

HARDWARE PERFORMANCE SHEET

# GEZE Boxer 2-4, 3-6



# 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:	<b>GEZE Boxer size 2-4 / 3-6</b>					
Manufacturer:	GEZE GmbH, Leonberg, Germany					
Type of building hardware:	Integrated / concealed 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
	3	8	2-4 / 3-6	1	1	4
Product main dimensions:	240 x 45 x 32 / 250 x 54 x 40					

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 <sup>1</sup>	Fire side <sup>2</sup>	Duration of fire testing [min]
YP 1487-1E-RA	2016				x		x	x				M	C	73
20-001955-PR01	2020	x				x		x				M	O	104
320040101-1	2020	x					x	x				M	O	37
20-004274-PR01	2021		x			X		X				M	C	37

<sup>1</sup> C = closing side; O = opening side; M = mortice

<sup>2</sup> C = closing side; O = opening side

Test report number:	<b>YP 1487-1E-RA</b>	
Test report issue date:	<b>25.01.2016</b>	
Test method:	<b>EN 1634-1:2014</b>	
Test report issued by / certification body:	<b>peutz bv, postbus 66, 6585 zh mook, Netherland</b>	
Material of doorset	<b>Aluminium frame with glass</b>	
Material of door frame:	<b>Metal frame</b>	
Setup of door set:	<b>Hinged, double leaf fire resistant door set</b>	
Door thickness:	<b>Glass: 14 mm</b>	
Dimension of primary leaf:	<b>1376x2450 mm; Glass: 1222x2318 mm</b>	
Mass of primary leaf:		
Dimension of secondary leaf:	<b>1076x2450 mm; Glass: 922x2318 mm</b>	
Mass of secondary leaf:		
Test setup:	<b>Fire exposure on opposite hinge side (closing side)</b>	
Hardware product variant:	<b>GEZE Boxer 2-4</b>	
Mounting position of hardware product:	<b>Mortice mounting in door leaf</b>	
Classification according to test method:	Fire integrity E	<b>71 min</b>
	Fire insulation I <sub>1</sub>	<b>71 min</b>
	Fire insulation I <sub>2</sub>	<b>71 min</b>
	Heat radiation W	<b>70 min</b>
	Duration of testing	<b>73 min</b>

Test report number:	<b>20-001955-PR01</b>	
Test report issue date:	<b>16.06.2020</b>	
Test method:	<b>EN 1634-1:2014</b>	
Test report issued by / certification body:	<b>ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany</b>	
Material of doorset	<b>Steel door leaf</b>	
Door frame	<b>Steel frame</b>	
Setup of door set	<b>Hinged, single leaf fire resistant door set</b>	
Door thickness	<b>65 mm</b>	
Dimension of primary leaf	<b>1491 x 2485 mm</b>	
Mass of primary leaf	<b>182 kg</b>	
Dimension of secondary leaf	<b>-</b>	
Mass of secondary leaf	<b>-</b>	
Test setup:	<b>Fire exposure on hinge side (opening side)</b>	
Hardware product variant:	<b>GEZE Boxer 3-6</b>	
Mounting position of hardware product:	<b>Mortice mounting in door leaf</b>	
Classification according to test method:	Fire integrity E	<b>104 min</b>
	Fire insulation I <sub>1</sub>	<b>31 min</b>
	Fire insulation I <sub>2</sub>	<b>104 min</b>
	Heat radiation W	<b>-</b>
	Duration of testing	<b>107 min</b>

Test report number:	<b>320040101-1</b>	
Test report issue date:	<b>28.07.2020</b>	
Test method:	<b>EN 1634-1:2014</b>	
Test report issued by / certification body:	<b>IBS, Petzoldstraße 45, 4020 Linz, Austria</b>	
Material of doorset	<b>Steel door leaf</b>	
Material of door frame:	<b>Steel frame</b>	
Setup of door set:	<b>Hinged, double leaf fire resistant and smoke control door set</b>	
Door thickness:	<b>64 mm</b>	
Dimension of primary leaf:	<b>1228 x 2475 mm</b>	
Mass of primary leaf:	<b>94,8 kg</b>	
Dimension of secondary leaf:	<b>1228 x 2475 mm</b>	
Mass of secondary leaf:	<b>104,6 kg</b>	
Test setup:	<b>Fire exposure on hinge side (closing side)</b>	
Hardware product variant:	<b>GEZE Boxer 3-6 on passive leaf (secondary leaf)</b>	
Mounting position of hardware product:	<b>Mortice mounting in door leaf</b>	
Classification according to test method:	Fire integrity E	<b>37 min</b>
	Fire insulation I <sub>1</sub>	<b>21 min</b>
	Fire insulation I <sub>2</sub>	<b>37 min</b>
	Heat radiation W	<b>-</b>
	Duration of testing	<b>37 min</b>

Test report number:	<b>20-004274-PR01</b>	
Test report issue date:	<b>05.02.2021</b>	
Test method:	<b>EN 1634-1:2014</b>	
Test report issued by / certification body:	<b>ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026 Rosenheim, Germany</b>	
Material of doorset	<b>Timber door leaf</b>	
Material of door frame:	<b>Timber frame</b>	
Setup of door set:	<b>Hinged, single leaf fire resistant door set</b>	
Door thickness:	<b>79 mm</b>	
Dimension of primary leaf:	<b>1306 x 2774 mm</b>	
Mass of primary leaf:	<b>140,6 kg</b>	
Dimension of secondary leaf:		
Mass of secondary leaf:		
Test setup:	<b>Fire exposure on opposite hinge side (closing side)</b>	
Hardware product variant:	<b>GEZE Boxer 3-6</b>	
Mounting position of hardware product:	<b>Mortice mounting in door leaf</b>	
Classification according to test method:	Fire integrity E	<b>37 min</b>
	Fire insulation I <sub>1</sub>	<b>21 min</b>
	Fire insulation I <sub>2</sub>	<b>35 min</b>
	Heat radiation W	<b>-</b>
	Duration of testing	<b>37 min</b>

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