

# New EN20345:2022 Safety Standards



EN20345 - The Standard Protection for Professional Safety Footwear - has been updated to convey key safety features more accurately and comprehensively than the previous version, which dates from 2011. The updates and additions in EN20345:2022 are laid out below. It should be noted that products that indicate conformity to EN20345:2011 are still able to be sold until the expiry of their CE certificate.

## Slip Resistant

SR - The slip resistance test has been changed to one single rating of SR which is given if the sole passes a slip resistance test on a ceramic tile with glycerine. This replaces the previous SRA, SRB and SRC ratings.

## Puncture Resistance

The term 'penetration resistance' has been replaced by 'puncture resistance', which describes the underfoot protection a midsole will provide. The previous single rating of

P has been expanded and now encompasses the following symbols:

P - Midsole made from steel material; tested on a 4.5mm nail

PL - Midsole made from non-metallic material; tested on 4.5mm nail

PS - Midsole made from non-metallic material; tested on 3mm nail

## Water Resistance Levels

WPA - 'Water Penetration and Absorption' has replaced 'Water Resistant Upper' (WRU), meaning that the upper can resist water for a short period of time. WR - 'Water Resistance' has been implemented as two additional classes of protection – S6 and S7 – that denote footwear that includes a fully waterproof feature, eg. a waterproof membrane – that will ensure its waterproofness for a prolonged period.

## Further Additions

C – Partly conductive footwear

SC – Scuff cap

FO – Fuel oil resistance (no longer a mandatory test)

LG – Ladder grip



Class	Protective Toe Cap	Mandatory Slip Resistance (Similar to SRA)	Closed Seal Region (fully Enclosed Heel)	A Electrical Resistance (0.1 - 1000MΩ)	E Energy Absorption Under The Heel	Anti-Puncture Protection			WPA Water-Penetration & Absorption	Cleated Outsole	WR Water Resistance
						Type P Metallic Insole Type	Type PL Non-metallic Insole	Type PS Non-metallic Insole			
NEW	SB	✓	✓	—	—	—	—	—	—	—	—
	S1	✓	✓	✓	✓	—	—	—	—	—	—
	S1P	✓	✓	✓	✓	✓	—	—	—	—	—
	S1PL	✓	✓	✓	✓	—	✓	—	—	—	—
	SP1S	✓	✓	✓	✓	—	✓	✓	—	—	—
NEW	S2	✓	✓	✓	✓	—	—	—	✓	—	—
	S3	✓	✓	✓	✓	✓	—	—	✓	✓	—
	S3L	✓	✓	✓	✓	—	✓	—	✓	✓	—
	S3S	✓	✓	✓	✓	—	—	✓	✓	✓	—
	S4	✓	✓	✓	✓	—	—	—	✓	✓	✓
NEW	S5	✓	✓	✓	✓	✓	—	—	✓	✓	✓
	S5L	✓	✓	✓	✓	—	✓	—	✓	✓	✓
	S5S	✓	✓	✓	✓	—	—	✓	✓	✓	✓
	S6	✓	✓	✓	✓	—	—	—	✓	—	✓
	S7	✓	✓	✓	✓	✓	—	—	✓	✓	✓
	S7L	✓	✓	✓	✓	—	✓	—	✓	✓	✓
	S7S	✓	✓	✓	✓	—	—	✓	✓	✓	✓

✓ Compulsory Features Required by The Standard

— Optional Features



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