

ACO KlassikDrain K50/KS50

Subassembly Installation and Reference Guide

User Guide for Autodesk AutoCAD Civil 3D files

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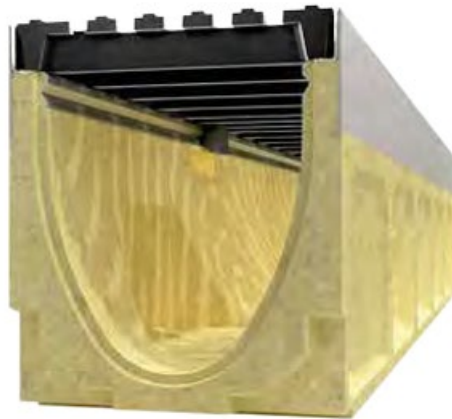
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1. Introduction

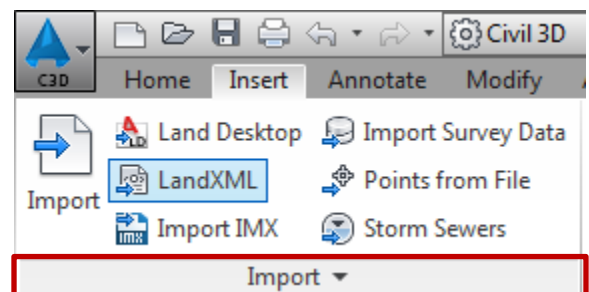
This document describes the installation, configuration and use of the ACO KlassikDrain subassembly component for AutoCAD Civil 3D 2022.



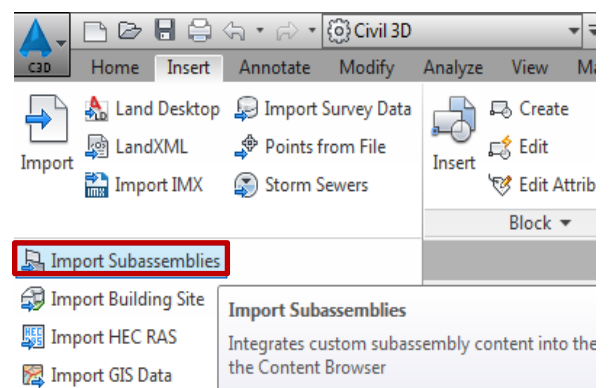
2. Installing the ACO KlassikDrain subassembly

The KlassikDrain sub-assembly is available as a .pkt file which contains the subassembly .dll file and associated configuration files for installing the subassembly in Civil 3D.

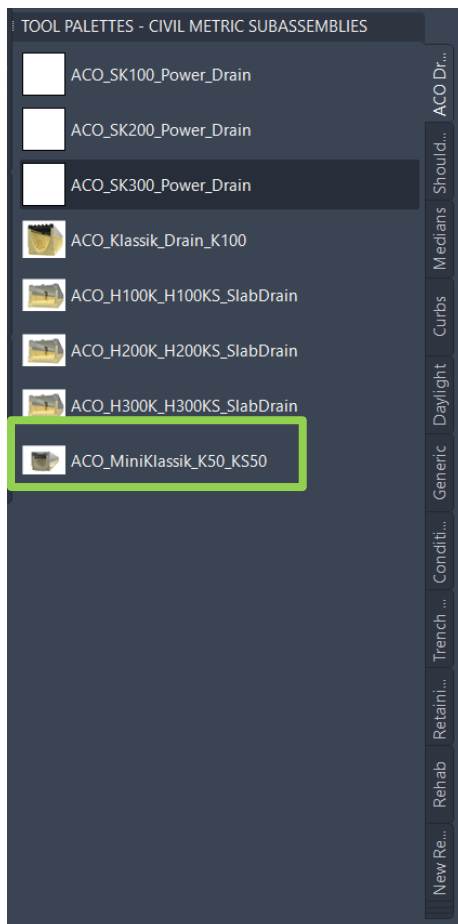
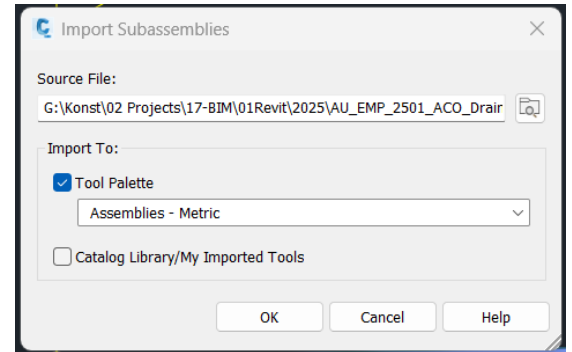
To install the subassembly, click on the Import panel title on the Insert ribbon.



Choose import subassemblies



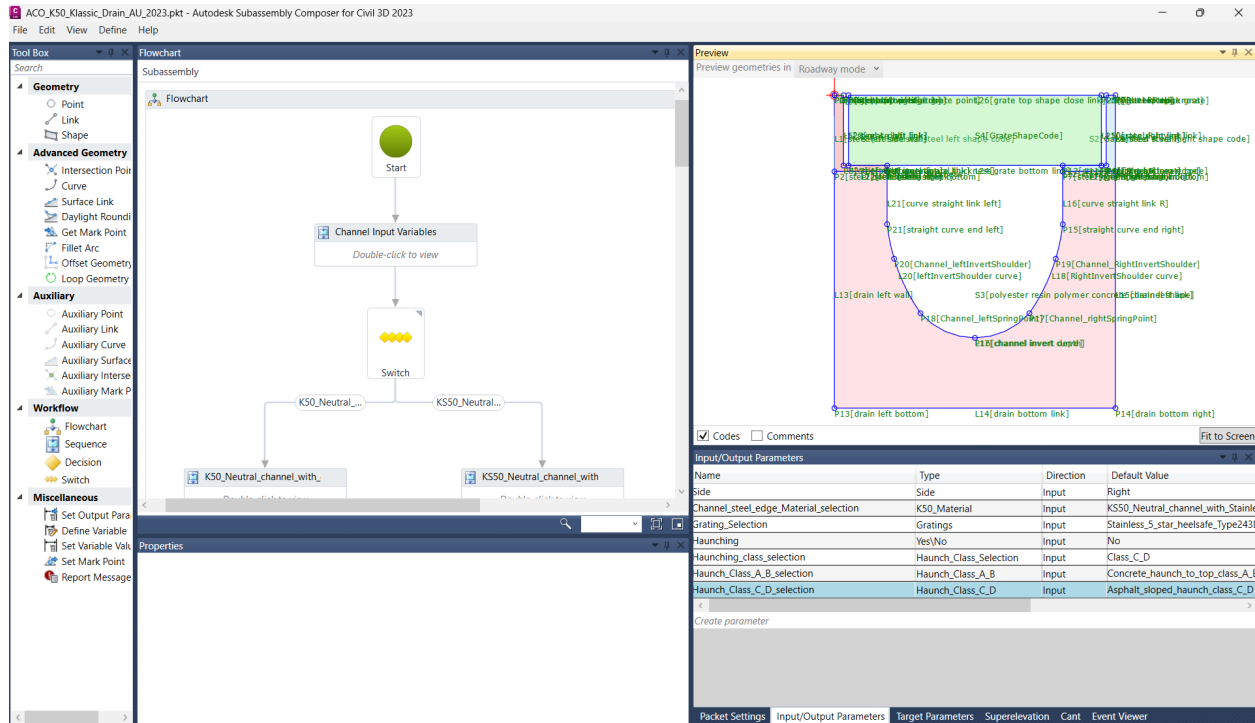
Browse the location of the ACO KlassikDrain K50/KS50.pkt file, and choose a tool palette to import to, or create a new palette. The subassembly can also optionally be added to the user Catalog Library. The tool palette in civil 3D will now show the ACO KlassikDrain K50/KS50 subassembly. Note that by right-clicking in the tool palette, the palette can be customized by creating a separate item for the ACO KlaasikDrain K50/KS50, as shown here.



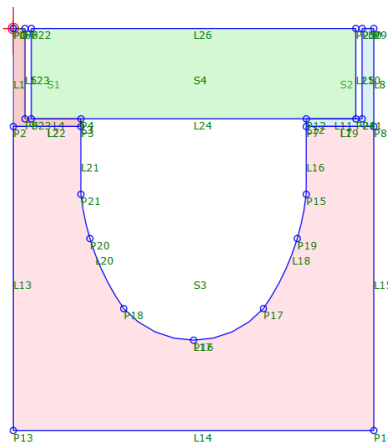
3. Using the ACO KlassikDrain K50/KS50 subassembly

The ACO KlassikDrain subassembly includes definitions for the following Edge rail type:

KlassikDrain K50/KS50 with Edge rail types:-



The subassembly also optionally includes haunching detail.



3.1 User Defined Parameter

Input/Output Parameters			
Name	Type	Direction	Default Value
Side	Side	Input	Right
Channel_steel_edge_Material_selection	K50_Material	Input	KS50_Neutral_channel_with_Stainless_steel_edge_rails_06750
Grating_Selection	Gratings	Input	Stainless_5_star_heelsafe_Type243D_Loadclass_B_142227
Haunching	Yes\No	Input	No
Haunching_class_selection	Haunch_Class_Selection	Input	Class_C_D
Haunch_Class_A_B_selection	Haunch_Class_A_B	Input	Concrete_haunch_to_top_class_A_B
Haunch_Class_C_D_selection	Haunch_Class_C_D	Input	Asphalt_sloped_haunch_class_C_D

All the default values of the parameter can be edited by end-user. User can be able to select their required KlassikDrain, Grating and Haunch type.

3.2 KlassikDrain K50/KS50 with different Edge rail channel types

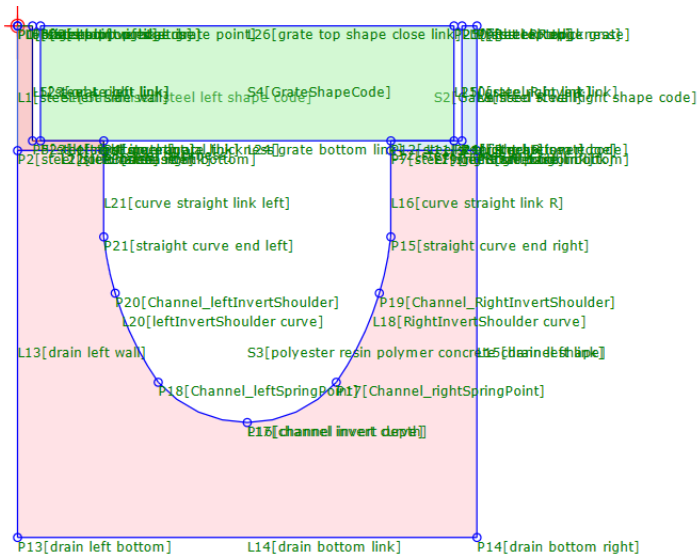
User can able to select their required KlassikDrain channel by using the parameter KlassikDrainType which has dropdown menu, with types of KlassikDrain channel stainless steel and galvanized edge rail.

Channel_steel_edge_Material_selection	K50_Material	Input	KS50_Neutral_channel_with_Stainless_steel_edge_rails_06750
Grating_Selection	Gratings	Input	K50_Neutral_channel_with_galvanised_steel_edge_rails_04071
Haunching	Yes\No	Input	KS50_Neutral_channel_with_Stainless_steel_edge_rails_06750

3.3 KlassikDrain K50/KS50 grating types

User needs to select grating using the parameter Gratings_selection

Grating_Selection	Gratings	Input	Stainless_5_star_heelsafe_Type243D_Loadclass_B_142227
Haunching	Yes\No	Input	Stainless_5_star_heelsafe_Type243D_Loadclass_B_142227
Haunching_class_selection	Haunch_Class_Selection	Input	Iron_Intercept_Heelsafe_Type276D_Loadclass_D_138107



3.4 Haunch types

To include Haunching we have provided decision option so user can select Yes/or No from the parameter Haunching. There are two defferent classes for haunching A-B and C-D

Haunching	Yes\No	Input	Yes
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There are two different classes for haunching A-B and C-D it can be decide by user, using Haunch class parameter drop down menu.

Haunch_Class	Haunch_Class	Input	Class C D
Haunch_Class_A_B_selection	Haunch_Class	Input	Class_A_B
Haunch_Class_C_D_selection	Haunch_Class	Input	Class_C_D

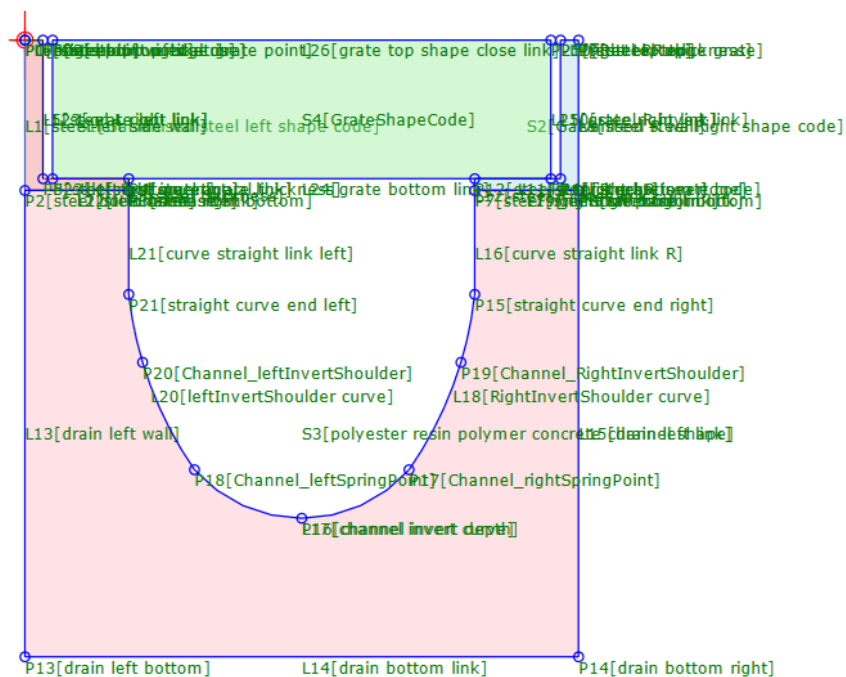
Haunch class A-B which has four type of haunch and C-D which different types of haunch user can easily select their haunch type with provided parameters.

Haunch_Class_A_B_selection	Haunch_Class_A_B	Input	Concrete haunch to top class A B
Haunch_Class_C_D_selection	Haunch_Class_C_D	Input	Grass_haunch_to_top_Class_A_B
< Create parameter			Pavers_to_edge_class_A_B
			Asphalt_sloped_haunch_class_A_B
			Concrete_haunch_to_top_class_A_B

Haunch_Class_C_D_selection	Haunch_Class_C_D	Input
<		Asphalt sloped haunch class C D
Create parameter		Pavers_to_edge_class_C_D
		Asphalt_sloped_haunch_class_C_D
		Concrete_haunch_to_top_class_C_D

Point Codes

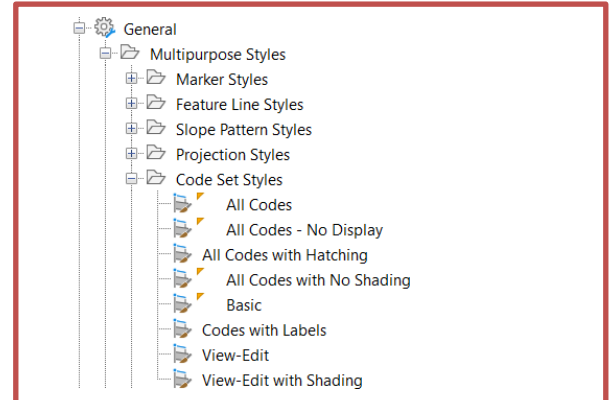
The point codes can be used in the code set styles to generate featurelines at the specific positions on the subassembly. The link codes can be used to display the outline of the subassembly in cross-sections, and also to create surface from the codes. The default values supplied with the subassembly include the standard codes of Top and Formation which are used universally to indicate a Top surface of the corridor model or a Formation surface of the corridor model respectively. The KlassikDrain is indicated by the default link code of KlassikDrain, and the default shape code of KlassikDrain. The grating is indicated by the default link code of edge rail, and the default shape code of edge rail. The haunching is indicated by the default link code of Haunch, and the default shape code of Haunch. All of these codes can be over-riden by the user. The shape codes are used to enable hatching to be applied in the cross-section views, and also to enable volumes of materials to be generated.



4. Code Set Styles

Code Set Styles are used to control the appearance and labeling of the individual point, link, and shape components of the subassemblies. The many styles required are grouped into Code Sets. Code Set settings are located in the General collection on the Settings tab of the Tool space.

Different code set styles used in the KlassikDrain Code set style template as shown here.



4.1 Import Code Set Styles from one drawing to another

Open the drawing in which KlassikDrain Code Set style has to be imported.

- Run command IMPORTSTYLESANDSETTINGS
- Browse to the location of KlassikDrain Code Set Style template
- Select Styles as desired, check "Import Settings" toggle and click OK
- Warning will be displaying informing that duplicates styles may be overwritten
- Drawing will import styles and settings from KlassikDrain Code Set Style template to this template