

Face of Slab Intermediate Engineering Request Form

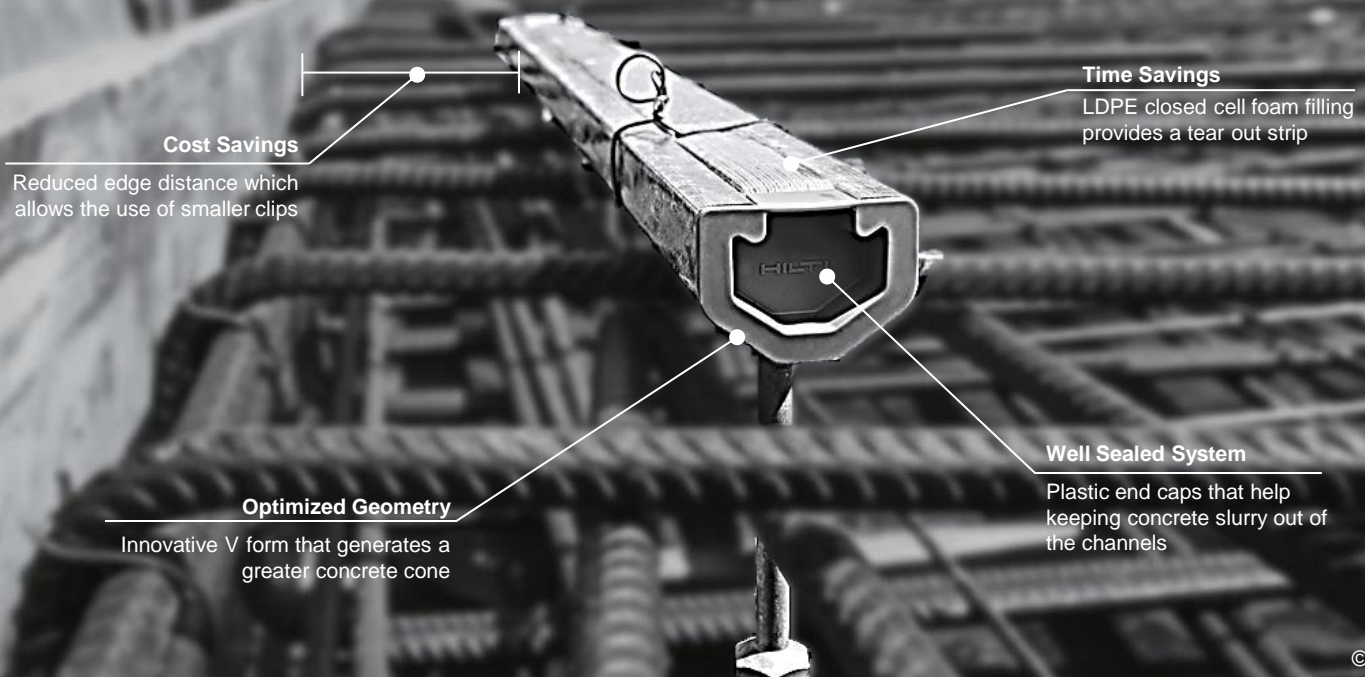
To provide you with the best customer and engineering services, please:

- 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. Company Name:
2. Project 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



Cost Savings

Reduced edge distance which allows the use of smaller clips

Optimized Geometry

Innovative V form that generates a greater concrete cone

Time Savings

LDPE closed cell foam filling provides a tear out strip

Well Sealed System

Plastic end caps that help keeping concrete slurry out of the channels

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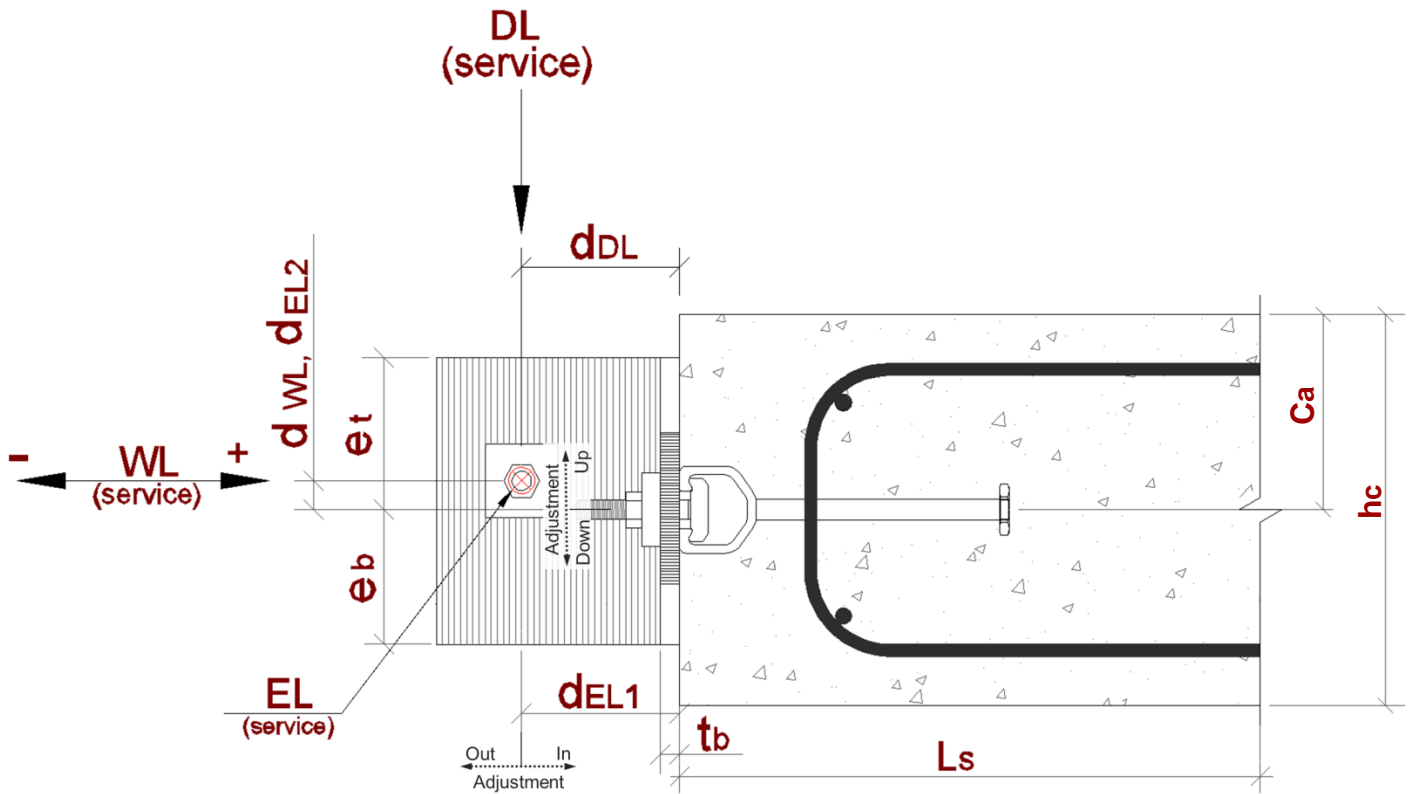


Figure 1.0 Typical Section - Face of Slab

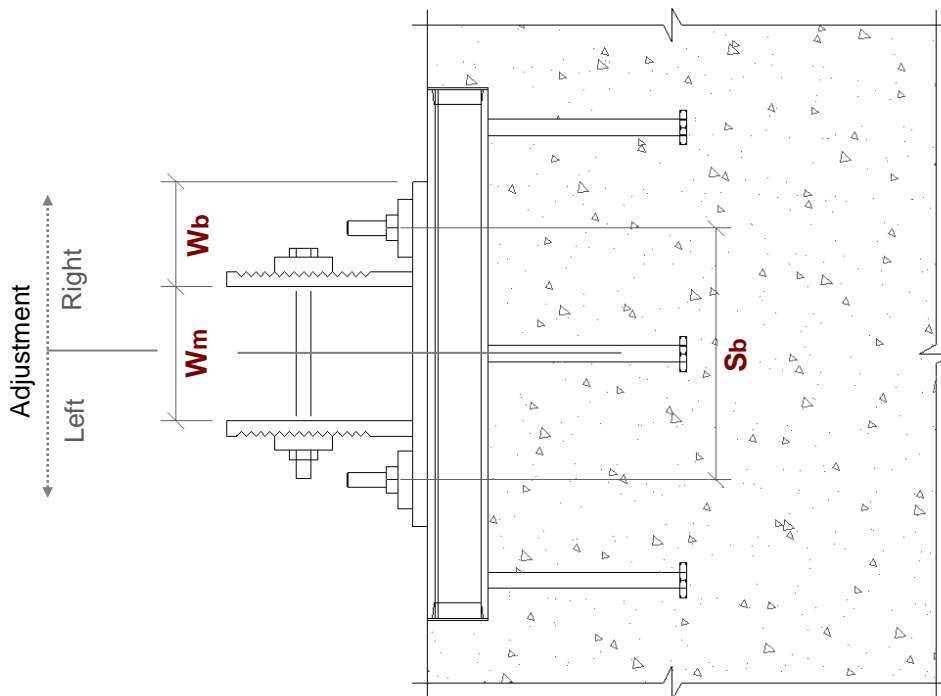


Figure 2.0 Plan View - Face of Slab

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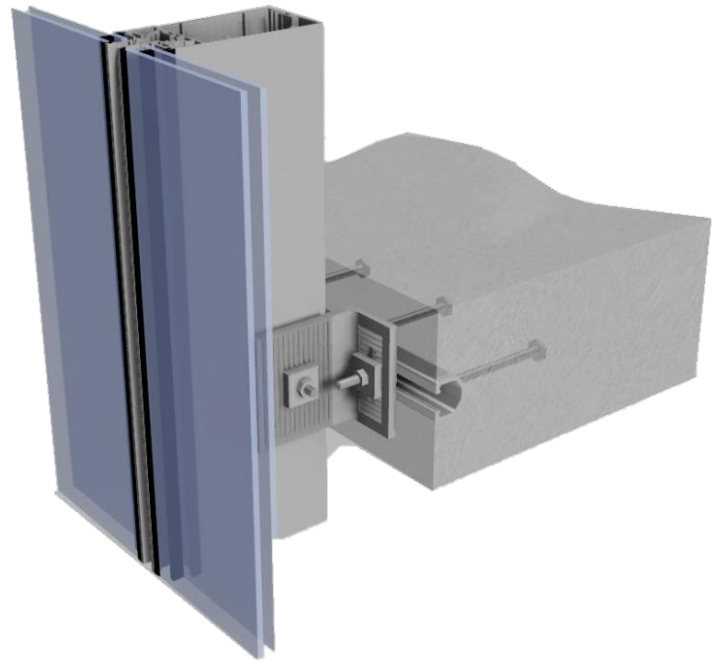
Project Information

Project Name:

Condition No.: Detail No.:

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_a : in



Geometry

- 8. h_c : in
- 9. C_a : in
- 10. e_b : in
- 10b. e_t : in
- 11. L_s : in
- 12. t_b : in
- 13. W_b : in
- 13b. W_m : 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

*Seismic information if applicable only.

*27. d_{EL2} : in

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, $f'c$:**
Specified 28 day compressive strength of concrete.
5. **Yield Stress, f_y :**
Specified yield strength of reinforcement.
6. **Stirrup Spacing, s :**
Specified center to center offset stirrup distance.

Geometry

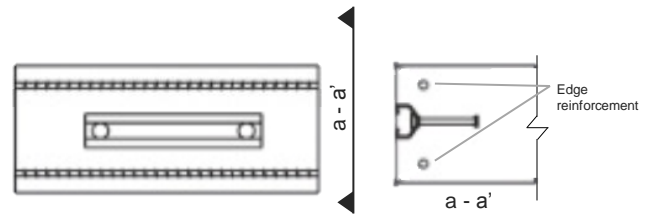
8. **Thickness of the concrete member, h_c :**
Thickness of the concrete member where the anchor channel will be installed, typically slab (applicable to any other concrete members).
9. **Edge Distance, C_a :**
Distance from center of channel to edge of slab.
10. **Bracket Bottom Distance, E_b :**
Distance from the center of the anchor channel to the lower end of the bracket.
- 10b. **Bracket Top Distance, E_t :**
Distance from the center of the anchor channel to the upper end of the bracket.
11. **Length of Concrete Member, L_s :**
Length of concrete members. This applies to narrow sections (e.g. beams, columns) only.
12. **Thickness of Bracket, t_b :**
Specified thickness of bracket.
- 13b. **Mullion Width, W_m :**
Width of Mullion
15. **HAC Anchor Channel Adjustment:**
Desired lateral adjustment provided by the HAC Anchor Channel

Loads

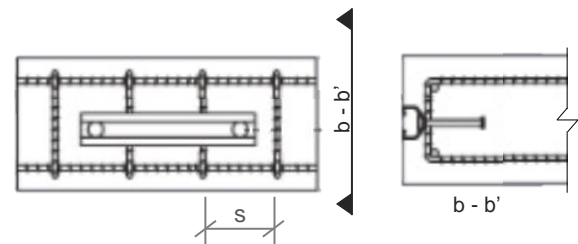
17. **Building Code with Year:**
Provide the Building Code used for the design and analysis of the project.
18. **Cracking at Service Loads:**
Specify if analysis indicates cracking of concrete at service load levels. If unknown, cracked concrete will be assumed.
19. **Service Dead Load, DL :**
Unfactored 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, d_{DL} :**
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, d_{WL} :**
Horizontal distance from the center plane of the anchor channel to the resultant wind load. If load acts below the reference axis, use negative distance.

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 ”:



13. Width of Bracket, W_b :

Specified width of bracket.

14. Bolt Spacing, S_b :

Distance from center to center of bolt.

16. Bracket Adjustment:

Provide the maximum and minimum vertical and 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, d_{EL1} :

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

27. Earthquake Load Distance, d_{EL2} :

Vertical distance from the slab to the resultant earthquake load.

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