



**TOP OF SLAB  
INTERMEDIATE**

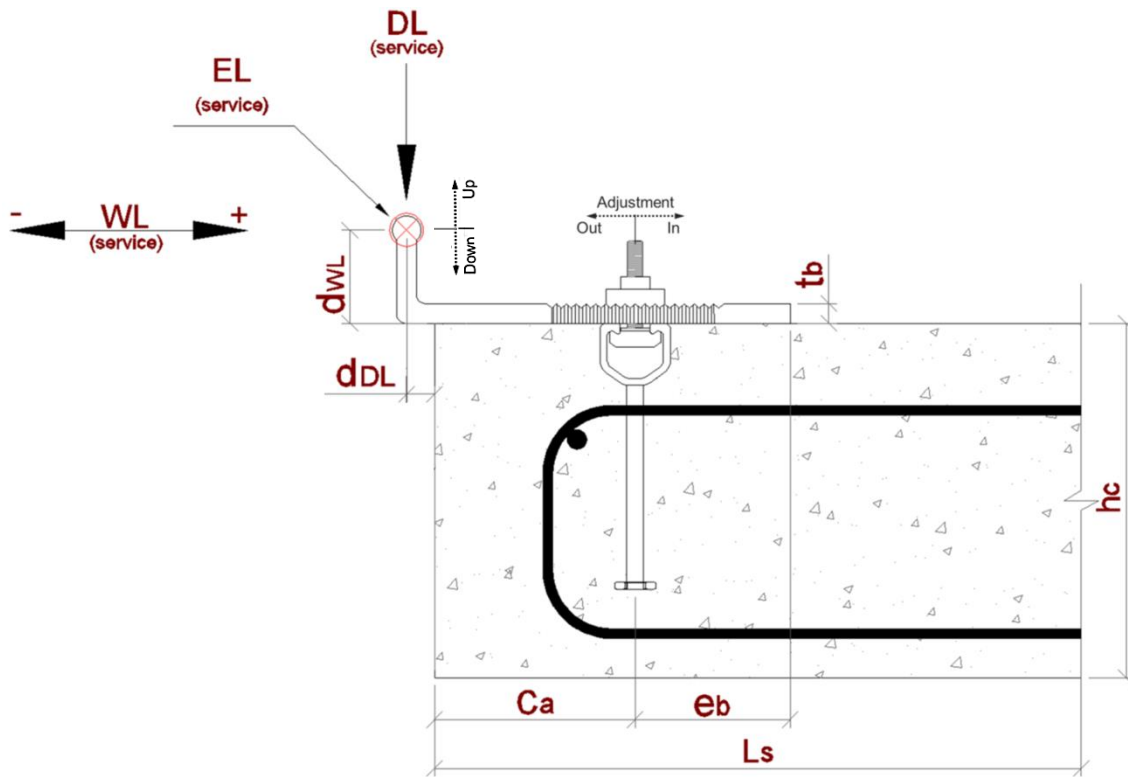
Engineering Request Form

**To provide you with the best customer and engineering services, please:**

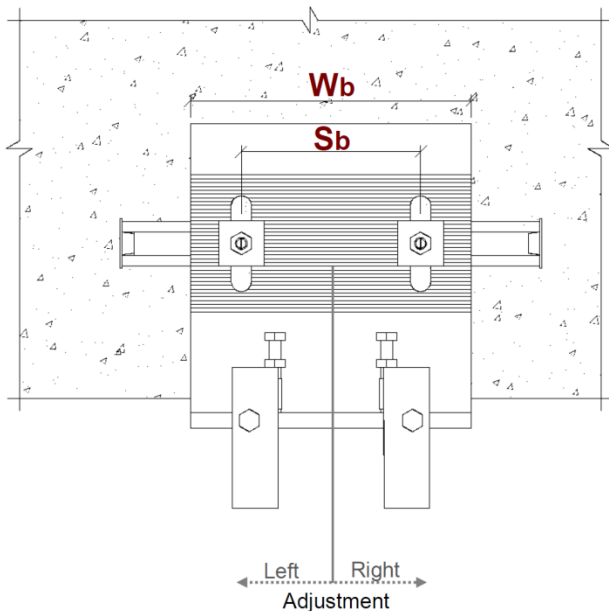
- Provide the requested Contact Information, fields 1 to 10 of page 1.
- Provide the requested Project Information, fields 1 to 24 of page 3.
- Page 4 provides description of fields related to Project Information.
- E-mail the form to **US+CA.HAC@Hilti.com** or to your local Hilti Field Representative.
- Provide any additional information such as architectural and structural drawings, clip geometry, additional sketches, etc. that may help to clarify and optimize the HAC design.

1. Project Name:	
2. Company Name:	
3. Project City:	4. State:
5. Contact Person:	
6. Phone Number:	
7. Email Address:	
8. Date Engineering Solution Required:	
9. Bid Date (if applicable):	
10. SAP Account (if applicable):	

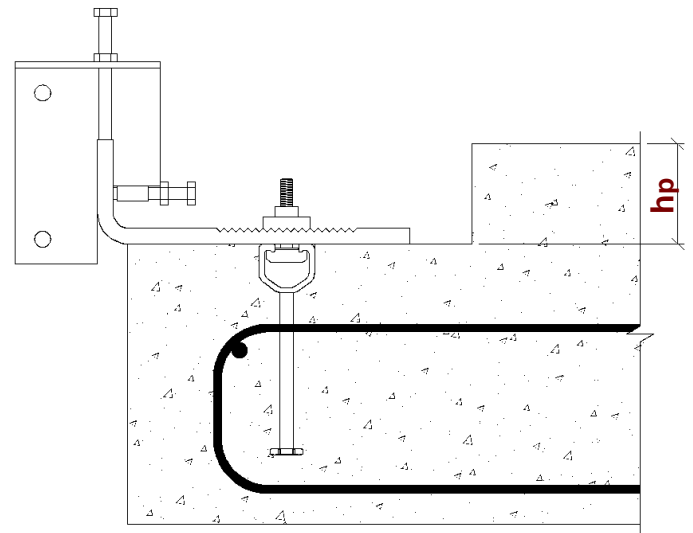
# Top of Slab Intermediate Engineering Request Form



**Figure 1.0 Typical Section – Top of Slab**



**Figure 2.0 Plan View – Top of Slab**



**Figure 3.0 Typical Section at Pocket – Top of Slab**

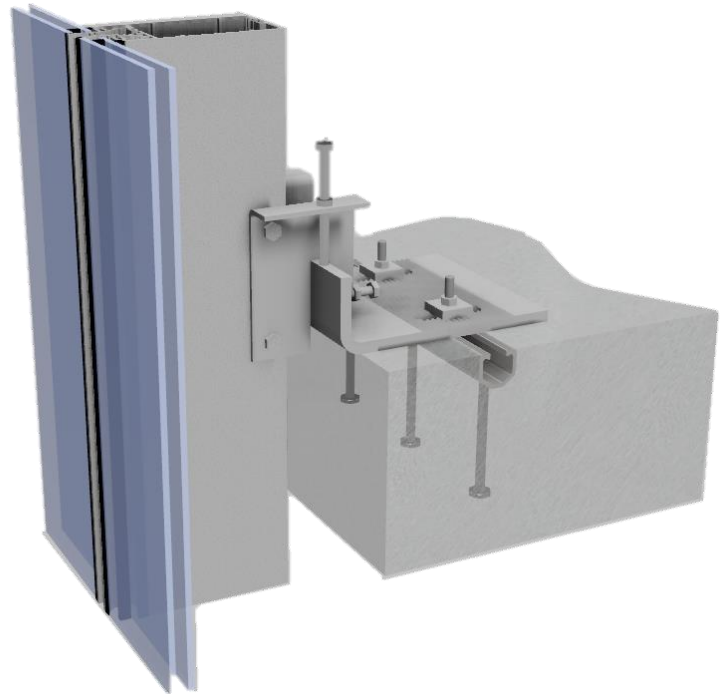
# Top of Slab Intermediate Engineering Request Form

## Project Information

Project name:	
Condition No.:	Ref. Detail:

## Materials

1. Concrete Strength, $f_c$ :		psi
2. Lightweight Concrete:		
3. Density of Concrete, $\rho$ :		pcf
4. Reinforcement Type:		
5. Yield Strength, $f_y$ :		psi
6. Stirrup Spacing, $s$ :		in
7. Stirrup Diameter, $d_b$ :		in



## Geometry

8. $h_c$ :		in	10. $e_b$ :		in
8b. $h_p$ :		in (if applicable)	12. $t_b$ :		in
9. $C_a$ :		in	14. $S_b$ :		in
11. $L_s$ :		in			
13. $W_b$ :		in			

15. HAC Anchor Channel Adjustment	Left:		in	Right:		in
16. Bracket Adjustment	Out:		in	In:		in
				Up:		in
				Down:		in

## Loads

17. Building Code with Year:	
18. Cracking at Service Loads:	

19. DL:		lbs	20. $d_{DL}$ :		in
21. WL-:		lbs	22. $d_{WL}$ :		in
23. WL+:		lbs			
*24. EL:		lbs			* if applicable

**If loads are unknown, please provide the following information:**

a. Floor to Floor Ht.:		ft
b. Mullion Centers:		ft
c. Wind Pressure:		psf
d. Wind Suction:		psf
e. Curtain Wall DL:		psf

## Comments:

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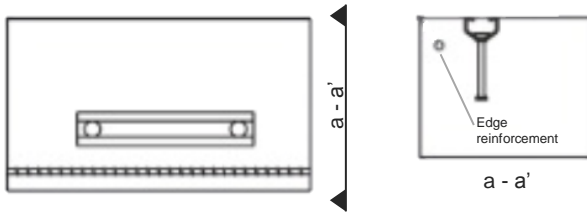
## Materials

### 1. Concrete Strength:

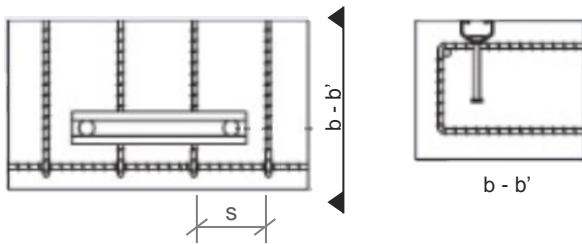
Specified compressive strength of concrete

### 4. Reinforcement Type:

Straight edge reinforcement – anchor channel in concrete with straight edge reinforcement:



Reinforcement with stirrups – anchor channel in concrete with edge reinforcement and stirrups with a spacing “s”:



### 5. Yield Strength:

Specified yield strength of reinforcement

### 6. Stirrup Spacing, s:

Specified center to center offset stirrup distance

## Loads

### 17. Building Code with Year:

Provide the Building Code used for the design and analysis of the project.

### 18. Cracking at Service Loads:

Specify if analysis indicates cracking of concrete at service load levels. If unknown, cracked concrete will be assumed.

### 19. Service Dead Load, DL:

Unfactored dead load. Loads will be factored based on Load and Resistance Factor Design (LRFD also known as Strength Design), unless noted otherwise.

### 20. Dead Load Distance, dDL:

Horizontal distance from the slab edge to the resultant dead load.

## Geometry

### 8. Thickness of the concrete member, hc:

Thickness of the concrete member where the anchor channel will be installed, typically slab (applicable to any other concrete members).

### 8b. Pocket Height, hp:

Distance from center of channel to edge of slab.

### 9. Edge Distance, Ca:

Distance from center of channel to edge of slab.

### 10. End Clip Distance, eb:

Distance from center of channel to the end of clip.

### 11. Length of Concrete Member, Ls:

Length of concrete members. This applies to narrow sections (e.g. beams, columns) only.

### 12. Thickness of Bracket, tb:

Specified thickness of bracket.

### 13. Width of Bracket, Wb:

Specified width of bracket.

### 14. Bolt Spacing, Sb:

Distance from center to center of bolt.

### 15. HAC Anchor Channel Adjustment:

Desired lateral adjustment provided by the HAC Anchor Channel. The minimum distance of 1” shall be kept from the end of the bolt to the end of the channel.

### 16. Bracket Adjustment:

Provide the horizontal adjustment provided by the bracket.

### 21. Service Wind Load, WL:

& Maximum and minimum unfactored wind loads. Loads will be factored based on Load and Resistance Factor Design (LRFD also known as Strength Design), unless noted otherwise.

### 22. Wind Load Distance, dWL:

Horizontal distance from the center plane of the anchor channel to the resultant wind load.

### 24. Service Earthquake Load, EL:

Unfactored earthquake load. Loads will be factored based on Load and Resistance Factor Design (LRFD also known as Strength Design), unless noted otherwise.