HARDWARE PERFORMANCE SHEET

GEZE TS 5000

Hardware Performance Sheet (HPS)

according to DIN EN 16035:2013-03 “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 openable windows.”

Product reference:	**GEZE TS 5000 (TS 5000, TS 5000 S)**					
Manufacturer:	GEZE GmbH, Leonberg, Germany					
Type of building hardware:	Door closer with controlled closing procedure for use on fire and/or smoke protection doors or on emergency exits					
Relevant standard:	EN 1154:1996/A1:2002/AC:2006					
Coding system and classification EN 1154:	1	2	3	4	5	6
	4	8	2-6	1	1	4
Product main dimensions:	287 x 60 x 47					
Remarks:						

Test report	Year	Steel doorset EN 15269-2	Timber doorset EN 15269-3	Steel framed doorset EN 15269-5	Alu framed doorset EN 15269-5	Single leaf doorset	Double leaf doorset	EN 1634-1	EN 1634-2	EN 1634-3	EN 1191	Mounting of hardware [1]	Fire side [2]	Duration of fire testing [min]
16-003262-PR01	2016	x					x	x				O	C	37
19-003614-PR01	2020		x				x	x				O	O	36
19-002056-PR01	2020		x				x	x				C	O	38
20-001954-PR01	2020	x					x	x				O	C	121
DMT-DO-50-792	2020	x					x	x				O	C	100
DMT-DO-50-793	2020	x				x		x				O	C	94
DMT-DO-50-794	2020	x				x		x				O	O	101
DMT-DO-50-794	2020	x				x		x				O	C	101
20-001958-PR01	2020	x				x					x	O	-	-

[1] C = closing side; O = opening side; M = mortice
[2] C = closing side; O = opening side

Test report number:	**16-003262-PR01**	
Test report issue date:	**24.10.2016**	
Test method:	**EN 1634-1:2014**	
Test report issued by / certification body:	**ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany**	
Material of doorset	**Steel door leaf with glass insert**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, double leaf fire resistant and smoke control door set**	
Door thickness:	**59 mm**	
Dimension of primary leaf:	**1244 mm x 2467 mm**	
Mass of primary leaf:	**115,5 kg**	
Dimension of secondary leaf:	**1244 mm x 2467 mm**	
Mass of secondary leaf:	**103 kg**	
Test setup:	**Fire exposure on opposite hinge side (closing side)**	
Hardware product variant:	**TS 5000**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**33 min**
	Fire insulation I_1	**23 min**
	Fire insulation I_2	**33 min**
	Heat radiation W	**-**
	Duration of testing	**37 min**

Test report number:	**19-003614-PR01**	
Test report issue date:	**11.03.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany**	
Material of doorset	**Timber door leaf with glass insert**	
Material of door frame:	**Timber frame**	
Setup of door set:	**Hinged, double leaf fire resistant and smoke control door set**	
Door thickness:	**56 mm**	
Dimension of primary leaf:	**1300 x 2570 mm**	
Mass of primary leaf:	**110 kg**	
Dimension of secondary leaf:	**1300 x 2570 mm**	
Mass of secondary leaf:	**115 kg**	
Test setup:	**Fire exposure on hinge side (opening side)**	
Hardware product variant:	**TS 5000 L**	
Mounting position of hardware product:	**Transom mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**35 min**
	Fire insulation I_1	**33 min**
	Fire insulation I_2	**34 min**
	Heat radiation W	**-**
	Duration of testing	**36 min**

Test report number:	**19-002056-PR01**	
Test report issue date:	**20.03.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany**	
Material of doorset	**Timber door leaf**	
Material of door frame:	**Timber frame**	
Setup of door set:	**Hinged, double leaf fire resistant and smoke control door set**	
Door thickness:	**70 mm**	
Dimension of primary leaf:	**1382,5 x 2924 mm**	
Mass of primary leaf:	**177,2 kg**	
Dimension of secondary leaf:	**1382,5 x 2924 mm**	
Mass of secondary leaf:	**182,4 kg**	
Test setup:	**Fire exposure on hinge side (opening side)**	
Hardware product variant:	**2x TS 5000 L**	
Mounting position of hardware product:	**Standard mounting position on opposite hinge side (closing side)**	
Classification according to test method:	Fire integrity E	**37 min**
	Fire insulation I_1	**37 min**
	Fire insulation I_2	**37 min**
	Heat radiation W	**-**
	Duration of testing	**38 min**

Test report number:	**20-001954-PR01**	
Test report issue date:	**08.06.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany**	
Material of doorset	**Steel door leaf**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, double leaf fire resistant and smoke control door set**	
Door thickness:	**65 mm**	
Dimension of primary leaf:	**1510 x 2485 mm**	
Mass of primary leaf:	**184 kg**	
Dimension of secondary leaf:	**522 x 2485 mm**	
Mass of secondary leaf:	**67 kg**	
Test setup:	**Fire exposure on opposite hinge side (closing side)**	
Hardware product variant:	**TS 5000 ISM**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**120 min**
	Fire insulation I_1	**33 min**
	Fire insulation I_2	**120 min**
	Heat radiation W	**-**
	Duration of testing	**121 min**

Test report number:	**DMT-DO-50-792**	
Test report issue date:	**09.06.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**DMT GmbH & Co. KG, Tremoniastraße 13, 44137 Dortmund, Germany**	
Material of doorset	**Steel door leaf with glass insert**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, double leaf fire resistant and smoke control door set**	
Door thickness:	**64 mm**	
Dimension of primary leaf:	**1228 x 2475 mm**	
Mass of primary leaf:	**170 kg**	
Dimension of secondary leaf:	**1228 x 2475 mm**	
Mass of secondary leaf:	**160 kg**	
Test setup:	**Fire exposure on opposite hinge side (closing side)**	
Hardware product variant:	**TS 5000 ISM**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**98 min**
	Fire insulation I_1	**46 min**
	Fire insulation I_2	**94 min**
	Heat radiation W	**98 min**
	Duration of testing	**100 min**

Test report number:	**DMT-DO-50-793**	
Test report issue date:	**09.06.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**DMT GmbH & Co. KG, Tremoniastraße 13, 44137 Dortmund, Germany**	
Material of doorset	**Steel door leaf**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, single leaf fire resistant and smoke control door set**	
Door thickness:	**64 mm**	
Dimension of primary leaf:	**1264 x 2249 mm**	
Mass of primary leaf:	**193,9 kg**	
Dimension of secondary leaf:	**-**	
Mass of secondary leaf:	**-**	
Test setup:	**Fire exposure on opposite hinge side (closing side)**	
Hardware product variant:	**TS 5000**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**94 min**
	Fire insulation I_1	**39 min**
	Fire insulation I_2	**94 min**
	Heat radiation W	**94 min**
	Duration of testing	**94 min**

Test report number:	**DMT-DO-50-794**	
Test report issue date:	**09.06.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**DMT GmbH & Co. KG, Tremoniastraße 13, 44137 Dortmund, Germany**	
Material of doorset	**Steel door leaf**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, single leaf fire resistant and smoke control door set**	
Door thickness:	**64 mm**	
Dimension of primary leaf:	**1337 x 2475 mm**	
Mass of primary leaf:	**215 kg**	
Dimension of secondary leaf:	**-**	
Mass of secondary leaf:	**-**	
Test setup:	**Fire exposure on hinge side (opening side)**	
Hardware product variant:	**TS 5000**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**80 min**
	Fire insulation I_1	**33 min**
	Fire insulation I_2	**66 min**
	Heat radiation W	**80 min**
	Duration of testing	**101 min**

Test report number:	**DMT-DO-50-794**	
Test report issue date:	**09.06.2020**	
Test method:	**EN 1634-1:2014+A1:2018**	
Test report issued by / certification body:	**DMT GmbH & Co. KG, Tremoniastraße 13, 44137 Dortmund, Germany**	
Material of doorset	**Steel door leaf**	
Material of door frame:	**Steel frame**	
Setup of door set:	**Hinged, single leaf fire resistant and smoke control door set**	
Door thickness:	**64 mm**	
Dimension of primary leaf:	**1337 x 2475 mm**	
Mass of primary leaf:	**214,3 kg**	
Dimension of secondary leaf:	**-**	
Mass of secondary leaf:	**-**	
Test setup:	**Fire exposure on opposite hinge side (closing side)**	
Hardware product variant:	**TS 5000**	
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**	
Classification according to test method:	Fire integrity E	**101 min**
	Fire insulation I_1	**53 min**
	Fire insulation I_2	**101 min**
	Heat radiation W	**101 min**
	Duration of testing	**101 min**

Test report number:	**20-001958-PR01**
Test report issue date:	**30.06.2020**
Test method:	**EN 1191:2013-04**
Test report issued by / certification body:	**ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany**
Material of doorset	**Steel door leaf**
Material of door frame:	**Steel frame**
Setup of door set:	**Hinged, single leaf fire resistant and smoke control door set**
Door thickness:	**-**
Dimension of primary leaf:	**1311 x 2485 mm**
Mass of primary leaf:	**190 kg**
Dimension of secondary leaf:	**-**
Mass of secondary leaf:	**-**
Test setup:	**Durability of self-closing**
Hardware product variant:	**TS 5000**
Mounting position of hardware product:	**Standard mounting position on hinge side (opening side)**
Classification according to test method:	**Primary leaf – C5 – (200.000 cycles)**

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GEZE stands for innovation, high quality and comprehensive support of building technologies. From the initial idea, planning and operational implementation with standard products to customised system solutions and individual service and maintenance plans. We offer an extensive product range of door, window and safety technology products and are a major driving force behind the digital networking of building automation.

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