

## General notes on span tables for wall panels

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/frozen storage or ripening facilities).
- Valid supporting widths are stated in meters (m), necessary support widths in millimetres (mm), see example below.
- Deflection amounts to a maximum of  $L/100$  under consideration of all unfavourable loads according to approval.
- **The stated supporting widths apply to multi-span beams and direct attachment up to max. 3 screws per intermediate support line and meter. If there are more than 3 screws per meter, the wrinkle tension is to be checked according to the requirements of the approval.**
- In each individual case, a separate proof of the fastening (tensile stress from wind suction and Temperature, for tearing out of the substructure and the screw head deflection) is required.



Example:

from wind pressure table:

40	→ end support width necessary (mm)
<b>5,05</b>	→ valid supporting width (m)
60	→ intermediediate support width necessary (mm)

from wind suction table:

<b>4,73</b>	→ valid supporting width (m)
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} valid supporting width = 4,73 m (lowest value of both tables)

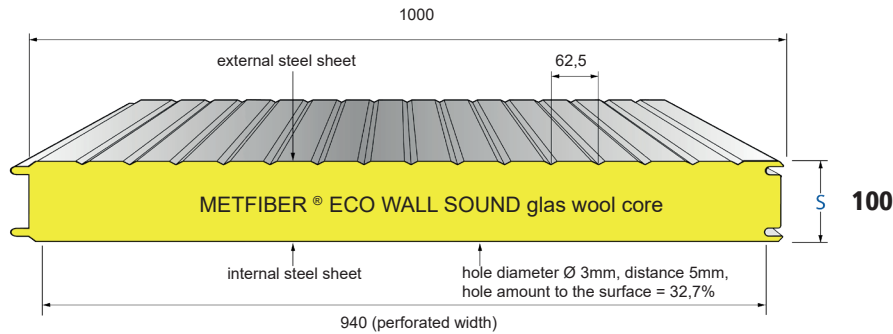


# Span table 12A-10

## Metfiber Eco Wall Sound 100 mm

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

The following maximum supporting widths for Metecno sandwich panels with glass-wool core have been calculated according approval Z-10.49-613 of October 17th 2018. For perforated steel sheets the reduced surface (due to the pierced holes) and reduced tensile strength have been taken into account. Sandwich panels with perforated sheets are not covered by EN 14509. Instructions how to use the table are mentioned on the frontpage.



### Wind pressure load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	40	43	49	55	60	69	78	83	83	83	83
		<b>9,42</b>	<b>8,60</b>	<b>7,45</b>	<b>6,66</b>	<b>6,08</b>	<b>5,26</b>	<b>4,71</b>	<b>4,04</b>	<b>3,36</b>	<b>2,88</b>	<b>2,52</b>
2-panels	I	40	40	40	40	40	50	60	72	83	83	83
		<b>4,64</b>	<b>4,52</b>	<b>4,32</b>	<b>4,16</b>	<b>4,03</b>	<b>3,82</b>	<b>3,66</b>	<b>3,51</b>	<b>3,36</b>	<b>2,88</b>	<b>2,52</b>
	II	60	60	60	69	80	101	121	145	166	166	166
		<b>4,64</b>	<b>4,52</b>	<b>4,32</b>	<b>4,16</b>	<b>4,03</b>	<b>3,82</b>	<b>3,66</b>	<b>3,51</b>	<b>3,36</b>	<b>2,88</b>	<b>2,52</b>
	III	40	40	40	40	40	50	60	72	83	83	83
		<b>4,36</b>	<b>4,36</b>	<b>4,32</b>	<b>4,16</b>	<b>4,03</b>	<b>3,82</b>	<b>3,66</b>	<b>3,51</b>	<b>3,36</b>	<b>2,88</b>	<b>2,52</b>
3-panels	I	40	40	40	40	41	50	59	70	80	83	83
		<b>5,27</b>	<b>5,01</b>	<b>4,62</b>	<b>4,34</b>	<b>4,13</b>	<b>3,82</b>	<b>3,59</b>	<b>3,38</b>	<b>3,32</b>	<b>2,88</b>	<b>2,52</b>
	II	60	60	61	72	82	101	118	139	159	166	166
		<b>5,27</b>	<b>5,01</b>	<b>4,62</b>	<b>4,34</b>	<b>4,13</b>	<b>3,82</b>	<b>3,59</b>	<b>3,38</b>	<b>3,32</b>	<b>2,88</b>	<b>2,52</b>
	III	40	40	40	40	41	50	59	70	80	83	83
		<b>5,16</b>	<b>5,01</b>	<b>4,62</b>	<b>4,34</b>	<b>4,13</b>	<b>3,82</b>	<b>3,59</b>	<b>3,38</b>	<b>3,32</b>	<b>2,88</b>	<b>2,52</b>
III	60	60	61	72	82	101	118	139	159	166	166	
	<b>5,16</b>	<b>5,01</b>	<b>4,62</b>	<b>4,34</b>	<b>4,13</b>	<b>3,82</b>	<b>3,59</b>	<b>3,38</b>	<b>3,32</b>	<b>2,88</b>	<b>2,52</b>	

### Wind suction load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	<b>8,06</b>	<b>7,35</b>	<b>6,37</b>	<b>5,70</b>	<b>5,20</b>	<b>4,50</b>	<b>4,03</b>	<b>3,60</b>	<b>3,29</b>	<b>2,88</b>	<b>2,52</b>
2-panels	I	<b>5,98</b>	<b>5,98</b>	<b>5,98</b>	<b>5,70</b>	<b>5,20</b>	<b>4,50</b>	<b>4,03</b>	<b>3,60</b>	<b>3,29</b>	<b>2,88</b>	<b>2,52</b>
	II	<b>5,98</b>	<b>5,76</b>	<b>5,37</b>	<b>5,08</b>	<b>4,86</b>	<b>4,50</b>	<b>4,03</b>	<b>3,60</b>	<b>3,29</b>	<b>2,88</b>	<b>2,52</b>
	III	<b>3,95</b>	<b>3,90</b>	<b>3,80</b>	<b>3,71</b>	<b>3,64</b>	<b>3,51</b>	<b>3,40</b>	<b>3,30</b>	<b>3,20</b>	<b>2,88</b>	<b>2,52</b>
3-panels	I	<b>8,06</b>	<b>7,35</b>	<b>6,37</b>	<b>5,70</b>	<b>5,20</b>	<b>4,50</b>	<b>4,03</b>	<b>3,60</b>	<b>3,29</b>	<b>2,88</b>	<b>2,52</b>
	II	<b>7,55</b>	<b>7,01</b>	<b>6,25</b>	<b>5,70</b>	<b>5,20</b>	<b>4,50</b>	<b>4,03</b>	<b>3,60</b>	<b>3,29</b>	<b>2,88</b>	<b>2,52</b>
	III	<b>4,04</b>	<b>3,94</b>	<b>3,76</b>	<b>3,63</b>	<b>3,52</b>	<b>3,34</b>	<b>3,20</b>	<b>3,07</b>	<b>2,96</b>	<b>2,87</b>	<b>2,52</b>

subject to alterations • as of 08/21

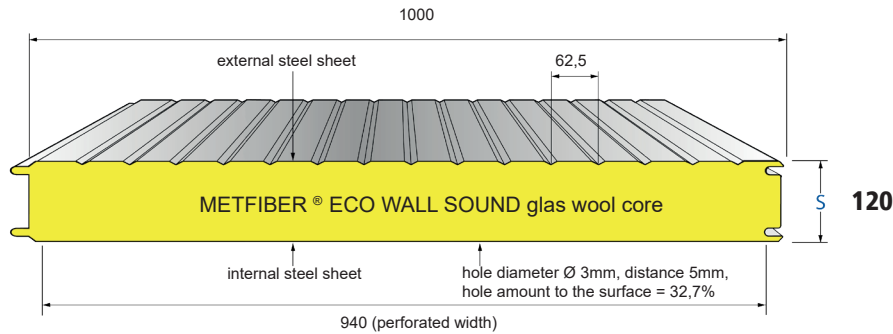


# Span table 12A-12

## Metfiber Eco Wall Sound 120 mm

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

The following maximum supporting widths for Metecno sandwich panels with glass-wool core have been calculated according approval Z-10.49-613 of October 17th 2018. For perforated steel sheets the reduced surface (due to the pierced holes) and reduced tensile strength have been taken into account. Sandwich panels with perforated sheets are not covered by EN 14509. Instructions how to use the table are mentioned on the frontpage.



### Wind pressure load

stat. system	colour group	wind pressure load 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	
1-panel	I, II, III	46	50	58	65	71	80	80	80	80	80	80	80
		<b>8,76</b>	<b>8,76</b>	<b>8,76</b>	<b>7,83</b>	<b>7,15</b>	<b>6,06</b>	<b>4,85</b>	<b>3,88</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>	<b>2,42</b>
2-panels	I	40	40	40	40	40	41	50	61	72	80	80	80
		<b>3,42</b>	<b>3,39</b>	<b>3,33</b>	<b>3,27</b>	<b>3,22</b>	<b>3,14</b>	<b>3,06</b>	<b>2,98</b>	<b>2,91</b>	<b>2,77</b>	<b>2,42</b>	<b>2,42</b>
	60	60	60	60	64	83	101	123	144	160	160	160	
	II	40	40	40	40	40	41	50	61	72	80	80	80
		<b>3,42</b>	<b>3,39</b>	<b>3,33</b>	<b>3,27</b>	<b>3,22</b>	<b>3,14</b>	<b>3,06</b>	<b>2,98</b>	<b>2,91</b>	<b>2,77</b>	<b>2,42</b>	<b>2,42</b>
	60	60	60	60	64	83	101	123	144	160	160	160	160
III	40	40	40	40	40	41	50	61	72	80	80	80	
	<b>3,42</b>	<b>3,39</b>	<b>3,33</b>	<b>3,27</b>	<b>3,22</b>	<b>3,14</b>	<b>3,06</b>	<b>2,98</b>	<b>2,91</b>	<b>2,77</b>	<b>2,42</b>	<b>2,42</b>	
60	60	60	60	64	83	101	123	144	160	160	160	160	
3-panels	I	40	40	40	40	40	40	44	53	62	71	80	80
		<b>3,02</b>	<b>2,98</b>	<b>2,92</b>	<b>2,86</b>	<b>2,81</b>	<b>2,73</b>	<b>2,66</b>	<b>2,58</b>	<b>2,25</b>	<b>2,46</b>	<b>2,42</b>	<b>2,42</b>
	60	60	60	60	60	60	72	88	106	125	142	159	
	II	40	40	40	40	40	40	44	53	62	71	80	80
		<b>3,02</b>	<b>2,98</b>	<b>2,92</b>	<b>2,86</b>	<b>2,81</b>	<b>2,73</b>	<b>2,66</b>	<b>2,58</b>	<b>2,25</b>	<b>2,46</b>	<b>2,42</b>	<b>2,42</b>
	60	60	60	60	60	60	72	88	106	125	142	159	159
III	40	40	40	40	40	40	44	53	62	71	80	80	
	<b>3,02</b>	<b>2,98</b>	<b>2,92</b>	<b>2,86</b>	<b>2,81</b>	<b>2,73</b>	<b>2,66</b>	<b>2,58</b>	<b>2,25</b>	<b>2,46</b>	<b>2,42</b>	<b>2,42</b>	
60	60	60	60	60	60	72	88	106	125	142	159	159	

### Wind suction load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	<b>8,69</b>	<b>7,93</b>	<b>6,87</b>	<b>6,15</b>	<b>5,61</b>	<b>4,86</b>	<b>4,35</b>	<b>3,88</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
2-panels	I	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
	II	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
	III	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,64</b>	<b>3,54</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
3-panels	I	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
	II	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>
	III	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,25</b>	<b>3,23</b>	<b>2,77</b>	<b>2,42</b>

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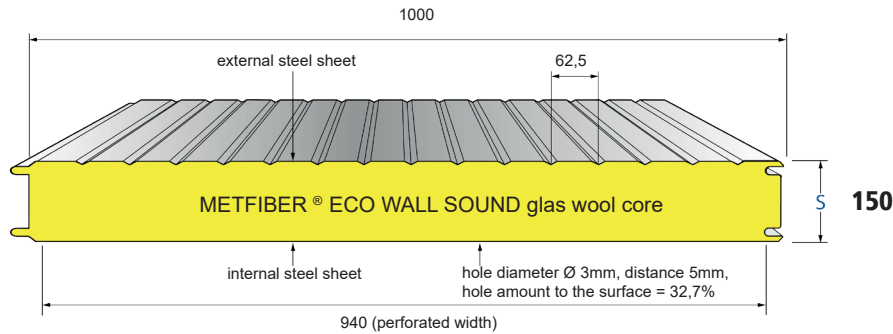


# Span table 12A-15

## Metfiber Eco Wall Sound 150 mm

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

The following maximum supporting widths for Metecno sandwich panels with glass-wool core have been calculated according approval Z-10.49-613 of October 17th 2018. For perforated steel sheets the reduced surface (due to the pierced holes) and reduced tensile strength have been taken into account. Sandwich panels with perforated sheets are not covered by EN 14509. Instructions how to use the table are mentioned on the frontpage.



### Wind pressure load

stat. system	colour group	wind pressure load 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	
1-panel	I, II, III	51	56	65	72	79	91	100	100	100	100	100	100
		<b>9,80</b>	<b>9,80</b>	<b>9,80</b>	<b>8,76</b>	<b>8,00</b>	<b>6,93</b>	<b>6,07</b>	<b>4,86</b>	<b>4,04</b>	<b>3,47</b>	<b>3,03</b>	<b>3,03</b>
2-panels	I	40	40	40	40	40	46	56	69	81	92	100	
		<b>3,83</b>	<b>3,79</b>	<b>3,72</b>	<b>3,66</b>	<b>3,60</b>	<b>3,51</b>	<b>3,42</b>	<b>3,34</b>	<b>3,26</b>	<b>3,19</b>	<b>3,03</b>	
	60	60	60	60	71	93	113	138	161	184	200		
	II	40	40	40	40	40	46	56	69	81	92	100	
		<b>3,83</b>	<b>3,79</b>	<b>3,72</b>	<b>3,66</b>	<b>3,60</b>	<b>3,51</b>	<b>3,42</b>	<b>3,34</b>	<b>3,26</b>	<b>3,19</b>	<b>3,03</b>	
	60	60	60	60	71	93	113	138	161	184	200		
III	40	40	40	40	40	46	56	69	81	92	100		
	<b>3,83</b>	<b>3,79</b>	<b>3,72</b>	<b>3,66</b>	<b>3,60</b>	<b>3,51</b>	<b>3,42</b>	<b>3,34</b>	<b>3,26</b>	<b>3,19</b>	<b>3,03</b>		
60	60	60	60	71	93	113	138	161	184	200			
3-panels	I	40	40	40	40	40	40	49	60	70	79	89	
		<b>3,37</b>	<b>3,34</b>	<b>3,26</b>	<b>3,20</b>	<b>3,14</b>	<b>3,05</b>	<b>2,97</b>	<b>2,89</b>	<b>2,82</b>	<b>2,75</b>	<b>2,70</b>	
	60	60	60	62	62	81	98	119	140	159	178		
	II	40	40	40	40	40	40	49	60	70	79	89	
		<b>3,37</b>	<b>3,34</b>	<b>3,26</b>	<b>3,20</b>	<b>3,14</b>	<b>3,05</b>	<b>2,97</b>	<b>2,89</b>	<b>2,82</b>	<b>2,75</b>	<b>2,70</b>	
	60	60	60	62	62	81	98	119	140	159	178		
III	40	40	40	40	40	40	49	60	70	79	89		
	<b>3,37</b>	<b>3,34</b>	<b>3,26</b>	<b>3,20</b>	<b>3,14</b>	<b>3,05</b>	<b>2,97</b>	<b>2,89</b>	<b>2,82</b>	<b>2,75</b>	<b>2,70</b>		
60	60	60	62	62	81	98	119	140	159	178			

### Wind suction load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	<b>9,72</b>	<b>8,88</b>	<b>7,69</b>	<b>6,88</b>	<b>6,28</b>	<b>5,44</b>	<b>4,86</b>	<b>4,35</b>	<b>3,97</b>	<b>3,47</b>	<b>3,03</b>
2-panels	I	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>3,97</b>	<b>3,47</b>	<b>3,03</b>
	II	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>3,97</b>	<b>3,47</b>	<b>3,03</b>
	III	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>4,07</b>	<b>3,97</b>	<b>3,47</b>	<b>3,03</b>
3-panels	I	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,47</b>	<b>3,03</b>
	II	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,47</b>	<b>3,03</b>
	III	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,63</b>	<b>3,43</b>	<b>3,03</b>

subject to alterations • as of 08/21

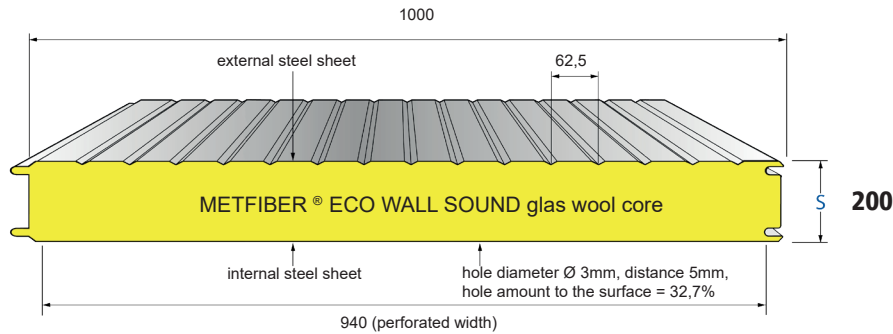


# Span table 12A-20

## Metfiber Eco Wall Sound 200 mm

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

The following maximum supporting widths for Metecno sandwich panels with glass-wool core have been calculated according approval Z-10.49-613 of October 17th 2018. For perforated steel sheets the reduced surface (due to the pierced holes) and reduced tensile strength have been taken into account. Sandwich panels with perforated sheets are not covered by EN 14509. Instructions how to use the table are mentioned on the frontpage.



### Wind pressure load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	59	65	75	83	91	106	118	132	134	134	134
		<b>9,24</b>	<b>9,24</b>	<b>9,24</b>	<b>9,24</b>	<b>9,24</b>	<b>8,00</b>	<b>7,16</b>	<b>6,40</b>	<b>5,40</b>	<b>4,63</b>	<b>4,05</b>
2-panels	I	40	40	40	40	41	53	65	79	93	107	119
		<b>4,42</b>	<b>4,38</b>	<b>4,30</b>	<b>4,23</b>	<b>4,16</b>	<b>4,05</b>	<b>3,96</b>	<b>3,85</b>	<b>3,76</b>	<b>3,69</b>	<b>3,62</b>
	60	60	60	70	82	107	131	159	186	213	239	
	II	40	40	40	40	41	53	65	79	93	107	119
		<b>4,42</b>	<b>4,38</b>	<b>4,30</b>	<b>4,23</b>	<b>4,16</b>	<b>4,05</b>	<b>3,96</b>	<b>3,85</b>	<b>3,76</b>	<b>3,69</b>	<b>3,62</b>
	60	60	60	70	82	107	131	159	186	213	239	
III	40	40	40	40	41	53	65	79	93	107	116	
	<b>4,42</b>	<b>4,38</b>	<b>4,30</b>	<b>4,23</b>	<b>4,16</b>	<b>4,05</b>	<b>3,96</b>	<b>3,85</b>	<b>3,76</b>	<b>3,69</b>	<b>3,62</b>	
60	60	60	70	82	107	131	159	186	213	239		
3-panels	I	40	40	40	40	40	46	57	69	80	92	103
		<b>3,90</b>	<b>3,85</b>	<b>3,77</b>	<b>3,70</b>	<b>3,64</b>	<b>3,52</b>	<b>3,43</b>	<b>3,34</b>	<b>3,25</b>	<b>3,18</b>	<b>3,12</b>
	60	60	60	61	72	93	113	138	161	184	206	
	II	40	40	40	40	40	46	57	69	80	92	103
		<b>3,90</b>	<b>3,85</b>	<b>3,77</b>	<b>3,70</b>	<b>3,64</b>	<b>3,52</b>	<b>3,43</b>	<b>3,34</b>	<b>3,25</b>	<b>3,18</b>	<b>3,12</b>
	60	60	60	61	72	93	113	138	161	184	206	
III	40	40	40	40	40	46	57	69	80	92	103	
	<b>3,90</b>	<b>3,85</b>	<b>3,77</b>	<b>3,70</b>	<b>3,64</b>	<b>3,52</b>	<b>3,43</b>	<b>3,34</b>	<b>3,25</b>	<b>3,18</b>	<b>3,12</b>	
60	60	60	61	72	93	113	138	161	184	206		

### Wind suction load

stat. system	colour group	wind pressure load 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
1-panel	I, II, III	<b>10,00</b>	<b>10,00</b>	<b>8,88</b>	<b>7,94</b>	<b>7,25</b>	<b>6,28</b>	<b>5,62</b>	<b>5,02</b>	<b>4,59</b>	<b>4,25</b>	<b>3,97</b>
2-panels	I	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,59</b>	<b>4,25</b>	<b>3,97</b>
	II	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,59</b>	<b>4,25</b>	<b>3,97</b>
	III	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,70</b>	<b>4,58</b>	<b>4,46</b>	<b>4,25</b>	<b>3,97</b>
3-panels	I	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>3,97</b>
	II	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>3,97</b>
	III	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,20</b>	<b>4,08</b>	<b>3,96</b>	<b>3,86</b>

subject to alterations • as of 08/21

