GENERAL INFORMATION

Regarding hinge load values
Reference value **40 kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	40	40	40	40	40	40	40	40	40
1950	40	40	40	40	40	40	40	40	40
1900	40	40	40	40	40	40	40	40	40
1850	40	40	40	40	40	40	40	40	40
1800	40	40	40	40	40	40	40	40	39
1750	40	40	40	40	40	40	40	39	38
1700	40	40	40	40	40	40	39	38	36
1650	40	40	40	40	40	40	38	37	35
1600	40	40	40	40	40	39	37	36	34
1550	40	40	40	40	39	38	36	35	33
1435	40	40	40	38	36	35	33	32	31

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

Third hinge

In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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GENERAL INFORMATION

Regarding hinge load values
Reference value **80kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	80	80	80	80	80	80	80	80	80
1950	80	80	80	80	80	80	80	80	80
1900	80	80	80	80	80	80	80	80	80
1850	80	80	80	80	80	80	80	80	79
1800	80	80	80	80	80	80	80	80	77
1750	80	80	80	80	80	80	80	78	75
1700	80	80	80	80	80	80	79	76	73
1650	80	80	80	80	80	80	77	74	71
1700	80	80	80	80	80	78	74	71	69
1550	80	80	80	80	79	75	72	69	66
1435	80	80	80	76	73	70	67	64	62

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

Third hinge

In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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GENERAL INFORMATION

Regarding hinge load values
Reference value **100kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	100	100	100	100	100	100	100	100	100
1950	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100
1850	100	100	100	100	100	100	100	100	99
1800	100	100	100	100	100	100	100	100	96
1750	100	100	100	100	100	100	100	98	94
1700	100	100	100	100	100	100	99	95	91
1650	100	100	100	100	100	100	96	92	88
1700	100	100	100	100	100	97	93	89	86
1550	100	100	100	100	98	94	90	86	83
1435	100	100	100	95	91	87	83	80	77

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

Third hinge

In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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GENERAL INFORMATION

Regarding hinge load values
Reference value **120kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	120	120	120	120	120	120	120	120	120
1950	120	120	120	120	120	120	120	120	120
1900	120	120	120	120	120	120	120	120	120
1850	120	120	120	120	120	120	120	120	119
1800	120	120	120	120	120	120	120	120	116
1750	120	120	120	120	120	120	120	117	113
1700	120	120	120	120	120	120	118	114	109
1650	120	120	120	120	120	120	115	110	106
1700	120	120	120	120	120	116	111	107	103
1550	120	120	120	120	118	113	108	104	100
1435	120	120	120	114	109	104	100	96	92

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

Third hinge

In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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GENERAL INFORMATION

Regarding hinge load values
Reference value **160 kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	160	160	160	160	160	160	160	160	160
1950	160	160	160	160	160	160	160	160	160
1900	160	160	160	160	160	160	160	160	160
1850	160	160	160	160	160	160	160	160	159
1800	160	160	160	160	160	160	160	160	154
1750	160	160	160	160	160	160	160	156	150
1700	160	160	160	160	160	160	158	152	146
1650	160	160	160	160	160	160	153	147	142
1600	160	160	160	160	160	155	149	143	137
1550	160	160	160	160	157	150	144	138	133
1435	160	160	160	152	145	139	133	128	123

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

~~**Third hinge**~~ CONSULT YOUR DEALER FOR CURRENT INFORMATION

~~In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.~~

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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GENERAL INFORMATION

Regarding hinge load values
Reference value **200kg**

Overview of load values for hinges

The following table provides you an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge gap into account.

Assuming a reference value with door leaf dimensions of 1000 x 2000 mm (W x H), the use of 2 hinges and a hinge gap of 1435 mm, the permissible load values change with different width and height ratios.

Green: load value **=** reference value, **Orange**: load value **<** reference value.

→ Hinge gap in mm	900	950	1000	1050	1100	1150	1200	1250	1300
2000	200	200	200	200	200	200	200	200	200
1950	200	200	200	200	200	200	200	200	200
1900	200	200	200	200	200	200	200	200	200
1850	200	200	200	200	200	200	200	200	198
1800	200	200	200	200	200	200	200	200	193
1750	200	200	200	200	200	200	200	195	188
1700	200	200	200	200	200	200	197	190	182
1650	200	200	200	200	200	200	192	184	177
1700	200	200	200	200	200	194	186	178	172
1550	200	200	200	200	196	188	180	173	166
1435	200	200	200	190	182	174	167	160	154

→ Leaf width in mm

The hinge gap dimensions according to DIN 18101 must be taken into account for standardised door elements.
The specifications above are guidelines. Especially in the case of borderline load requirements, please approach us.

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GENERAL INFORMATION

regarding hinge load values

Selection criteria

When selecting or deciding on a hinge, the load alone is already often viewed as being identical to the weight of the door. However, the hinge load can often be several times the door weight, caused by various influential factors.

Even taking these various criteria into account, an additional reserve should always still be included when selecting the hinge. Especially in public buildings where extra loads are incurred due to the high opening frequency and stress which is not always calculable (kindergarten, barracks etc.), sufficiently dimensioned hinges should be used even if this would not have been necessary merely based on the door weight as such.

Finally, a hinge is also only as good as its later machining. Therefore, proper fitting and expert installation are absolutely necessary. Only correctly fitted hinges are able to fulfil the intended function.

The material stability of the construction element to be fitted and friction locking with the masonry or stud frame forms the basis for the hinge's respective function. If questions regarding the correct selection of hinges arise in certain cases, we are more than happy to help you.

The following criteria must be taken into account for hinge selection in order to avoid consequential damages:

Location *(residential building, public building, school, administration, barracks, kindergarten etc.)*
The element's material type
Opening frequency
Door dimensions *(e.g. excess widths)*
Hinge positioning
Hinge installation
Doors opening outwards *(porches)*
Door stoppers
Door closers
Wall jambs
etc.

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GENERAL INFORMATION

regarding hinge load values

~~**Third hinge**~~ CONSULT YOUR DEALER FOR CURRENT INFORMATION

~~In addition to the factors named above, the use of a 3rd hinge can also influence the load value decisively. However, in this case it must be taken into account that the value provided cannot be multiplied by a factor of 1.5 offhand. The load value is only influenced positively if a 3rd hinge is used in the upper third. SIMONSWERK recommends the use of a 3rd hinge 370 mm under the upper hinge (taking the upper hinge reference line as a reference). This increases load value defined by approx. 30%.~~

Doors with excess widths

SIMONSWERK building hinges are generally geared for the load values specified, whereby you should observe that the load values diminish percentagewise from a door width of 100 cm with a constant hinge gap in the dimension in which the door width of 100 cm is exceeded (e.g. door width 125 cm = load value minus 25%). The prerequisite for this is always precise and proper fitting in accordance with the SIMONSWERK installation instructions.
The following load specification for SIMONSWERK hinges refer to a maximum door weight whilst taking the named influential factors into account for hinge loads.

All specifications are based on the following references:

Door leaf dimensions	1000 x 2000 mm
Use of	2 hinges
Hinge gap	1435 mm

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