

## General notes on span tables for wall panels with consideration of hidden fixing

Note the following:

- The characteristic loads are to be determined according to the terms of valid standards and eurocodes.
- Choose the minimal supporting width from wind pressure and wind suction for the respective case of application.
- Colour groups I (very light), II (light) and III (dark) – see approval.
- This span table is valid for buildings with normal interior climate (no cold store or ripening facilities).
- Valid supporting widths are stated in meters (m), support widths in millimetres (mm), see example below. Supporting widths are valid for multiple-span installation and direct fixing with a maximum of 5 screws per intermediary support line and meter. For more than 5 screws per meter crease tension must be checked according to the requirements of the Zulassung.
- For approved supporting widths in the table for hidden fixing only the stated fixing method is valid. Other fixing methods are to be calculated separately, see Z-10.49-517, attachment 2.2. Consider values (cp1) as wind suction load for fixing.
- In each case a separate proof for fixing material is required (for tensile load of wind suction and temperature, for pulling-out of the subconstruction and for screw-head-deflection). **A high tensile capacity and therefore a high supporting width for a hidden fixing is achieved by a symmetrical subconstruction with adequate thickness of material.**

Example:

from wind pressure table:

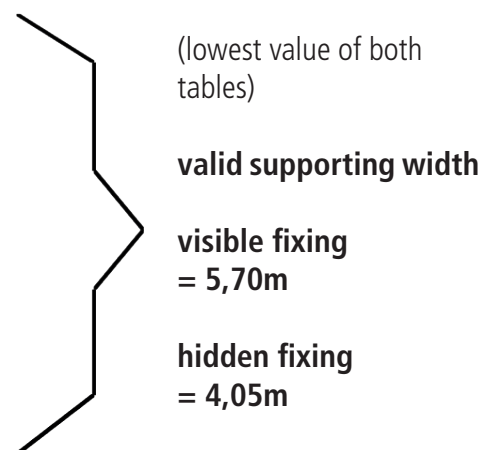
40	→ end support width necessary (mm)
<b>5,70</b>	→ valid supporting width (m)
60	→ intermediate support width necessary (mm)

from wind suction table:

<b>6,13</b>	→ valid supporting width (m)
-------------	------------------------------

from wind suction table with hidden fixing:

<b>4,05</b>	→ valid supporting width (m)
-------------	------------------------------

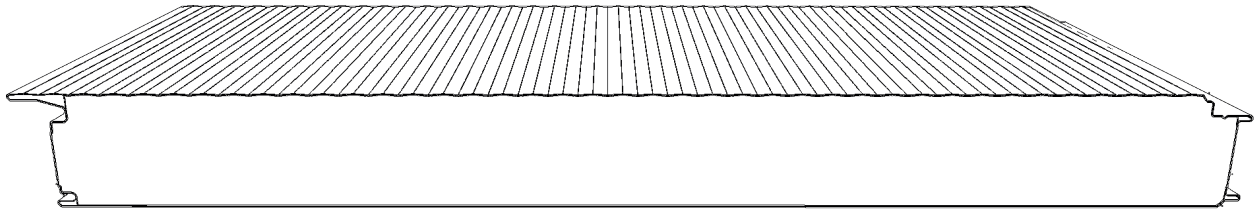


# Span table 05-06

Superwall HF 60 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



## Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40 <b>6,10</b>	40 <b>5,57</b>	40 <b>4,82</b>	40 <b>4,17</b>	40 <b>3,47</b>	40 <b>2,60</b>	40 <b>2,08</b>	40 <b>1,66</b>	40 <b>1,38</b>	40 <b>1,19</b>	40 <b>1,04</b>

## Valid supporting widths [m] for wind suction

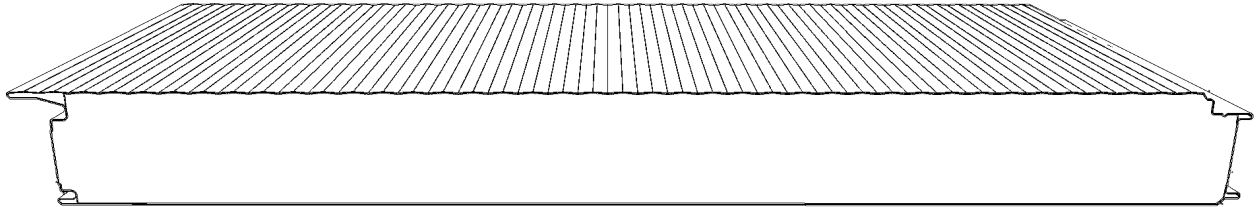
stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>7,36</b>	<b>6,72</b>	<b>5,21</b>	<b>4,17</b>	<b>3,47</b>	<b>2,60</b>	<b>2,08</b>	<b>1,66</b>	<b>1,39</b>	<b>1,19</b>	<b>1,04</b>

# Span table 05-08

Superwall HF 80 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



## Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40 <b>7,06</b>	40 <b>6,45</b>	40 <b>5,58</b>	40 <b>4,99</b>	40 <b>4,56</b>	40 <b>3,49</b>	40 <b>2,79</b>	40 <b>2,23</b>	40 <b>1,86</b>	40 <b>1,59</b>	40 <b>1,39</b>

## Valid supporting widths [m] for wind suction

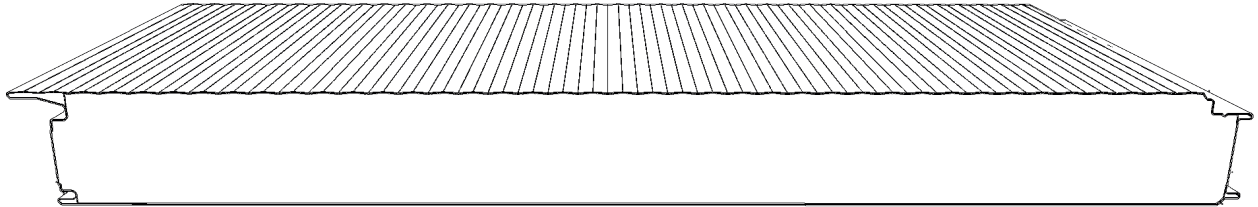
stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>8,52</b>	<b>7,78</b>	<b>6,74</b>	<b>5,59</b>	<b>4,66</b>	<b>3,49</b>	<b>2,79</b>	<b>2,23</b>	<b>1,86</b>	<b>1,60</b>	<b>1,40</b>

# Span table 05-10

Superwall HF 100 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



## Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40 <b>7,91</b>	40 <b>7,22</b>	40 <b>6,25</b>	40 <b>5,59</b>	44 <b>5,10</b>	50 <b>4,38</b>	50 <b>3,50</b>	50 <b>2,80</b>	50 <b>2,34</b>	50 <b>2,00</b>	50 <b>1,75</b>

## Valid supporting widths [m] for wind suction

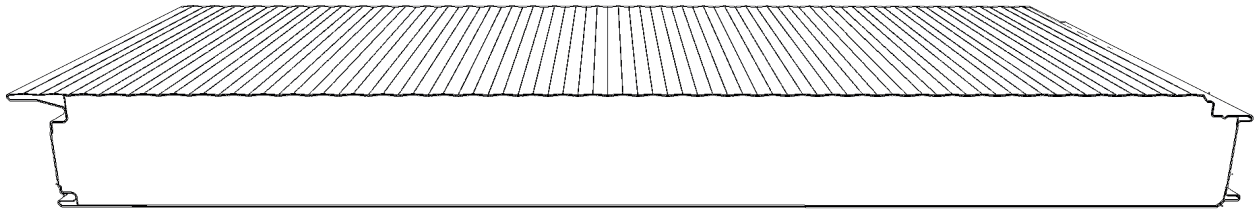
stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>9,54</b>	<b>8,71</b>	<b>7,54</b>	<b>6,75</b>	<b>5,84</b>	<b>4,38</b>	<b>3,50</b>	<b>2,80</b>	<b>2,34</b>	<b>2,00</b>	<b>1,75</b>

# Span table 05-12

## Superwall HF 120 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



### Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40 <b>8,67</b>	40 <b>7,92</b>	40 <b>6,86</b>	44 <b>6,13</b>	48 <b>5,60</b>	55 <b>4,85</b>	60 <b>4,22</b>	60 <b>3,37</b>	60 <b>2,81</b>	60 <b>2,41</b>	60 <b>2,10</b>

### Valid supporting widths [m] for wind suction

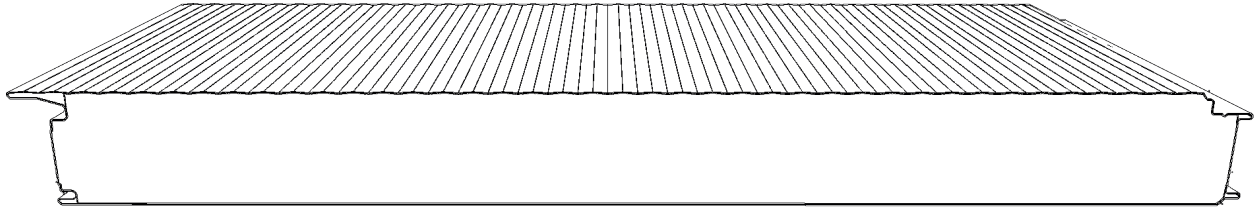
stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>10,46</b>	<b>9,55</b>	<b>8,27</b>	<b>7,40</b>	<b>6,76</b>	<b>5,27</b>	<b>4,22</b>	<b>3,37</b>	<b>2,81</b>	<b>2,41</b>	<b>2,10</b>

# Span table 05-15

Superwall HF 150 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



## Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	40 <b>11,33</b>	44 <b>10,34</b>	51 <b>8,95</b>	57 <b>8,01</b>	63 <b>7,31</b>	72 <b>6,33</b>	75 <b>5,28</b>	75 <b>4,22</b>	75 <b>3,52</b>	75 <b>3,02</b>	75 <b>2,64</b>

## Valid supporting widths [m] for wind suction

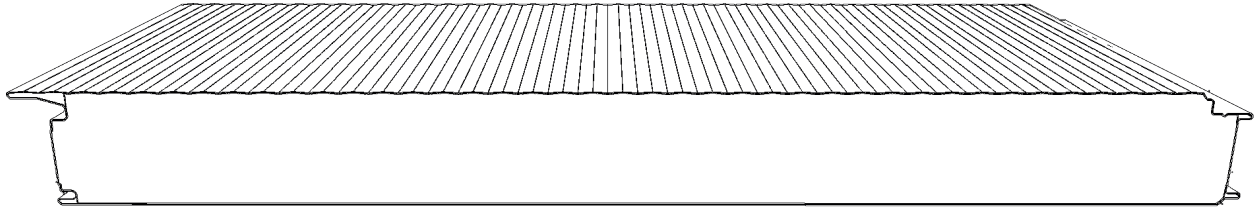
stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>12,05</b>	<b>11,00</b>	<b>9,53</b>	<b>8,52</b>	<b>7,78</b>	<b>6,60</b>	<b>5,28</b>	<b>4,22</b>	<b>3,52</b>	<b>3,02</b>	<b>2,64</b>

# Span table 05-20

## Superwall HF 200 mm

$t_N = 0,60 / 0,60$  mm

The following maximum supporting widths are approved according Zulassung Z-10.49-517 of November 21st 2019 and EN 14509. Instructions how to apply this table can be found on the frontpage.



### Valid supporting widths [m] for wind pressure

stat. system	colour group	wind pressure in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	47 <b>13,09</b>	51 <b>11,95</b>	59 <b>10,35</b>	66 <b>9,26</b>	72 <b>8,45</b>	83 <b>7,32</b>	93 <b>6,55</b>	101 <b>5,65</b>	100 <b>4,70</b>	100 <b>4,03</b>	101 <b>3,53</b>

### Valid supporting widths [m] for wind suction

stat. system	colour group	wind suction in kN / m <sup>2</sup>										
		0,25	0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50	1,75	2,00
single span	I, II, III	<b>13,93</b>	<b>12,72</b>	<b>11,01</b>	<b>9,85</b>	<b>8,99</b>	<b>7,79</b>	<b>6,96</b>	<b>5,65</b>	<b>4,70</b>	<b>4,03</b>	<b>3,53</b>