



Upgrade Your Coiled Strap: How and Innovative Embossment Takes Utility Straps to the Next Level Webinar Q&A

This document includes questions submitted by attendees during the live webinar, *Upgrade Your Coiled Strap: How and Innovative Embossment Takes Utility Straps to the Next Level*, held on February 12, 2019, along with presenter responses. In some cases, duplicate questions have been combined and noted as such. Please send any additional technical questions to AskSimpson@strongtie.com.

Question	Answer
Installation	
1 For the nails, typical power fixed nails here have a notch in the nail head, has this been taken into account?	The straps require a full round head nail. Clipped head or t-head nails are not considered.
2 Can clipped head nails be used and if so what is the load reduction?	No, nails need to be full round head concentric.
3 Do off center nails reduce the rated values of the straps?	We do not have a load for off center nails currently. While off center nails are permitted for sheathing nailing, they have not been tested in connectors.
4 Are additional fasteners, between the nail seats, permitted for attachment of siding or furring?	We do not support adding holes to the strap as that could reduce the steel strength.
5 Any problem with nailing sheathing over the straps?	We do not want additional nails to puncture the strap. This is the same with flat strap. Applying the straps on top of the plywood helps to eliminate this issue.
6 How does the strap affect the nailing of the sheathing?	Typically sheathing is installed first, underneath the strap. In this case it does not interfere any differently than it normally would when installing a flat strap.
7 If the coil straps are installed directly onto the framing, what effect do the straps have when air nailing the sheathing through the straps and into the studs?	We do not want nails to penetrate the strap in locations not designated for a nail. Therefore, typically sheathing is installed first, underneath the strap. In this case it does not interfere any differently than it normally would when installing a flat strap.
(Similar) It should go under the sheathing or can be on the sheathing?	



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| <p>8 I wanted to confirm understanding regarding use of strap and nail length with plywood. Using the strap over plywood and 2 1/2" long nail will provide the same performance as the strap nailed directly to framing using 1 1/2" nail? I would take this to imply that the 'fill' thickness of the plywood does not affect performance provided the minimum penetration into the main framing is maintained?</p> | <p>Correct, you can use the strap over plywood with 2 1/2" long nails or use the strap nailed directly to framing with 1 1/2" long nails. Both will result in the catalog loads listed in the table for the appropriate diameter nail.</p> |
| <p>9 Where is it shown that a 1 1/2" nail can be used if strap applied directly to framing?</p> | <p>Page 260 of C-C-2019 has nail substitutions which allow the shorter 0.131"x1 1/2" and 0.148"x1 1/2" nails to be used instead of the 2.5" long nails of the same diameter with a 1.00 adjustment factor. See footnote 3: if installing the strap over plywood, one must use a 2.5" long nail, minimum.</p> |
| <p>10 What capacity reduction would you have if a contractor would happen to install the strap backwards "this side up" down? Or would this potentially just result in damage to the strap by potentially installing the nails not at the intended locations?</p> | <p>We are testing this situation (strap installed backwards) and will be able to offer that information after testing is complete.</p> |
| <p>(Similar)
There is a front and back to the strap, what happens when the strap is installed with the back facing out?</p> | |
| <p>(Similar)
Is there any capacity when installed upside down?</p> | |
| <p>11 Does wood species affect performance?</p> | <p>Wood species affect the allowable load value of the nail and therefore you will be required to install more or less nails depending on the species of wood. In general SPF/HF requires a higher quantity of nails in order to get the same load rating as an installation on DF/SP lumber.</p> |
| <p>12 How do you connect cancelled straps with screws to cold form steel studs? Can screw gun install same as nail gun?</p> | <p>We publish values for straps in our <i>Connectors for Cold-Formed Steel Construction</i> catalog. The embossed feature on the CSHP wouldn't offer an advantage over standard straps in CFS installations.</p> |
| <p>13 If the nail gun misses the center will that compromise the strap integrity?</p> | <p>Yes, it could, just as it can with current CS straps.</p> |
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14	Can they be installed inside the wall of a residential home as they don't stick frame in our area?	Yes
15	Do you have recommended notes for installation of these straps?	Yes, please visit www.strongtie.com/cshp for installation notes, use and warnings.
16	Without a nail locator, how do you assure that the nails are in the center of the holes?	These can be installed with a nailer that has a hole locating device. It also fits most nailer's nosepieces. This allows the nosepiece to fit within the ring to help position the nail correctly.
17	What if the strap nail hole happens to be at a knot of a stud and nail is hard to be driven into the wood?	Yes it would be, same as it would be with any connection being made. Fortunately in most wood structures there is redundancy and the structural products have acceptance criteria that require safety factors. ICC-ES and IAPMO-UES are two credible sources that can be referenced.
18	There's a high pressure compressor that can shoot nails into steel that will help with these straps	Follow the recommended air pressure guidelines specific to your tool.
19	What PSI is needed for proper installation?	Follow the recommended air pressure guidelines specific to your tool.
20	When do you consider a building to be settled enough, so the contractor could nail the upper portion of a strap?	Each job is going to be different depending on the lumber used and the environment you are in. It is best if you can get the roof loaded before nailing the other half of the strap though.
21	Can I use screws with this strap?	At this time, the CSHP straps are not load rated with screws.
	(Similar) Can SD Screws be used?	
	(Similar) Any testing with screws?	
	(Similar) Are these new straps able to utilize screws?	
22	Can CSHP be used with steel studs and screws?	Not at this time.



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Testing and Approval

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| 23 | Does this product have an ICC certification already? | CSHP is listed in ICC-ESR 2105. |
| 24 | Has this product been tested and approved for use in Canada? | We are working on creating Canadian Limit States Design Values currently |
| 25 | Does it have LARR #? | ICC-ES ESR will issue soon. We will get an LA Supplement in that report shortly after. |
| 26 | Is the strap approved for use in NYS and NYC? | CSHP is listed in ICC-ESR 2105. |
| 27 | These straps will be very effective to prevent structural failure in Hurricane and Tornado prone areas. Is Simpson contacted IBC code committee for such application? | CSHP is listed in ICC-ESR 2105. |
| 28 | When specifying less nails than needed to achieve the maximum load are there minimum numbers (for instance when developing a strap a long distance into a diaphragm)? | You can use a reduced number of nails. Reduce the allowable load per the calculation in footnote 4 on page 266 in the C-C-2019 <i>Wood Construction Connectors Catalog</i> . |
| 29 | Are the increased nail values only available upon the 1st nailing of a strap. i.e. if nails out part of strap are removed can they be renailed and achieve the same load or do the embossments get "flattened out" ? | Straps should be installed once. We have not considered reusing these on a second connection. Fortunately, steel is a resource that can be recycled, so the product could take a new form when the building's service life ends. |

Strap Thickness

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| 30 | What is the overall thickness of CSHP 18? Any issues with finish install? | Compared to a flat 18-gauge strap the nail sticks up 0.005" higher. There are always tolerances as well so it might be more or less than that. |
| 31 | CSHP Product total thickness including embossments? | It is approximately 0.131" |
| 32 | Does CSHP strap end up thicker than discontinued straps? | The strap itself is still made from an 18 gauge or 20 gauge strap. The embossment adds approximately 0.084" of additional thickness at the embossment locations. |
| 33 | Does the new raised cone affect exterior finishes such as plaster & siding? | It should not. The drywaller should be able to float over it but they will need to be aware of the strap. |



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Availability and Substitutions

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| 34 | Are they available in galvanized form?

<i>(Similar)</i>
Is there a G90 option? | CSHP are G90 galvanized. |
| 35 | Will it be available in either HDG or stainless? | We plan to sell them only in G90. |
| 36 | So does that mean you still manufacture CS18 straps for cold form framing applications? | CS18 will be phased out in 2019. CS14, CS16, and CS20 will remain. |
| 37 | Are these new straps currently available and if so how available are they? | CSHP20 will be available March 1st, CSHP18 will follow shortly after. |
| 38 | Is there any plan to update/replace the higher capacity straps? | Not at this time. |
| 39 | The reason we typically spec CS16 is because many years ago we were told that is typically carried at the big box stores. It does seem CS16 is still the strap that is readily available at the box stores in Southwest PA. Will the new CSHP become the norm in the stores? | CS16 will remain and many big box stores sell our -R size carton which is 25 ft. long. CSHP will launch in 75 ft. cartons. Other cartons will be evaluated as they are accepted into the distribution chain. |
| 40 | Is it an alternate for CMST too? | Not at this time as the allowable loads for CMST are higher than those of the CSHP. |
| 41 | How does the cost of traditional coil straps compare with that of the new coil straps? | Depending on which two straps are being compared CSHP can be marginally higher, strap to strap, but will end up being a lower total cost overall since the nail load increase allows for shorter straps and fewer nails. |

Web App & Literature

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| 42 | Is the coil strap designer applicable for use in horizontal applications as well? | Yes. You can access the Coiled Strap Designer and Coiled Strap Cut Length Calculator here:
https://www2.strongtie.com/webapps/CoilStrapCalculator/DesignCalculator.aspx |
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| 43 | For coil strap designer tool, does this tool include reductions if nailing into narrow face of EWP? | No, designer should consider spacing fasteners no closer than EWP's minimum recommended spacing. |
| 44 | Has Simpson published the new catalog with new straps included?

(Similar)
Is the new catalog out? How do I get a copy? | Yes, the 2019-2020 <i>Wood Construction Connectors</i> catalog includes information on the new CSHP. You can download a PDF or order a printed copy of the catalog here: https://www.strongtie.com/resources/literature/wood-construction-connectors-catalog |
| 45 | I design wood constructions in Canada and would like to have a complete catalog of the products available here ... could you give me a link? | You can download a PDF or order a printed copy of the <i>Wood Construction Connectors Catalogue – Canadian Edition (C-C-CAN2018)</i> here: https://www.strongtie.com/resources/literature/wood-construction-connectors-catalog-cn |
| 46 | Is there new 2019 CFS catalog available? | The current CFS catalog (C-CF-2017) expires 12/31/19. The 2019 CFS catalog will be available in January 2020. You can download a PDF or order a printed copy of the current <i>Connectors For Cold-Formed Steel Construction</i> catalog here: https://www.strongtie.com/resources/literature/cold-formed-steel-catalog |
| 47 | What is the reason to switching from 10d,16d designations in the tables? | Confusion in the field about what a 10d or 16d nail diameter was (box nail, common nail, sinker nail). Feedback from the field was that listing diameter x length was most clear for contractors. |