# USER GUIDE - BIM Files JORDAHL<sup>®</sup> Anchor Channels



## **User Guide - Review of Parameters:**

- 1. Load the anchor channel family into your project
- 2. Select and insert the JORDAHL® anchor channel into a wall/slab

t Browser - Project1 ×	- of × Properties		
- Steins	JORDAHL® EEM A		
Stairs Structural Beam Systems	JORDAHLO EIM AN JTA W 50/30 350 m		
- Structural Beam Systems	T 1 71A W 30/50 530 H	m	
- Structural Framing			• 🔒 Edit
in-JORDAHL® BIM Anchor Channels J	Structural Framing (Other) (1)		• Elli Edit
- JTA K 28/15 100 mm	Constraints		
JTA K 28/15 150 mm	Host	Basic Wall : Wall 1	
JTA K 28/15 200 mm	Elevation	3268.3	
	Reference Level		
	Construction		
JTA K 28/15 350 mm	T_bolt_type	JB M16	
	#T_bolt_choice_of_length	1=60mm; 2=80mm; 3=125mm; 0=user	_definied_bolt_length-proo
JTA K 28/15 450 mm	#T_bolt_choice_of_diameter	1=M12; 2=M16; 3=M20	
JIA K 28/15 550 mm	max_clamping_length	30.3	
JTA K 28/15 800 mm JTA K 28/15 1050 mm	high_strength		
JTA K 28/15 1050 mm JTA K 28/15 3000 mm	choose_#T_bolt_length_1_2_3_0		
	choose_#T_bolt_diameter_1_2_		
JTA K 28/15 6000 mm	min_T_bolt_length	39.7	
JTA K 38/17 100 mm	T_bolt_length	60.0	
JTA K 38/17 150 mm	T_bolt_diameter	16.0	
JTA K 38/17 200 mm	Materials and Finishes		
JTA K 38/17 250 mm	zinc_plated		
JTA K 38/17 300 mm	T bolt material	ZP 4.6	
JTA K 38/17 350 mm	stainless_steel		
JTA K 38/17 450 mm	hot_dip_galvanized	[T]	
JTA K 38/17 550 mm	carbon_steel	v	
JTA K 38/17 800 mm	Structural Material		
JTA K 38/17 1050 mm	Mechanical		
JTA K 38/17 3000 mm	T_bolts_centered	101	
JTA K 38/17 6000 mm	edge_distance_1.T_bolt	100.0	
JTA W 40/22 150 mm	comment		
JTA W 40/22 200 mm	number_of_T_bolts	2	
JTA W 40/22 250 mm	T_bolt_spacing	150.0	
JTA W 40/22 300 mm	attaching_part_thickness	10.0	
JTA W 40/22 350 mm	Structural		
JTA W 40/22 400mm	Rebar Cover - Top Face	Rebar Cover 1 <25>	
JTA W 40/22 550 mm	Rebar Cover - Robinsce	Rebar Cover 1 <25>	
JTA W 40/22 800 mm	Rebar Cover - Other Faces	Rebar Cover 1 <25>	
JTA W 40/22 1050 mm	Dimensions	inche cond 1 (1)	
	Volume	111.077 m <sup>3</sup>	
JTA W 40/22 1550 mm	Identity Data	AAA#77 TH	
	Comments		
JTA W 40/22 2050 mm	Mark		
	Mark		

3. The anchor channel type or length can be changed by selecting one of the available alternatives from the dropdown properties menu.

	Properties		
	JORDAHL® BIM Anchor Channels JTA JTA W 50/30 350 mm		
	JTA W 40/22 6000 mm		1
	JTA W 50/30 150 mm		
h	JTA W 50/30 200 mm		1
ľ	JTA W 50/30 250 mm	JORDAHL® BIM Anchor Channels JTA	1
1	JTA W 50/30 300 mm	JORDANE'S DIM AICIOI CIAINES JIA	
h	JTA W 50/30 350 mm		n.
ľ	JTA W 50/30 400 mm		1
l	JTA W 50/30 550 mm	Se l	
	JTA W 50/30 800 mm		
l	JTA W 50/30 800 mm		
	JTA W 50/30 3000 mm		Í
l	JTA W 50/30 6000 mm		
l	JTA W 53/34 150 mm		
	JTA W 53/34 200 mm		
	JTA W 53/34 250 mm		
	JTA W 53/34 300 mm		ļ
l	JTA W 53/34 350 mm		
	JTA W 53/34 400 mm		
	JTA W 53/34 550 mm		
l	JTA W 53/34 800 mm		
l	JTA W 53/34 1050 mm		
ŀ		Most Recently Used Types	
ľ	JORDAHL® BIM Anchor Channels JTA : JTA W 50/3	350 mm	
l	JORDAHL® BIM Anchor Channels JTA : JTA W 50/3	1050 mm	
Ì	Structural		
l	Rebar Cover - Top Face	Rebar Cover 1 <25>	
l	Rebar Cover - Bottom Face	Rebar Cover 1 <25>	
I	Rebar Cover - Other Faces	Rebar Cover 1 <25>	
l	Dimensions	100.077	2
ł	Volume	111.077 m <sup>1</sup>	
	Identity Data Comments		*
	Mark		

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#### 4. The "Materials and Finishes" parameters relate to JORDAHL<sup>®</sup> T-bolts

Materials and Finishes	
zinc_plated	1
T_bolt_material	ZP 4.6
stainless_steel	
hot_dip_galvanized	
carbon_steel	<b>V</b>
Structural Material	

Selecting "carbon\_steel" automatically selects a zinc plated finish for the T-bolt.

Selecting "hot\_dip\_galvanized" changes the finish of the carbon steel T-bolt to HDG.

If neither *"carbon steel"* nor *"hot\_dip\_galvanized"* are selected, stainless steel T-bolts are selected by default.

5. The "Construction" parameters are used to select the T-bolt type, diameter, grade, and length.

T_bolt_type	JB M16
#T_bolt_choice_of_length	1=60mm; 2=80mm; 3=125mm; 0=user_definied_bolt_length-proo
#T_bolt_choice_of_diameter	1=M12; 2=M16; 3=M20
max_clamping_length	30.3
high_strength	
choose_#T_bolt_length_1_2_3_0	1
choose_#T_bolt_diameter_1_2_3	2
min_T_bolt_length	39.7
T_bolt_length	60.0
T_bolt_diameter	16.0

Grade 4.6 carbon steel T-Bolts or A4-50 stainless steel T-Bolts are automatically selected according to the T-bolt material previously selected.

Selecting *"high\_strength"* changes the T-bolt grade to either 8.8 in carbon steel, or A4-70 in stainless steel depending on the T-bolt material previously selected.

At " $\#T\_bolt\_choice\_of\_diameter$ " the user is able to choose between available T-bolt diameters, and at " $\#T\_bolt\_choice\_of\_length$ " the length of T-bolt can be selected. In the example shown above selecting 1=M12; 2=M16: and 3=M20 diameter, and 1= 60mm, 2= 80mm, and 3=125mm length. Selecting 0 allows the user to define a special T-Bolt length.

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### 6. The *"Mechanical"* parameters set the T-bolt positional requirements

Mechanical	
T_bolts_centered	
edge_distance_1.T_bolt	100.0
comment	
number_of_T_bolts	2
T_bolt_spacing	150.0
attaching_part_thickness	10.0

The T-bolt group can be centered in the channel length by selecting the box at "*T\_bolts\_centered*". The quantity of T-Bolts per channel can be entered -0,1,2,3,... etc. at "*number\_of\_T\_bolts*". The distance from the end of the channel of the first T-bolt can be defined by entering a dimension in mm at "edge\_distance\_1.T\_bolt".

The *"T\_bolt\_spacing"* can be defined in mm.

The thickness of the anchored component can be entered in mm at "attaching\_part\_thickness".

The comment parameter warns if there are any properties that are not in agreement with the selected anchor channels. E.g. If the channel is too short for the number and spacing of T-bolts.

	Structural Framing (Other) (1)	🗸 🖽 Edi	Туре
IONT	Constraints		*
	Host	Basic Wall : Wall 1	1
	Elevation	1000.0	
	Reference Level		
	Construction		\$
	T_bolt_type	JB M16	
	#T_bolt_choice_of_length	1=60mm; 2=80mm; 3=125mm; 0=user_definied_bolt_length-proof	
¥	#T_bolt_choice_of_diameter	1=M12; 2=M16; 3=M20	
	max_clamping_length	30.3	
-0,	high_strength		
0	choose_#T_bolt_length_1_2_3_0	1	
	choose_#T_bolt_diameter_1_2_3	2	
	min_T_bolt_length	39.7	
	T_bolt_length	60.0	
	T_bolt_diameter	16.0	
	Materials and Finishes		*
	zinc_plated	<b>V</b>	
	T_bolt_material	ZP 4.6	
	stainless_steel		-
	hot_dip_galvanized		
	carbon_steel		
	Structural Material		
	Mechanical		*
	T_bolts_centered		
	edge_distance_1.T_bolt	100.0	
	comment	edge distance of 1st T bolt too high or minimize T bolt spacing	
	number_of_T_bolts	3	
	T_bolt_spacing	150.0	
	attaching_part_thickness	10.0	

In the above example the selected parameters "edge\_distance\_1.T\_bolt" = 100mm;

*"number\_of\_T-Bolts"= 3; "T\_Bolt\_spacing"=* 150mm for the selected anchor channel JTA W50/30 350mm are not possible, as shown in the highlighted comment. The user might decide to solve this problem by reducing the *"edge\_distance\_1.T\_bolt"* parameter, or reducing the T-bolt spacing, or selecting a longer anchor channel.

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