

Interior Shaftwall Lookup Tool

CLARKDIETRICH CT-STUD SHAFTWALL SYSTEM

WALL LOOKUP FILTERS

Step 1: Select your Design

[Reset All Filters](#)

Design:
[Installation Procedures](#) • [Construction Details](#)

Step 2: Select your Filters

DESIGN FILTERS

Lateral load:

Deflection:

Limiting height: 15ft 7in

ASSEMBLY

Stud web width:

Stud thickness: 18ga only
available in select markets

Stud spacing: Can we have just 24" o.c?

5 WALL SYSTEMS SHOWN

[Design Notes](#)

CDSW400-25

4" 25ga CT-ShaftWall
Stud

Vertical Limiting Heights
at 5 psf

Limiting Height

Spacing	L/240
24	16'-0"



<u>CDSW400-20</u> 4" 20ga CT-ShaftWall Stud Vertical Limiting Heights at 5 psf	Limiting Height <table> <tr> <th>Spacing</th><th>L/240</th></tr> <tr> <td>24</td><td>18'-7"</td></tr> </table>	Spacing	L/240	24	18'-7"
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24	18'-7"				
<u>CDSW400-18</u> 4" 18ga CT-ShaftWall Stud Vertical Limiting Heights at 5 psf	Limiting Height <table> <tr> <th>Spacing</th><th>L/240</th></tr> <tr> <td>24</td><td>20'-0"</td></tr> </table>	Spacing	L/240	24	20'-0"
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<u>CDSW600-20</u> 6" 20ga CT-ShaftWall Stud Vertical Limiting Heights at 5 psf	Limiting Height <table> <tr> <th>Spacing</th><th>L/240</th></tr> <tr> <td>24</td><td>26'-6"</td></tr> </table>	Spacing	L/240	24	26'-6"
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NOTES

Do we want to mention Intertek listings in addition to PEI report?

DESIGN NOTES

- See General Product Usage and Limitations listed in the Assembly Evaluation report [PEI AER-12061](#).
- Heights labeled with a * are Reduced for End Reaction capacity.
- Heights labeled with a ** are Reduced for Flexural Strength Capacity.
- The values in this table are based on testing per ICC-ES AC 86 (July 1995) and ASTM E72-98 and represent the limiting height capacity for strength using a 1.5 Safety Factor.
- Limiting height values shown, were assessed from the **lowest** flexural strength value of gypsum tested.



GYPSUM SHAFT LINER PANEL NOTES

- The liner board products utilized in the Shaftwall assembly are proprietary 1" thick shaft liner boards. The gypsum liner panels are 1" thick x 24" wide x Length. Any butt joints used must be factory edge to edge with pieces pushed tight together. Check the details of the selected fire rated assembly. **We need to add the caveat about not having all joints line up, minimum number of tabs required to be engaged, no splicing of studs, simple spans only, etc.**

SOUND ASSEMBLY NOTES

- The Shaftwall / Stairwall / Horizontal assemblies and their components in this Lookup Tool and in the [PEI AER-12061](#) report have been tested in accordance with ASTM E90 (90) and ASTM E413 (87). When the assemblies are installed in the same manner as noted in the test reports the assembly will have a minimum STC (Sound Transmission Class) rating of 50. Review the [PEI AER-12061](#) report for more details.

FIRE RATED ASSEMBLY NOTES

Horizontal assemblies were not tested for fire. They are based on calculations only.

- The Shaftwall / Stairwall / Horizontal assemblies and their components in this Lookup Tool and in the [PEI AER-12061](#) report have been tested in accordance with ASTM E119. When the assemblies are installed in the same manner as noted in the test reports the assembly will have a minimum 2 hour fire rating. Review the [PEI AER-12061](#) report for more details. **We also have a 1 hour Intertek listing now.**



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