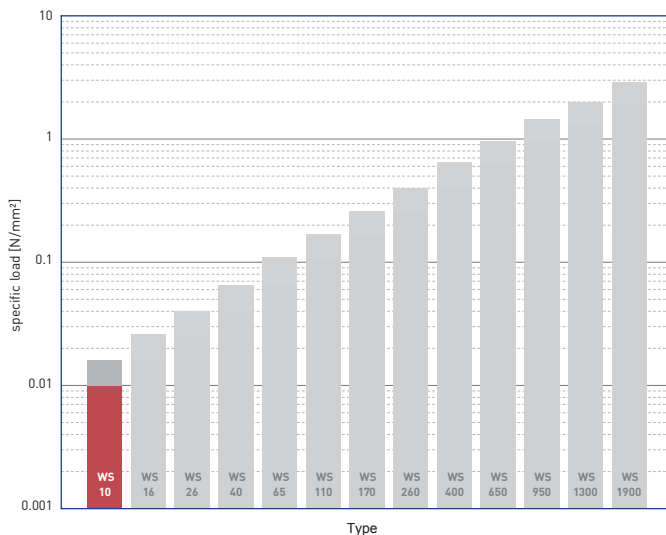


WS-PU 10

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.010

Dynamic load: up to [N/mm²]

0.016

Load peaks: up to [N/mm²]

0.5

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour red

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.25	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.048 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	0.144 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.011 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.35 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹² Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.05 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

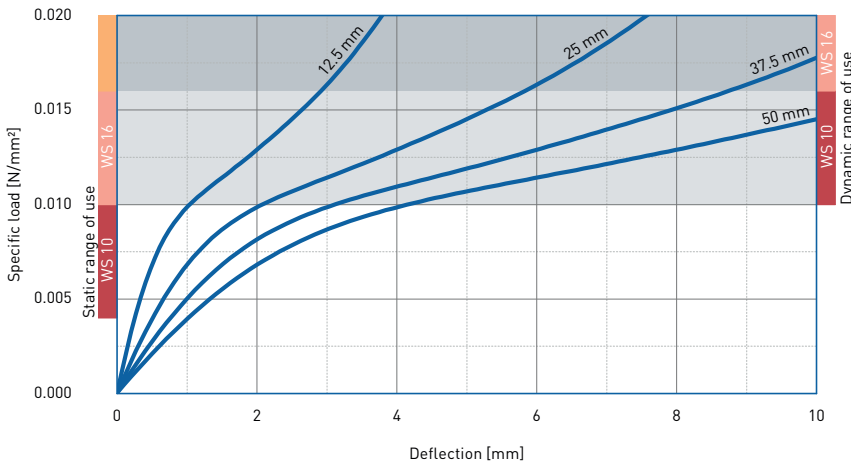
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 10

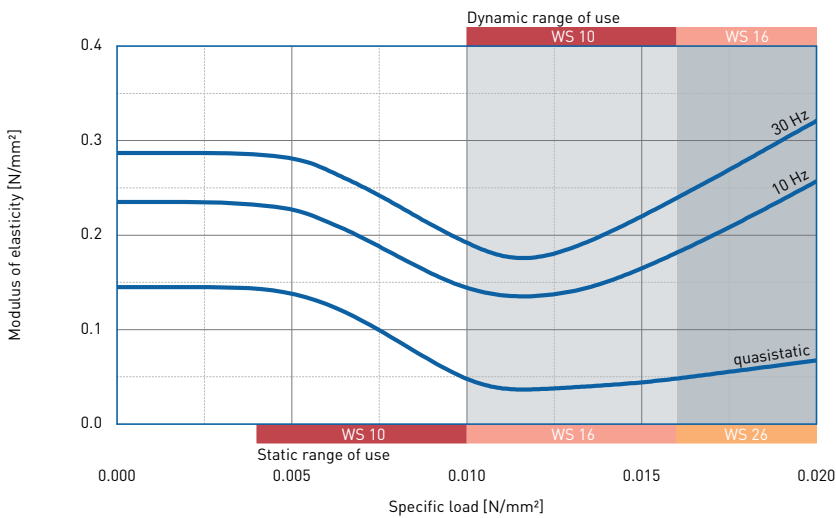
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

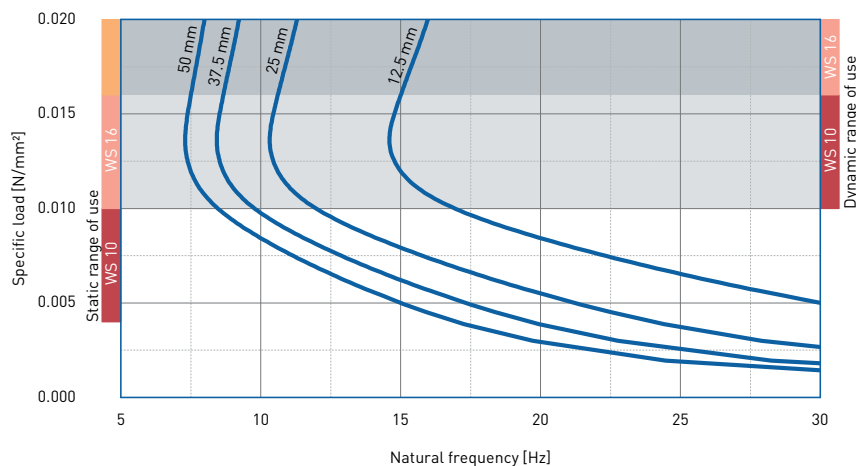


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



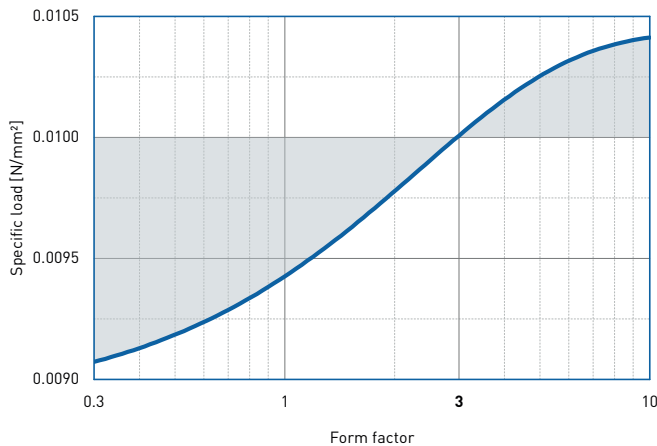
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 10 on a stiff subgrade.

Form factor $q = 3$

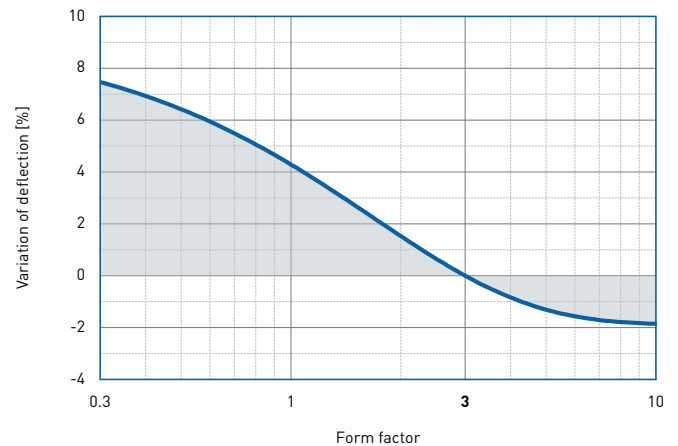
WS-PU 10

Correction values varying form factors
 specific load 0.01 N/mm², form factor q = 3

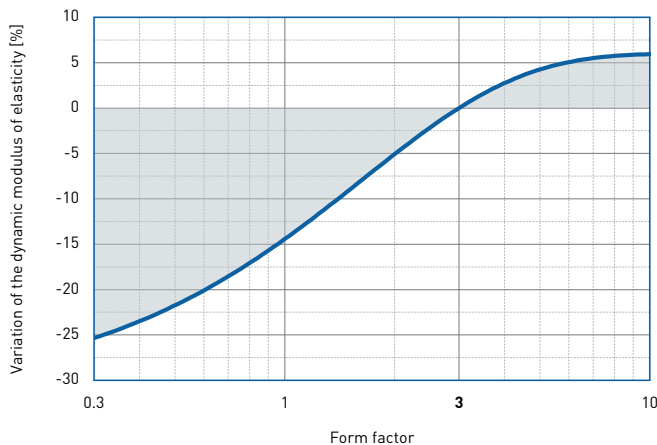
Static load range



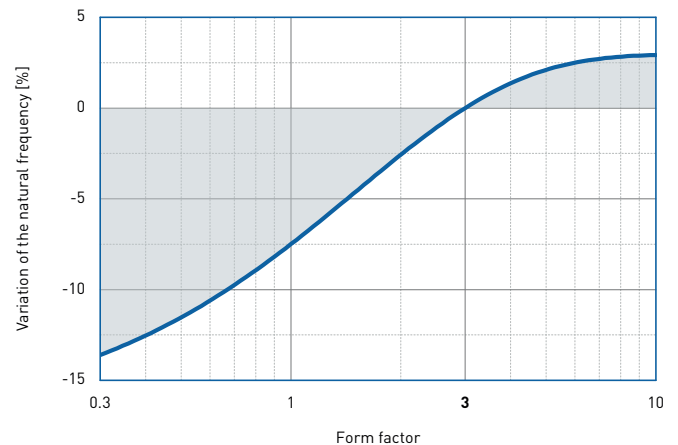
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



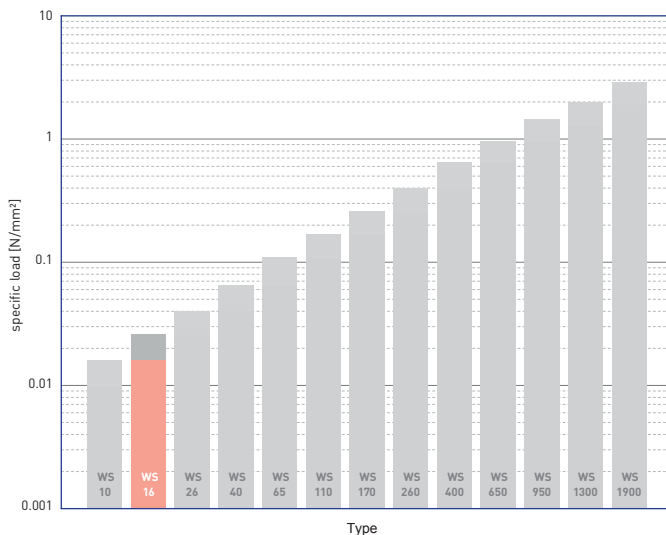
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WS-PU 16

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.016

Dynamic load: up to [N/mm²]

0.026

Load peaks: up to [N/mm²]

0.7

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour pink

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.24	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.111 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	0.328 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.018 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.40 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹² Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.05 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

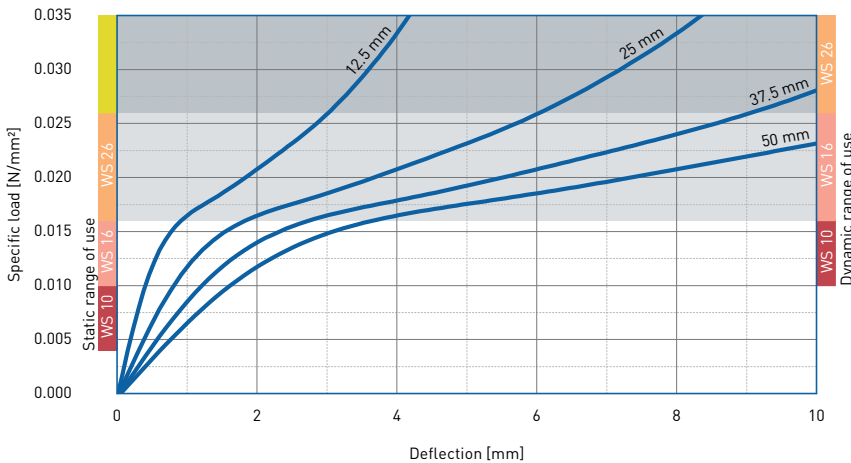
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 16

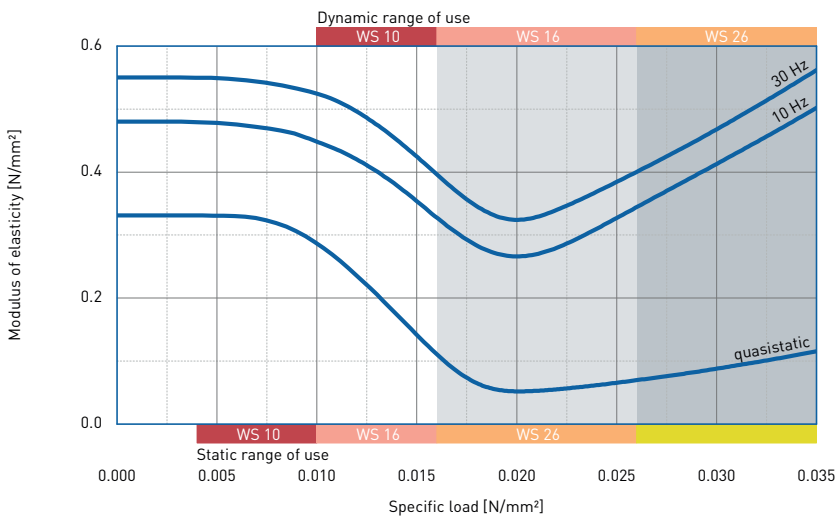
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

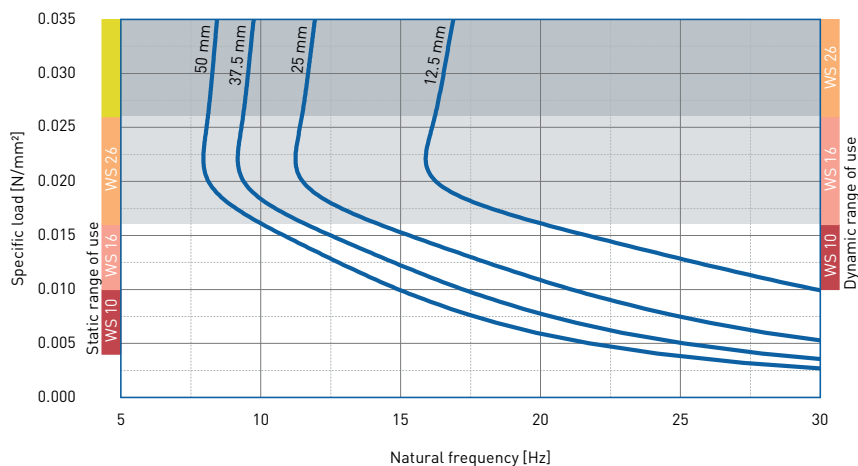


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



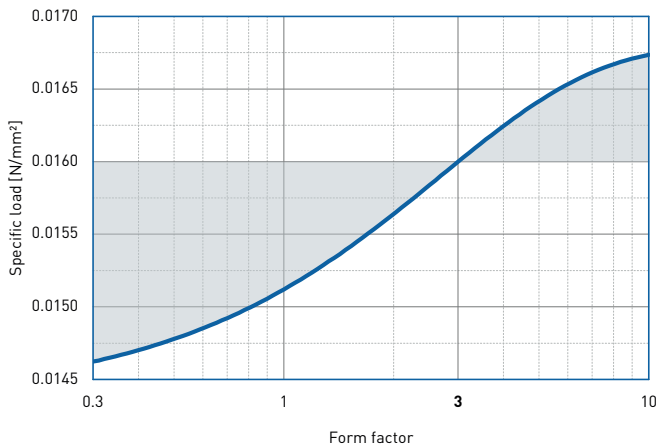
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 16 on a stiff subgrade.

Form factor $q = 3$

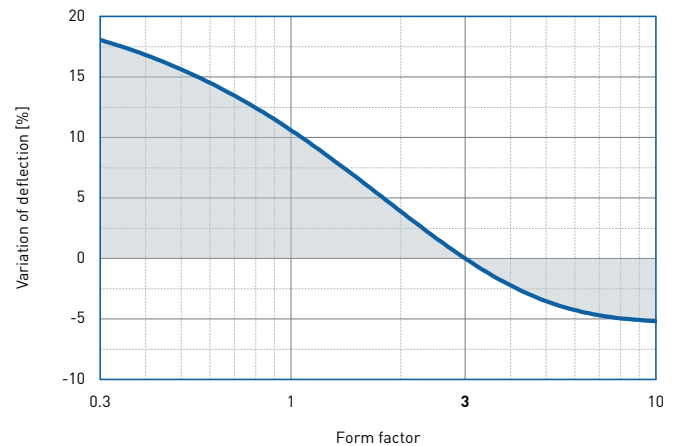
WS-PU 16

Correction values varying form factors
 specific load 0.016 N/mm², form factor q = 3

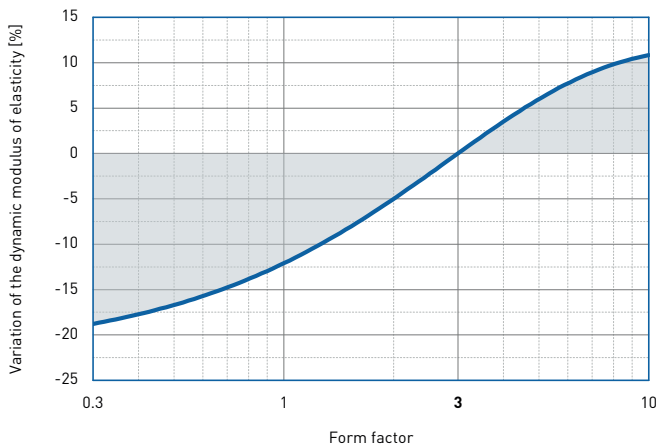
Static load range



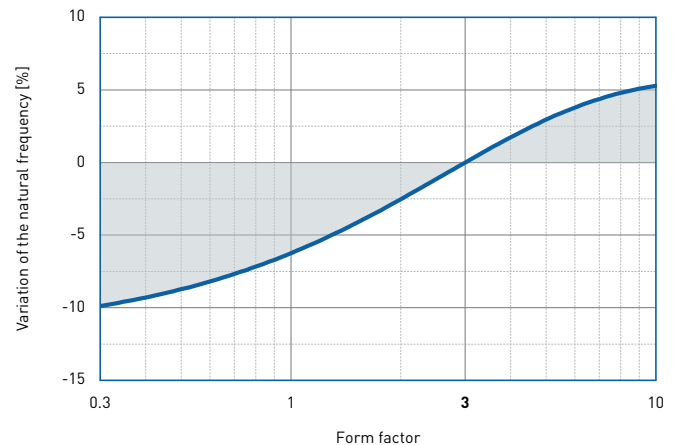
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



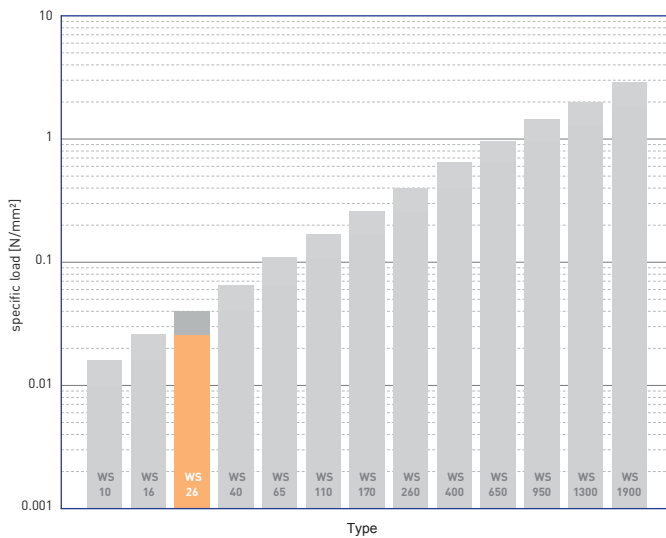
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WS-PU 26

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.026

Dynamic load: up to [N/mm²]

0.040

Load peaks: up to [N/mm²]

1.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour orange

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.22	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.129 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	0.443 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.026 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.45 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.06 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

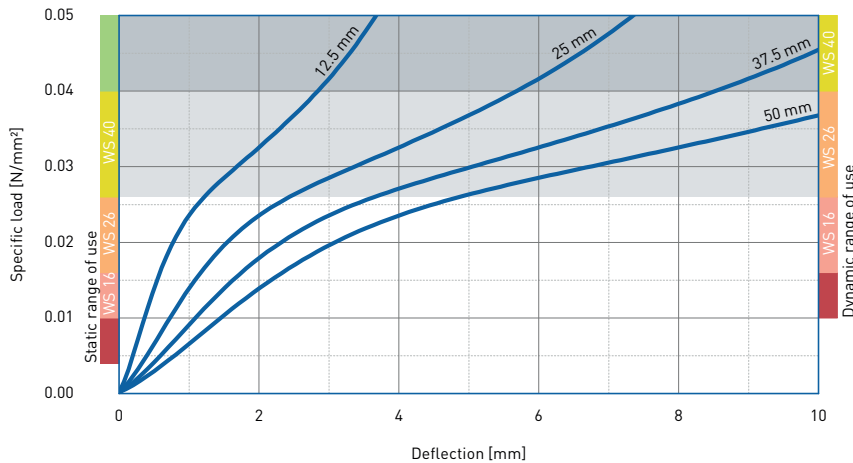
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 26

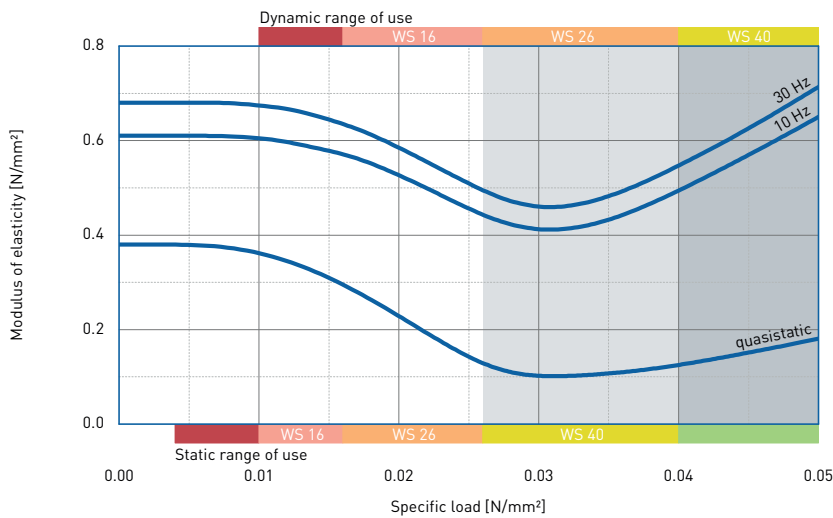
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

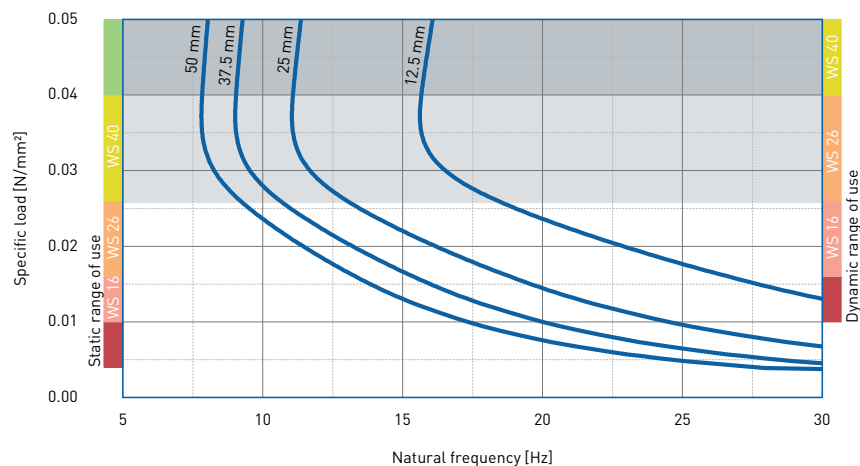


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



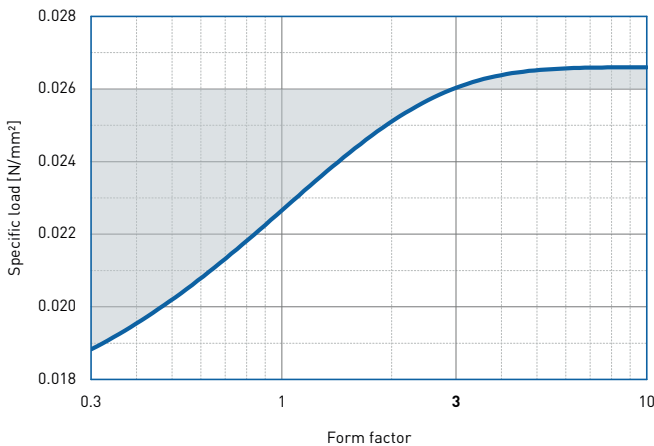
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 26 on a stiff subgrade.

Form factor $q = 3$

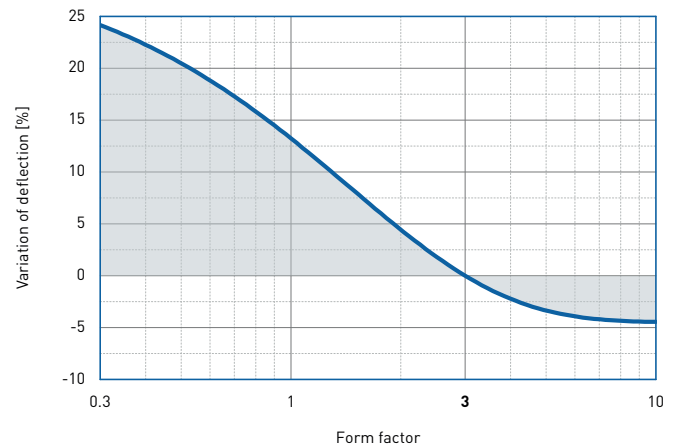
WS-PU 26

Correction values varying form factors
 specific load 0.026 N/mm², form factor q = 3

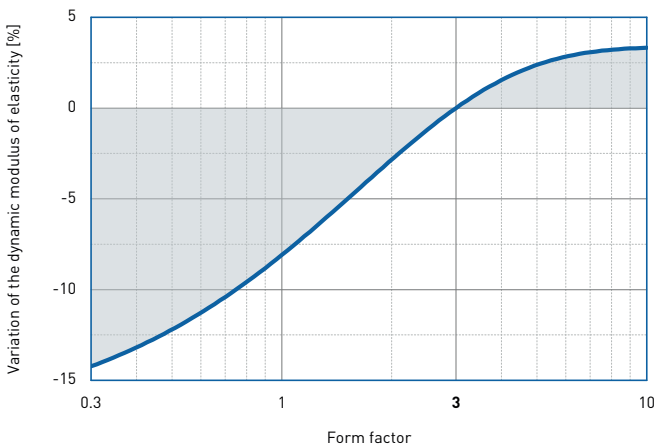
Static load range



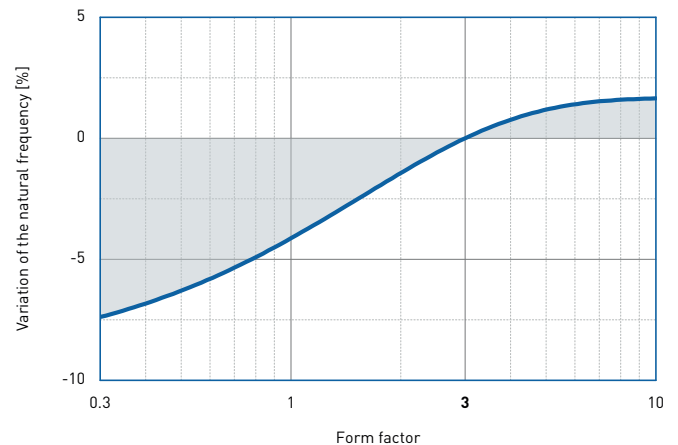
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



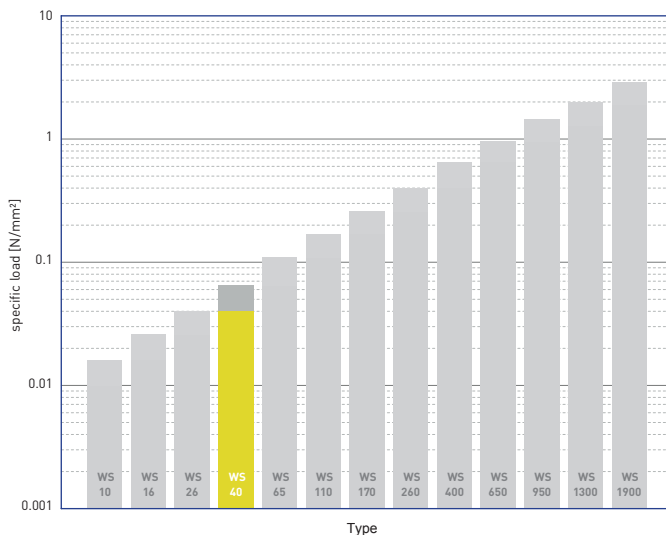
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WS-PU 40

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.040

Dynamic load: up to [N/mm²]

0.065

Load peaks: up to [N/mm²]

2.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour yellow

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.15	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.316 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	0.743 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.046 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.55 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.07 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

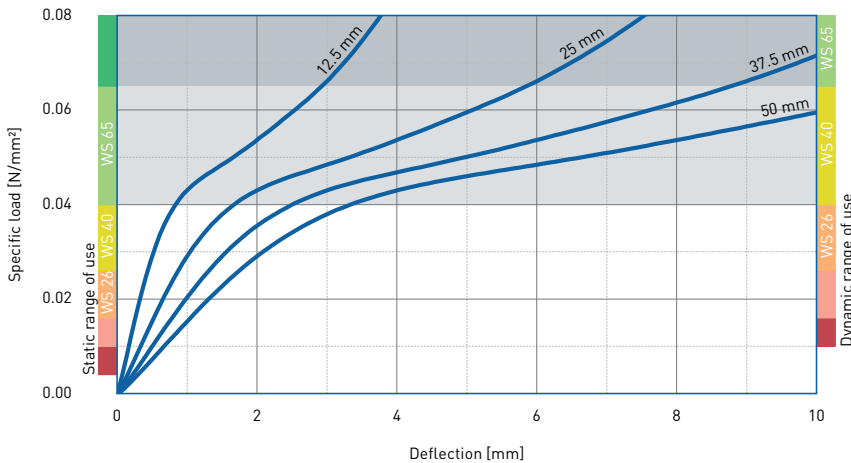
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

WS-PU 40

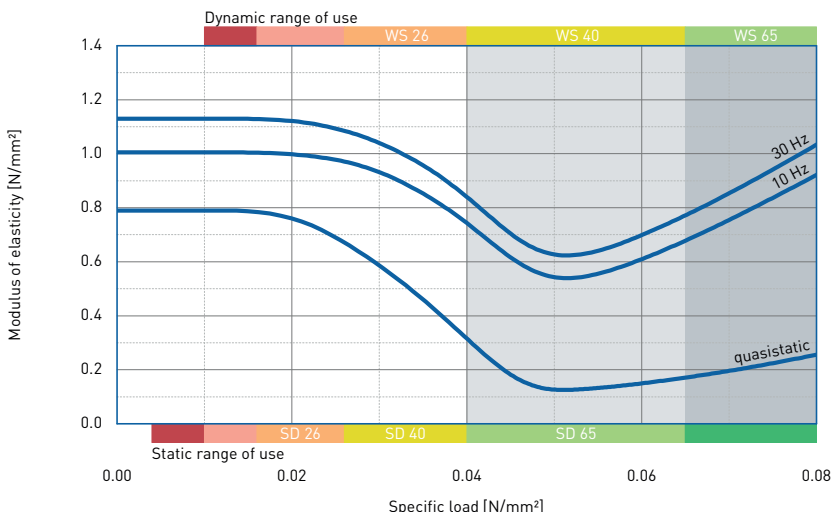
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

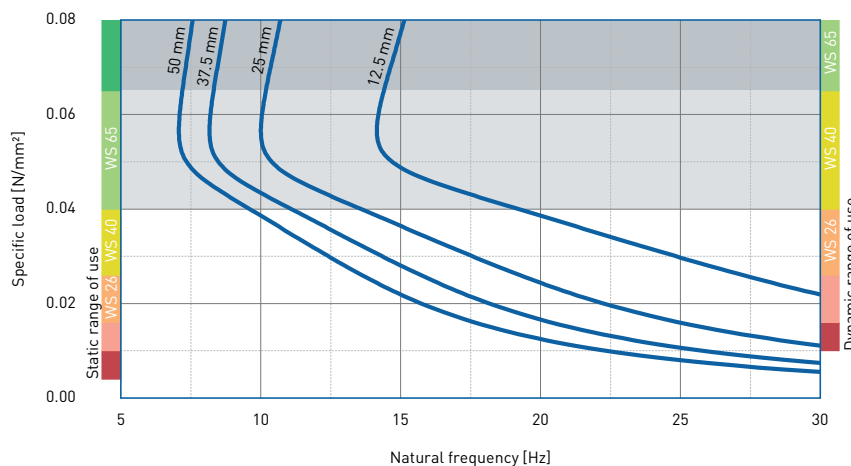


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of SD 40 on a stiff subgrade.

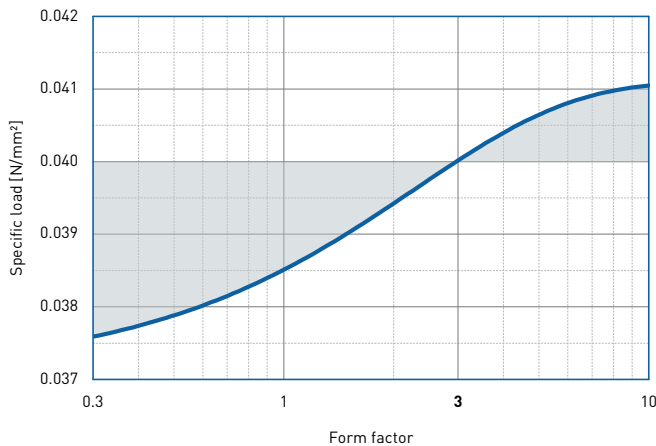
Form factor $q = 3$

WS-PU 40

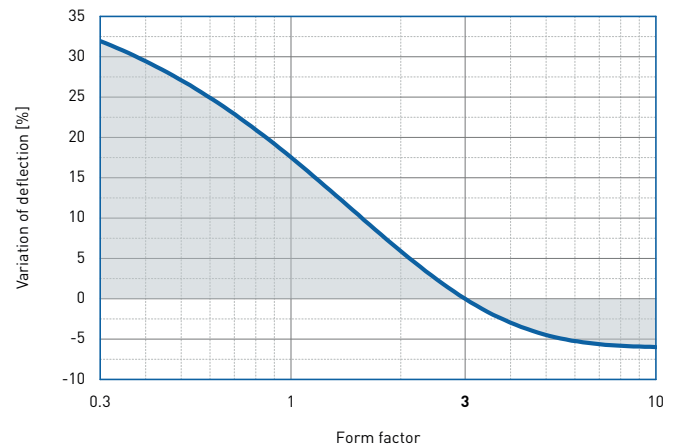
Correction values varying form factors

specific load 0.04 N/mm², form factor q = 3

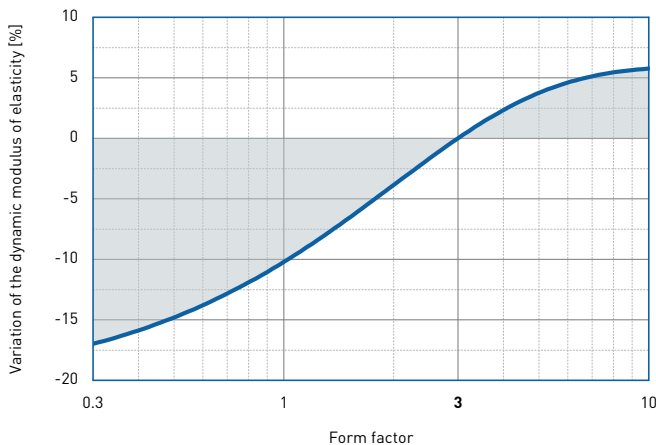
Static load range



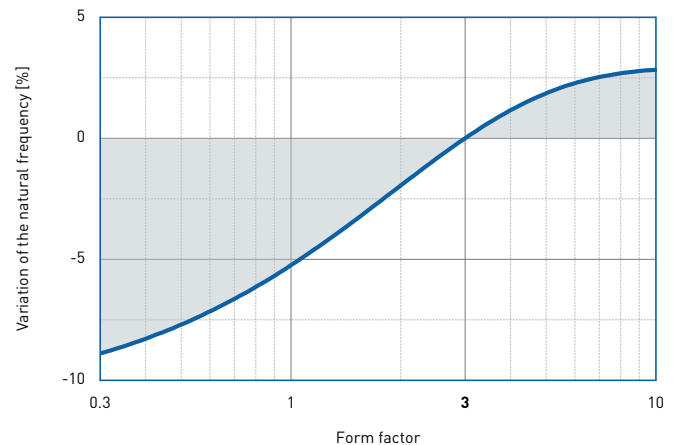
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



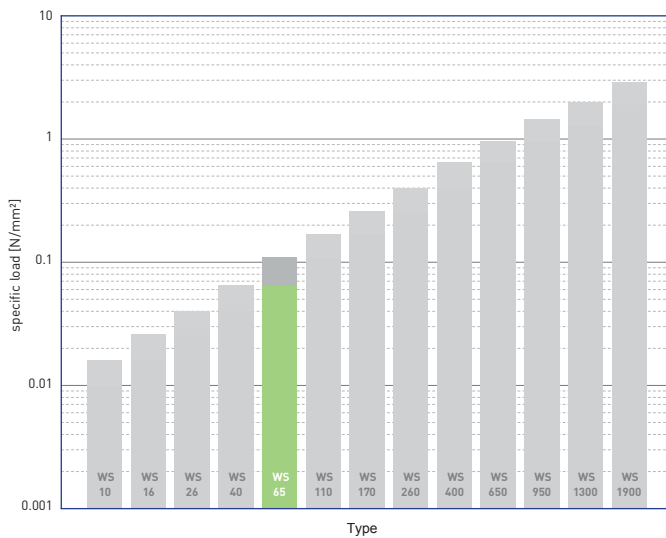
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WS-PU 65

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.065

Dynamic load: up to [N/mm²]

0.110

Load peaks: up to [N/mm²]

2.5

Values depending on form factor and apply to form factor q = 3

Material mixed cellular polyether-urethane

Colour bright green

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.18	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.453 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	1.06 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.073 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.70 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.07 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

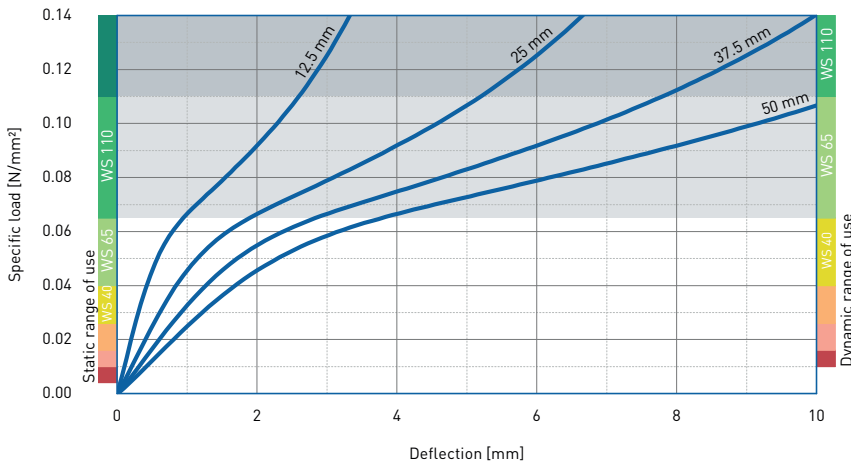
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

WS-PU 65

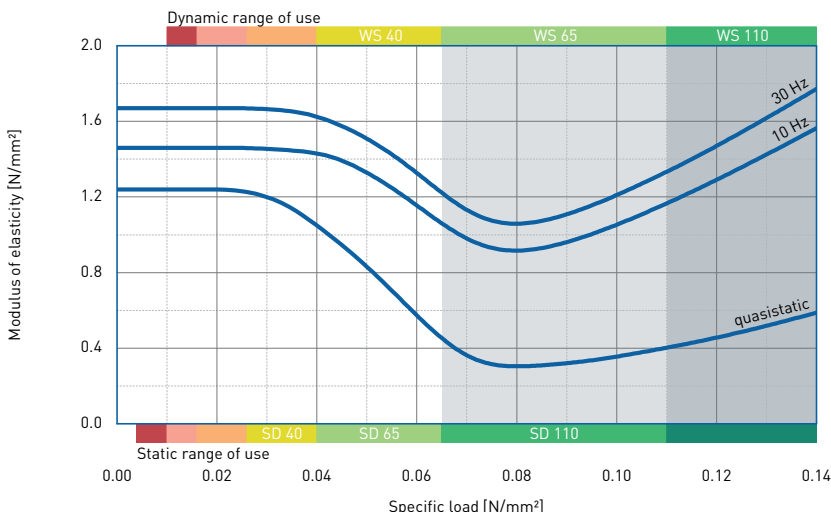
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

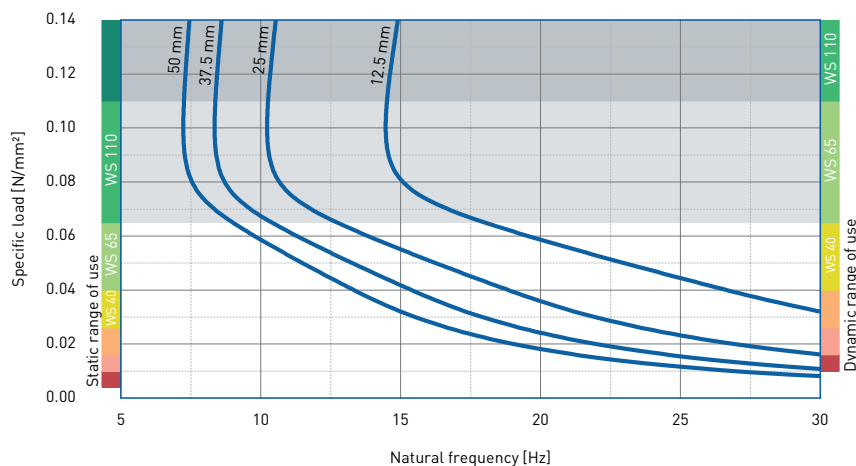


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



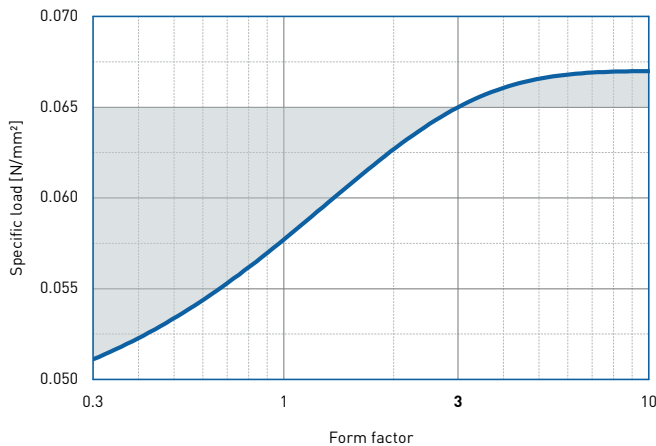
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of SD 65 on a stiff subgrade.

Form factor $q = 3$

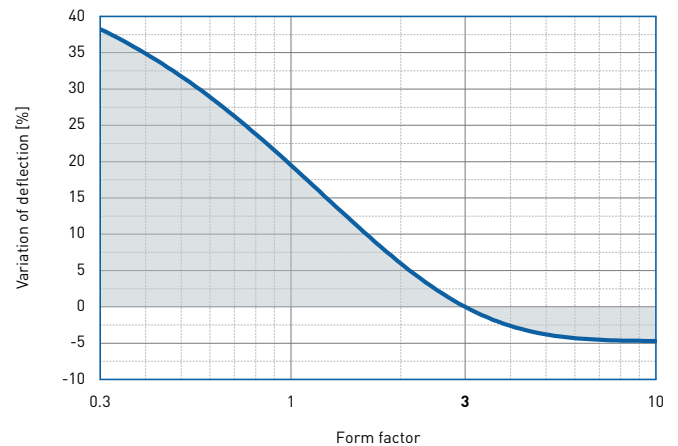
WS-PU 65

Correction values varying form factors
 specific load 0.065 N/mm², form factor q = 3

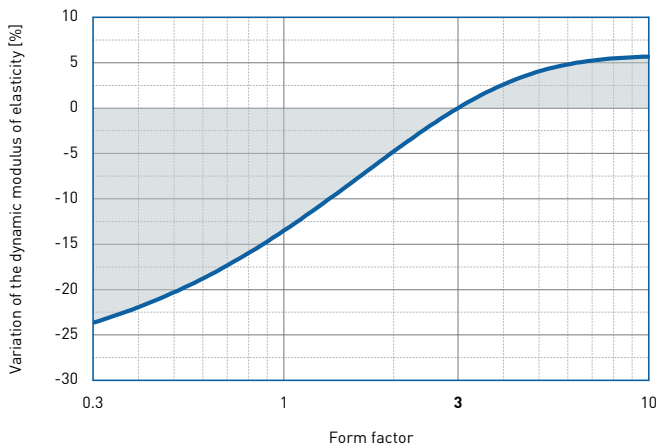
Static load range



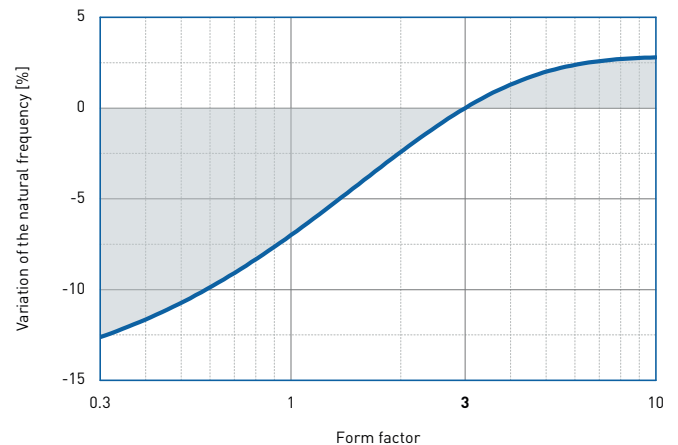
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



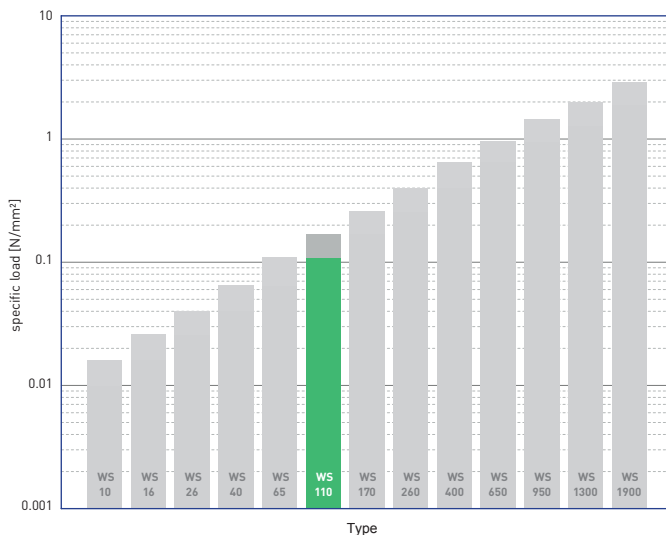
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WS-PU 110

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.110

Dynamic load: up to [N/mm²]

0.170

Load peaks: up to [N/mm²]

3.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour green

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.12	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.861 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	1.86 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.130 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 0.95 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.08 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

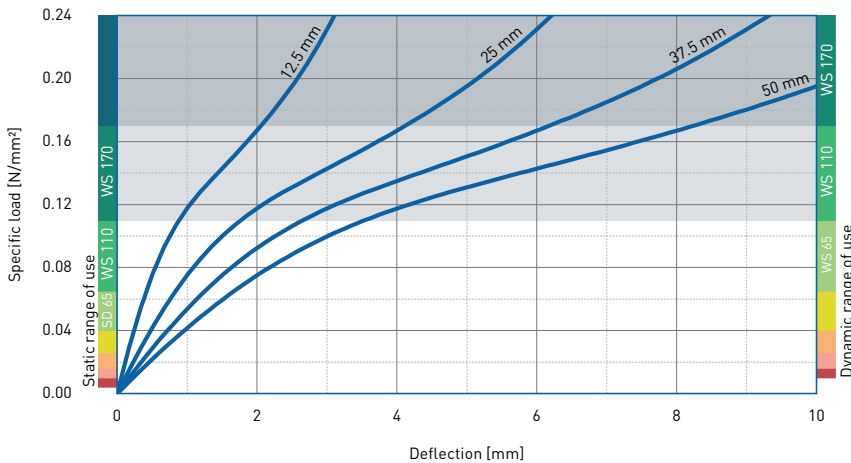
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

WS-PU 110

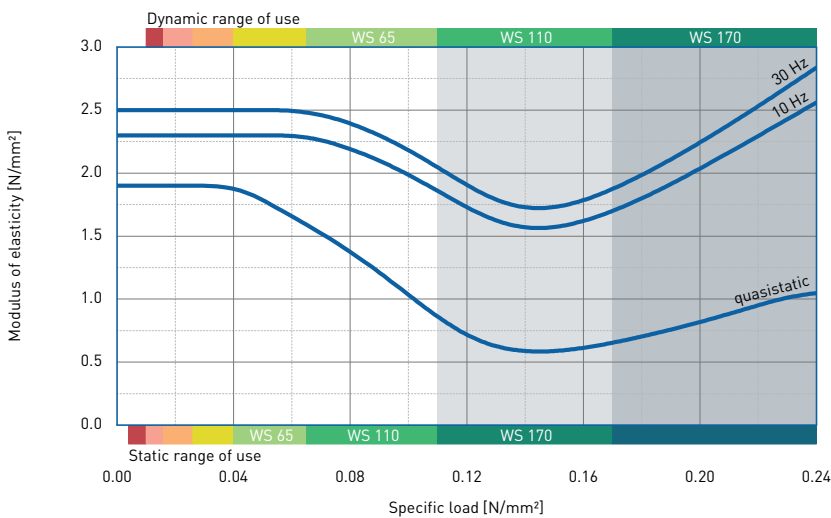
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

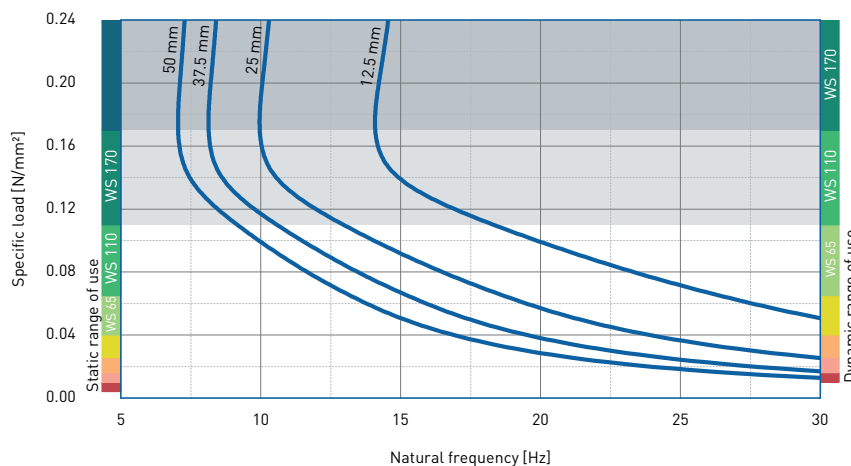


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



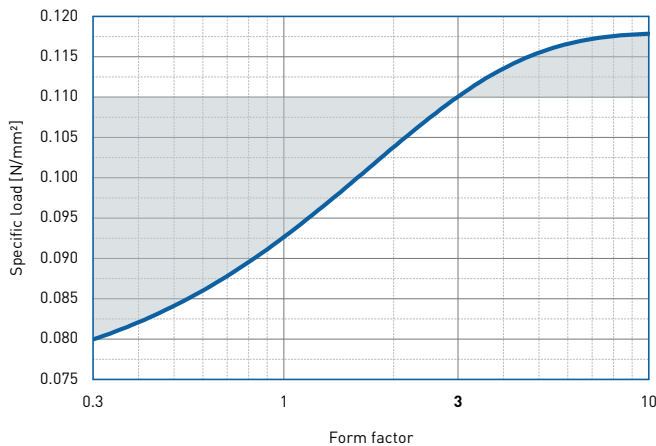
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 110 on a stiff subgrade.

Form factor $q = 3$

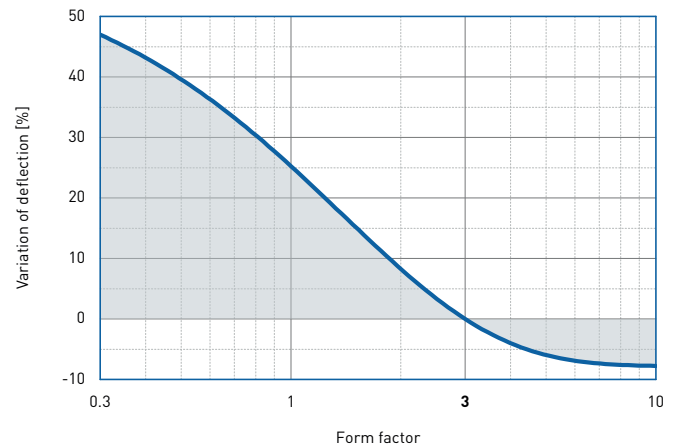
WS-PU 110

Correction values varying form factors
 specific load 0.11 N/mm², form factor q = 3

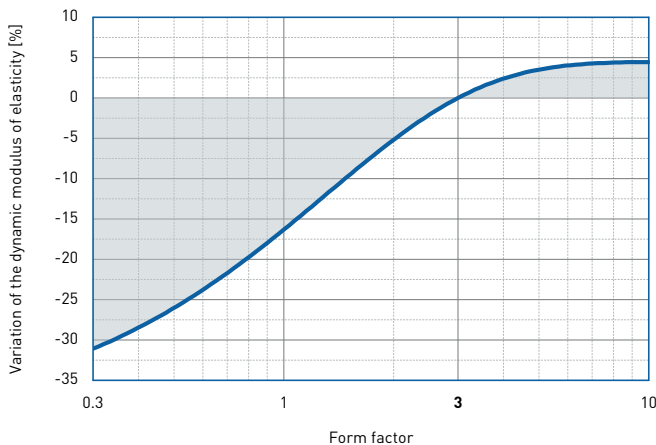
Static load range



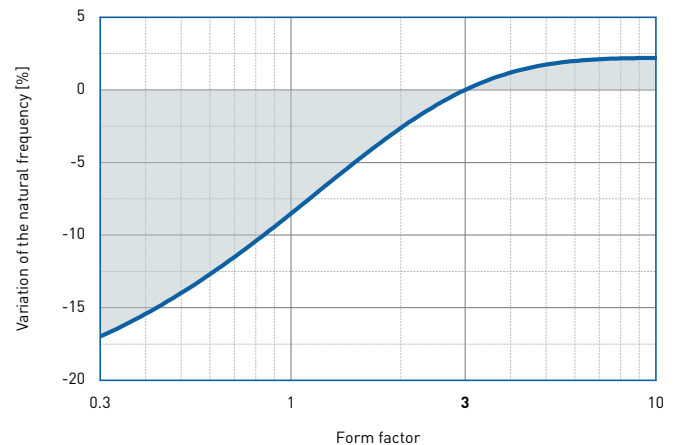
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



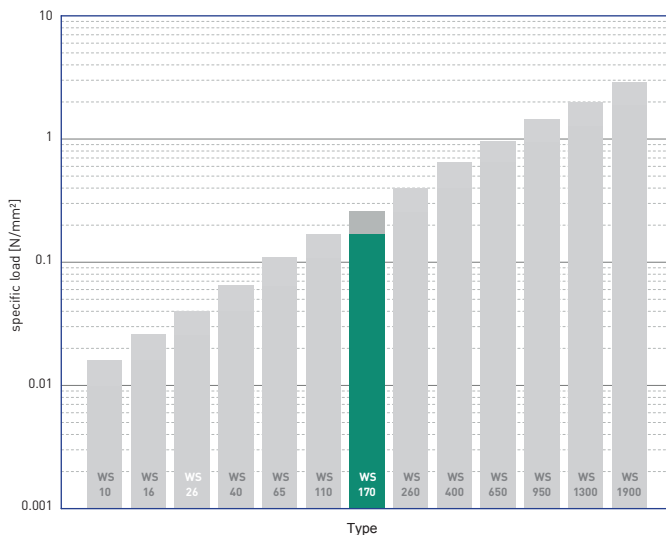
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WS-PU 170

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.170

Dynamic load: up to [N/mm²]

0.260

Load peaks: up to [N/mm²]

3.5

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour dark green

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.13	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	0.931 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	2.27 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.170 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 1.25 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.08 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

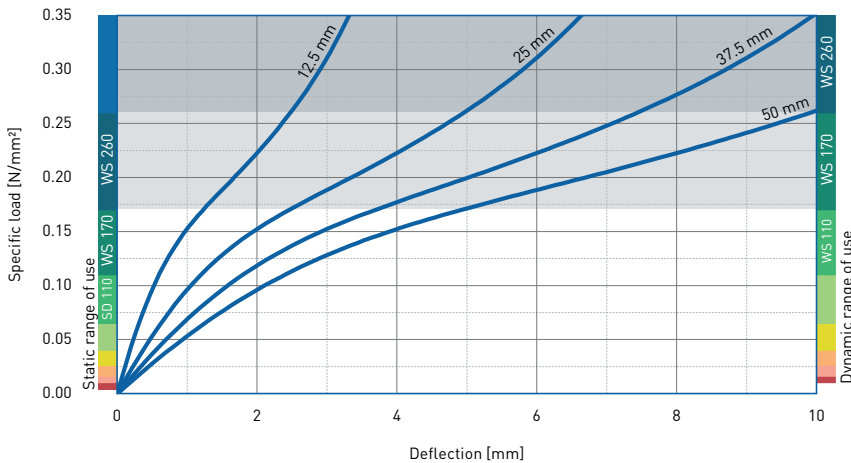
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 170

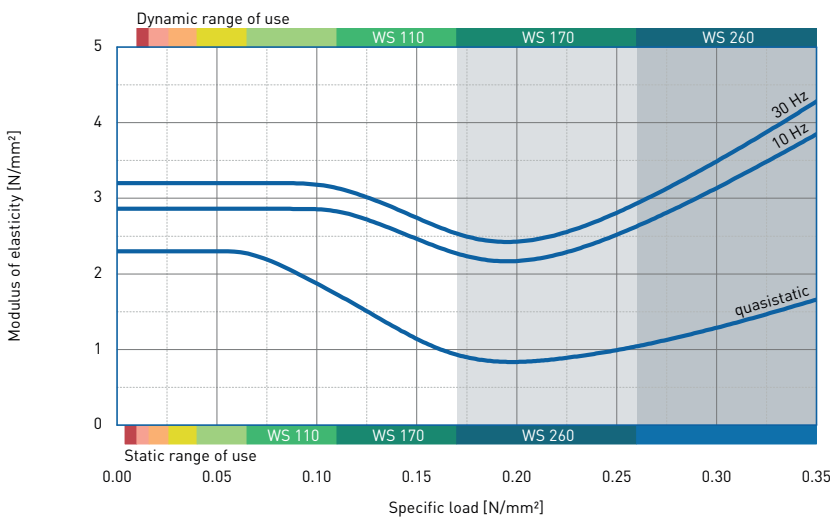
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

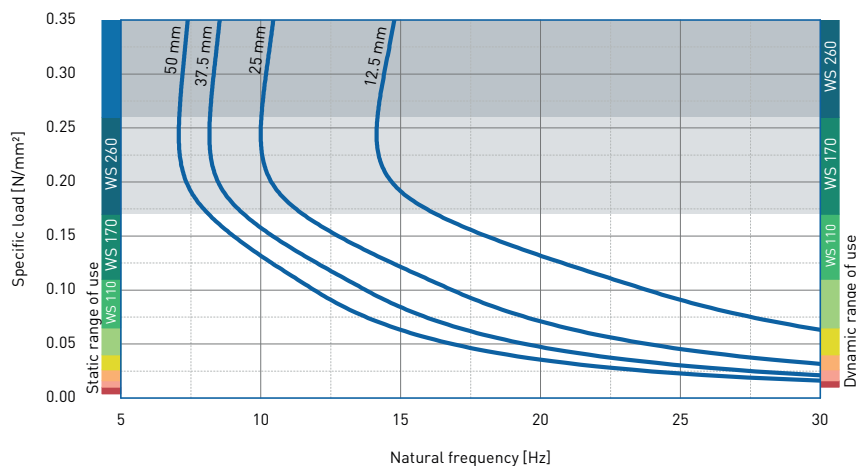


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 170 on a stiff subgrade.

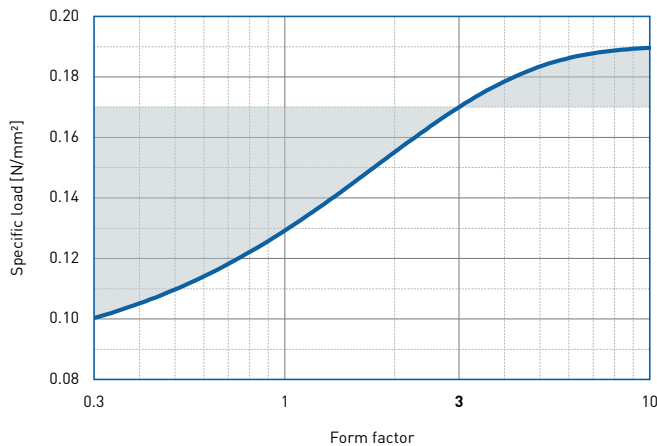
Form factor $q = 3$

WS-PU 170

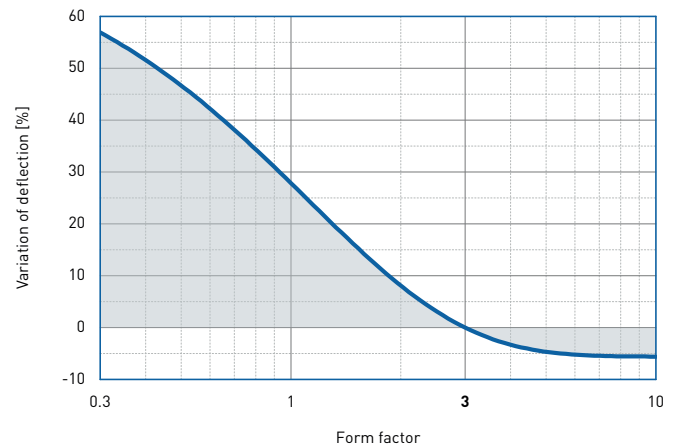
Correction values varying form factors

specific load 0.17 N/mm², form factor q = 3

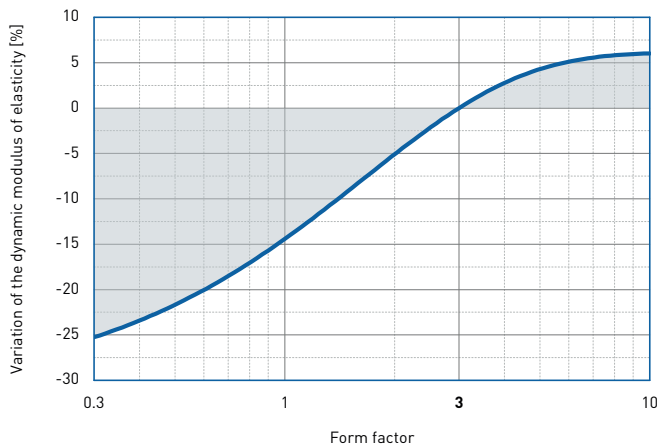
Static load range



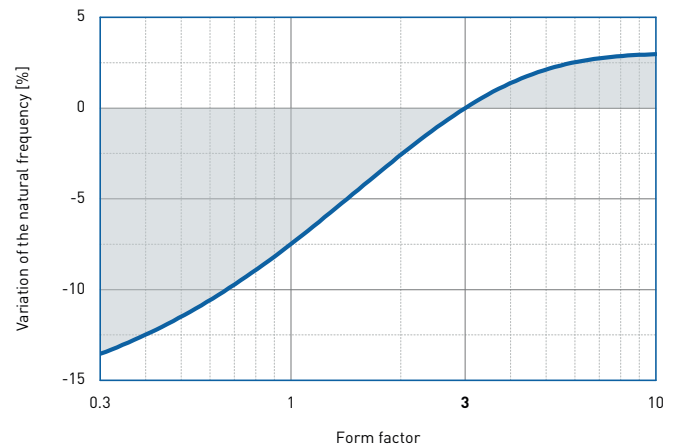
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



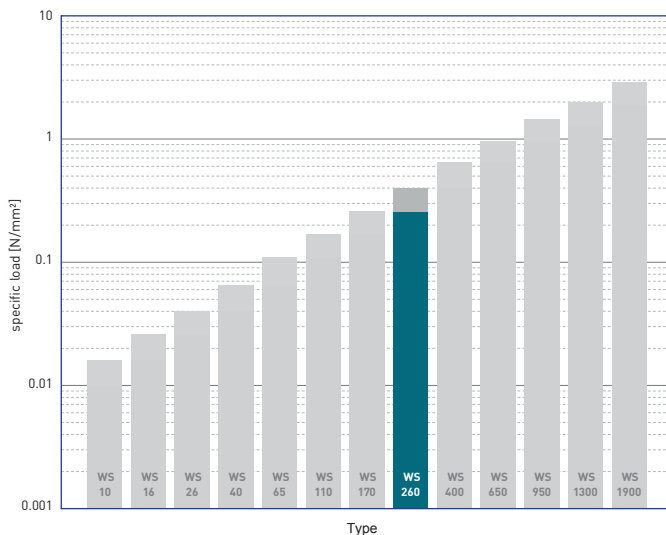
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WS-PU 260

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.260

Dynamic load: up to [N/mm²]

0.400

Load peaks: up to [N/mm²]

4.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour petrol

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.11	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	1.64 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	3.63 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.270 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 1.65 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.08 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

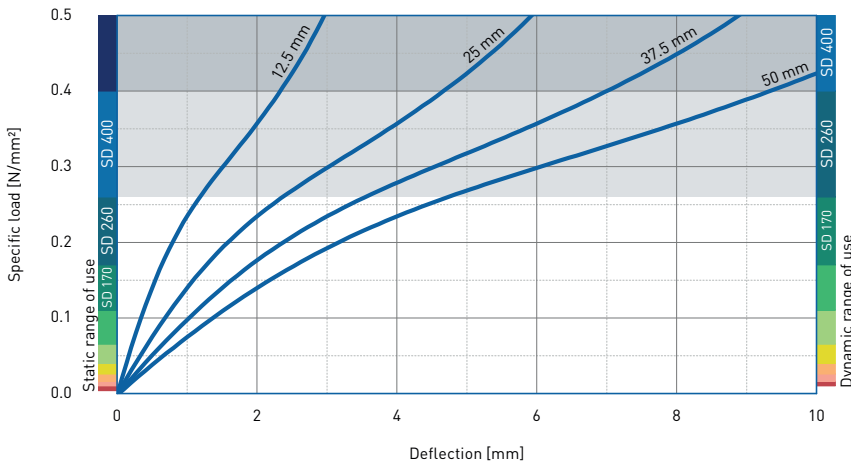
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 260

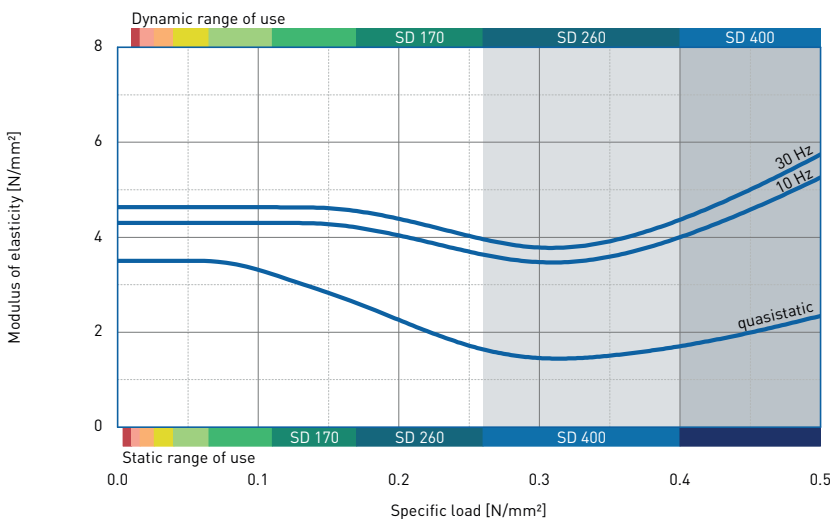
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

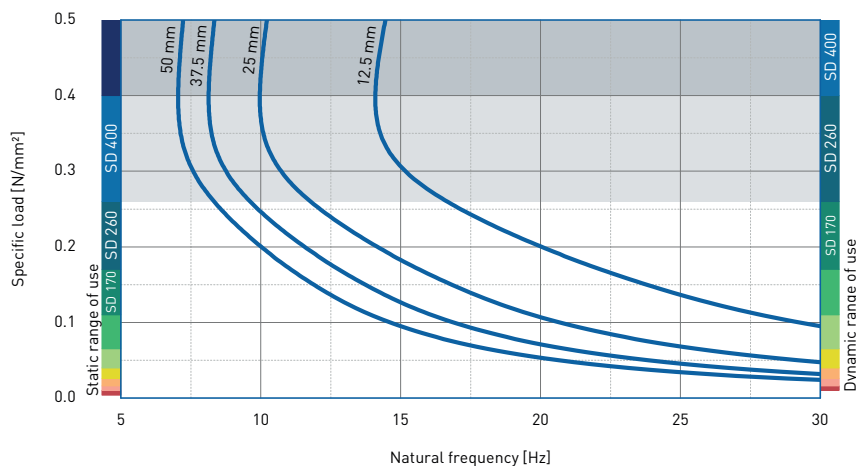


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 260 on a stiff subgrade.

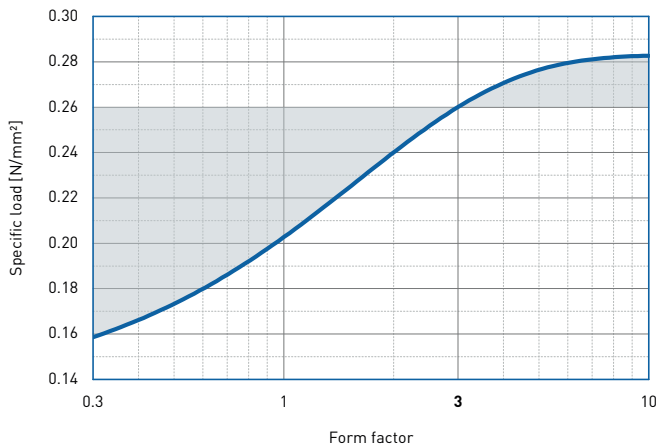
Form factor $q = 3$

WS-PU 260

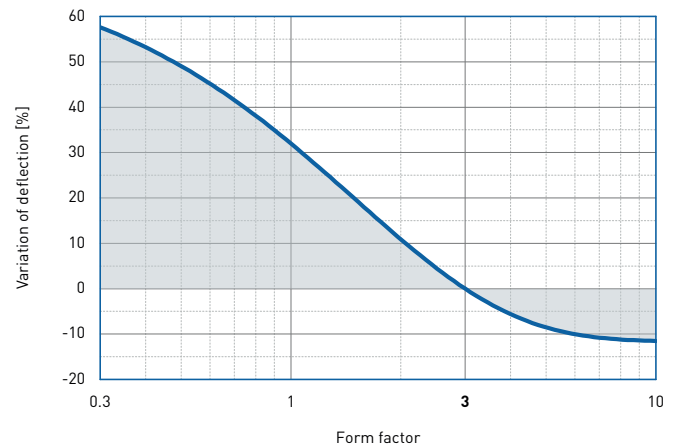
Correction values varying form factors

specific load 0.26 N/mm², form factor q = 3

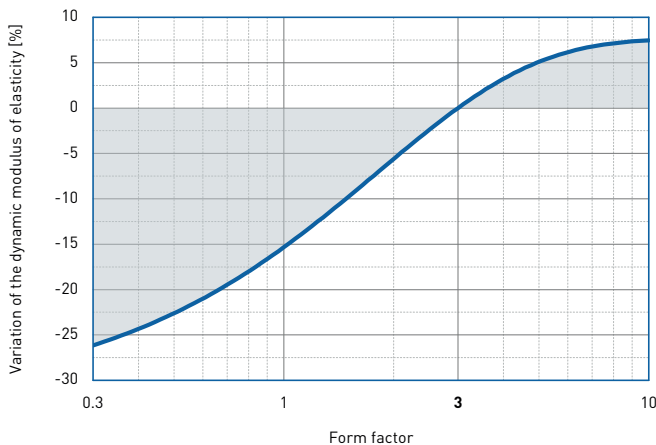
Static load range



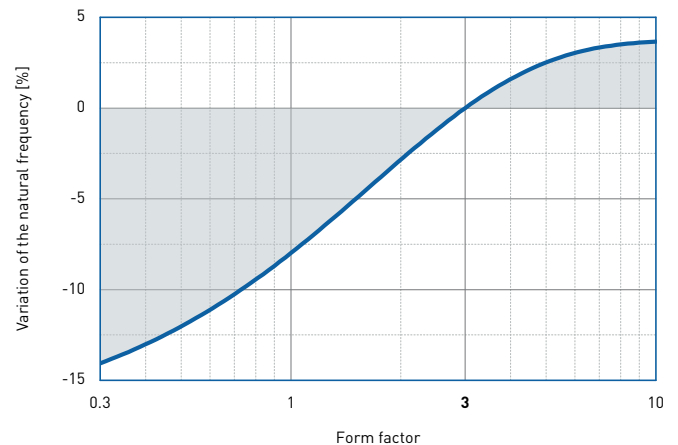
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



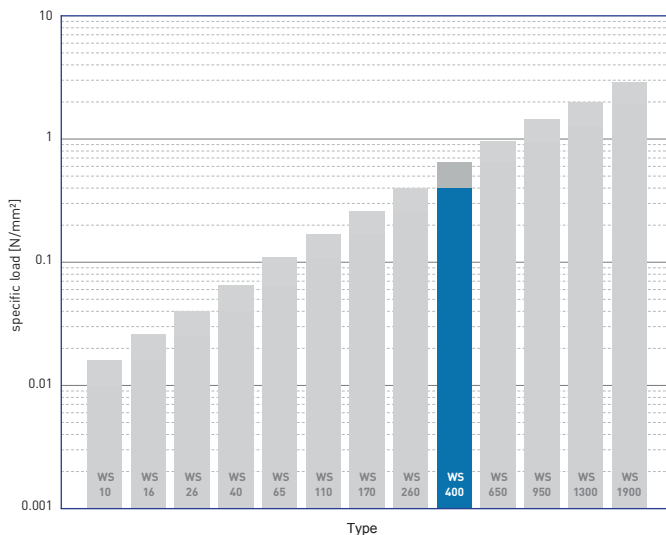
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WS-PU 400

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.400

Dynamic load: up to [N/mm²]

0.650

Load peaks: up to [N/mm²]

4.5

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour blue

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.10	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	2.72 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	5.27 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.370 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 2.25 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.10 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

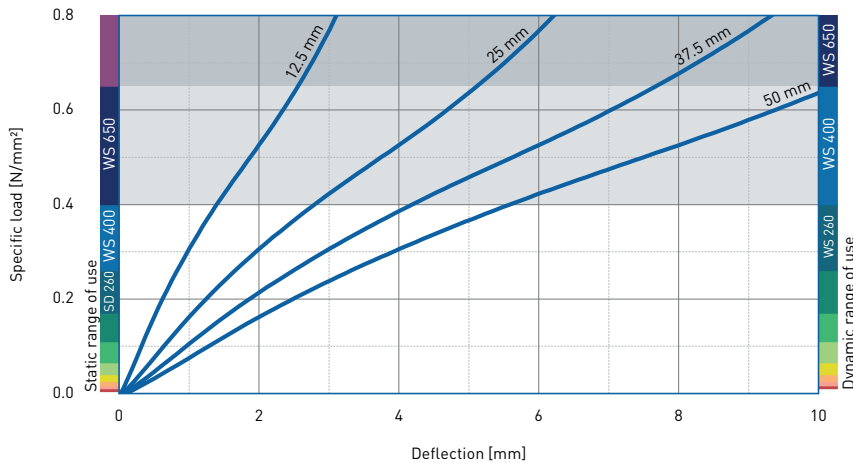
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

WS-PU 400

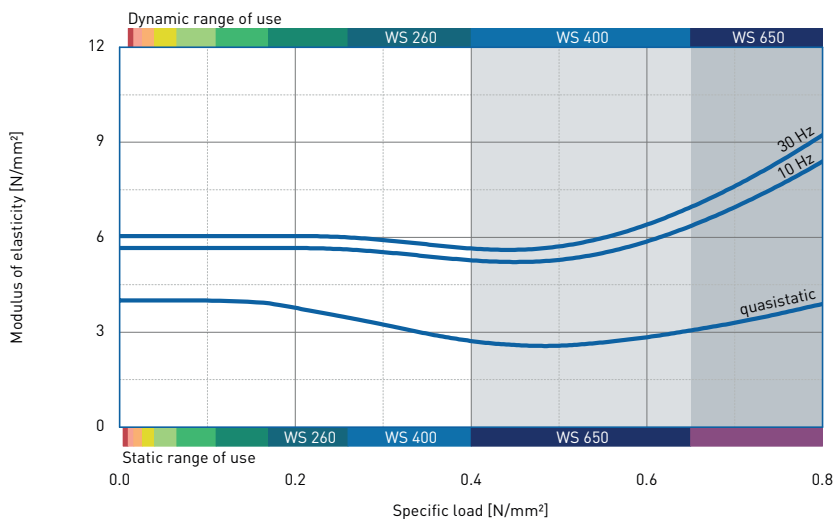
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 3$

Modulus of elasticity

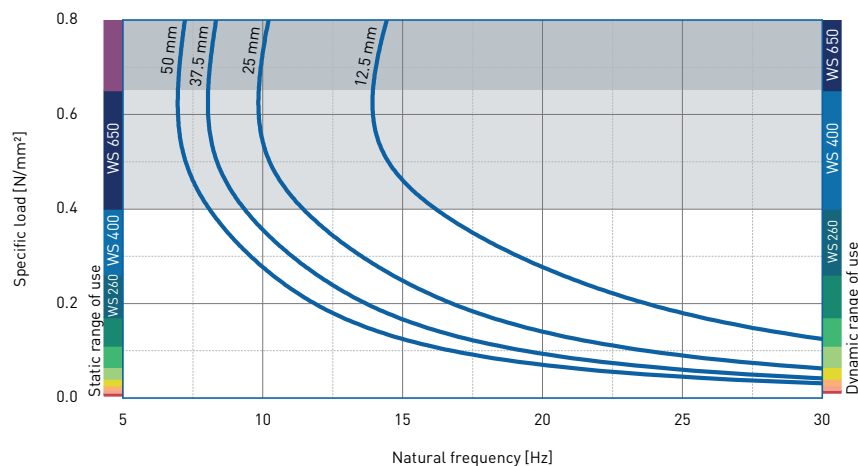


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 3$

Natural frequency



Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 400 on a stiff subgrade.

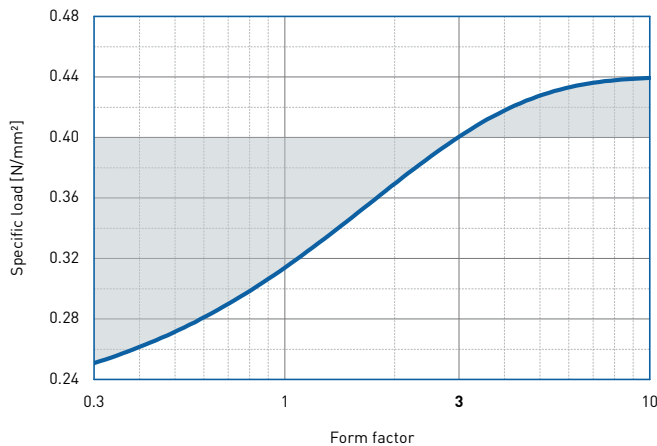
Form factor $q = 3$

WS-PU 400

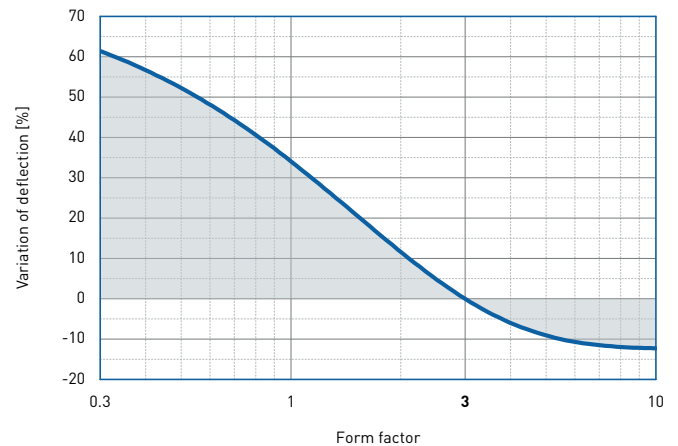
Correction values varying form factors

specific load 0.4 N/mm², form factor q = 3

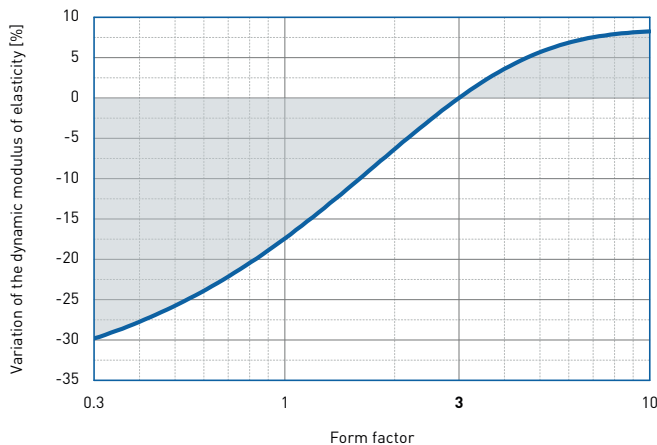
Static load range



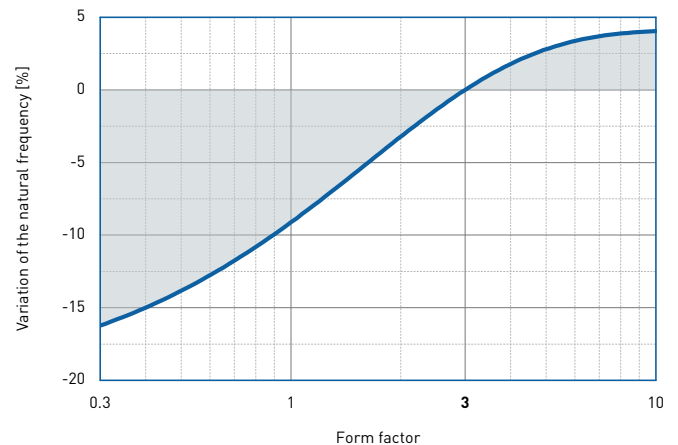
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



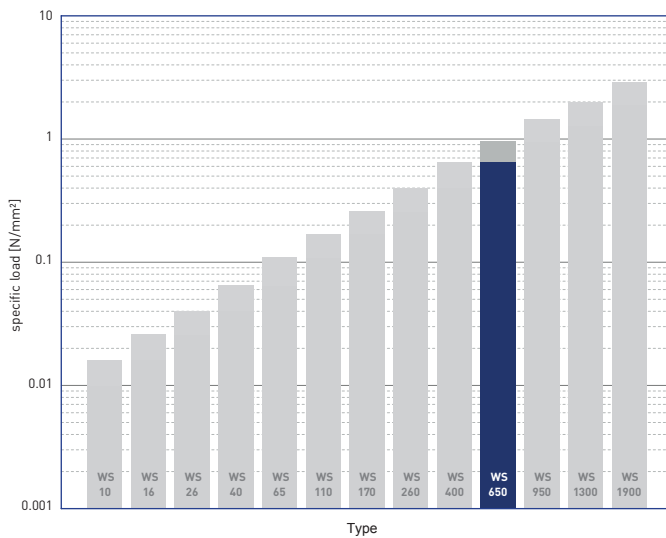
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WS-PU 650

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.650

Dynamic load: up to [N/mm²]

0.950

Load peaks: up to [N/mm²]

5.5

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour dark blue

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.10	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	4.57 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	10.4 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.590 N/mm ²		at 10% deformation
Residual compression set	< 5 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 3.00 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.10 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

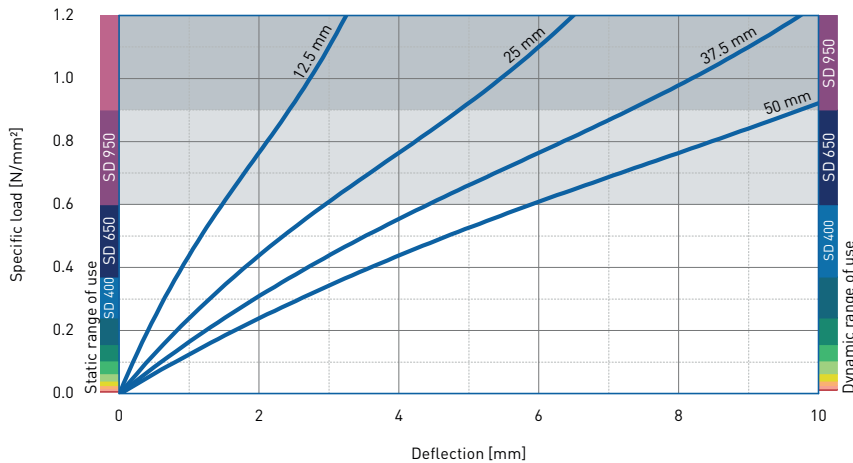
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

All information and data is based on our current knowledge. The data are subject to typical manufacturing tolerances and are not guaranteed. We reserve the right to amend the data.

WS-PU 650

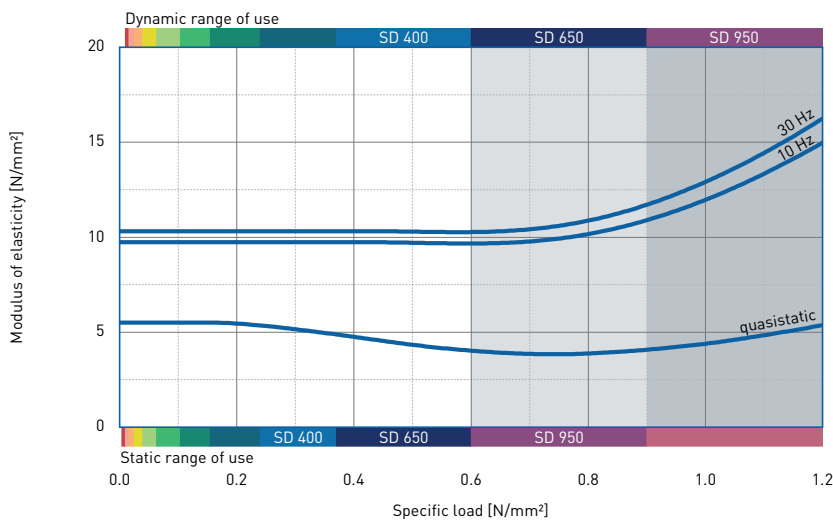
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 2$

Modulus of elasticity

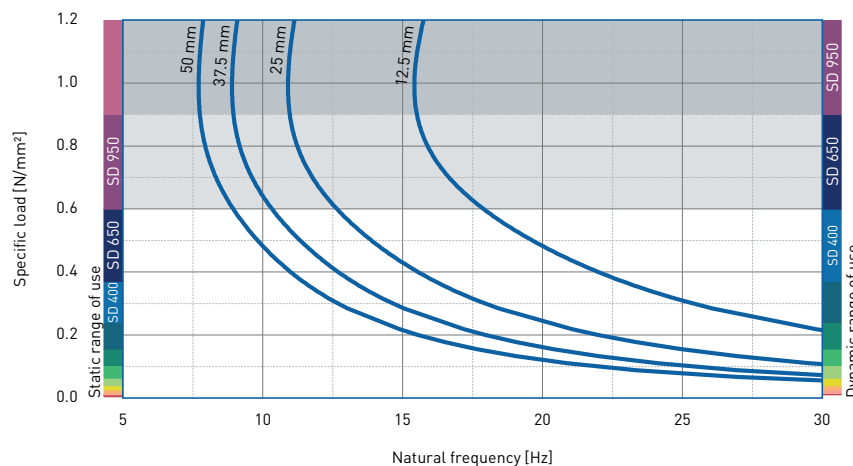


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 2$

Natural frequency



Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 650 on a stiff subgrade.

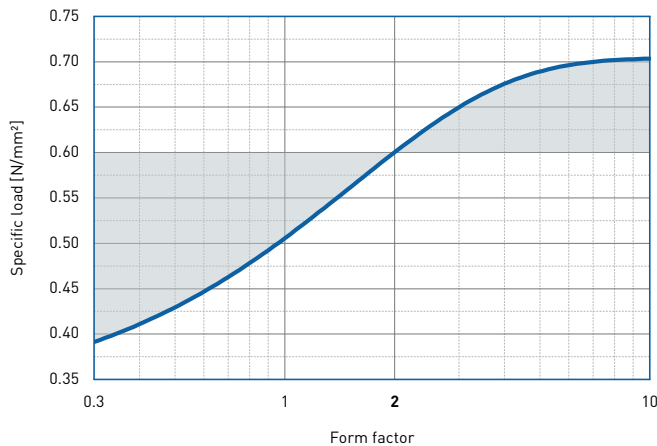
Form factor $q = 2$

WS-PU 650

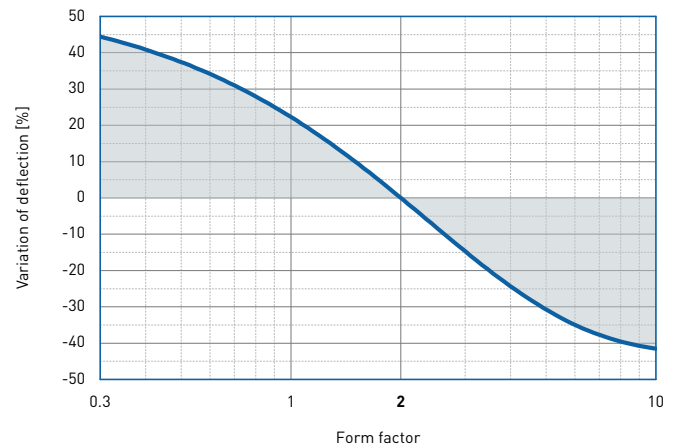
Correction values varying form factors

specific load 0.6 N/mm², form factor q = 2

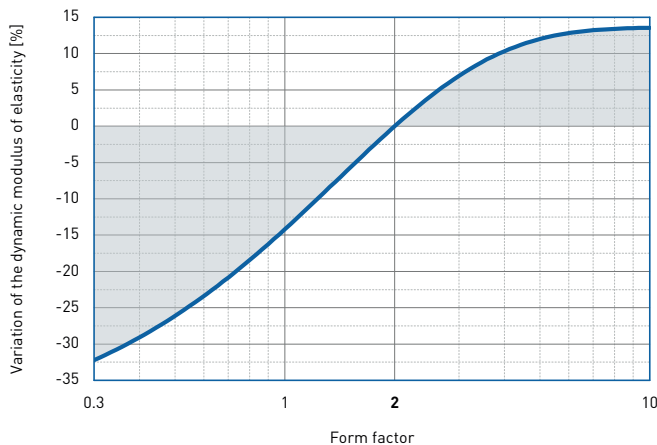
Static load range



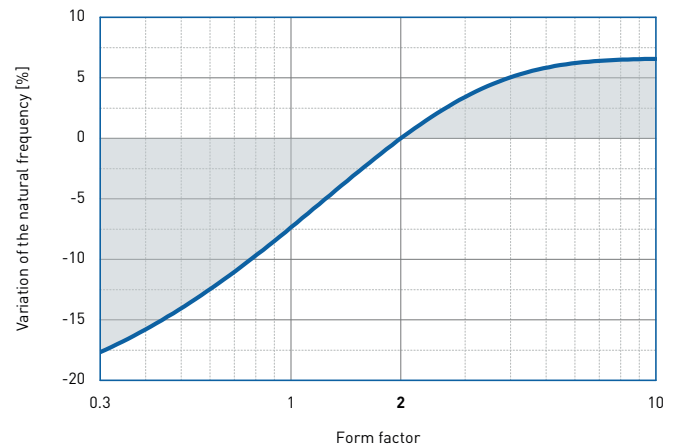
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



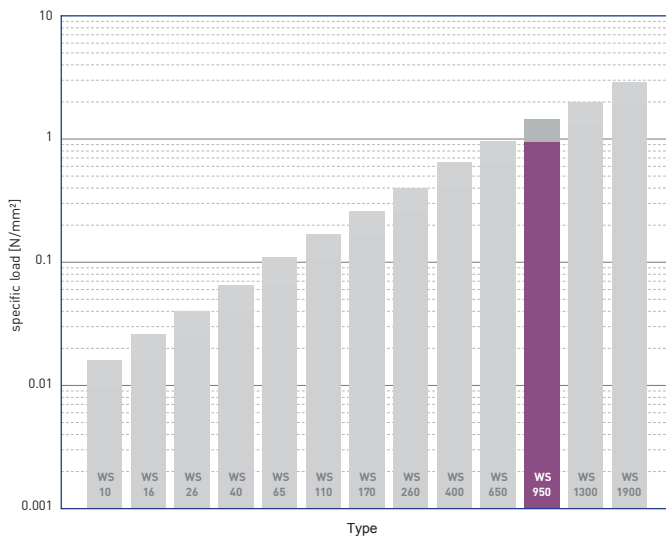
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WS-PU 950

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

0.950

Dynamic load: up to [N/mm²]

1.450

Load peaks: up to [N/mm²]

6.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour dark violet

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.10	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	8.16 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	21.5 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	0.930 N/mm ²		at 10% deformation
Residual compression set	< 9 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 3.80 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.11 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

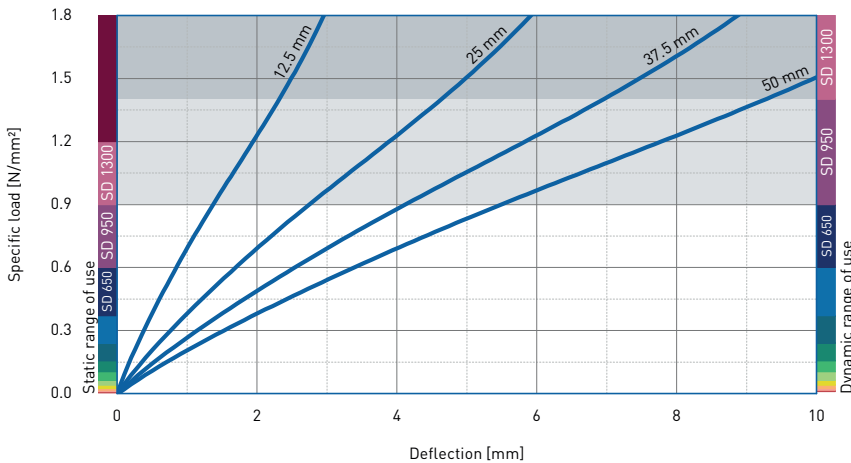
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 950

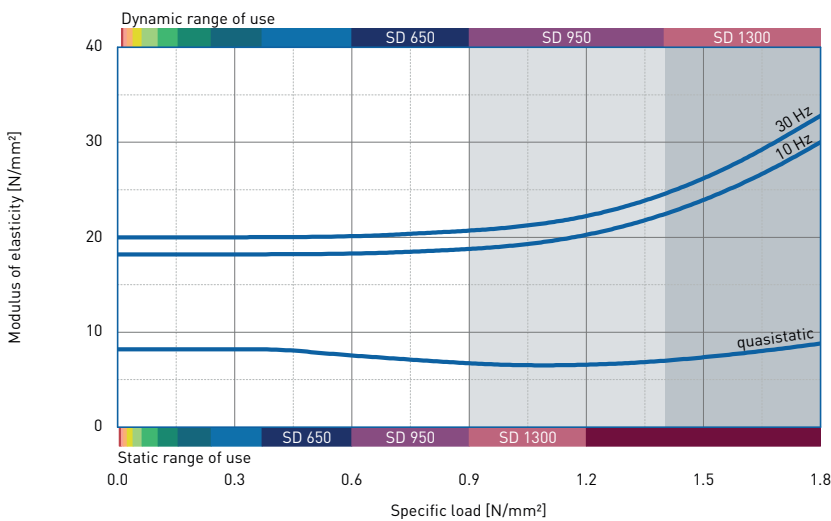
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 2$

Modulus of elasticity

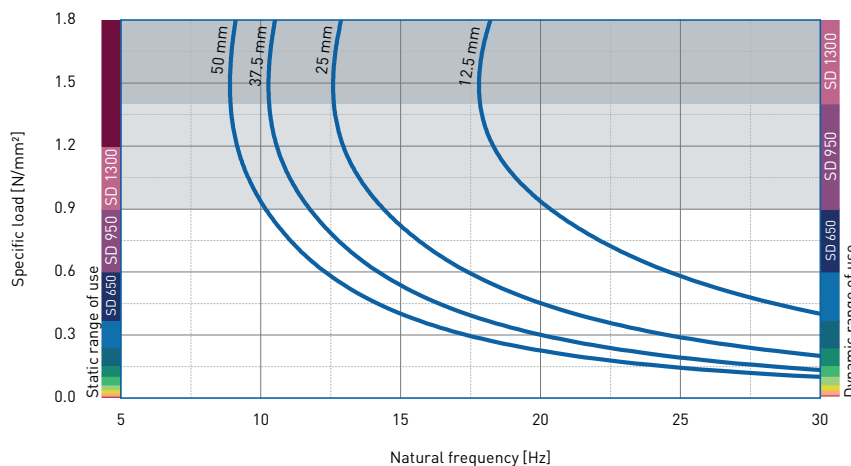


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 2$

Natural frequency



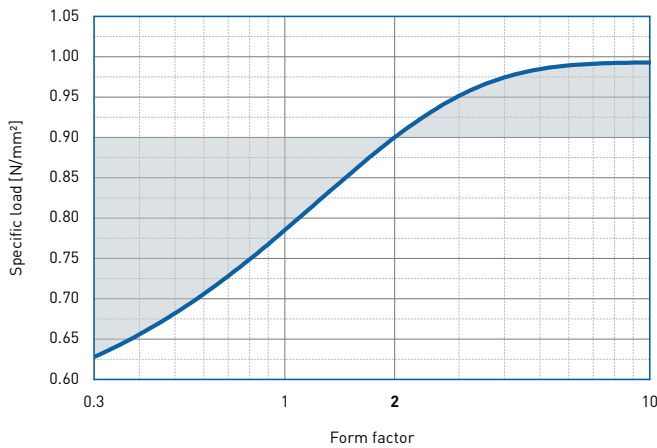
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 950 on a stiff subgrade.

Form factor $q = 2$

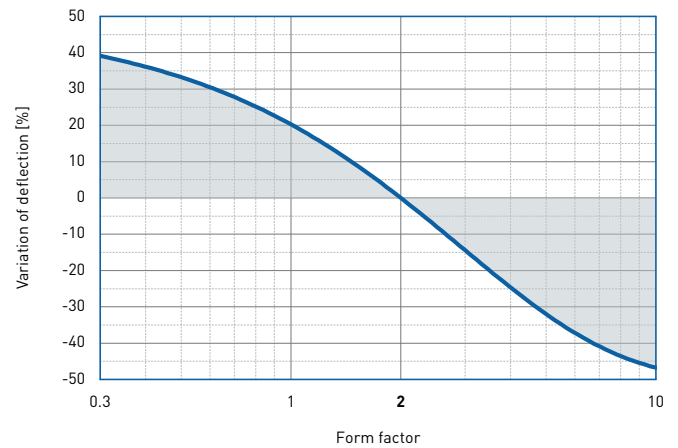
WS-PU 950

Correction values varying form factors
specific load 0.9 N/mm², form factor q = 2

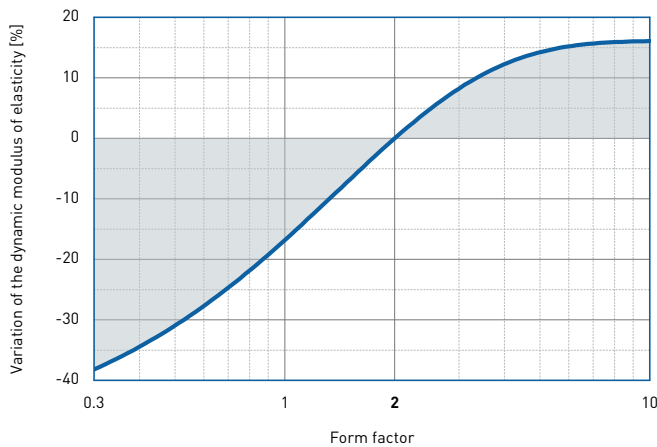
Static load range



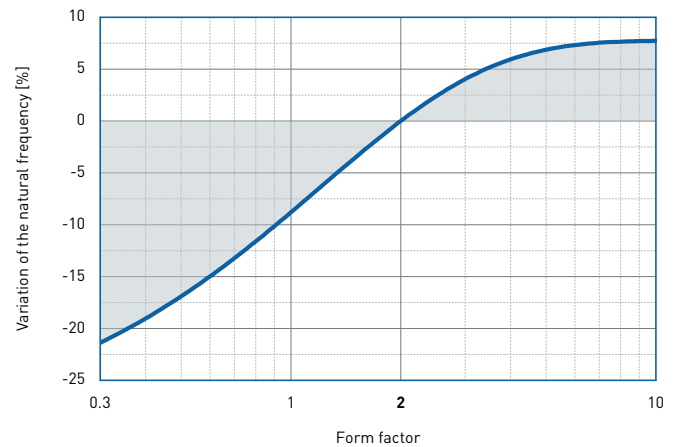
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



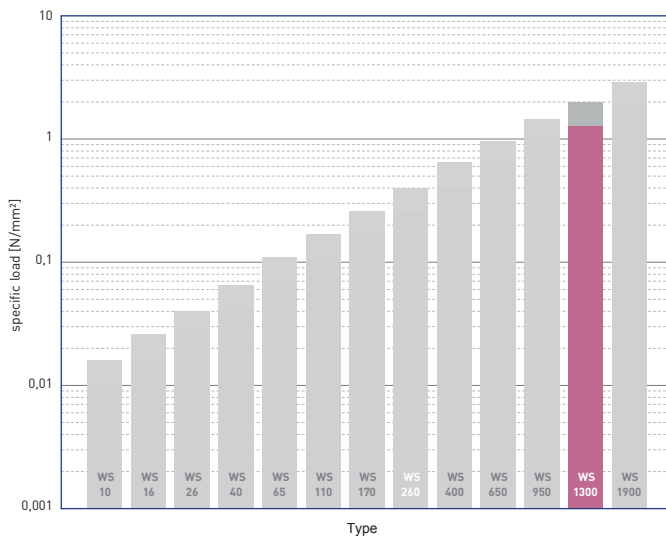
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WS-PU 1300

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

1.300

Dynamic load: up to [N/mm²]

2.000

Load peaks: up to [N/mm²]

6.5

Values depending on form factor and apply to form factor q = 3

Material mixed cellular polyether-urethane

Colour violet

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.09	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	12.0 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	35.2 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	1.340 N/mm ²		at 10% deformation
Residual compression set	< 9 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 4.40 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.11 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

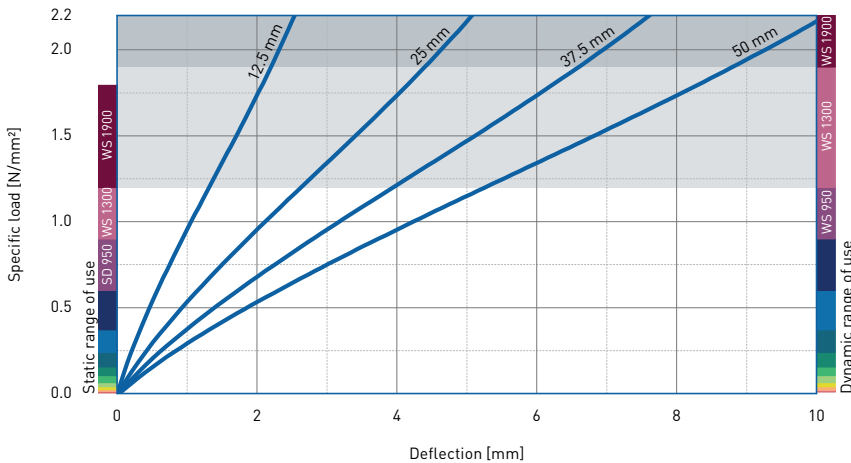
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 1300

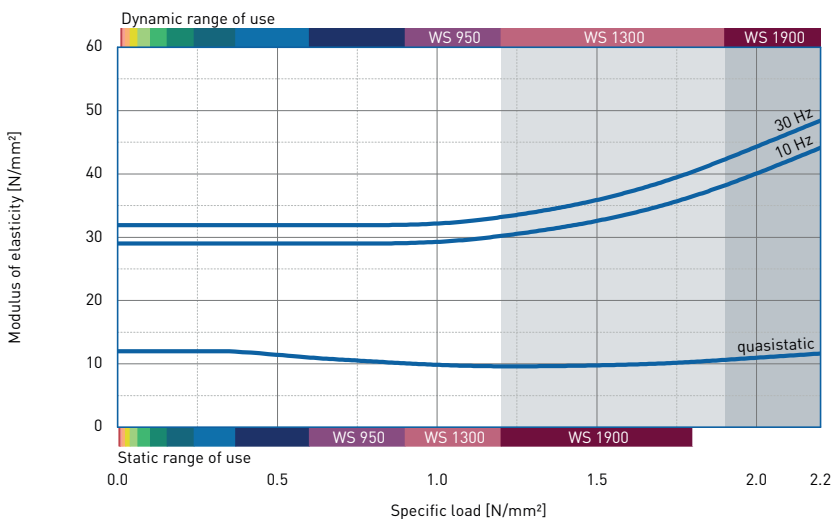
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 2$

Modulus of elasticity

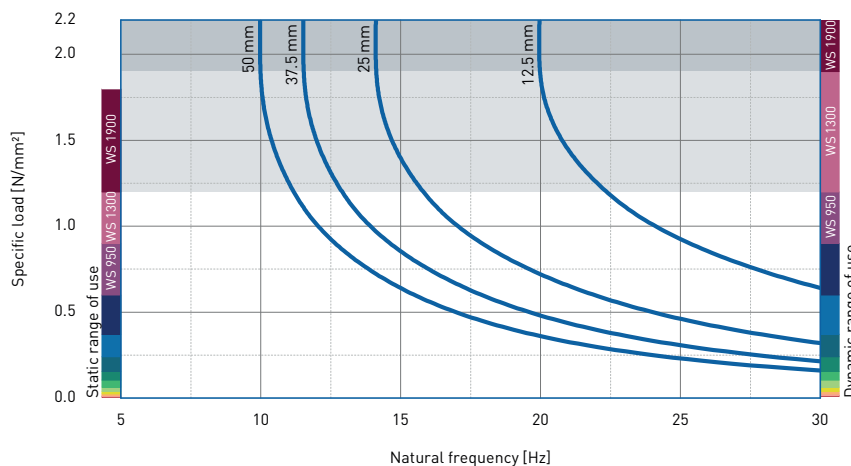


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 2$

Natural frequency



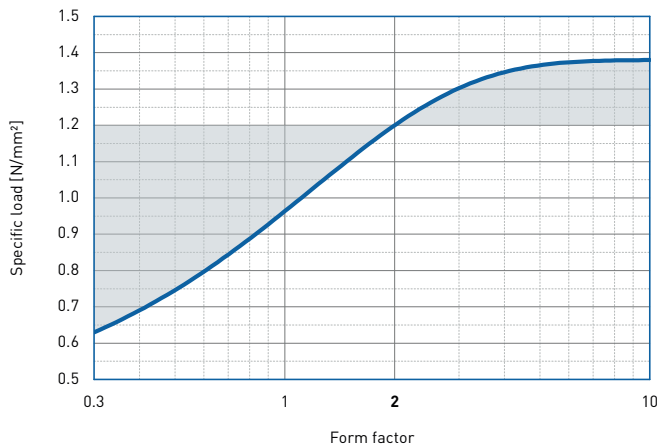
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 1300 on a stiff subgrade.

Form factor $q = 2$

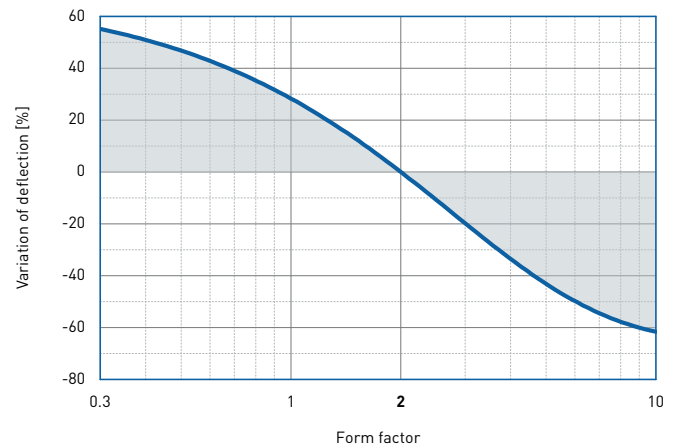
WS-PU 1300

Correction values varying form factors
 specific load 1.2 N/mm², form factor q = 2

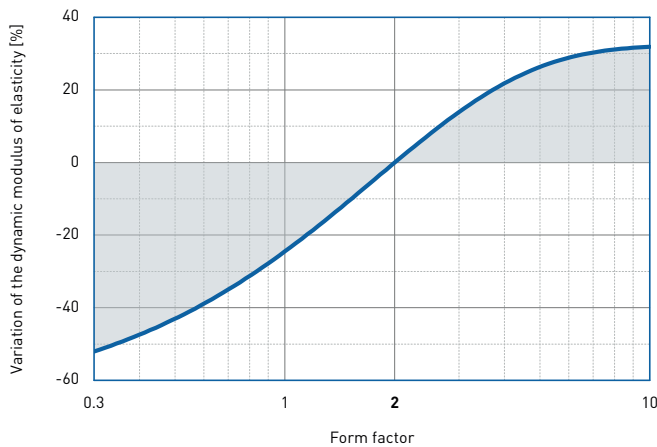
Static load range



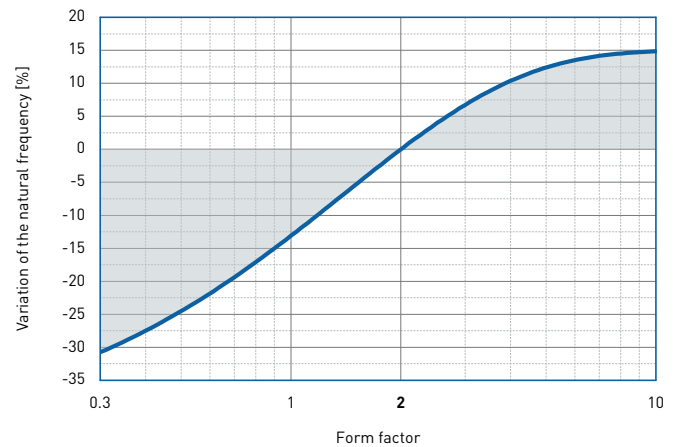
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



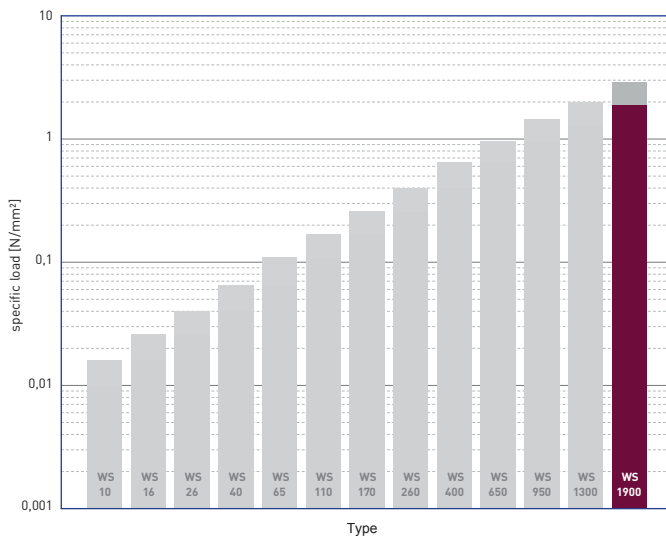
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WS-PU 1900

Working range



Recommendations for elastic bearing:

Static load: up to [N/mm²]

1.900

Dynamic load: up to [N/mm²]

2.800

Load peaks: up to [N/mm²]

7.0

Values depending on form factor and apply to form factor $q = 3$

Material mixed cellular polyether-urethane

Colour bordeaux red

Delivery specifications

Thickness: 12.5 mm and 25 mm

Mats: 0.5 m wide, 2.0 m long

Stripes: max. 2.0 m lang

Other dimensions on request (also stamping and moulded parts).

Properties	Value	Test method	Comment
Mechanical loss factor ⁽¹⁾	0.09	DIN 53513 ⁽²⁾	guide value
Static E-modulus ⁽¹⁾	20.4 N/mm ²	DIN 53513 ⁽²⁾	
Dynamic E-modulus ⁽¹⁾	78.2 N/mm ²	DIN 53513 ⁽²⁾	
Resistance to strain	1.840 N/mm ²		at 10% deformation
Residual compression set	< 8 %	DIN EN ISO 1856	50%, 23°C, 70 h, 30 min after unloading
Tensile strength	> 5.00 N/mm ²	DIN 53455-6-4	minimum
Elongation at break	> 400 %	DIN 53455-6-4	minimum
Rebound elasticity	50 %	DIN EN ISO 8307	± 10%
Specific volume resistance	> 10 ¹¹ Ω·cm	DIN IEC 93	dry
Thermal conductivity	0.11 W/[m·K]	DIN 52612-1	
Operating temperature	-30 bis +70 °C		
Temperature peak	+120 °C		
Inflammability	Class E / EN 13501-1	EN ISO 11925-1	normal flammable

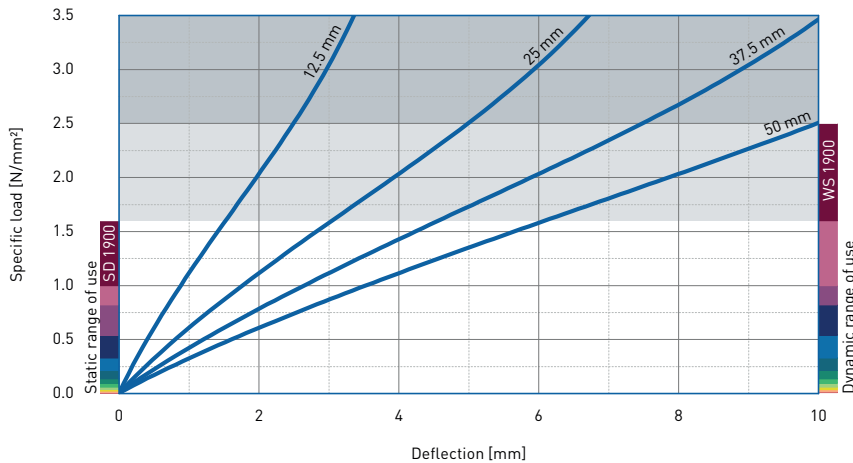
⁽¹⁾ measured at maximum limit of static application range

⁽²⁾ test according to DIN 53513

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WS-PU 1900

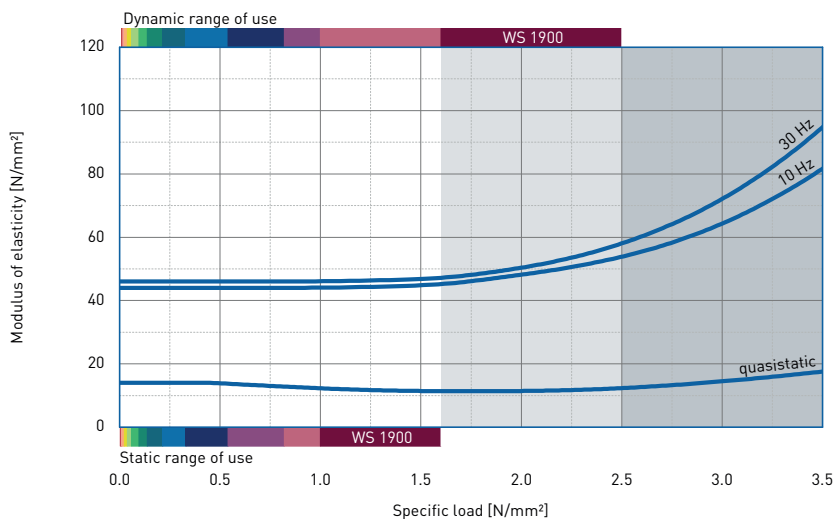
Load deflection curve



Recording of the 3rd loading; testing between steel plates at room temperature measured with a deflection rate of 1% of the thickness per second

Form factor $q = 1.25$

Modulus of elasticity

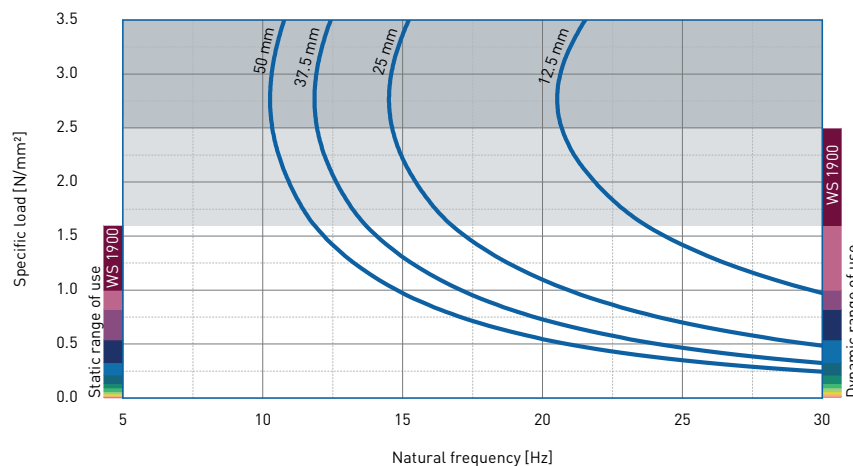


Dynamic test: sinusoidal excitation with an oscillating range of ± 0.22 mm at 10 Hz and ± 0.08 mm at 30 Hz

Quasistatic modulus of elasticity: tangent modulus taken from the load deflection curve

Test according to DIN 53513
Form factor $q = 1.25$

Natural frequency



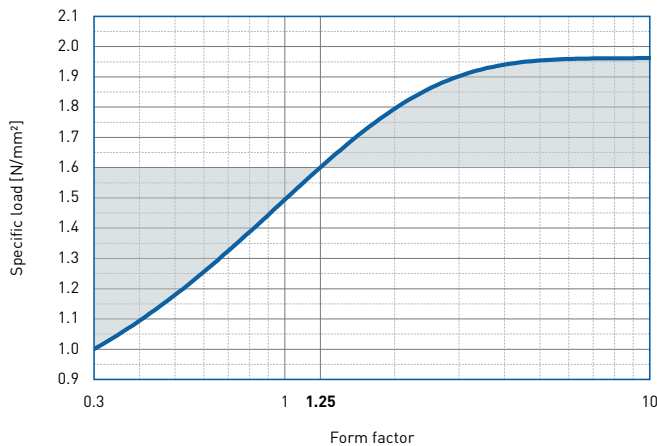
Natural frequency of a single-degree-of-freedom system consisting of a fixed mass and an elastic bearing consisting of WS 1900 on a stiff subgrade.

Form factor $q = 1.25$

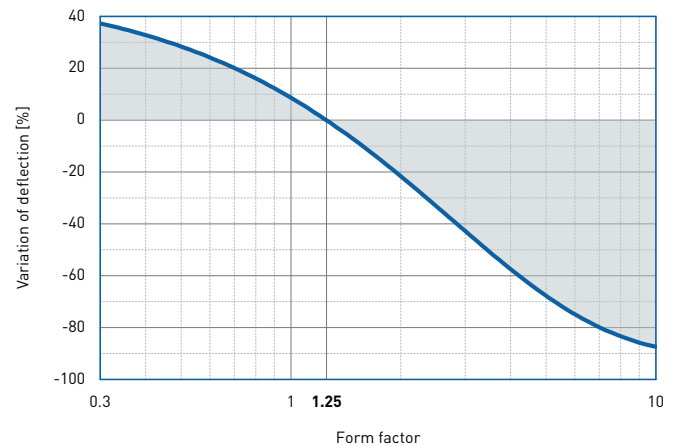
WS-PU 1900

Correction values varying form factors
 specific load 1.6 N/mm², form factor q = 1.25

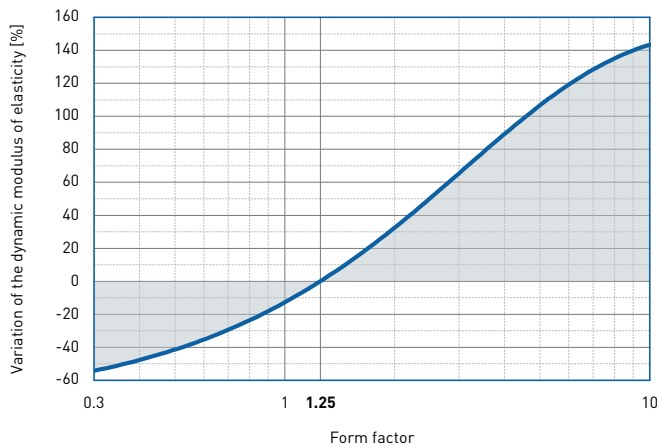
Static load range



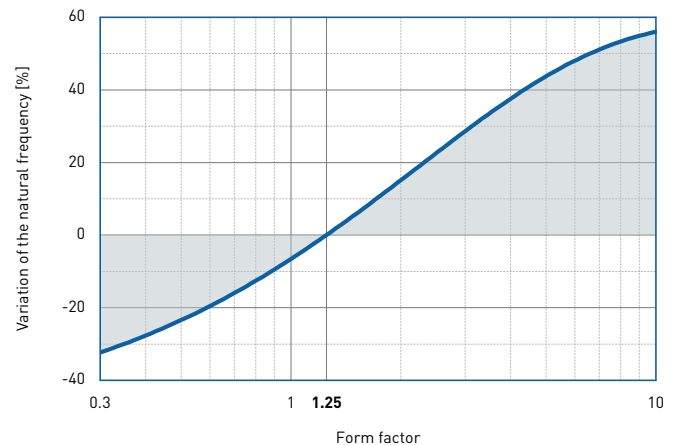
Deflection



Dynamic modulus of elasticity at 10 Hz



Natural frequency



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