

## HARDWARE PERFORMANCE SHEET

# GEZE Powerturn F



# 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: **Powerturn F / GEZE Powerturn F/R / Powerturn F/R-IS / Powerturn F-IS/TS / Powerturn F/R-IS/TS**

Manufacturer: GEZE GmbH, Leonberg, Germany

Type of building hardware: Power operated pedestrian swing door drive with self-closing function

Relevant standard: EN 1158:1997/A1:2002/AC:2006, EN 16005:2013-01/AC :2015-10, DIN 18263-4:2015-04

| Coding system and classification EN 1158: | 1 | 2 | 3   | 4 | 5 | 6 |
|---|---|---|-----|---|---|---|
|   | 3 | 8 | 4-7 | 1 | 1 | 0 |

Classification EN 16005: Low energy/ full energy/ optional usage of safety sensors

Classification DIN 18263-4: EN 4-6 guide rail / EN 6-7 link arm

Product main dimensions: 70 mm x 130 mm x 720 mm Powerturn F

Remarks: -

| Test report     | Year | Steel doorset<br>EN 15269-2 | Timber doorset<br>EN 15269-3 | Steel framed doorset<br>EN 15269-5 | Alu framed doorset<br>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<br>[min] |
|-----------------|------|-----------------------------|------------------------------|------------------------------------|----------------------------------|---------------------|---------------------|-----------|-----------|-----------|---------|-----------------------------------|------------------------|-----------------------------------|
| 15-001190-PR02  | 2015 |                             |                              | x                                  |                                  |                     | x                   | x         |           |           |         | O                                 | C                      | 44                                |
| 903 1663 000/Bg | 2016 | x                           |                              |                                    |                                  |                     | x                   | x         |           |           |         | C                                 | C                      | 92                                |
| 19-003614-PR01  | 2020 |                             | x                            |                                    |                                  |                     | x                   | x         |           |           |         | O                                 | O                      | 36                                |
| 20-001956-PR01  | 2020 | x                           |                              |                                    |                                  | x                   |                     | x         |           |           |         | O                                 | C                      | 131                               |
| 20-001959-PR01  | 2020 | x                           |                              |                                    |                                  |                     | x                   |           |           |           | x       | C                                 | -                      | -                                 |

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

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

|   |   |               |
|---|---|---------------|
| Test report number:                         | <b>15-001190PR02</b>  |               |
| Test report issue date:                     | <b>03.08.2015</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>Stainless steel profile 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>60 mm</b>  |               |
| Dimension of primary leaf:                  | <b>1250 x 2622 mm</b>   |               |
| Mass of primary leaf:                       | <b>160,6 kg</b>   |               |
| Dimension of secondary leaf:                | <b>1250 x 2622 mm</b>   |               |
| Mass of secondary leaf:                     | <b>162,8 kg</b>   |               |
| Test setup:                                 | <b>Fire exposure on opposite hinge side (closing side)</b>                    |               |
| Hardware product variant:                   | <b>Powerturn F/R-IS</b>   |               |
| Mounting position of hardware product:      | <b>Transom mounting position on hinge side (opening side)</b>                 |               |
| Classification according to test method:    | Fire integrity E  | <b>43 min</b> |
|   | Fire insulation I <sub>1</sub>  | <b>27 min</b> |
|   | Fire insulation I <sub>2</sub>  | <b>30 min</b> |
|   | Heat radiation W  | <b>-</b>      |
|   | Duration of testing   | <b>44 min</b> |

|   |   |               |
|---|---|---------------|
| Test report number:                         | <b>903 1663 000/Bg</b>  |               |
| Test report issue date:                     | <b>01.07.2016</b>   |               |
| Test method:                                | <b>EN 1634-1:2014</b>   |               |
| Test report issued by / certification body: | <b>MPA Universität Stuttgart, Postfach 801140, 70511 Stuttgart, Germany</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>63 mm</b>  |               |
| Dimension of primary leaf:                  | <b>1030 x 2120 mm</b>   |               |
| Mass of primary leaf:                       | <b>108 kg</b>   |               |
| Dimension of secondary leaf:                | <b>970 x 2120 mm</b>  |               |
| Mass of secondary leaf:                     | <b>107 kg</b>   |               |
| Test setup:                                 | <b>Fire exposure on opposite hinge side (closing side)</b>                  |               |
| Hardware product variant:                   | <b>Powerturn F/R-IS/TS</b>  |               |
| Mounting position of hardware product:      | <b>Transom mounting position on opposite hinge side (closing side)</b>      |               |
| Classification according to test method:    | Fire integrity E  | <b>92 min</b> |
|   | Fire insulation I <sub>1</sub>  | -             |
|   | Fire insulation I <sub>2</sub>  | <b>74 min</b> |
|   | Heat radiation W  | -             |
|   | Duration of testing   | <b>92 min</b> |

|   |   |               |
|---|---|---------------|
| Test report number:                         | <b>19-003614-PR01</b>   |               |
| Test report issue date:                     | <b>11.03.2020</b>   |               |
| Test method:                                | <b>EN 1634-1:2014+A1:2018</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 with glass insert</b>                                     |               |
| Material of door frame:                     | <b>Timber frame</b>   |               |
| Setup of door set:                          | <b>Hinged, double leaf fire resistant and smoke control door set</b>          |               |
| Door thickness:                             | <b>56 mm</b>  |               |
| Dimension of primary leaf:                  | <b>1300 x 2750 mm</b>   |               |
| Mass of primary leaf:                       | <b>110 kg</b>   |               |
| Dimension of secondary leaf:                | <b>1300 x 2750 mm</b>   |               |
| Mass of secondary leaf:                     | <b>115 kg</b>   |               |
| Test setup:                                 | <b>Fire exposure on hinge side (opening side)</b>                             |               |
| Hardware product variant:                   | <b>Powerturn F/R-IS/TS</b>  |               |
| Mounting position of hardware product:      | <b>Transom mounting position on hinge side (opening side)</b>                 |               |
| Classification according to test method:    | Fire integrity E  | <b>35 min</b> |
|   | Fire insulation I <sub>1</sub>  | <b>33 min</b> |
|   | Fire insulation I <sub>2</sub>  | <b>34 min</b> |
|   | Heat radiation W  | <b>-</b>      |
|   | Duration of testing   | <b>36 min</b> |

|  |   |                |
|--|---|----------------|
| Test report number:                            | <b>20-001956-PR01</b>   |                |
| Test report issue date:                        | <b>25.06.2020</b>   |                |
| Test method:                                   | <b>EN 1634-1:2014+A1:2018</b>   |                |
| Test report issued by /<br>certification body: | <b>ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026<br/>Rosenheim, Germany</b> |                |
| Material of doorset:                           | <b>Steel door leaf</b>  |                |
| Material of door frame:                        | <b>Steel frame</b>  |                |
| Setup of door set:                             | <b>Hinged, single leaf fire resistant and smoke control door set</b>              |                |
| Door thickness:                                | <b>65 mm</b>  |                |
| Dimension of primary leaf:                     | <b>1300 x 2750 mm</b>   |                |
| Mass of primary leaf:                          | <b>146,5 kg</b>   |                |
| Dimension of secondary leaf:                   | <b>-</b>  |                |
| Mass of secondary leaf:                        | <b>-</b>  |                |
| Test setup:                                    | <b>Fire exposure on opposite hinge side (closing side)</b>                        |                |
| Hardware product variant:                      | <b>Powerturn F/R</b>  |                |
| Mounting position of<br>hardware product:      | <b>Transom mounting position on hinge side (opening side)</b>                     |                |
| Classification according to<br>test method:    | Fire integrity E  | <b>130 min</b> |
|  | Fire insulation I <sub>1</sub>  | <b>51 min</b>  |
|  | Fire insulation I <sub>2</sub>  | <b>126 min</b> |
|  | Heat radiation W  | <b>-</b>       |
|  | Duration of testing   | <b>131 min</b> |

|  |  |
|--|--|
| Test report number:                            | <b>20-001959-PR01</b>  |
| Test report issue date:                        | <b>30.06.2020</b>  |
| Test method:                                   | <b>EN 1191:2013-04</b>   |
| Test report issued by /<br>certification body: | <b>ift Rosenheim GmbH, Theodor-Gietl-Straße 7-9, 83026<br/>Rosenheim, Germany</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>-</b>   |
| Dimension of primary leaf:                     | <b>1262 x 2487 mm</b>  |
| Mass of primary leaf:                          | <b>147 kg</b>  |
| Dimension of secondary leaf:                   | <b>1274 x 2487 mm</b>  |
| Mass of secondary leaf:                        | <b>152,5 kg</b>  |
| Test setup:                                    | <b>Durability of self-closing</b>  |
| Hardware product variant:                      | <b>Powerturn F/R-IS</b>  |
| Mounting position of<br>hardware product:      | <b>Transom mounting position on opposite hinge side (closing<br/>side)</b>                   |
| Classification according to<br>test method:    | <b>Primary leaf – C5 – (200.000 cycles)</b><br><b>Secondary leaf – C5 – (200.000 cycles)</b> |

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