - S\_\_KON

- Sections/Elev/Cal (SUB-DICIPLINE not C \_\_CLASH)
  - Sections/Elev/Cal (SUB-DICIPLINE not C \_\_COORDINATION)
  - Sections/Elev/Cal (SUB-DICIPLINE not C \_\_PROVISION FOR BUILDERSWORK OPENINGS)
  - Sections/Elev/Cal (SUB-DICIPLINE not C \_\_SPATIAL COMPOSITION)
  - Sections/Elev/Cal (SUB-DICIPLINE not E \_\_ELECTRICAL)
  - Sections/Elev/Cal (SUB-DICIPLINE not E \_\_LIGHTING)
  - Sections/Elev/Cal (SUB-DICIPLINE not E \_\_SPATIAL COMPOSITION)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_DOMESTIC WATER)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_DRAINAGE)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_HEATING FRICTION)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_HEATING VELOCITY)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_HEATING)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_PIPING)
  - Sections/Elev/Cal (SUB-DICIPLINE not P \_\_SPRINKLER)
  - Sections/Elev/Cal (SUB-DICIPLINE not V \_\_FRICTION)
  - Sections/Elev/Cal (SUB-DICIPLINE not V \_\_QA)
  - Sections/Elev/Cal (SUB-DICIPLINE not V \_\_SPACE SOUND)
  - Sections/Elev/Cal (SUB-DICIPLINE not V \_\_VELOCITY)
  - Sections/Elev/Cal (SUB-DICIPLINE not V \_\_VENTILATION)
  - Sections/Elev/Cal (SUB-DICIPLINE not VP \_\_SPATIAL COMPOSITION)
  - Sections/Elev/Cal (SUB-DICIPLINE not VP \_\_VENTILATION & PIPING)
  - Sections/Elev/Cal (SUB-DICIPLINE not VPE\_VENTILATION & PIPING & ELECTRICAL)
  - Sections/Elev/Cal (VIEW-USE 2\_SHEET)
  - Sections/Elev/Cal (VIEW-USE not 1\_WORK)
  - Sections/Elev/Cal (VIEW-USE not 2\_SHEET)
  - Sections/Elev/Cal (VIEW-USE not 4\_QUALITY ASSURANCE)
  - V \_\_Afkast (Exhaust = System Classification)
  - V \_\_Air Terminals
  - V \_\_Duct Accessories
  - V \_\_Ductwork
  - V \_\_Ductwork friction mindre end 0,6 Pa/m
  - V \_\_Ductwork friction større end 0,6 Pa/m mindre end 0,8 Pa/m
  - V \_\_Ductwork friction større end 0,8 Pa/m mindre end 1,0 Pa/m
  - V \_\_Ductwork friction større end 1,0 Pa/m
  - V \_\_Ductwork velocity mindre end 3 m/sek
  - V \_\_Ductwork velocity større end 3 m/sek mindre end 5 m/sek
  - V \_\_Ductwork velocity større end 5 m/sek mindre end 7 m/sek
  - V \_\_Ductwork velocity større end 7 m/sek mindre end 9 m/sek
  - V \_\_Ductwork velocity større end 9 m/sek
  - V \_\_Indblæsning (Supply = System Classification)
  - V \_\_KS
  - V \_\_Mechanical Equipment ((NOT Radiatorer) AND (NOT MC\_ConnectionNode\_Hydronic ))
  - V \_\_Udsugning (Return = System Classification)
  - V \_\_VENTILATION, AFKAST (System Abbreviation)
  - V \_\_VENTILATION, INDBLÆSNING (System Abbreviation)
  - V \_\_VENTILATION, INDTAG (System Abbreviation)
  - V \_\_VENTILATION, UDSUGNING (System Abbreviation)
  - VP \_\_Insulation
  - VP \_\_Mechanical Equipment
  - VP \_\_Mechanical Equipment (MC Void Provision)
  - VP \_\_Mechanical Equipment (MCSH)
  - VP \_\_Mechanical Equipment (not MagiCAD\_Circulation\_Point)
  - VP \_\_Mechanical Equipment (not MC Void Provision)
  - VP \_\_Mechanical Equipment (NOT MC\_ConnectionNode\_Hydronic )
  - VP \_\_Mechanical Equipment (not MCSH)
  - VP \_\_Mechanical Equipment (NOT Radiatorer)
  - VP \_\_Mechanical Equipment (NOT SystemClassification Air)
  - VP \_\_Mechanical Equipment (Radiatorer)
  - VP \_\_Mechanical Equipment (SystemClassification Air)
  - VP \_\_Mechanical Equipment UDSPARING Accepted
  - VP \_\_Mechanical Equipment UDSPARING Not accepted
  - VP \_\_Mechanical Equipment UDSPARING Postpone - No Action
  - VP \_\_Mechanical Equipment UDSPARING Rejected
  - VP \_\_Mechanical Equipment UDSPARING sent to production
  - VPE\_Is Linked In Schematic
- Selection Filters



***Quality Assurance***

Detaljeret beskrivelse af viewtemplates

**QA\_\_3\_C\_\_PROVISION FOR BUILDERSWORK OPENINGS**

PROVISION FOR BUILDERSWORK OPENINGS er nu Mechanical Equipments. Family Name er ændret.

**QA\_\_P\_C\_\_PROVISION FOR BUILDERSWORK OPENINGS**

PROVISION FOR BUILDERSWORK OPENINGS er nu Mechanical Equipments. Family Name er ændret.

### QA\_\_3\_P\_\_HEATING\_FRICTION

SUB-DICIPLINE	P__HEATING FRICTION	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Visibility/Graphic Overrides for QA\_\_3\_P\_\_HEATING FRICTION

Model Categories | Annotation Categories | Analytical Model Categories | Imported Categories | Filters

Name	Visibility	Projection/Surface	
		Lines	Patterns
VP__Mechanical Equipment (Radiatorer)	<input checked="" type="checkbox"/>		
VP__Mechanical Equipment (SystemClassification Air)	<input type="checkbox"/>		
VP__Mechanical Equipment MC Void Provision	<input type="checkbox"/>		
P__KF - KØLING, FREM (System Abbreviation)	<input type="checkbox"/>		
P__KR - KØLING, RETUR (System Abbreviation)	<input type="checkbox"/>		
P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation)	<input type="checkbox"/>		
P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation)	<input type="checkbox"/>		
P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation)	<input type="checkbox"/>		
P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)	<input type="checkbox"/>		
P__Sanitary (System Classification)	<input type="checkbox"/>		
P__Pipework friction mindre end 100 Pa/m	<input checked="" type="checkbox"/>		
P__Pipework friction større end 100 Pa/m mindre end 150 Pa/m	<input checked="" type="checkbox"/>		
P__Pipework friction større end 150 Pa/m	<input checked="" type="checkbox"/>		

### QA\_\_P\_P\_\_HEATING FRICTION

SUB-DICIPLINE	P__HEATING FRICTION	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Color Schemes

Categories	Color scheme
Pipes	Pipe Color Fill - Friction
Ducts	<none>

Edit Color Scheme

Schemes Category: Pipes

Scheme Definition: Title: Pipe Color Fill - Friction, Color: Friction, By range, Edit Format... 1.235 Pa/m

At Least	Less Than	Caption	Visible	Color	Fill Pattern	Preview
	100,000 Pa/m	Less than 100 Pa/m	<input checked="" type="checkbox"/>	Green	Solid fill	
100,000 Pa/m	150,000 Pa/m	100 Pa/m - 150 Pa/m	<input checked="" type="checkbox"/>	Yellow	Solid fill	
150,000 Pa/m		150 Pa/m or more	<input checked="" type="checkbox"/>	Red	Solid fill	

### QA\_\_3\_P\_\_HEATING VELOCITY

SUB-DICIPLINE	P__HEATING VELOCITY	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Visibility/Graphic Overrides for QA\_\_3\_P\_\_HEATING VELOCITY

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

Name	Visibility	Projection/Surface	
		Lines	Patterns
VP__Mechanical Equipment (Radiatorer)	<input checked="" type="checkbox"/>		
VP__Mechanical Equipment (SystemClassification Air)	<input type="checkbox"/>		
VP__Mechanical Equipment MC Void Provision	<input type="checkbox"/>	Override...	Override...
P__KF - KØLING, FREM (System Abbreviation)	<input type="checkbox"/>		
P__KR - KØLING, RETUR (System Abbreviation)	<input type="checkbox"/>		
P__SPR - SPRINKLERANLÆG, RØR (System Abbreviation)	<input type="checkbox"/>		
P__BC - BRUGSVAND (#1), CIRKULATION (System Abbreviation)	<input type="checkbox"/>		
P__BK - BRUGSVAND (#1), KOLDT (System Abbreviation)	<input type="checkbox"/>		
P__BV - BRUGSVAND (#1), VARMT (System Abbreviation)	<input type="checkbox"/>		
P__Sanitary (System Classification)	<input type="checkbox"/>		
P__Pipework velocity mindre end 0,25 m/sek	<input checked="" type="checkbox"/>		
P__Pipework velocity større end 0,25 m/sek og mindre end 0,50 m...	<input checked="" type="checkbox"/>		
P__Pipework velocity større end 0,50 m/sek og mindre end 0,75 m...	<input checked="" type="checkbox"/>		
P__Pipework velocity større end 0,75 m/sek og mindre end 1,00 m...	<input checked="" type="checkbox"/>		
P__Pipework velocity større end 1,00 m/sek	<input checked="" type="checkbox"/>		

### QA\_\_P\_P\_\_VELOCITY

SUB-DICIPLINE	P__HEATING VELOCITY
VIEW USE	QUALITY ASSURANCE

Color Schemes

Categories	Color scheme
Pipes	Pipe Color Fill - Velocity
Ducts	<none>

Edit Color Scheme

Schemes  
Category: Pipes

Scheme Definition  
Title: Pipe Color Fill - Friction  
Color: Velocity  
 By value  
 By range  
Edit Format... 1234,6 m/s

At Least	Less Than	Caption	Visible	Color	Fill Pattern	Preview
	0,25 m/s	Less than 0,3 m/s	<input checked="" type="checkbox"/>		Solid fill	
0,25 m/s	0,50 m/s	0,3 m/s - 0,5 m/s	<input checked="" type="checkbox"/>		Solid fill	
0,50 m/s	0,75 m/s	0,5 m/s - 0,8 m/s	<input checked="" type="checkbox"/>		Solid fill	
0,75 m/s	1,00 m/s	0,8 m/s - 1,0 m/s	<input checked="" type="checkbox"/>		Solid fill	
1,00 m/s		1,0 m/s or more	<input checked="" type="checkbox"/>		Solid fill	

### QA\_\_3\_V\_\_FRICTION

SUB-DICIPLINE	V__FRICTION	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Visibility/Graphic Overrides for QA\_\_3\_V\_\_FRICTION

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

Name	Visibility	Projection/Surface	
		Lines	Patterns
VP_Mechanical Equipment (NOT SystemClassification Air)	<input type="checkbox"/>		
V__Ductwork friction mindre end 0,6 Pa/m	<input checked="" type="checkbox"/>		
V__Ductwork friction større end 0,6 Pa/m mindre end 0,8 Pa/m	<input checked="" type="checkbox"/>		
V__Ductwork friction større end 0,8 Pa/m mindre end 1,0 Pa/m	<input checked="" type="checkbox"/>		
V__Ductwork friction større end 1,0 Pa/m	<input checked="" type="checkbox"/>		

### QA\_\_P\_V\_\_FRICTION

SUB-DICIPLINE	V__FRICTION
VIEW USE	QUALITY ASSURANCE

Color Schemes

Categories	Color scheme
Pipes	<none>
Ducts	Duct Color Fill - Friction

**QA\_\_3\_V\_\_VELOCITY**

SUB-DICIPLINE	V__VELOCITY	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Visibility/Graphic Overrides for QA\_\_3\_V\_\_VELOCITY

Model Categories Annotation Categories Analytical Model Categories Imported Categories Filters

Name	Visibility	Projection/Surface	
		Lines	Patterns
VP_Mechanical Equipment (NOT SystemClassification Air)	<input type="checkbox"/>		
V__Ductwork velocity mindre end 3 m/sek	<input checked="" type="checkbox"/>		
V__Ductwork velocity større end 3 m/sek mindre end 5 m/sek	<input checked="" type="checkbox"/>		
V__Ductwork velocity større end 5 m/sek mindre end 7 m/sek	<input checked="" type="checkbox"/>		
V__Ductwork velocity større end 7 m/sek mindre end 9 m/sek	<input checked="" type="checkbox"/>		
V__Ductwork velocity større end 9 m/sek	<input checked="" type="checkbox"/>		

**QA\_\_P\_V\_\_VELOCITY**

SUB-DICIPLINE	V__VELOCITY
VIEW USE	QUALITY ASSURANCE

Color Schemes

Categories	Color scheme
Pipes	<none>
Ducts	Duct Color Fill - Velocity

### QA\_\_P\_V\_\_SPACE SOUND

SUB-DICIPLINE	V__SPACE SOUND	<input checked="" type="checkbox"/>
VIEW USE	QUALITY ASSURANCE	<input checked="" type="checkbox"/>

Edit Color Scheme

Schemes

Category: Spaces

- (none)
- Schema 1
- MC Sound Level LpA






Scheme Definition

Title: Schema 1 Legend

Color: MC Sound Level LpA

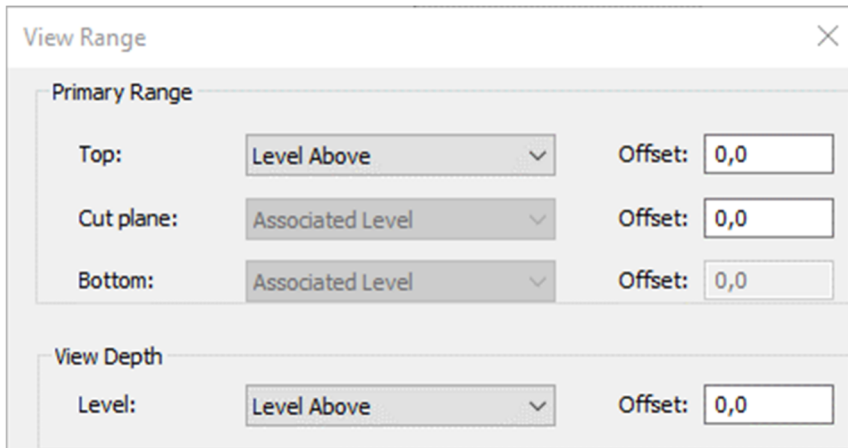
By value  By range

Edit Format... 1234,56789

At Least	Less Than	Caption	Visible	Color	Fill Pattern	Preview
	27,000000	Less than 27	<input checked="" type="checkbox"/>	Green	Solid fill	
27,000000	30,000000	27 - 30	<input checked="" type="checkbox"/>	RGB 128-128-000	Solid fill	
30,000000	33,000000	30 - 33	<input checked="" type="checkbox"/>	Yellow	Solid fill	
33,000000	36,000000	33 - 36	<input checked="" type="checkbox"/>	RGB 255-128-064	Solid fill	
36,000000		36 or more	<input checked="" type="checkbox"/>	Red	Solid fill	

## Ceiling Planes

På alle **WORK** loftplaner er View Range ændret så komponenterne ses straks de indsættes.



Primary Range	
Top:	Level Above <input type="text" value="0,0"/>
Cut plane:	Associated Level <input type="text" value="0,0"/>
Bottom:	Associated Level <input type="text" value="0,0"/>

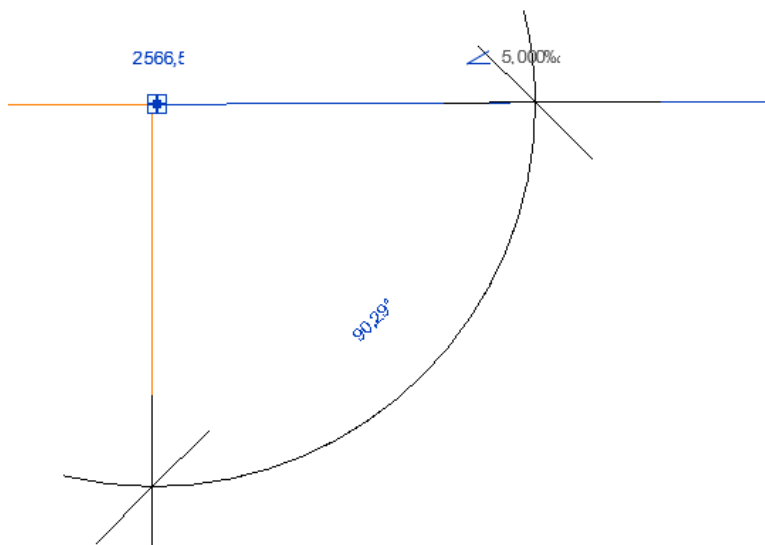
View Depth	
Level:	Level Above <input type="text" value="0,0"/>

## **Kanalserier, rørserier og kabelbakker**

### **Rørserier**

#### **Stålrør, middelsvære**

Der er i en tidligere lokalisering blevet tilføjet en T-fitingfitting – **NTI Fitting – 90 med vrid** - der gør det muligt at tegne og tilslutte sprinkleranlæg med fald.



Denne fitting er fremragende når der modelleres sprinklerrør, men den er ikke så god når Pipe Connection anvendes til at genere rørlayouts.

I denne version af lokaliseringen anvendes i rørtypen **Stålrør, middelsvære** som standard en fitting som er optimal i forbindelse med anvendelse af Pipe Connection til generering af rørlayouts.

Hvis der projekteres sprinkler anbefales det at tilpasse Pipe Typen **Stålrør, middelsvære** så der anvendes T-fittingen **NTI Fitting – 90 med vrid**.



## Kabelbakker

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: ALMENFØRINGSVEJ Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2
Vertical Inside Bend	RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2
Vertical Outside Bend	RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2
Tee	RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2
Cross	RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2
Transition	RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2
Union	RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: ALMENFØRINGSVEJ_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	
Manufacturer	MC Cable Tray Series and Fittings
Type Comments	
URL	
Description	ALMENFØRINGSVEJ
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: GITTERBAKKE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2
Vertical Inside Bend	RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2
Vertical Outside Bend	RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2
Tee	RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2
Cross	RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2
Transition	RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2
Union	RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: GITTERBAKKE_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	GB
Manufacturer	MC Cable Tray Series and Fittings
Type Comments	
URL	
Description	GITTERBAKKE
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	GB
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	GB

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: KABELBAKKE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-BEND_GEN_MC 2
Vertical Inside Bend	RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-VERT-INS-BEND-R10_GEN_MC 2
Vertical Outside Bend	RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-VERT-OUTS-BEND-R10_GEN_MC 2
Tee	RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-TEE_GEN_MC 2
Cross	RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-HORIZ-CROSS_GEN_MC 2
Transition	RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-REDUCER_GEN_MC 2
Union	RS_69_CTF_UN_CHANNEL-UNION_GEN_MC: KABELBAKKE_RS_69_CTF_UN_CHANNEL-UNION_GEN_MC 2
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	KB
Manufacturer	MC Cable Tray Series and Fittings
Type Comments	
URL	
Description	KABELBAKKE
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	KB
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	KB

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: KABELSTIGE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	RS_69_CTF_UN_LADDER-HORIZ-BEND_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-BEND_GEN_MC
Vertical Inside Bend	RS_69_CTF_UN_LADDER-VERT-INS-BEND-R10_GEN_MC; RS_69_CTF_UN_LADDER-VERT-INS-BEND-R10_GEN_MC
Vertical Outside Bend	RS_69_CTF_UN_LADDER-VERT-OUTS-BEND-R10_GEN_MC; RS_69_CTF_UN_LADDER-VERT-OUTS-BEND-R10_GEN_MC
Tee	RS_69_CTF_UN_LADDER-HORIZ-TEE_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-TEE_GEN_MC
Cross	RS_69_CTF_UN_LADDER-HORIZ-CROSS_GEN_MC; RS_69_CTF_UN_LADDER-HORIZ-CROSS_GEN_MC
Transition	RS_69_CTF_UN_LADDER-REDUCER_GEN_MC; RS_69_CTF_UN_LADDER-REDUCER_GEN_MC
Union	RS_69_CTF_UN_LADDER-UNION_GEN_MC; RS_69_CTF_UN_LADDER-UNION_GEN_MC
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	KS
Manufacturer	MC Cable Tray Series and Fittings
Type Comments	
URL	
Description	KABELSTIGE
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	KS
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	KS

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl\_ALMENFØRINGSVEJ Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	M_Channel Horizontal Bend: ALMENFØRINGSVEJ
Vertical Inside Bend	M_Channel Vertical Inside Bend: ALMENFØRINGSVEJ
Vertical Outside Bend	M_Channel Vertical Outside Bend: ALMENFØRINGSVEJ
Tee	M_Channel Horizontal Tee: ALMENFØRINGSVEJ
Cross	M_Channel Horizontal Cross: ALMENFØRINGSVEJ
Transition	M_Channel Reducer: ALMENFØRINGSVEJ
Union	M_Channel Union: ALMENFØRINGSVEJ
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	
Manufacturer	
Type Comments	
URL	
Description	
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl\_GITTERBAKKE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	M_Channel Horizontal Bend: GITTERBAKKE
Vertical Inside Bend	M_Channel Vertical Inside Bend: GITTERBAKKE
Vertical Outside Bend	M_Channel Vertical Outside Bend: GITTERBAKKE
<b>Tee</b>	
Cross	M_Channel Horizontal Tee: GITTERBAKKE
Transition	M_Channel Horizontal Cross: GITTERBAKKE
Union	M_Channel Reducer: GITTERBAKKE
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	GB
Manufacturer	
Type Comments	
URL	
Description	
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl\_KABELBAKKE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	M_Channel Horizontal Bend: KABELBAKKE
Vertical Inside Bend	M_Channel Vertical Inside Bend: KABELBAKKE
Vertical Outside Bend	M_Channel Vertical Outside Bend: KABELBAKKE
Tee	M_Channel Horizontal Tee: KABELBAKKE
Cross	M_Channel Horizontal Cross: KABELBAKKE
Transition	M_Channel Reducer: KABELBAKKE
Union	M_Channel Union: KABELBAKKE
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	KB
Manufacturer	
Type Comments	
URL	
Description	
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	

<< Preview OK Cancel Apply

Type Properties

Family: System Family: Cable Tray with Fittings Load...

Type: xgl\_KABELSTIGE Duplicate...

Rename...

Type Parameters

Parameter	Value
<b>Electrical</b>	
Bend Radius Multiplier	1.000000
<b>Electrical Engineering</b>	
MC EXE Class	
MC IP Class	
<b>Fittings</b>	
Horizontal Bend	M_Ladder Horizontal Bend: KABELSTIGE
Vertical Inside Bend	M_Ladder Vertical Inside Bend: KABELSTIGE
Vertical Outside Bend	M_Ladder Vertical Outside Bend: KABELSTIGE
<b>Tee</b>	
Cross	M_Ladder Horizontal Tee: KABELSTIGE
Transition	M_Ladder Horizontal Cross: KABELSTIGE
Union	M_Ladder Reducer: KABELSTIGE
	M_Ladder Union: KABELSTIGE
<b>Dimensions</b>	
MC Height	
MC Length	
MC Width	
<b>Identity Data</b>	
Type Image	
Keynote	
Model	KS
Manufacturer	
Type Comments	
URL	
Description	
Assembly Description	
Assembly Code	
Type Mark	
Cost	
MC Installation Code Type	
MC Material Code	
MC National Code	
MC Product Variable 1	
MC Product Variable 2	
MC Product Variable 3	
MC Product Variable 4	
MC Product Variable 5	
MC User Code	

<< Preview OK Cancel Apply

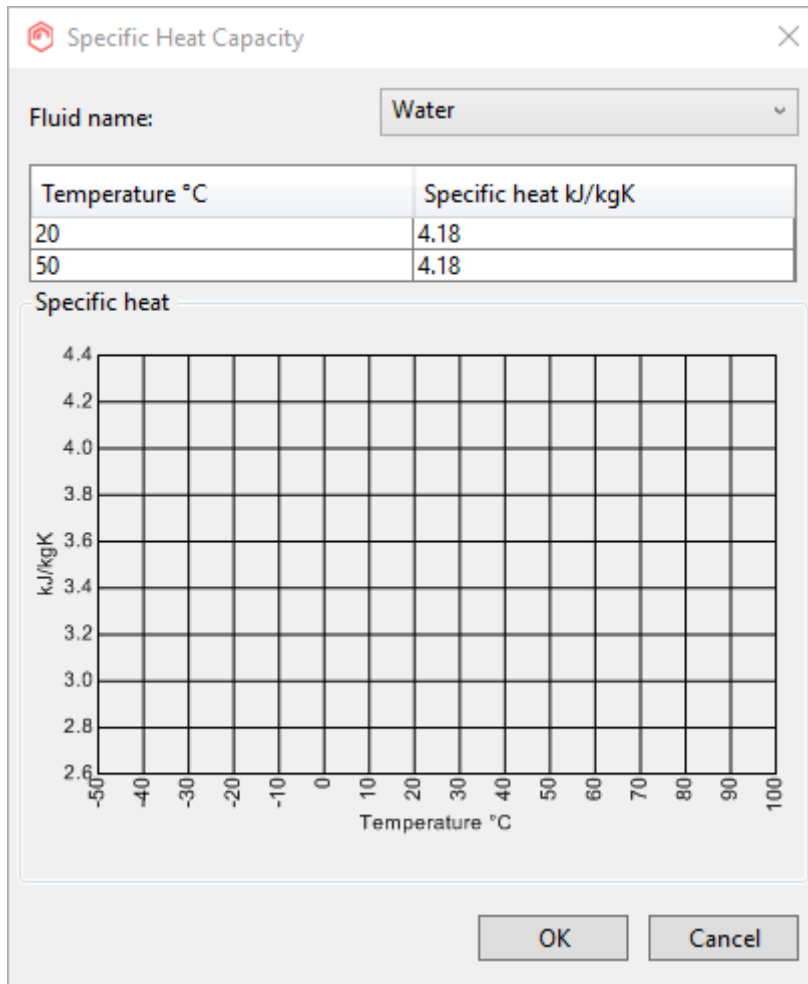
## Tag

Diverse tags er opdaterede.



## Specific Heat Capacity

Denne er ændret for vand

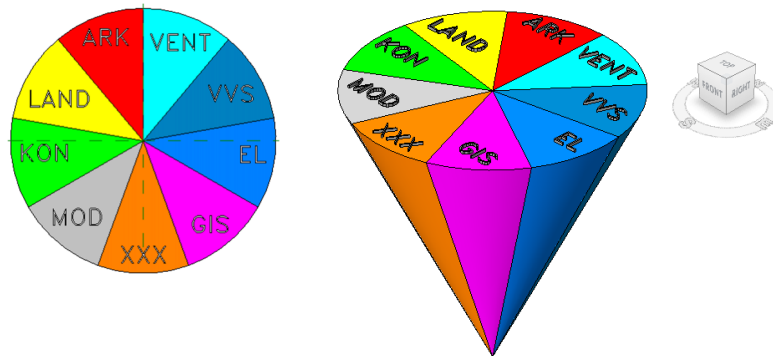


## Origin\_Marker

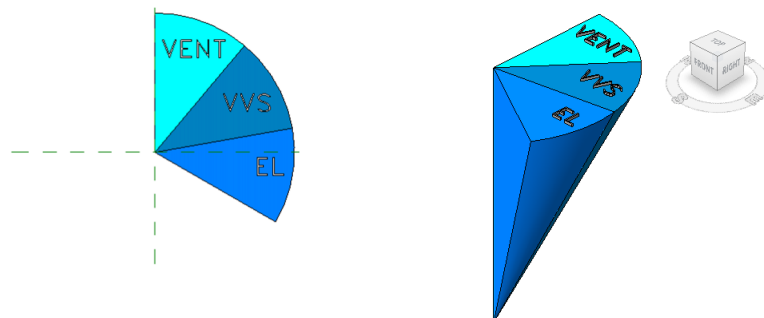
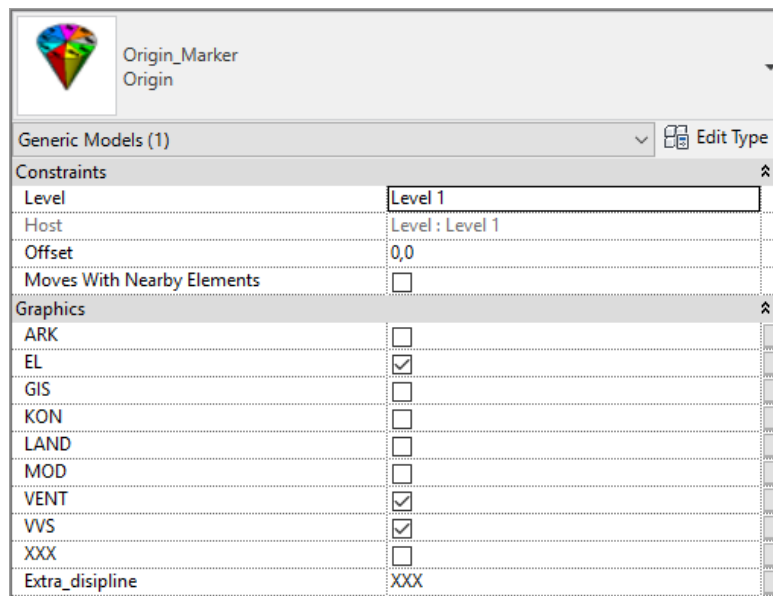
NTI har lavet en Origin\_Marker, som angiver Revits Origin.

I plan og 3D ser markeren således ud.

Pilespidsen ligger i Z=0



Således kan hvert faggruppe tænde for deres del og nemt kontrollere at modellerne ligger rigtigt i forhold til hinanden



## **Stikordsregister**

Indholdsfortegnelse; 2

NTI CADcenter A/S; 1