

# Environmental Product Declaration (EPD)

Short version

Declaration code: EPD-FTO-0.7.1



TORTEC  
Brandschutztor  
GmbH

## Doors

# Sliding steel and stainless steel doors FST



**Basis:**

DIN EN ISO 14025  
EN15804

Company-EPD  
Environmental  
Product Declaration

Date of issue:  
14.12.2017

next revision:  
14.12.2022





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Short version



Declaration code: EPD-FTO-0.7.1

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<b>Declaration holder</b>	TORTEC Brandschutztor GmbH Imling 10 A-4902 Wolfsegg		
<b>Declaration code</b>	EPD-FTO-0.7.1		
<b>Designation of the declared product</b>	Sliding steel and stainless steel doors FST		
<b>scope</b>	TORTEC fire- and smoke protection sliding doors for internal and external use as a shutter for room and building openings for industrial, commercial or residential applications.		
<b>basis</b>	This EPD was prepared on the basis of EN ISO 14025:2011 and EN 15804:2012+A1:2013. In addition the "General guideline for elaboration of type III environmental product declarations" applies. This Declaration is based on the PCR Document „Türen und Tore“ – PCR-TT-1.1:2013		
<b>validity</b>	Date of issue: 14.12.2017	Last revision 14.12.2017	Next revision: 14.12.2022
	This verified company Environmental Product Declaration applies solely to the specified products and is valid for a period of 5 years from the date of issue according to EN 15804.		
<b>LCA basis</b>	The LCA was prepared in accordance with EN ISO 14040 and EN ISO 14044. The base data include both data collected at TORTEC Brandschutztor GmbH and generic data from the "GaBi 6" database. LCA calculations were based on the "cradle to gate with options" life cycle (e.g. raw materials production).		
<b>Notes on publication</b>	The "Conditions and Guidance on the Use of ift Test Documents" apply. The declaration holder assumes full liability for the underlying data, certificates and verifications.		
			
Prof. Ulrich Sieberath Director of institute	Florian Stich External Verifier		

Note: Additional information can be found in the long version.



Product group: Doors

Results per m <sup>2</sup> Sliding steel and stainless steel doors FST T30-1/ T30-1 GT (part 1 of 2)																
Environmental impacts	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global warming potential (GWP)	kg CO <sub>2</sub> -Äqv.	99,6	0,357	15	-	2,09E-03	11,2	-	-	54	-	0,64	0,253	0,0616	0,44	-45,1
Ozone depletion potential (ODP)	kg R11-Äqv.	1,55E-08	1,18E-13	4,98E-13	-	2,46E-15	4,26E-11	-	-	2,40E-09	-	2,84E-11	8,37E-14	2,74E-12	3,03E-13	-3,20E-10
Acidification potential of soil and water (AP)	kg SO <sub>2</sub> -Äqv.	0,443	0,00151	1,37E-03	-	2,31E-06	0,0524	-	-	0,154	-	1,83E-03	1,47E-03	1,76E-04	1,76E-03	-0,15
Eutrophication potential (EP)	kg PO <sub>4</sub> <sup>3-</sup> -Äqv.	0,0428	3,76E-04	3,00E-04	-	1,04E-06	4,57E-03	-	-	0,014	-	1,65E-04	3,74E-04	1,59E-05	2,40E-04	-0,0131
Photochemical ozone creation potential (POCP)	kg C <sub>2</sub> H <sub>4</sub> -Äqv.	0,0504	-5,56E-04	1,15E-04	-	1,96E-07	4,86E-03	-	-	9,85E-03	-	1,17E-04	-6,53E-04	1,12E-05	1,38E-04	-0,0205
Abiotic depletion potential - non-fossil resources (ADP - elements)	kg Sb-Äqv.	2,96E-04	2,83E-08	1,76E-07	-	3,89E-10	4,69E-05	-	-	2,07E-05	-	2,45E-07	2,00E-08	2,36E-08	1,06E-07	-1,84E-06
Abiotic depletion potential - fossil resources (ADP – fossil fuels.)	MJ	1,37E+03	4,86	2,72	-	0,0122	142	-	-	576	-	6,83	3,44	0,658	3,83	-529
Use of resources	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable primary energy - excluding renewable primary energy resources used as raw materials	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of renewable primary energy resources used as raw materials (material use)	MJ	2,64	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Total use of renewable primary energy resources (primary energy and renewable primary energy resources used as raw materials) (energy + material use)	MJ	369	0,245	0,568	-	8,65E-04	16,5	-	-	323	-	3,83	0,173	0,369	0,464	-36,5
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials.	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of non-renewable primary energy resources used as raw materials (material use)	MJ	1,32	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Total use of non-renewable primary energy resources (primary energy and non-renewable primary energy resources used as raw materials) (energy + material use)	MJ	1,42E+03	4,88	3,03	-	0,0128	147	-	-	947	-	11,2	3,46	1,08	3,97	-553
Use of secondary materials	kg	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0



Product group: Doors

Results per m <sup>2</sup> Sliding steel and stainless steel doors FST T30-1/ T30-1 GT (part 2 of 2)																
Use of resources	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable secondary fuels	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of non-renewable secondary fuels	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of net fresh water	m <sup>3</sup>	165	0,0202	0,308	-	5,59E-03	5,12	-	-	246	-	2,91	0,0143	0,28	0,219	-20,9
Waste categories	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	4,03E-03	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Non-hazardous waste disposed (municipal waste)	kg	515	0,0176	0,658	-	2,72E-03	51,8	-	-	233	-	5,35	0,0125	16	19	-238
Radioactive waste	kg	0,0193	6,66E-06	1,22E-04	-	2,31E-07	1,99E-03	-	-	0,147	-	1,75E-03	4,71E-06	1,68E-04	5,47E-05	-9,59E-03
Output material flows	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Materials for recycling	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Materials for energy recovery	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Exported energy (electricity)	MJ	0	0	0	-	0	0	-	-	0	-		0	0	-0,266	0
Exported energy (thermal energy)	MJ	0	0	0	-	0	0	-	-	0	-		0	0	-0,644	0



Product group: Doors

Results per m <sup>2</sup> sliding steel and stainless steel doors T90-1 (part 1 of 2)																
Environmental impacts	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global warming potential (GWP)	kg CO <sub>2</sub> -Äqv.	96,4	0,497	15	-	2,09E-03	8,38	-	-	54	-	0,928	0,367	0,0616	0,266	-50,9
Ozone depletion potential (ODP)	kg R11-Äqv.	1,54E-08	1,64E-13	4,99E-13	-	2,46E-15	3,68E-11	-	-	2,40E-09	-	4,12E-11	1,21E-13	2,74E-12	1,26E-13	-3,23E-10
Acidification potential of soil and water (AP)	kg SO <sub>2</sub> -Äqv.	0,434	2,09E-03	1,37E-03	-	2,31E-06	0,0379	-	-	0,154	-	2,65E-03	2,14E-03	1,76E-04	7,27E-04	-0,187
Eutrophication potential (EP)	kg PO <sub>4</sub> <sup>3-</sup> -Äqv.	0,0351	5,22E-04	3,00E-04	-	1,04E-06	2,52E-03	-	-	0,014	-	2,40E-04	5,42E-04	1,59E-05	9,97E-05	-0,015
Photochemical ozone creation potential (POCP)	kg C <sub>2</sub> H <sub>4</sub> -Äqv.	0,0518	-7,73E-04	1,15E-04	-	1,96E-07	3,99E-03	-	-	9,85E-03	-	1,69E-04	-9,48E-04	1,12E-05	5,74E-05	-0,0229
Abiotic depletion potential - non-fossil resources (ADP - elements)	kg Sb-Äqv.	3,67E-05	3,93E-08	1,76E-07	-	3,89E-10	5,25E-06	-	-	2,07E-05	-	3,55E-07	2,90E-08	2,36E-08	4,44E-08	-5,07E-06
Abiotic depletion potential - fossil resources (ADP – fossil fuels.)	MJ	1,36E+03	6,76	2,73	-	0,0122	105	-	-	576	-	9,91	5	0,658	1,58	-608
Use of resources	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable primary energy - excluding renewable primary energy resources used as raw materials	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of renewable primary energy resources used as raw materials (material use)	MJ	2,17	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Total use of renewable primary energy resources (primary energy and renewable primary energy resources used as raw materials) (energy + material use)	MJ	371	0,34	0,568	-	8,65E-04	5,8	-	-	323	-	5,55	0,252	0,369	0,193	-48,3
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials.	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of non-renewable primary energy resources used as raw materials (material use)	MJ	1,32	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Total use of non-renewable primary energy resources (primary energy and non-renewable primary energy resources used as raw materials) (energy + material use)	MJ	1,40E+03	6,78	3,03	-	0,0128	108	-	-	947	-	16,3	5,01	1,08	1,64	-635
Use of secondary materials	kg	0	0	0	-	0	-	-	-	0	-	0	0	0	0	0



Product group: Doors

Results per m <sup>2</sup> sliding steel and stainless steel doors T90-1 (part 2 of 2)																
Use of resources	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable secondary fuels	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of non-renewable secondary fuels	MJ	0	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Use of net fresh water	m <sup>3</sup>	189	0,0281	0,308	-	0,00559	3,01	-	-	246	-	4,22	0,0208	0,28	0,0911	-26,8
Waste categories	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	4,03E-03	0	0	-	0	0	-	-	0	-	0	0	0	0	0
Non-hazardous waste disposed (municipal waste)	kg	521	0,0245	0,659	-	2,72E-03	42,3	-	-	233	-	4	0,0181	0,266	7,81	-249
Radioactive waste	kg	0,0141	9,26E-06	1,22E-04	-	2,31E-07	1,07E-03	-	-	0,147	-	2,53E-03	6,84E-06	1,68E-04	2,29E-05	-0,0111
Output material flows	unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Materials for recycling	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Materials for energy recovery	kg	0	0	0	-	0	0	-	-	0	-		0	0	0	0
Exported energy (electricity)	MJ	0	0	0	-	0	0	-	-	0	-		0	0	-0,266	0
Exported energy (thermal energy)	MJ	0	0	0	-	0	0	-	-	0	-		0	0	-0,644	0



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