# Tables of loads

## Roof panels

### TENAX TR  MW S10

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## Table of loads- TENAX TR 80 MW S10- 0,5/0,5

### TENAX TR 80 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 8,47 | 4,45 | 3,02 | 2,30 | 1,87 | 1,58 | 1,37 | 0,99 | 0,68 | 0,48 | - | - | - |
| | II | 8,47 | 4,45 | 3,02 | 2,30 | 1,87 | 1,58 | 1,37 | 0,99 | 0,68 | 0,48 | - | - | - |
| | III | 8,47 | 4,45 | 3,02 | 2,30 | 1,87 | 1,58 | 1,37 | 0,99 | 0,68 | 0,48 | - | - | - |
| Double span | I | 6,26 | 3,25 | 2,11 | 1,54 | 1,21 | 1,00 | 0,85 | 0,75 | 0,67 | 0,61 | 0,56 | 0,52 | 0,48 |
| | II | 5,96 | 3,00 | 1,92 | 1,39 | 1,09 | 0,90 | 0,77 | 0,68 | 0,61 | 0,56 | 0,52 | 0,48 | 0,45 |
| | III | 5,50 | 2,64 | 1,56 | 1,02 | 0,79 | 0,67 | 0,60 | 0,56 | 0,53 | 0,48 | 0,45 | 0,42 | 0,40 |
| Multi span | I | 7,28 | 3,77 | 2,48 | 1,84 | 1,46 | 1,21 | 1,03 | 0,90 | 0,81 | 0,73 | 0,67 | 0,61 | 0,54 |
| | II | 6,97 | 3,56 | 2,33 | 1,72 | 1,37 | 1,13 | 0,97 | 0,85 | 0,76 | 0,69 | 0,63 | 0,58 | 0,54 |
| | III | 6,50 | 3,23 | 2,09 | 1,54 | 1,23 | 1,02 | 0,88 | 0,78 | 0,70 | 0,63 | 0,58 | 0,54 | 0,51 |

### TENAX TR 80 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 4,39 | 2,87 | 2,11 | 1,60 | 1,23 | 0,98 | 0,81 | 0,68 | 0,55 | 0,37 | - | - | - |
| Double span | I, II, III | 3,25 | 2,11 | 1,54 | 1,19 | 0,96 | 0,80 | 0,68 | 0,57 | 0,46 | 0,38 | 0,31 | 0,25 | 0,20 |
| Multi span | I, II, III | 3,25 | 2,11 | 1,54 | 1,19 | 0,96 | 0,80 | 0,68 | 0,59 | 0,51 | 0,45 | 0,36 | 0,29 | 0,24 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

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## Table of loads- TENAX TR 100 MW S10- 0,5/0,5

### TENAX TR 100 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 9,14 | 4,73 | 3,19 | 2,42 | 1,96 | 1,66 | 1,44 | 1,27 | 1,05 | 0,88 | 0,68 | - | - |
| | II | 9,14 | 4,73 | 3,19 | 2,42 | 1,96 | 1,66 | 1,44 | 1,27 | 1,05 | 0,88 | 0,68 | - | - |
| | III | 9,14 | 4,73 | 3,19 | 2,42 | 1,96 | 1,66 | 1,44 | 1,27 | 1,05 | 0,88 | 0,68 | - | - |
| Double span | I | 6,75 | 3,57 | 2,34 | 1,72 | 1,35 | 1,12 | 0,96 | 0,84 | 0,75 | 0,68 | 0,63 | 0,59 | 0,55 |
| | II | 6,51 | 3,36 | 2,16 | 1,57 | 1,23 | 1,02 | 0,87 | 0,77 | 0,69 | 0,63 | 0,58 | 0,54 | 0,51 |
| | III | 6,16 | 3,05 | 1,91 | 1,36 | 1,04 | 0,85 | 0,75 | 0,66 | 0,60 | 0,55 | 0,51 | 0,48 | 0,46 |
| Multi span | I | 7,79 | 4,05 | 2,67 | 1,98 | 1,58 | 1,31 | 1,13 | 0,99 | 0,89 | 0,81 | 0,74 | 0,68 | 0,60 |
| | II | 7,56 | 3,86 | 2,52 | 1,86 | 1,48 | 1,24 | 1,07 | 0,94 | 0,84 | 0,77 | 0,70 | 0,65 | 0,60 |
| | III | 7,16 | 3,56 | 2,29 | 1,69 | 1,34 | 1,12 | 0,97 | 0,86 | 0,77 | 0,71 | 0,65 | 0,61 | 0,57 |

### TENAX TR 100 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 3,99 | 2,60 | 1,90 | 1,44 | 1,09 | 0,87 | 0,71 | 0,59 | 0,50 | 0,43 | 0,37 | - | - |
| Double span | I, II, III | 2,95 | 1,90 | 1,37 | 1,06 | 0,85 | 0,70 | 0,59 | 0,50 | 0,44 | 0,37 | 0,30 | 0,25 | 0,20 |
| Multi span | I, II, III | 2,95 | 1,90 | 1,37 | 1,06 | 0,85 | 0,70 | 0,59 | 0,50 | 0,44 | 0,38 | 0,33 | 0,29 | 0,26 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

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## Table of loads- TENAX TR 120 MW S10- 0,5/0,5

### TENAX TR 120 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 10,28 | 5,45 | 3,72 | 2,84 | 2,03 | 1,95 | 1,69 | 1,42 | 1,18 | 1,00 | 0,86 | 0,76 | 0,67 |
| | II | 10,28 | 5,45 | 3,72 | 2,84 | 2,03 | 1,95 | 1,69 | 1,42 | 1,18 | 1,00 | 0,86 | 0,76 | 0,67 |
| | III | 10,28 | 5,45 | 3,72 | 2,84 | 2,03 | 1,95 | 1,69 | 1,42 | 1,18 | 1,00 | 0,86 | 0,76 | 0,67 |
| Double span | I | 6,75 | 3,64 | 2,41 | 1,78 | 1,41 | 1,17 | 1,00 | 0,89 | 0,80 | 0,73 | 0,67 | 0,62 | 0,51 |
| | II | 6,51 | 3,43 | 2,23 | 1,63 | 1,28 | 1,06 | 0,91 | 0,81 | 0,73 | 0,67 | 0,62 | 0,58 | 0,51 |
| | III | 6,16 | 3,11 | 1,96 | 1,40 | 1,04 | 0,84 | 0,73 | 0,67 | 0,63 | 0,58 | 0,54 | 0,51 | 0,51 |
| Multi span | I | 7,72 | 4,08 | 2,72 | 2,04 | 1,63 | 1,37 | 1,18 | 1,04 | 0,94 | 0,85 | 0,79 | 0,73 | 0,67 |
| | II | 7,47 | 3,88 | 2,56 | 1,91 | 1,53 | 1,28 | 1,11 | 0,98 | 0,88 | 0,81 | 0,75 | 0,69 | 0,65 |
| | III | 7,09 | 3,58 | 2,32 | 1,72 | 1,37 | 1,15 | 1,00 | 0,89 | 0,81 | 0,74 | 0,69 | 0,64 | 0,60 |

### TENAX TR 120 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 3,96 | 2,58 | 1,88 | 1,46 | 1,18 | 0,98 | 0,83 | 0,69 | 0,59 | 0,51 | 0,44 | 0,39 | 0,30 |
| Double span | I, II, III | 2,93 | 1,88 | 1,35 | 1,04 | 0,83 | 0,68 | 0,57 | 0,49 | 0,42 | 0,36 | 0,31 | 0,27 | 0,27 |
| Multi span | I, II, III | 2,93 | 1,88 | 1,35 | 1,04 | 0,83 | 0,68 | 0,57 | 0,49 | 0,42 | 0,36 | 0,31 | 0,27 | 0,24 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

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## Table of loads- TENAX TR 150 MW S10- 0,5/0,5

### TENAX TR 150 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 11,59 | 6,79 | 4,63 | 3,53 | 2,87 | 2,42 | 2,06 | 1,66 | 1,37 | 1,16 | 1,00 | 0,88 | 0,78 |
| | II | 11,59 | 6,79 | 4,63 | 3,53 | 2,87 | 2,42 | 2,06 | 1,66 | 1,37 | 1,16 | 1,00 | 0,88 | 0,78 |
| | III | 11,59 | 6,79 | 4,63 | 3,53 | 2,87 | 2,42 | 2,06 | 1,66 | 1,37 | 1,16 | 1,00 | 0,88 | 0,78 |
| Double span | I | 6,62 | 3,64 | 2,45 | 1,83 | 1,45 | 1,21 | 1,04 | 0,92 | 0,83 | 0,76 | 0,71 | 0,66 | 0,62 |
| | II | 6,42 | 3,46 | 2,28 | 1,68 | 1,33 | 1,10 | 0,95 | 0,84 | 0,76 | 0,70 | 0,65 | 0,61 | 0,58 |
| | III | 6,13 | 3,18 | 2,04 | 1,46 | 1,13 | 0,89 | 0,76 | 0,69 | 0,64 | 0,60 | 0,57 | 0,53 | 0,51 |
| Multi span | I | 7,53 | 4,03 | 2,70 | 2,03 | 1,64 | 1,38 | 1,20 | 1,07 | 0,96 | 0,88 | 0,82 | 0,76 | 0,72 |
| | II | 7,32 | 3,85 | 2,55 | 1,91 | 1,54 | 1,29 | 1,13 | 1,00 | 0,91 | 0,83 | 0,77 | 0,73 | 0,68 |
| | III | 6,99 | 3,57 | 2,32 | 1,72 | 1,38 | 1,16 | 1,01 | 0,91 | 0,83 | 0,76 | 0,71 | 0,67 | 0,63 |

### TENAX TR 150 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 3,94 | 2,55 | 1,85 | 1,43 | 1,15 | 0,95 | 0,80 | 0,69 | 0,59 | 0,52 | 0,46 | 0,40 | 0,36 |
| Double span | I, II, III | 2,90 | 1,85 | 1,32 | 1,01 | 0,80 | 0,65 | 0,54 | 0,46 | 0,39 | 0,33 | 0,28 | 0,24 | 0,21 |
| Multi span | I, II, III | 2,90 | 1,85 | 1,32 | 1,01 | 0,80 | 0,65 | 0,54 | 0,46 | 0,39 | 0,33 | 0,28 | 0,24 | 0,21 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

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## Table of loads- TENAX TR 200 MW S10- 0,5/0,5

### TENAX TR 200 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 13,90 | 7,67 | 5,32 | 4,10 | 3,35 | 2,84 | 2,43 | 1,95 | 1,62 | 1,37 | 1,18 | 1,04 | 0,93 |
| | II | 13,90 | 7,67 | 5,32 | 4,10 | 3,35 | 2,84 | 2,43 | 1,95 | 1,62 | 1,37 | 1,18 | 1,04 | 0,93 |
| | III | 13,90 | 7,67 | 5,32 | 4,10 | 3,35 | 2,84 | 2,43 | 1,95 | 1,62 | 1,37 | 1,18 | 1,04 | 0,93 |
| Double span | I | 6,09 | 3,45 | 2,36 | 1,78 | 1,43 | 1,20 | 1,04 | 0,93 | 0,85 | 0,78 | 0,73 | 0,69 | 0,65 |
| | II | 5,89 | 3,26 | 2,19 | 1,63 | 1,29 | 1,08 | 0,94 | 0,84 | 0,76 | 0,71 | 0,66 | 0,63 | 0,60 |
| | III | 5,59 | 2,98 | 1,93 | 1,37 | 0,96 | 0,75 | 0,63 | 0,57 | 0,54 | 0,52 | 0,52 | 0,52 | 0,52 |
| Multi span | I | 6,82 | 3,75 | 2,56 | 1,95 | 1,59 | 1,35 | 1,19 | 1,07 | 0,97 | 0,90 | 0,84 | 0,79 | 0,75 |
| | II | 6,60 | 3,56 | 2,40 | 1,81 | 1,47 | 1,25 | 1,10 | 0,99 | 0,91 | 0,84 | 0,79 | 0,74 | 0,71 |
| | III | 6,28 | 3,28 | 2,15 | 1,61 | 1,30 | 1,10 | 0,97 | 0,88 | 0,81 | 0,75 | 0,71 | 0,67 | 0,64 |

### TENAX TR 200 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 3,52 | 2,25 | 1,61 | 1,23 | 0,98 | 0,80 | 0,66 | 0,56 | 0,48 | 0,41 | 0,35 | 0,30 | 0,26 |
| Double span | I, II, III | 2,56 | 1,61 | 1,13 | 0,85 | 0,66 | 0,53 | 0,42 | 0,35 | 0,28 | 0,23 | 0,19 | 0,15 | 0,12 |
| Multi span | I, II, III | 2,56 | 1,61 | 1,13 | 0,85 | 0,66 | 0,53 | 0,42 | 0,35 | 0,28 | 0,23 | 0,19 | 0,15 | 0,12 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

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## Table of loads- TENAX TR 240 MW S10- 0,5/0,5

### TENAX TR 240 MW S10 - 0,5/0,5

**Maximum allowable wind suction, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I | 15,59 | 9,06 | 6,31 | 4,88 | 3,99 | 3,38 | 2,74 | 2,21 | 1,83 | 1,55 | 1,34 | 1,18 | 1,05 |
| | II | 15,59 | 9,06 | 6,31 | 4,88 | 3,99 | 3,38 | 2,74 | 2,21 | 1,83 | 1,55 | 1,34 | 1,18 | 1,05 |
| | III | 15,59 | 9,06 | 6,31 | 4,88 | 3,99 | 3,38 | 2,74 | 2,21 | 1,83 | 1,55 | 1,34 | 1,18 | 1,05 |
| Double span | I | 5,58 | 3,22 | 2,24 | 1,71 | 1,39 | 1,18 | 1,03 | 0,93 | 0,85 | 0,79 | 0,74 | 0,70 | - |
| | II | 5,39 | 3,05 | 2,08 | 1,56 | 1,25 | 1,05 | 0,92 | 0,83 | 0,76 | 0,71 | 0,67 | 0,64 | - |
| | III | 5,12 | 2,79 | 1,83 | 1,29 | 0,90 | 0,69 | 0,57 | 0,52 | 0,49 | 0,49 | 0,49 | 0,49 | - |
| Multi span | I | 6,20 | 3,48 | 2,40 | 1,85 | 1,52 | 1,30 | 1,15 | 1,04 | 0,96 | 0,90 | 0,84 | 0,80 | 0,76 |
| | II | 6,01 | 3,30 | 2,24 | 1,71 | 1,40 | 1,20 | 1,06 | 0,96 | 0,89 | 0,83 | 0,79 | 0,75 | 0,72 |
| | III | 5,71 | 3,03 | 2,00 | 1,50 | 1,22 | 1,04 | 0,93 | 0,85 | 0,79 | 0,74 | 0,70 | 0,67 | 0,65 |

### TENAX TR 240 MW S10 - 0,5/0,5

**Maximum allowable snow load, kN/m²**

| Static scheme | Color group | Span lenght, m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1,5 | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 |
| Single span | I, II, III | 3,48 | 2,21 | 1,58 | 1,19 | 0,94 | 0,76 | 0,63 | 0,52 | 0,44 | 0,37 | 0,31 | 0,26 | 0,22 |
| Double span | I, II, III | 2,53 | 1,58 | 1,10 | 0,82 | 0,63 | 0,49 | 0,39 | 0,31 | 0,25 | 0,20 | 0,15 | 0,12 | 0,09 |
| Multi span | I, II, III | 2,53 | 1,58 | 1,10 | 0,82 | 0,63 | 0,49 | 0,39 | 0,31 | 0,25 | 0,20 | 0,15 | 0,12 | 0,09 |

Calculation in accordance with EN 14509
Roof pitch 3,0°
Load factors: EN 14509, Tab. E.8
Maximum deflection short term 1/200
Maximum deflection long term 1/100
Color groups: I(Very light), II(Light), III(Dark)
Table are made on normal internal climate (No freezers or cold rooms)
Internal temperature: summer +25 °C and winter +20 °C
External temperature: Summer +80 °C (I, II, III)
External temperature: Winter +55 °C (I), +65 °C(II), +80 °C (III)
Type and amount of screws must be calculated seperatly
Loads should be verified against the characteristic load
Minimum end support width: 40 mm
Minimum intermediate support width: 60 mm

16.07.2020