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**FAX #:**  
**PAGE:** 1 of 1  
**DATE:** Tuesday, July 31, 2007  
**TO:**  
**ATTENTION:**

Re: Placing Studrails<sup>®</sup> upside-down in a concrete slab

To whom it may concern:

Studrails<sup>®</sup> may be placed upside-down in the slab in certain cases such as if the reinforcement has been placed prior to installing the Studrails<sup>®</sup>.

The function of a Studrail<sup>®</sup> is to intercept punching shear cracks that develop in the slab in the vicinity of a slab-column connection. The studs on each Studrail<sup>®</sup> are anchored at the top with the oversized stud head, and at the bottom with the base rail. The base rail is also used to provide the proper spacing of the studs away from the column face. Plastic chairs that are supplied with the Studrails<sup>®</sup> are used to ensure that correct concrete cover is provided for the Studrails<sup>®</sup>. Since the base rail provides the same anchorage as the oversized stud head, the Studrail<sup>®</sup> should work the same if it is placed upside-down in the slab.

The placement of Studrails<sup>®</sup> is important and the following rules must be followed when placing the Studrails<sup>®</sup> upside-down:

- 1.) The studs must be vertical.
- 2.) The first stud on the Studrail<sup>®</sup> must be the proper distance away from the column face. An incorrect placement could render the Studrail<sup>®</sup> ineffective.
- 3.) The Studrails<sup>®</sup> should be tied off to the top and bottom reinforcement in the slab so that they do not move when the concrete is poured.
- 4.) Correct concrete cover should be verified both above and below each Studrail<sup>®</sup>.

If you have any questions or require further clarification, please do not hesitate to contact me.

Yours Sincerely,  
DECON<sup>®</sup>

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Vice President, Engineering