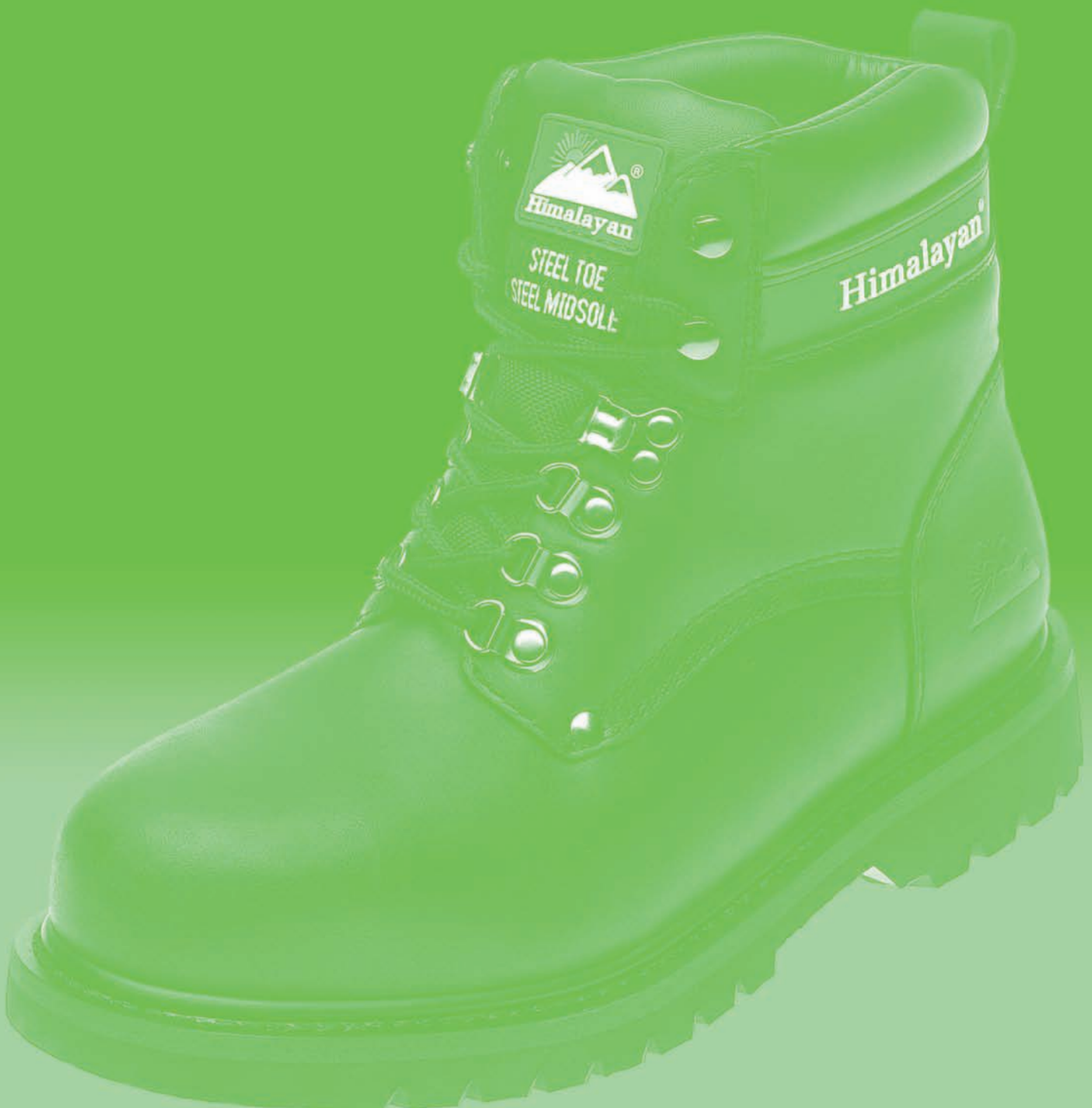
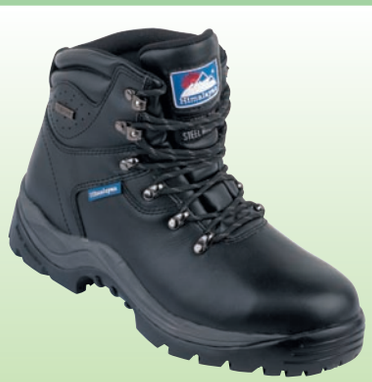
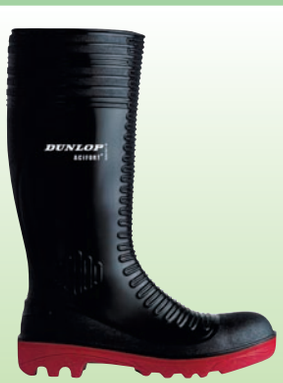
EUROSAFE

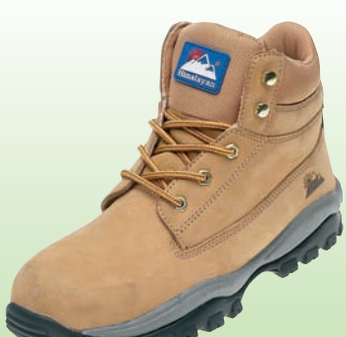


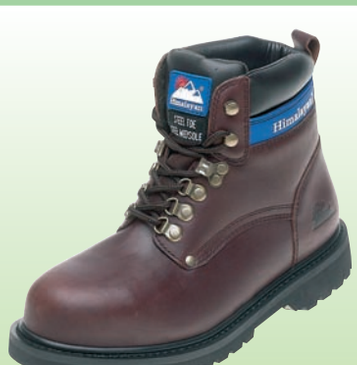
FOOTWEAR

Please see reverse of this divider for detailed product guidance provided by your EUROSAFE member









Safety Footwear protects the feet/lower leg of workers when working in hazardous environments.

Risks must be assessed to identify the appropriate protection features that are required.

Hazards include toe impact, sole penetration, slippery/oily surfaces, hot surfaces, and areas in which chemicals are used.

Footwear selection made simple

Step 1 Identify risks (chemicals, hazardous, puncture, slip, temperature, working environment, static)

Step 2 Identify footwear which offers protection from the identified risks, using the icons below as reference.

Step 3 Conduct trials from the products identified.

Step 4 If unsure, call your Eurosafe expert to clarify and help.

TOE CAPS IN JOULE | OIL RESISTANT | ACID RESISTANT | CHEMICAL & SOLVENT RESISTANT | HEAT RESISTANT | ANTI STATIC | ANTI-SLIP SOLE | WATER RESISTANT UPPER | STEEL MIDSOLE

For your benefit a size conversion of english and continental sizes is shown below.

ENGLISH	1	2	3	4	5	6	6 1/2	7	8	9	10	10 1/2	11	12	13	14	15
CONTINENTAL	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

European Standards Footwear Classification (Pre September 2005)

The principal classification of footwear is based on the level of protection offered by the footwear. The table below explains the scheme in detail.

CE EN345-1

- Safety Footwear.
- Highest protection.
- Toecaps tested to 200 joules.
- S classification.

SB	Basic safety protection. 200 joule
S1	200 joule toecap protection. Closed seat region (fully enclosed heel). Antistatic properties. Energy absorption of seat region.
S2	200 joule toecap protection. Closed seat region (fully enclosed heel). Antistatic properties. Energy absorption of seat region. Plus water penetration and water absorption resistance.
S3	200 Joule Toecap protection. Closed seat region (fully enclosed heel) Antistatic properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
S4	200 Joule Toecap protection. All rubber or all polymeric footwear with antistatic properties. Energy absorption of seat region.
S5	200 Joule Toecap protection. All rubber or all polymeric footwear with antistatic properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.

CE EN346-1

- Protective Footwear.
- Lower protection.
- Toecaps tested to 100 joules.
- P classification.

PB	Basic protection. 100 joule
P1	100 joule toecap protection. Closed seat region (fully enclosed heel). Antistatic properties. Energy absorption of seat region.
P2	100 joule toecap protection. Closed seat region (fully enclosed heel). Antistatic properties. Energy absorption of seat region. Plus water penetration and water absorption resistance.
P3	100 Joule Toecap protection. Closed seat region (fully enclosed heel) Antistatic properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.

Additional Safety Features

- Should these products offer some extra protective feature, then the appropriate symbol would be added.

P	Penetration resistance offered by a steel midsole: 1100 Newtons.
C	Conductive footwear
A	Antistatic footwear. Range 100k to 1000m
HI	Insulation against heat
CI	Insulation against cold
E	Heel energy absorption: 20 joules
WRU	Water penetration and water absorption resistant uppers
HRO	Heat resistant outsole up to 300°C
ORO	Oil resistant outsole

New Safety Standards

There is a new Safety Standard being introduced across Europe that will replace the current EN standard

EN345-1
will be replaced with
ENISO 20345-1

Please Note

All certificates issued to EN345-1 will remain valid indefinitely.

This means you will be able to continue using the footwear marked with EN345.

From September 2005 all new products must be tested and certified to the new standards ENISO 20345-1

What are the changes in the standards?

The standards are mostly identical to the old ones, but there are a few changes:

- The footwear must be assessed for ergonomics.
- Leather components must be tested for Chromium VI content.
- If the footwear has in-socks, these are tested instead or in addition to the insole.
- All upper components, including collar materials are subject to testing.
- There are also some minor changes in some of the test methods – for example, toe cap testing, impact and compression resistance samples undergo slightly different preparation prior to the test.

Overleaf are the new ENISO 20345-1 Categories

This information has been kindly given by Briggs Industrial Footwear Ltd.

For further guidance please contact your EUROSAFE Member who will be pleased to assist with product selection

STANDARDS

UNI ENISO20344-1	Requirements and test methods for safety, protective and working shoes for professional use.
UNI ENISO20345-1	Specifications for safety shoes for professional use.
UNI ENISO20346-1	Specifications for protection shoes for professional use.
UNI ENISO20347-1	Specifications for working shoes for professional use.
D.Lgs 475/92	Accomplishment of 89/868/CEE Directive.
D.Lgs 626/94	Accomplishment of directive on improvement of health and safety of workers at workplace.
Dir.89/686/CEE	Directive of the Council regarding the standardisation of legislation of Member States in the D.P.I field.
CEI EN 100015/1	Protection of electronic devices against electrostatic discharges – ESDS.

CATEGORIES

A	Anti-static footwear	**ENISO 20345-1** Footwear with toe protection against 200 J impact	**SB**	ORO
E	Energy absorption in the heel region		**S1**	A + ORO + E
ORO	Oil resistance of outer sole		**S1P**	A + ORO + E + P
P	Penetration resistance		**S2**	A + ORO + E + WRU
HRO	Heat resistance of outer sole		**S3**	A + ORO + E + WRU + P
			S4	A + ORO + E + Leakproofness
			S5	A + ORO + E + P + Leakproofness
CI	Cold insulation	**ENISO 20347-1** OCCUPATIONAL FOOTWEAR	**01**	A + ORO + E
HI	Heat insulation		**01P**	A + ORO + E + P
WR	Water resistant footwear		**02**	A + ORO + E + WRU
WRU	Water resistant upper		**03**	A + ORO + E + WRU + P
M	Foot arch protection footwear		**04**	A + ORO + E + Leakproofness
			05	A + ORO + E + P + Leakproofness

ADDITIONAL SYMBOLS	ADDITIONAL SAFETY REQUIREMENTS	EN ISO 20345-1				EN ISO 20347-1			
		SB	S1	S2	S3	01	02	03	
L	Toe cap resistant to 200 joule	X	X	X	X	–	–	–	–
ORO	Oil resistance of outer sole (hydrocarbons)	X	X	X	X	O	X	X	X
A	Anti-static footwear	O	X	X	X	O	X	X	X
E	Energy absorption in the heel region	O	X	X	X	O	X	X	X
WRU	Water resistant upper	O	–	X	X	O	–	X	X
P	Penetration resistance (steel insole)	O	O	–	X	O	O	–	X
WR	Water resistant footwear	O	–	O	O	O	–	O	O
M	Foot arch protection footwear	O	O	O	O	O	O	O	O
CI	Cold insulation (tested at -20°C)	O	O	O	O	O	O	O	O
HI	Heat insulation	O	O	O	O	O	O	O	O
HRO	Heat resistance of outer sole (at 300°C for 1 min)	O	O	O	O	O	O	O	O

X = Compulsory for the relevant category

O = Optional, applicable in addition to the compulsory requirements if marked

For further guidance please contact your EUROSAFE *Member who will be pleased to assist with product selection*