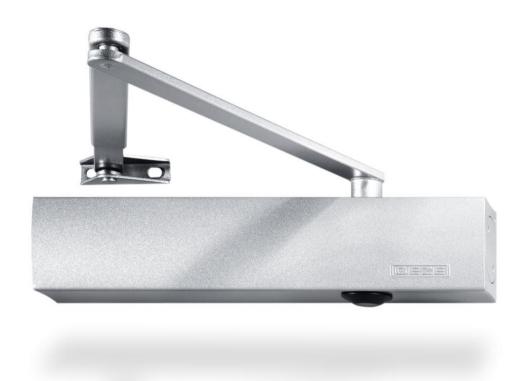
HARDWARE PERFORMANCE SHEET

GEZE TS 4000





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 4000**

(TS 4000 EN 1-6, TS 4000 EN 5-7, TS 4000 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	6		
Coding system and	1	2	3	4	5	6
classification EN 1154:	4	8	1-6/5-7	1	1	4
Product main dimensions:	287 x 60	x 47				

Remarks:

Testreport	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]
903 1663 000/Bg	2016	х					Х	Х				С	С	92
DMT-DO-50-791	2020	х					Х	х				0	0	101
DMT-DO-50-793	2020	х				х		х				0	0	93
20-001953-PR01	2020	х					Х	х				0	С	113
20-001957-PR01	2020	х					Х				Х	0	-	-

 $^{^{1}}$ C = closing side; O = opening side; M = mortice 2 C = closing side; O = opening side



Test report number:	903 1663 000/Bg				
Test report issue date:	01.07.2016				
Test method:	EN 1634-1:2014				
Test report issued by / certification body:	MPA Universität St Germany	uttgart, Postfach 801140, 70511 Stuttgart,			
Material of doorset	Steel door leaf				
Material of door frame:	Steel frame				
Setup of door set:	Hinged, double lea	f fire resistant and smoke control door set			
Door thickness:	63 mm				
Dimension of primary leaf:	1030 x 2120 mm				
Mass of primary leaf:	108 kg				
Dimension of secondary leaf:	970 x 2120 mm				
Mass of secondary leaf:	107 kg				
Test setup:	Fire exposure on o	pposite hinge side (closing side)			
Hardware product variant:	TS 4000 on passive	e leaf			
Mounting position of hardware product:	Transom mounting side)	g position on opposite hinge side (closing			
Classification according to	Fire integrity E	92 min			
test method:	Fire insulation I ₁	-			
	Fire insulation I ₂	74 min			
	Heat radiation W	-			
	Duration of testing	92 min			



Test report number:	DMT-DO-50-791					
Test report issue date:	09.06.2020					
Test method:	EN 1634-1:2014-03					
Test report issued by / certification body:	DMT GmbH & Co. K Germany	G, Tremoniastraße 13, 44137 Dortmund,				
Material of doorset	Steel door leaf					
Material of door frame:	Steel frame					
Setup of door set:	Hinged, double lea	f fire resistant and smoke control door set				
Door thickness:	65 mm					
Dimension of primary leaf:	1228 x 2475					
Mass of primary leaf:	182 kg					
Dimension of secondary leaf:	1228 x 2475					
Mass of secondary leaf:	192 kg					
Test setup:	Fire exposure on h	inge side (opening side)				
Hardware product variant:	TS 4000 EN 7					
Mounting position of hardware product:	Standard mounting	position on hinge side (opening side)				
Classification according to test method:	Fire integrity E	101 min				
เฮรเ เทยแบน.	Fire insulation I ₁	28 min				
	Fire insulation I ₂	95 min				
	Heat radiation W	101 min				
	Duration of testing	101 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				
Door thickness:	64 mm					
Dimension of primary leaf:	1264 x 2249 mm					
Mass of primary leaf:	193,4 kg					
Dimension of secondary leaf:	-					
Mass of secondary leaf:	-					
Test setup:	Fire exposure on h	inge side (opening side)				
Hardware product variant:	TS 4000					
Mounting position of hardware product:	Standard mounting	g position on hinge side (opening side)				
Classification according to	Fire integrity E	93 min				
test method:	Fire insulation I ₁	29 min				
	Fire insulation I ₂	93 min				
	Heat radiation W	93 min				



Test report number:	20-001953-PR01				
Test report issue date:	16.06.2020				
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 lea	f fire resistant and smoke control door set			
Door thickness:	65 mm				
Dimension of primary leaf:	1262 x 2487 mm				
Mass of primary leaf:	135,5 kg				
Dimension of secondary leaf:	1274 x 2487 mm				
Mass of secondary leaf:	147 kg				
Test setup:	Fire exposure on h	inge side (opening side)			
Hardware product variant:	TS 4000				
Mounting position of hardware product:	Transom mounting side)	position on opposite hinge side (closing			
Classification according to test method:	Fire integrity E	112 min			
test method:	Fire insulation I ₁	26 min			
	Fire insulation I ₂	112 min			
	Heat radiation W	-			
	Duration of testing	113 min			



Test report number:	20-001957-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, double leaf fire resistant and smoke control door set
Door thickness:	-
Dimension of primary leaf:	1512 x 2487 mm
Mass of primary leaf:	185 kg
Dimension of secondary leaf:	1514 x 2487 mm
Mass of secondary leaf:	186 kg
Test setup:	Durability of self-closing
Hardware product variant:	TS 4000
Mounting position of hardware product:	Standard mounting position on hinge side (opening side)
Classification according to test method:	Primary leaf – C5 – (200.000 cycles)
เธอเ เทษแทบน.	Secondary leaf – C4 – (100.000 cycles)



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For liveable buildings

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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