

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Hardware performance sheet (HPS) – Identification and summary of test evidence to facilitate the interchangeability of building hardware for application to fire resisting and/or smoke control doorsets and/or operable windows.

Test Report no.	Timber doors	Steel/ metal doors	Aluminium profile	Steel profile	Single leaf	Double leaf	Latched	Unlatched	Door opening direction into the oven	Door opening direction outside the oven	Fire resistance EN 1634-1	Smoke control EN 1634-3	Product inside the oven	Product outside the oven	Product concealed	Duration of fire resistance							Durability of selfclosing EN 1191		
																EI 1 or EI 2 insulated doorset E uninsulated doorset								Test cycles	
																EI 1	EI 2	E	≥ 30	≥ 60	≥ 90	≥ 240			
DMT-DO-50-515	x				x	x			x		x		x			x	x								
DMT-DO-50-480			x		x	x			x		x		x												
DMT-DO-50-479			x		x	x			x		x		x												
DMT-DO-50-465	x				x	x			x		x		x												
DMT-DO-50-465	x				x	x			x		x		x												
DMT-DO-50-460	x						x		x		x		x												
DMT-DO-50-460	x						x		x				x												
DMT-DO-50-460	x						x		x				x												
DMT-DO-50-457			x		x	x			x		x		x												
DMT-DO-50-457			x		x	x			x		x		x												
DMT-DO-50-436		x			x	x			x		x		x												
DMT-DO-50-436		x			x	x			x		x		x												
DMT-DO-50-436		x			x	x			x		x		x												
DMT-DO-50-436		x			x	x			x		x		x												
DMT-DO-50-379-R2	x				x	x			x		x		x												
DMT-DO-50-379-R2	x				x	x			x		x		x												
DMT-DO-51-208			x		x		x																		500 000
DMT-DO-51-204	x				x	x																			200 000
DMT-DO-51-193			x		x	x																			200 000
DMT-DO-51-169	x				x		x																		200 000

Hardware_Performances_Sheet_Vorlage.docx; Version: 30.05.2017

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-515

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, double leaf door set

Door opening direction: inside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 05.07.2018

Test report issued by: DMT Lathen

Classification: EI 2 94 min., EI 1 94 min.

Width of primary leaf: 1300mm

Width of secondary leaf: 1300mm

Door leaf height: 2645mm

Door thickness: 105mm

Mass of primary leaf: 212,5 Kg

Mass of secondary leaf: 213,5 Kg

Restrictions: --

Installation Instructions: --

20191212_HPS_TS_98_XEA_EN_1-6_EN.docx

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-480

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: aluminium

Mounting of building hardware: surface mounted, product outside the oven

Type of door set: hinged, double leaf door set

Door opening direction: outside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 07.05.2018

Test report issued by: DMT Lathen

Classification: EI 2 31 min

Width of primary leaf: 1457mm

Width of secondary leaf: 1457mm

Door leaf height: 2622mm

Door thickness: 77mm

Mass of primary leaf: 152 Kg

Mass of secondary leaf: 152 Kg

Restrictions: --

Installation Instructions: --

20191212_HPS_TS_98_XEA_EN_1-6_EN.docx

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-479

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: aluminium

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, double leaf door set

Door opening direction: outside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 07.05.2018

Test report issued by: DMT Lathen

Classification: EI 2 33 min

Width of primary leaf: 1457mm

Width of secondary leaf: 14570mm

Door leaf height: 2622mm

Door thickness: 77mm

Mass of primary leaf: 145 Kg

Mass of secondary leaf: 145 Kg

Restrictions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-465

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, double leaf door set

Door opening direction: outside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 19.12.2017

Test report issued by: DMT Lathen

Classification: EI 2 93 min., EI 1 88 min.

Width of primary leaf: 1300mm

Width of secondary leaf: 1300mm

Door leaf height: 2650mm

Door thickness: 105mm

Mass of primary leaf: 208Kg

Mass of secondary leaf: 208Kg

Restrictions: --

Installation Instructions: --

20191212_HPS_TS_98_XEA_EN_1-6_EN.docx

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-460

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber / metal

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, one leaf door

Door opening direction: inside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 16.02.2018

Test report issued by: DMT Lathen

Classification: EI 2 71 min., EI 1 71 min.

Width of primary leaf: 1200mm

Width of secondary leaf: ---

Door leaf height: 2500mm

Door thickness: 64mm

Mass of primary leaf: 132Kg

Mass of secondary leaf: ---

Restrictions: ---

Installation Instructions: ---

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-460

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber / metal

Mounting of building hardware: surface mounted, product outside the oven

Type of door set: hinged, one leaf door

Door opening direction: outside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 16.02.2018

Test report issued by: DMT Lathen

Classification: EI 2 122 min., EI 1 79 min.

Width of primary leaf: 1200mm

Width of secondary leaf: ---

Door leaf height: 2500mm

Door thickness: 64mm

Mass of primary leaf: 132Kg

Mass of secondary leaf: ---

Restrictions: ---

Installation Instructions: ---

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-457

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: aluminium

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, one leaf door

Door opening direction: outside the oven

Isolation: Insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 08.05.2018

Test report issued by: DMT Lathen

Classification: EI 2 90 min., EI 1 60 min.

Width of primary leaf: 1346mm

Width of secondary leaf: --

Door leaf height: 2505mm

Door thickness: 77mm

Mass of primary leaf: 290Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-436

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: metal doors

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, single leaf door set

Door opening direction: outside the oven

Isolation: insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 26.09.2017

Test report issued by: DMT Lathen

Classification: EI 2 104 min., EI 1 64 min.

Width of primary leaf: 1498mm

Width of secondary leaf: --

Door leaf height: 2993mm

Door thickness: 62mm

Mass of primary leaf: 195Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-436

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: metal doors

Mounting of building hardware: surface mounted, product outside the oven

Type of door set: hinged, single leaf door set

Door opening direction: inside the oven

Isolation: insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 26.09.2017

Test report issued by: DMT Lathen

Classification: EI 2 90 min., EI 1 65 min.

Width of primary leaf: 1498mm

Width of secondary leaf: --

Door leaf height: 2993mm

Door thickness: 62mm

Mass of primary leaf: 195Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-379-R2

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted, product inside the oven

Type of door set: hinged, single leaf door set

Door opening direction: inside the oven

Isolation: insulated

Door tested: latched

Performance level(s)

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 14.07.2017

Test report issued by: DMT Lathen

Classification: EI 2 125 min., EI 1 125 min.

Width of primary leaf: 1294mm

Width of secondary leaf: --

Door leaf height: 2432mm

Door thickness: 65mm

Mass of primary leaf: 168Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-50-379-R2

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted, product outside the oven

Type of door set: hinged, single leaf door set

Door opening direction: outside the oven

Isolation: insulated

Door tested: latched

Performance level(s)

Performance: fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 14.07.2017

Test report issued by: DMT Lathen

Classification: EI 2 125 min., EI 1 125 min.

Width of primary leaf: 1294mm

Width of secondary leaf: --

Door leaf height: 2432mm

Door thickness: 65mm

Mass of primary leaf: 168Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-51-208

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: aluminium

Mounting of building hardware: surface mounted

Type of door set: Hinged, single leaf door set

Performance level(s)

Performance: Durability of selfclosing

Test method: EN 1191

Date: 23.05.2019

Test report issued by: DMT Lathen

Classification: 500 000 cycles

Width of primary leaf: 1496mm

Width of secondary leaf: ---

Door leaf height: 2013mm

Door thickness: 93mm

Mass of primary leaf: 242kg

Mass of secondary leaf: ---

Restrictions: ---

Installation Instructions: ---

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-51-204

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted

Type of door set: Hinged, double leaf door set

Performance level(s)

Performance: Durability of selfclosing

Test method: EN 1191

Date: 22.11.2018

Test report issued by: DMT Lathen

Classification: 200 000 cycles

Width of primary leaf: 1300mm

Width of secondary leaf: 1300mm

Door leaf height: 2650mm

Door thickness: 105mm

Mass of primary leaf: 282,5kg

Mass of secondary leaf: 207,0kg

Restrictions: --

Installation Instructions: --

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EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-51-193

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: aluminium

Mounting of building hardware: surface mounted

Type of door set: Hinged, double leaf door set

Performance level(s)

Performance: Durability of selfclosing

Test method: EN 1191

Date: 21.02.2019

Test report issued by: DMT Lathen

Classification: 200 000 cycles

Width of primary leaf: 1429,5mm

Width of secondary leaf: 1429,5mm

Door leaf height: 3013mm

Door thickness: 93mm

Mass of primary leaf: 265kg

Mass of secondary leaf: 265kg

Restrictions: --

Installation Instructions: --

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20191212_HPS_TS_98_XEA_EN_1-6_EN.docx

EN 16035 Hardware Performance Sheet (HPS)

TS 98 XEA

Test report no. DMT-DO-51-169

Building hardware identification

Manufacturer: dormakaba Deutschland GmbH, DORMA Platz 1, 58256 Ennepetal

Manufacturer's product reference: TS 98 XEA EN 1-6

Type of building hardware: controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 1-6 | 1 | 1 | 1 | 4

Main dimensions [mm]: 327x59x60

Remarks: --

Test evidence

Material of door set: timber

Mounting of building hardware: surface mounted

Type of door set: hinged, single leaf door set

Door opening direction: into the oven

Isolation: insulated

Door tested: latched

Performance level(s)

Performance: durability of selfclosing

Test method: EN 1191

Date: 24.10.2017

Test report issued by: DMT Lathen

Classification: 200 000 cycles

Width of primary leaf: 1110mm

Width of secondary leaf: --

Door leaf height: 2110mm

Door thickness: 39mm

Mass of primary leaf: 65Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

20191212_HPS_TS_98_XEA_EN_1-6_EN.docx