

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 27 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.

Contact Information

1. Project Name:

2. Company Name:

3. Project City: 4.State:

5. Contact Person:

6. Phone Number:

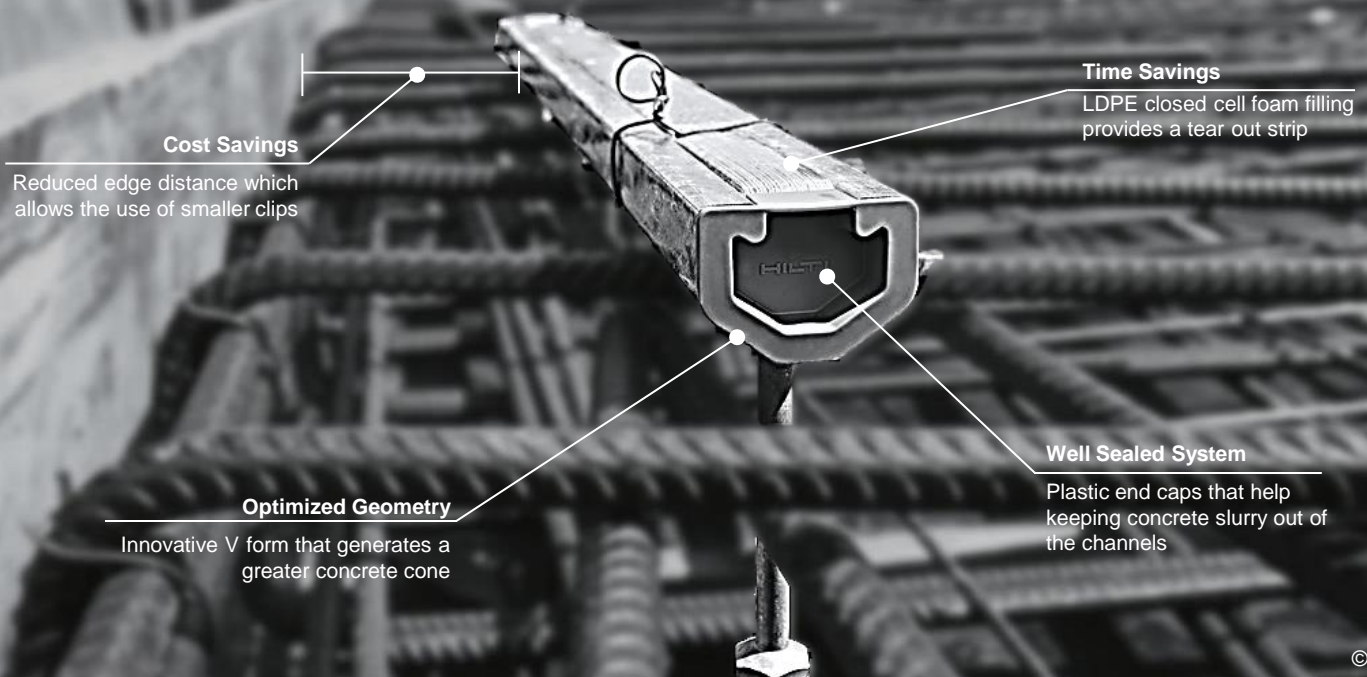
7. Email Address:

8. Date Engineering Solution Required:

9. Bid Date (if applicable):

10. SAP Account (if applicable):

Superior Performance



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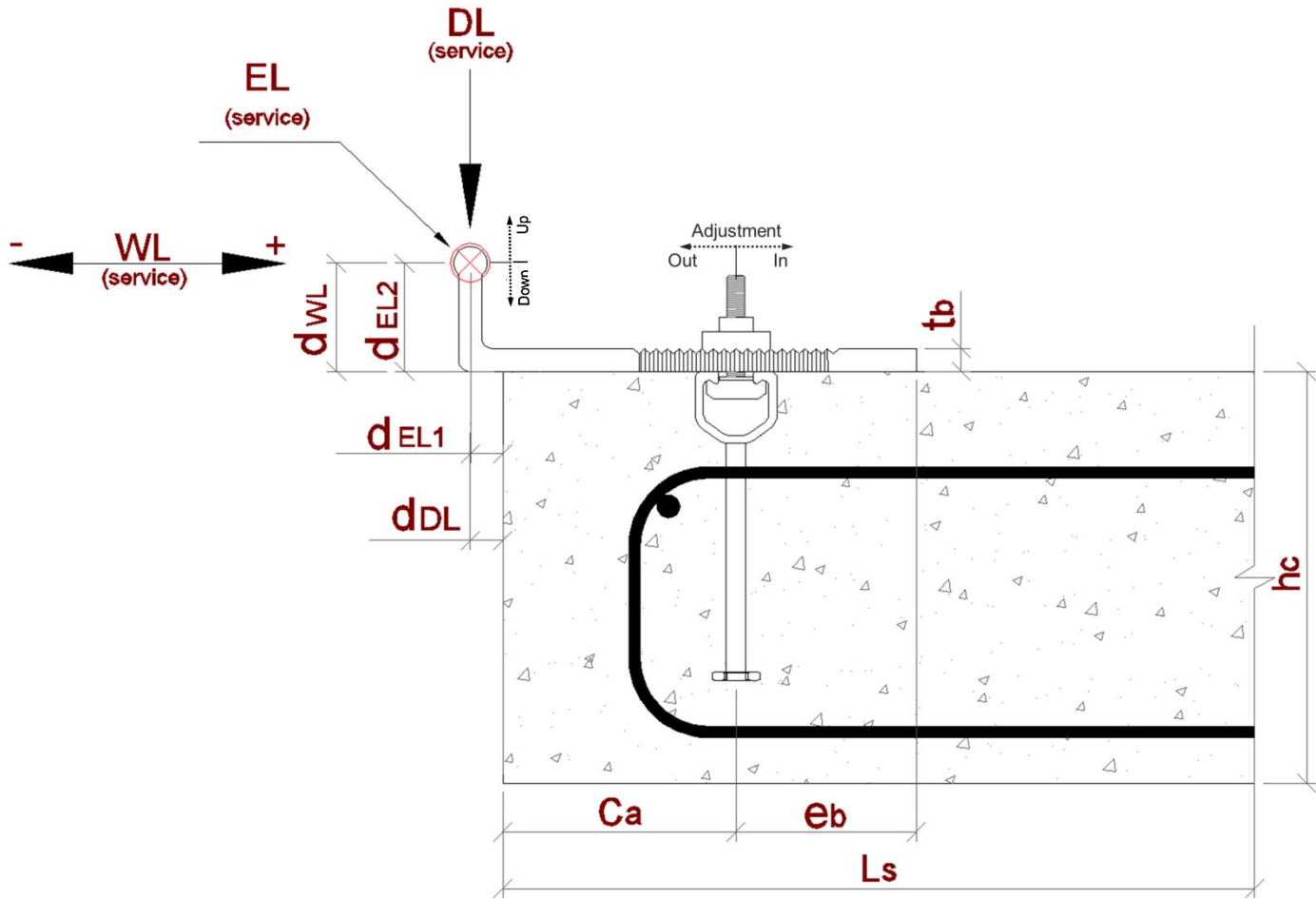


Figure 1.0 Typical Section - Top of Slab

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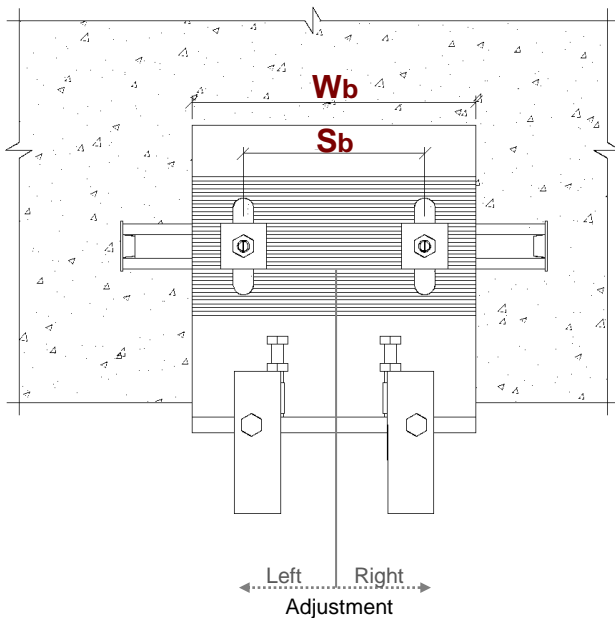


Figure 2.0 Plan View - Top of Slab

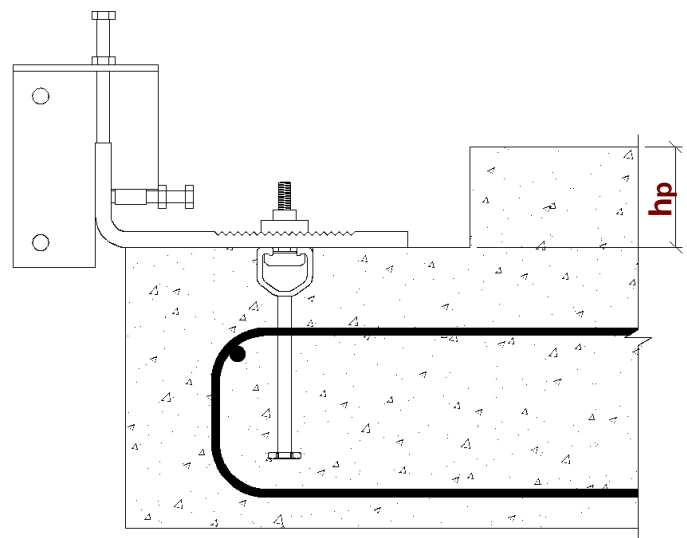


Figure 3.0 Typical Section at Pocket - Top of Slab

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Project Information

Project Name:

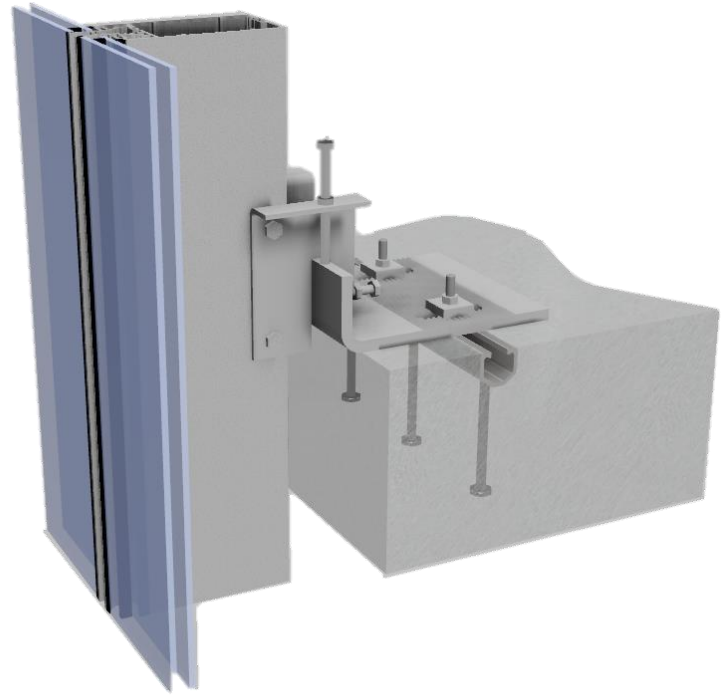
Condition No.: Ref. Detail:

Materials

- 1. Concrete Strength, f_c : psi
- 2. Lightweight Concrete:
- 3. Density of Concrete, ρ : 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
- 8b. h_p : in (If applicable)
- 9. C_a : in 10. e_b : in
- 11. L_s : in 12. t_b : in
- 13. W_b : in 14. S_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. d_{WL^+} : in
- *25. EL : lbs *26. d_{EL1} : in
- *27. d_{EL2} : in

*Seismic information if applicable only.

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
- 5. Yield Strength:**
Specified yield strength of reinforcement
- 6. Stirrup Spacing, s:**
Specified center to center offset stirrup distance

Geometry

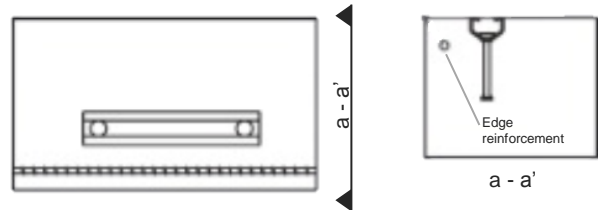
- 8. Thickness of the concrete member, hc:**
Thickness of the concrete member where the anchor channel will be installed, typically slab (applicable to any other concrete members).
- 8b. Pocket Height, hp:**
Distance from center of channel to edge of slab.
- 9. Edge Distance, Ca:**
Distance from center 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 keep from the end of the bolt to the end of the channel.

Loads

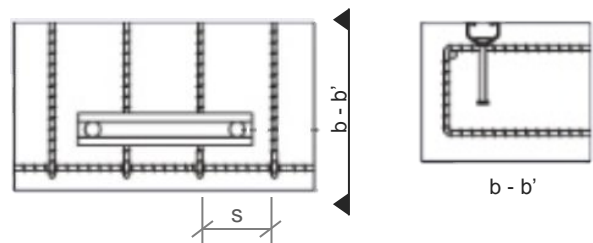
- 17. Building Code with Year:**
Provide the Building Code used for the design and analysis of the project.
- 18. Cracking at Service Loads:**
Specify if analysis indicates cracking of concrete at service load levels. If unknown, cracked concrete will be assumed.
- 19. Service Dead Load, DL:**
Unfactored 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.
- 21 & 23. 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 & 24. Wind Load Distance, dWL:**
Horizontal distance from the center plane of the anchor channel to the resultant wind load.

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":



16. Bracket Adjustment:

Provide the horizontal adjustment provided by the bracket.

25. 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.

26. Earthquake Load Distance, dEL1:

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

27. Earthquake Load Distance, dEL2:

Vertical distance from the slab to the resultant earthquake load.

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