

























# Technical specifications

Sphera SD | EC meets the requirements of EN ISO 10581

## Sphera SD

## Sphera EC

	Binder content	EN ISO 10581	type 1	type 1
	Total thickness	EN ISO 24346	2.0 mm	2.0 mm
	Surface finish		SMART control ⚡ top	SMART control ⚡ top
	Collection size		14	13
	Commercial use	EN ISO 10874	34 very heavy	34 very heavy
	Light industrial use	EN ISO 10874	43 heavy	43 heavy
	Roll width	EN ISO 24341	2 m	2 m
	Roll length	EN ISO 24341	≤ 27 m ~ 26 m	≤ 27 m ~ 26 m
	Total weight	EN ISO 23997	2.9 kg/m <sup>2</sup>	2.9 kg/m <sup>2</sup>
	Electrostatics (general requirements)	IEC 61340-5-1	Compliant	Compliant
	Electrical resistance <i>Typical value*</i>	IEC 61340-4-1 ESD STM7.1	$1 \times 10^6 \leq R \leq 10^9 \Omega$	$5 \times 10^4 \leq R \leq 10^6 \Omega^*$
	Electrical resistance in combination with ESD control footwear <i>typical value</i>	IEC 61340-4-5 ESD STM97.1	$R \leq 1 \times 10^9 \Omega$	$R \leq 3.5 \times 10^7 \Omega$
	Body voltage generation, in combination with ESD control footwear <i>Typical value</i>	IEC 61340-4-5 ESD STM97.2	< 50 V ~ 0 V <> 30 V	< 50 V ~ 0 V <> 30 V
	Electrical insulation to ground	VDE0100	≥ 50 kΩ	n.a.
	Dimensional stability <i>Typical value</i>	EN ISO 23999	≤ 0.4 % ~ 0.2 %	≤ 0.4 % ~ 0.2 %
	Residual indentation <i>Typical value</i>	EN ISO 24343-1	≤ 0.10 mm ~ 0.03 mm	≤ 0.10 mm ~ 0.03 mm
	Castor chair continuous use	ISO 4918	pass	pass
	Light fastness	EN ISO 105-B02	≥ 7	≥ 7
	Flexibility	EN ISO 24344	Ø 10 mm	Ø 10 mm
	Resistance to chemicals	EN ISO 26987	very good	very good
	Slip resistance	AS 4586:2013	R10**	R10**
	Bacteria resistance	EN 846	Does not support growth	Does not support growth
	Indoor Air Emissions: TVOC after 28 days	ISO 16516	≤ 0.01 mg/m <sup>3</sup>	≤ 0.01 mg/m <sup>3</sup>
	<b>Creating better environments</b>			
	Renewable electricity		Sphera SD is manufactured using 100% electricity from renewable sources	Sphera EC is manufactured using 100% electricity from renewable sources
			EN 14041 <b>CE</b> 0200304-DoP-003	EN 14041 <b>CE</b> 0200305-DoP-003
	Sphera SD   EC meet the requirements of EN 14041			
	Reaction to fire	AS ISO 9239-1	CRF: 10.4 kW/m <sup>2</sup> Smoke: 95%.min	CRF: 9.6 kW/m <sup>2</sup> Smoke: 63%.min
	Slip resistance	EN 13893	μ ≥ 0.30	μ ≥ 0.30
	Thermal conductivity	EN 12524	0.25 W/m-K	0.25 W/m-K
	Body voltage	EN 1815	≤ 2 kV	≤ 2 kV
	Electrical behaviour - static dissipative	EN 1081	≤ 1 x 10 <sup>9</sup> Ω	n.a.
	Electrical behaviour - conductive	EN 1081	n.a.	≤ 1 x 10 <sup>6</sup> Ω

\* Material is laboratory tested - site conditions such as substrate, humidity, temperature and installation methods MAY impact the results in relation to the lower limit of resistance.

\*\* Slip test result achieved in an independent laboratory on new sample. On-site testing is variable and may not guarantee the same result.

For sustainable slip a particle based floor must be used.

All Forbo Flooring Systems' sales organisations worldwide have a certified Quality Management System in accordance with ISO 9001.

All Forbo Flooring Systems' manufacturing operations have a certified Environmental Management System in accordance with ISO 14001.

The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental Product Declarations (EPD's) which can be found on all of our websites.



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creating better environments

FLOORING SYSTEMS