

# EN 16035 Hardware Performance Sheet (HPS)

## TS 93

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	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		
														I1	I2	≥ 30	≥ 60	≥ 90	≥ 30	≥ 60	≥ 90			≥ 240	
DMT-DO-50-337		x			x		x		x			x													
DMT-DO-50-337		x			x		x		x		x														
DMT-DO-50-233	x				x		x		x		x														
DMT-DO-50-233	x				x		x		x		x														
DMT-DO-50-095-002	x				x		x		x		x														
DMT-DO-50-095-002	x				x		x		x		x														
9012539 000/RE/EI		x				x	x		x		x														
210004984-1			x		x		x		x		x														
26531033			x		x		x		x		x														
151816	x				x			x	x			x													
251 31090/12		x			x		x																		1 000 000

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. DMT-DO-50-337, EN 1634-1, steel, single leaf, insulated, latched**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: steel

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

Type of door set: Hinged, single leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 11.11.2016

Test report issued by: DMT

Classification: EI 2 72min.

Width of primary leaf: 1250mm

Width of secondary leaf: --

Door leaf height: 2212mm

Door thickness: 70mm

Mass of primary leaf: 250Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

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**Test report no. DMT-DO-50-337, EN 1634-1, steel, single leaf, insulated, latched**

## **Building hardware identification**

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Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: steel

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

Type of door set: Hinged, single leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 11.11.2016

Test report issued by: DMT

Classification: EI 2 96min.

Width of primary leaf: 1250mm

Width of secondary leaf: --

Door leaf height: 2212mm

Door thickness: 70mm

Mass of primary leaf: 250Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. DMT-DO-50-233, EN 1634-1, timber, single leaf, latched, insulated**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

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

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 30.07.2015

Test report issued by: DMT

Classification: EI 2 113min.

Width of primary leaf: 1250mm

Width of secondary leaf: --

Door leaf height: 2485mm

Door thickness: 65mm

Mass of primary leaf: 101Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. DMT-DO-50-233, EN 1634-1, timber, single leaf, insulated, latched**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 G EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

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

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 30.07.2015

Test report issued by: DMT Lathen

Classification: EI 2 110min.

Width of primary leaf: 1250mm

Width of secondary leaf: --

Door leaf height: 2485mm

Door thickness: 64,6mm

Mass of primary leaf: 101Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. DMT-DO-50-095-002, EN 1634-1, timber, single leaf, latched, insulated**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

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

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 22.08.2013

Test report issued by: DMT

Classification: EI 2 40 min.

Width of primary leaf: 959mm

Width of secondary leaf: --

Door leaf height: 2097mm

Door thickness: 50mm

Mass of primary leaf: 62Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. DMT-DO-50-095-002, EN 1634-1, timber, single leaf, latched, insulated**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

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

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 22.08.2013

Test report issued by: DMT

Classification: EI 2 37 min.

Width of primary leaf: 959mm

Width of secondary leaf: --

Door leaf height: 2097mm

Door thickness: 50mm

Mass of primary leaf: 62Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. 9012539 000/RE/EI, EN 1634-1, steel, double leaf, insulated, latched**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 G EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: steel

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

Type of door set: Hinged, double leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 21.11.2007

Test report issued by: DMT Lathen

Classification: EI 2 30 min.

Width of primary leaf: --

Width of secondary leaf: --

Door leaf height: --

Door thickness: --

Mass of primary leaf: --

Mass of secondary leaf: --

Restrictions: --



# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. 210004984-1, EN 1634-1, aluminium profile, single leaf, latched, insulated**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: aluminium profile

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

Type of door set: Hinged, single leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 19.04.2007

Test report issued by: MPA NRW

Classification: EI 2 90 min.

Width of primary leaf: 980mm

Width of secondary leaf: --

Door leaf height: 1990mm

Door thickness: 105mm

Mass of primary leaf: 119Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. 26531033, EN 1634-1, aluminium profile, single leaf, insulated, latched**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: aluminium profile

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

Type of door set: Hinged, single leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 31.03.2006

Test report issued by: ift Rosenheim

Classification: EI 2 90 min.

Width of primary leaf: --

Width of secondary leaf: --

Door leaf height: --

Door thickness: --

Mass of primary leaf: --

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. 151816, EN 1634-1, timber, single leaf, unlatched, insulated**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: timber

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

Type of door set: Hinged, double leaf door set

## **Performance level(s)**

Performance: Fire resisting and smoke control doorset

Test method: EN 1634-1

Date: 26.07.2006

Test report issued by: Warringtonfire

Classification: EI 2 58 min.

Width of primary leaf: 928mm

Width of secondary leaf: --

Door leaf height: 2036mm

Door thickness: 54mm

Mass of primary leaf: --

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --

# EN 16035 Hardware Performance Sheet (HPS)

TS 93

**Test report no. 251 31090/12, EN 1191, steel, single leaf, latched**

## **Building hardware identification**

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

Manufacturer's product reference: TS 93 B EN 2-5

Type of building hardware: Controlled door closing device

EN building hardware product standard(s): EN 1154

Classification(s): 4 | 8 | 2-5 | 1 | 1 | 1 | 4

Main dimensions [mm]: 275x53x60

Remarks: --

## **Test evidence**

Material of door set: steel

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: 01.12.2006

Test report issued by: ift Rosenheim

Classification: 1 000 000 test cycles

Width of primary leaf: 1120mm

Width of secondary leaf: --

Door leaf height: 2235mm

Door thickness: 55mm

Mass of primary leaf: 112Kg

Mass of secondary leaf: --

Restrictions: --

Installation Instructions: --