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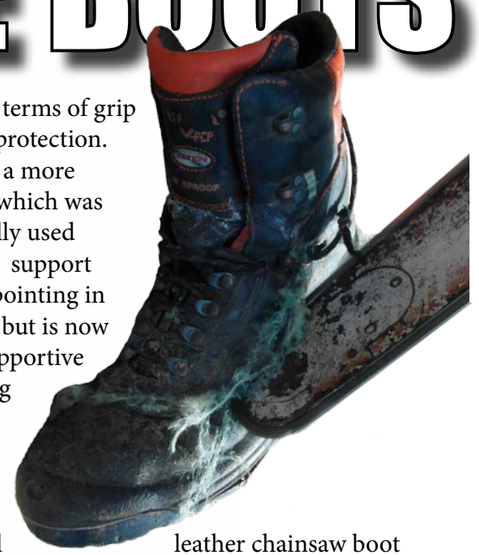
CHAINSAW PROTECTIVE BOOTS

MAIN PHOTO: gone are the days of 'any colour you like as long as it's brown'. Modern Alpine style chainsaw boots are available in some vibrant hues and having been pigeon-holed for decades as the workers in drab and orange the time has surely come to show that you're in touch with your more arty and care-free side? This particular style of boot has crossed over into forestry from mountaineering and the two pursuits can be equally demanding in northern hemisphere winters in terms of grip and cold protection. They have a more rigid sole which was traditionally used to provide support for front-pointing in crampons but is now equally supportive of climbing spikes.



ABOVE: the more traditional leather chainsaw boot can be lighter and more flexible not to mention less expensive but no matter the cost, a chainsaw protective boots should at least be able to withstand a glancing blow from a moving chain and preferably a little more than that. Some of the class 1 boots with fabulously soft leather that we tested in issue 2 have since been discontinued despite being new to the market at that time and there are now far more of these mountain-style, full-rand boots to choose from. The full rand being a very effective buffer between chain and leather and then kevlar cut-protection.

PIC LEFT: The Scafell Z3 offers perhaps the zaniest chainsaw boot colour (to order).

ABOVE: Note the optional metal grip plate or crampon nestled in front of the heel.

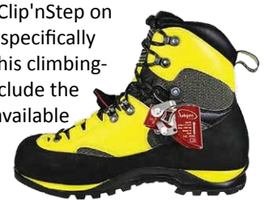
INTRODUCTION

There are four distinct sectors using chainsaw boots:

- **FORESTRY WORKERS** – primarily ground workers but may be in remote and environmentally challenging conditions.
- **ARBORISTS** which may be independent companies, local authorities or parks services and this category can be further sub-divided into 'climbers' and 'ground crew'
- **UTILITY** companies working mostly from aerial platforms or 'cherry-pickers' to clear power and/or telecom lines
- **EMERGENCY SERVICES** using chainsaws on the ground, in aerial platforms and very occasionally climbing but usually in response to a storm or environmental threat and less frequently to an extrication impact or impale.

Whichever sector you're in this is a market absolutely dominated by Italian and German manufacturers. Oddly, there are very few US models, in fact, the venerable Matterhorn from military specialists Cove Shoe Company remains one of the few US home grown boot along with Labonville's leather model and Carolina Shoe's Kevlar models intended more for fire resistance than chainsaw protection and invariably all based on a more traditional design. Canada seems to be a little more active with several models by Viking Wear and one by boot company Royer. The absence of major US brands is evident from the stocks held by US key suppliers like Tree Stuff, Wesspur and Sherrilltree who only have a handful of boots between them and these are virtually all imported from Europe. Even within Europe, what looks like a huge range of companies making boots is actually just a handful of specialist companies, some manufacturing for everyone else. Nothing wrong with that. These companies have decades of experience so if you're looking to get into the boot selling business who better to make your latest models and especially where it concerns something as difficult to protect against as a chainsaw? Stihl for instance use Steitz Secura and Arbortec, one of the most prolific modern companies uses Elten in Germany amongst others. These are all excellent boots and the features on the Alpine style boots in particular (as per the garish model on the title page) are a veritable index of specialist features with multi-layered soles, multi-layered protection, multi-layered insoles, multi-layered linings, in fact, I don't know why there isn't a boot called the 'Multi-layer'. That vivid purple boot in the titles has ball-bearing rollers on the lace up hardwear to make it easy to tighten, then it has mini locking 'cleats' to keep the lace tight while you go through that 'rabbit goes round the tree and into the hole' routine. There may also be eyes positioned to pull the heel in firmly. Either way, we don't see many simple round eyes any more. More on this later. Then there are the soles – if they were good enough for mountaineers requiring grip and durability, they're sure as hell good enough for arborists and foresters so there are many Vibram soles with self-cleaning treads and even screw-in instep crampons to give you extra grip in icy weather. These kinds of features will be why you're going to pay £200/$350 for a pair of boots and the kids are going to go without the latest Play-station this year.

We've divided our arborist boots into 3 separate guides starting with the greatest chainsaw protection and ending with the increasingly popular climbing boots with no active cut-protection at all. The latter has seen a growing demand because it offers comfort, support, flexibility and grip for climbing but relatively few models to choose from at the moment; you will have seen the ArbPro Clip'nStep on the cover of issue 6 which was designed specifically to work with a rope ascending system. This climbing-integrated system has now evolved to include the Cervino Wood Quick Step from ArbPro, available as a climbing boot in Yellow or a class 3 protective boot in grey with mounting brackets for a foot ascender as well as a web loop on the laces for attaching an ascender rig. But pure lightweight climbing boots will also continue to evolve. Drayer's Tango VI climbing boot amongst others, pre-dates the Clip'nStep and by the time we get to publication date for that particular guide we fully expect the available dedicated arborist climbing boots to have increased. We say 'dedicated' because there are a huge number of primarily three-season sport climbing boots that could be utilised for tree climbing and indeed that is where many of these have originated.



No such problems with chainsaw protective boots – if it's intended to resist the attentions of a sharp chain, whether intended for arborists, foresters or firefighters, it's a boot we have included:

- **This issue: Chainsaw Protective Class 1,2 & 3 pt1**
- **Issue 9: Chainsaw Protective Class 1,2 &3 pt2**
- **Issue 10: Climbing (no chainsaw protection)**
- **Issue 11: Wellington Style chainsaw boots**

Wellingtons often meet class 3 and have their own guide but they are a ground boot rather than for climbing even though there are some die-hards who swear by them. 'Die-hard' could be a most appropriate term for anyone climbing in wellies? Wellies aren't necessarily rubber. Firefighter wellies like the Jolly Fire Profi Evo are full spec leather. This is also the only style of boot where we've seen the unicorn of chainsaw classes – the class 4 boot. We say unicorn, not because it's mythical (and pink) but because it was a short-lived part of the cut-resistance classifications that now runs from 1 to 3. Which is a shame because we remain frankly sceptical of the true merits of selling chainsaw boots that only withstand a glancing blow from a saw on run-out so the 34m/sec category had some merit. We'll come onto that next but before we do, a word on boot height. The higher the boot the greater the protection, both in terms of chainsaw nicks and anatomical support of the foot and lower leg. Although as far as chainsaw protection goes, most active protection only covers the top and front up to about 6-8 inches/200mm. Above that it's just the leather and lining, tongue materials and lace hardware that protect you. Active climbing boots tend to end just above the ankle to allow more flex while firefighter boots are the tallest ending mid calf. This is quite restrictive of active tree climbing but fine for ground work or aerial platforms where they invariably offer an enhanced degree of all-around protection and support.

CUT RESISTANCE

We've primarily referenced and used the European standards for cut resistance because in the USA, OSHA's rather vague statement reads:
"If the employee uses a chain saw, the footwear must be constructed with cut-resistant material that will protect against contact with a running chain saw"
it then references an ASTM test standard (F1818-13) which costs you $44 dollars to find out exactly what it is you need to comply with. I defy you to find it written anywhere exactly what US boots can deal with in terms of cut-protection without paying that $44. for a copy of the standard. It shouldn't be that difficult. Consequently US companies tend to reference the CE cut classes as well.

ALL chainsaw boots are general safety boots first so they all meet CE 20345 for general safety boots and EN15090 in the case of a box in the 'Firefighting' column. It's the specific application of chainsaw protective material that sets them apart and gives them CE ISO 17249 classification. This is further divided into classes of cut resistance – the class '0' you see in catalogues really only applies to gloves and clothing. Since we've given the numeric cut-class in the tables we don't have to be quite so specific about the huge great EN codes and have simply listed 'CE' and 'KWF' or the slightly higher 'KWF Pro'. This latter is a forestry testing award by a German laboratory that some companies opt to apply to their boots. Absence of this therefore doesn't signify anything, but boots that have actually been awarded the KWF stamp are clearly fit for purpose according to a more rigorous and applicable standard than simply being a safety boot or having some level of chainsaw protection. We don't normally say this but given the dearth of high-end chainsaw protective boots in the US we would advise you looking at the European models, many of which of imported by the key arb supply companies. Haix USA however have their own models shipped over and these comply with the US ASTM test and Canada's CSA.

Chainsaw boot protection is available in three classes or levels (it was four for a while and still is if you include class 0 for gloves etc. This is virtually always printed or embossed on the side of the boot:

Class 1: 20m/sec
Class 2: 24m/sec
Class 3: 28m/sec or 63 mph
(Class 4: 34m/sec)

Many arborists value comfort and flexibility over chainsaw protection which is why pure climbing boots with no protection are gaining favour. However, many class 1 boots are lightweight and flexible like the *Stein Werewolf* are far better suited to modern climbing styles. Just don't have expectations of protection that are too high. None are intended to withstand a full speed, high power, Texas Chainsaw Massacre style attack with a chainsaw. Not even Class 3. But Class 1 will generally only withstand a glancing chain on run-out. Indeed, as our friends from Tree Stuff in Indiana rightly state in reference to certain class 1 technical boots like the Stein Werewolf: *"under the 'Recommendation for Use' document issued by the Vertical group number CNB/P/10.155a. They are to be used for Tree Climbing Operations and Restricted use by competent, trained operators who confine them to off-ground work in trees. They are NOT FOR USE WITH HANDHELD CHAINSAWS ON THE GROUND.* And before you reach for the chainmail socks it's also been said by men in white coats that every extra pound of weight in your boot is like carrying 6.4 lbs on your back such is the transference of stress. Not entirely sure about that but you get the point. Lightweight is the new black.

The most efficient chainsaw protection are boots with ballistic nylon or Kevlar fibre bundles rather than lightweight kevlar sheets but these are also the heaviest and are restricted to class 2 and 3. As previously mentioned the only class 4 we could find were of the wellington style, ironically from a new Zealand manufacturer but nowhere near Wellington.

BOOT FEATURES

UPPER MATERIALS

Leather and suede are the universal material APART from some ballistic nylon materials and the 'rubber' of wellington style boots. Another thing that is rubber is a rand, that black strip you often see encircling the boot immediately above the sole. Our tests indicated that thick leather is a great first line of defence against chainsaw intrusion and therefore thickness of leather is very important but we also found that a rand was a useful additional level of protection as well as helping to keep water out and protect the seams from wear. Usually, when it comes to any performance/professional boot we would say that 'quality' of leather is as important as its thickness but we're not so sure about that in chainsaw boots. Good quality leather is generally more supple, flexible and soft. Lovely to have next to the skin but not so good at warding off a sharp chain. It's ironic that a hard, rough, gnarly, poorly maintained leather may not keep the rain out any more but it will probably slow up a cutting chain more than a well oiled calf leather! It's also ironic that the higher quality boots will use a single piece of leather, cheaper boots generally have multiple panels using smaller sections of leather. However, these overlapping stitched panels will also present slightly better chainsaw protection simply in terms of the thickness of material that a chain has to penetrate before it hits the kevlar. Nevertheless, the newer generation of suede and full grain leather boots are a thing of beauty and something to be cherished much as they always were when introduced into mountaineering in the 80s. There are a handful of boots by Italian maestros Andrew Shoes that use a ballistic nylon upper or 'polymer' as they prefer to call it. Theirs is branded as 'Super-Fabric' and features abrasion-resistant coated fibres in a woven sheet that we also see in military footwear. Arbortec has a fabric that is actually coated in ceramic particles. Not sure if that resists a chainsaw any better than thick leather but it is lighter and more breathable.

We've shown leather thickness's for some models and these will usually be the better quality leather. Some of those listed simply as 'Leather' may also be high quality but could equally be the cheaper 'printed' leathers – you'll know the difference from the price of the boot. In terms of anatomical features, there are a wealth of neat ideas and manufacturers will give scientific sounding names and provide diagrams on their websites to explain why it is such an important feature. We'll leave you to peruse the intricacies of construction.

However, one thing to look out for is a low cut collar if you're going to be driving in your boots and a flexible achilles if you suffer in that area. These features may present as a cut-away of the actual leather and a much deeper collar or softer foam insert at the achilles that can compress as your foot bends.

INNER LININGS

The most basic leather boot and those seeking to be 'lightweight' will have no inner linings so the inner face will be 'brushed' leather making it softer than the outer leather. More technical boots have a waterproof breathable layer together with a sweat-wicking comfort layer like Andrew Shoe's *Wintherm* and Haix *Secura* (pic left) to insulate and/or keep moisture away from the foot – similar to a nappy and feels good against the skin. *Cambrelle* has long been the market leader as a facing fabric for technical membranes but some have their own lining or harder-wearing options but these generally sacrifice the comfort and performance of softer-faced fabrics. The waterproof, breathable membrane is layered between the leather or outer fabric and the protective facing fabric. Best known membranes are *GoreTex* and *Sympatex* with various subtypes but there are many other efficient membranes – there is almost certainly already one called *AquaTex* but if not, can I patent the name? *Outdry* is a more unusual 'membrane' because it is effectively a single sheet bonded to the entire inner surface of the boot stopping water penetration before it even reaches an internal sheet membrane with seams.

Boots that are waterproof when new get a solid black box in our 'Waterproof' column. If the boot is water 'resistant', it's usually because it is a simple, externally treated leather with no technical lining, this will have an outline box in the 'waterproof' column indicating that it is ***water-resistant*** rather than ***water proof*** but the true degree of water-resistance or proofing will be determined by how well you treat them.

FOOTBEDS/INSOLES

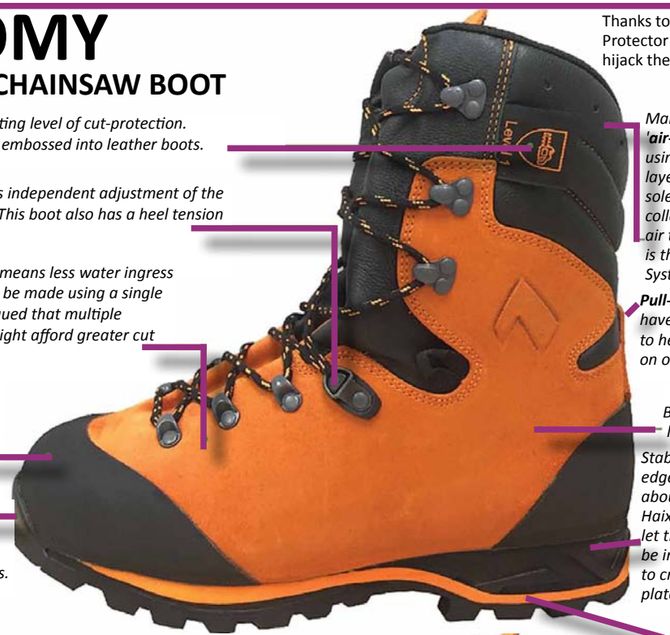
Not included in our table because they are invariably interchangeable but a vital element of any boot. The insole or footbed is that foot-shaped thing in the dark and smelly recesses that keeps riding up when you pull your sweaty foot out and tends not to stay in place once it gets a bit worn. If it's a simple flat insert then it's old-school and probably not doing very much for your foot. Much better are formed 'Memory' foams and shock absorbing materials like Sorbothane. These provide greater support by more closely imitating the shape of your foot unless you already have fallen arches in which case you might as well stick with the cheap, flat ones. Sorbothane and other shock absorbers have been around for decades and really are high performers. Arborists don't tend to be stomping great distances on hard surfaces which is when you would appreciate shock absorption more but if your boot already has this it's a bonus. If it doesn't you can easily buy technical insoles from outdoor shops and some arb suppliers and replace the rubbish your boot might have come with. Remember that sizing may be affected if you replace a flat insole with a preformed or contoured one. Indeed, if your boot is not quite the right size consider adapting the insole accordingly. The better insoles also have options like cold insulation, moisture-wicking, antibacterial or deodorising properties but this latter feature will undoubtedly be overwhelmed within minutes of coming into contact with your particular feet. Some use fleece and are washable so a couple of extra sets will keep you fresh.

MIDSOLE & INGRESS RESISITANCE

Sandwiched between the grippy outsole and the bacteria-infested insole/inner surface of the boot should be a steel, aluminium, Kevlar, composite or polypropylene/polyurethane layer to resist puncture by nails or sharp objects and to provide extra rigidity. Steel is the toughest but makes the boot quite

ANATOMY
of a MODERN CHAINSAW BOOT

Thanks to Haix and the Protector Forest for letting us hijack their cutaway diagrams



Label *indicating level of cut-protection. This is often embossed into leather boots.*

2-zone ***lacing*** *allows independent adjustment of the foot and lower leg. This boot also has a heel tension lace eye (in black).*

Minimal ***Panels****. Less stitching means less water ingress points so the top boots tend to be made using a single piece of leather. It could be argued that multiple panels using kevlar stitching might afford greater cut protection.*

Rubber ***toe bumper****. a surprisingly effective anti-cut measure as well as protecting the foot from impact and providing thermal insulation.*

A quality ***sole*** *unit like this Vibram provide traction, durability, mud-shedding and resistance to oils and chemicals.*

*Many boots have an '****air-pump****' system using foam and/or layering down to the sole and holes in the collar to allow moist air to vent. This one is the Haix Climate System.*

Pull-on tab*. Some boots have a full finger loop to help pull your boots on others a slim tab*

Breathable ***Suede*** *leather in this boot*

Stable, non-slip sole edge. Not entirely sure about this one – it's on Haix's diagram so we'll let them have it. Could be improved adherence to crampon or spike plates.

Cut protection *may be bundles of nylon fibres but in alpine-style boots will invariably be layers of Aramid. Here it is overlaying a foam layer which insulates and provides comfort beneath tightened lace eyes.*

Shock absorbing *layer (orange), normally an EVA foam or even a propriety brand like Sorbothane.*

Waterproof and breathable inner ***membrane****, in this case GoreTex, sandwiched between the leather outer and an inner facing fabric (in this Haix boot it's Secura)*

Facing *fabric should offer durability and comfort. Haix Secura also offers anti-wrinkling or anti-rucking.*

Anatomically formed replaceable footbed or ***insole****. This may transport moisture away from the foot and/or have enhanced shock absorption, deoderising and insulating properties. Can be used to make finite size adjustments.*

This Haix boot has a separate moisture wicking fleece ***insole*** *called Texon*

Heel counter*, in this case leather, creates a 'form' which provides support and protection.*

Rubber shrouded steel ***toe cap*** *is the safest option. Composite and nylon toe caps offer lighter weight and some protection from impact but not chainsaw intrusion.*

Not present in this boot but some alpine-style boots like the Z3 on the title page, retain the heel and toe lips that will take a semi-auto crampon binding.

Midsole *is the boundary between the comfort-inducing insole layers and the rugged tread of the outsole. This may be steel, plastic or composite and can provide stiffening of the boot as well as protection from being impaled by a nail or thorns*

heavy so climbers have moved more towards aluminium and Kevlar but Poly or nylon-related materials remain the commonest midsole material – sometimes in addition to the tougher materials but by itself is a more flexible and cheaper option. We may see the tactical trend towards more expensive but immensely light and tough carbon-fibre composites creeping into chainsaw boots but they're not yet in much evidence although the SIP Loggers have a Kevlar midsole so expect to see more.

LACING EYES

Don't expect a modern chainsaw boot to have a simple hole punched through the leather. It's much more likely to have mini pieces of technical hardware that are in fact, rollers or low profile hooks or are auto- locking cleats or all three. Rollers make tightening the lace much easier, hooks provide less resistance and direction, both of which are less wearing to the lace and the locking cleats or clasps provide intermediate tightening otherwise, if your laces became untied, the whole boot might flop off – not good if it falls on the customers head or through their prize greenhouse. Of course, old style punched eyes, might be more tedious but the same thing that made you curse them when trying to take your boot off in a hurry also means they tend to stay firmly on your feet even if the laces come untied.

1. Even simple eyes will mostly have a metal rivet-style liner to save wear on both the leather and your laces.
2. hooks are open, making loading of the lace much easier but they can snag on branches and bend or even snap off altogether. This example is actually a little too closed to be a simple hook and is probably more of a 'clasp' or locking hook.
3. Cleats/Clasps tend to be hooks that have been squashed down so that they pinch the lace when you load it in.
4. Eyelets can be a swivelling mini D-ring or a fixed closed loop, in effect a hook that's bent all the way over to create an in-line eye. The lace needs to be fed through and the entry or exit angle will increase friction and may make tensioning more difficult – you may have to tighten each horizontal section of lacing all the way to the top of the boot.
5. Mini rollers alleviate this so you can tension whole sections of boot simply by pulling at the top where there will hopefully be a cleat to stop it all running away from you the second you release tension.

SOLE GRIP and RIGIDITY

Climbers like flexible boots with tactile grip but may conversely appreciate rigid soles when spiking. Some trial and error will be needed to find a boot that really suits your climbing style. Ground workers in cold climates increasingly use 3-season hiking and alpine style boots for use in snow and ice and on brush that tries to skewer you in retaliation for you torturing it to death with your chainsaw. Rubber compounds provide varying degrees of grip – the grippier the boot the faster it will wear out but you can simply resole a good quality boot when the time comes. Or, if your boot came with some rubbish, own brand industrial sole that resists hydrochloric acid but couldn't grip a tree frog's face, ask your local cobbler or whatever the modern equivalent is if it can be replaced with a Vibram or Skywalk sole.

There are some very good unknown sole brands so test it out thoroughly before dismissing it.

INSULATING

this refers to the ability of the upper boot to keep your feet warm rather than the ability of the sole not to crack which is listed as 'Cold-Resist' under Sole features. The mountain orientated boots have a head start in this regard since they are designed for use in snow but others have layered foam and lining materials to keep your feet toasty. Not a problem in New Mexico and outback Australia where the simpler, lighter leather or ballistic nylon boots with a sweat-wicking layer would be preferable.

RUBBER TOE

Not necessarily part of the structure of the sole so it doesn't get into the highlighted part of the tables. This refers to an outer protective cap over the leather at the front of the boot that helps to protect from wear and tear at the most abused part of your boot. Some are a moulded extension of the sole while some are an extension of the rubber rand that runs around the entirety of the mountain-style boots in particular. One or two like the firefighter boots have thickest protection which is an armadillo style layering of the rubber.

PULL-ON AID

Nothing is likely to start the day with a grumble quite like straining to pull your rain-stiffened boots on – especially with your freshly moisturised hands slipping on the top collar. Enter the pull-on aid – either a full finger loop which is the best option or a simple flap on the back of the boot which you grip and pull.

FIREFIGHTING

Fire and chemical resistant footwear that meets firefighter standards but also has chainsaw resistance unlike most firefighter boots. Why wouldn't you? Well for one thing, they tend to be much higher than regular chainsaw boots and this isn't conducive to acrobatic climbing. Nevertheless, if you're looking for something different or are a volunteer at the local fire station you could kill two birds with one stone.

WATERPROOF

This relates to the whole boot and the uppers in particular as we would hope that every sole would be watertight. The vast majority of uppers are waterproof simply because leather is waterproof but there are degrees of.... look for higher quality leathers or specialist waterproof membranes like Sympatex and GoreTex in addition to a water resistant outer. Also look for a full wrap-around rubber rand – this not only provides excellent extra protection it seals water ingress points because all the waterproof leather in the world is no use if the seams leak. Some leathers are treated with wax or oil to maintain water resistance and this needs to be maintained to keep them in tip-top condition. However, the softer the leather the easier it will succumb to having big gouges carved out of it. A dilemma.

COLOURS

As with all of our 'GUIDES' different colour options are separated by a comma. Where is more than one colour on a boot the primary colour is listed first with a capital letter with secondary colours shown after a forward slash with all lower case lettering eg. Black/red. Some of our GUIDES show the primary colour in all upper case but when space is limited on these more complex guides we only have room for one capital! In the case of leather boots the higher quality mountain boots are invariably a coloured suede-like leather while black or brown boots may have a secondary colour that is only on the collar.

SIZING

Almost as varied as every other conversion we need to make in our Guides based on information supplied by manufacturers! There shouldn't really be any excuse for these differences because sizing is actually an exact science. But European sizing is around three quarters that of a UK/US size so you'll see some discrepancies. It's generally best to use the European sizes since these are smaller increments and the vast majority of boots are made in mainland Europe. We've listed sizing as they are quoted by manufacturers so don't blame us for some of them being out by half a size.

SOLE FEATURES

•**STEEL TOE –** Steel toe cap and by far the best protection against chainsaw intrusion and heavy weights. It does however add to weight and bulk of a boot.

•**COMP TOE –** Composite toe and is a plastic or rigid composite material that provides slightly more protection than the leather alone but virtually no protection against a cutting chain. It will help to slow it up if it's a glancing blow but anything more direct than that and your toe(s) are toast.

•**ANTI-SHOCK –** in terms of absorbing impact and protecting your joints (rather than electricity which is actually covered by an 'anti-static' rating in some boots but not shown here.

Next there are four features of the sole but there will be some quality soles from Vibram which don't tick these boxes but may actually still be superior.

•**HEAT-RESIST –** It's not so much that you will be able to walk on hot embers and impress the customers it's that rubber-like materials tend to 'decompose' and wear out far easier in higher temperatures. Heat-resistant soles are a more specialised, harder compound but be careful that this doesn't also mean that the sole is less tactile i.e. less grip.

•**COLD-RESIST –** if you're having to worry about the integrity of your boots in extreme cold you probably shouldn't be using a chainsaw aloft but maybe you're forced to leave them outside of the house because of the smell and the night temperatures are way below zero.

•**OIL/CHEMICAL RESISTANT-** We've tested these for decades and can honestly say that we have never noticed any improvement in traction when walking on an oil-covered surface. What this feature really means is that your sole will be less likely to decompose after walking through industrial fuels, chemicals and acids. It would be as well not to expose any of your rope safety equipment to such contamination though!

•**CRAMPONS –** All boots can take some kind of strap-on crampon but bear in mind that you will struggle to keep articulated crampons on a sole that is too flexible. More rigid soles can take 8/10 point crampons and alpine legends Stubai actually have a model for chainsaw boots called the Forestry Crampon. Up from this are 10 or even 12-point (front-point) auto or step-in crampons – similar to ski bindings – boots that can take these are obvious from the little 'ledge' that protrudes front and back. There aren't yet any ski-binding style tree-climbing spikes/spurs so this feature is again for approach or ground work on slippery terrain. In some cases the boot either is, or can be supplied with a little screw-on instep crampon to provide spikes for extra grip – you can see such an asset just protruding out of the instep in our title picture and in the Haix Alpin sole above there is a an oval of spikes. There are some screw-in additions like the one shown on the Pfanner Matterhorn sole above that sits on the outer heel but can be swung away into the instep when less grip is required. In the case of Treeme they've gone one step further (so to speak) and have an optional rear step-in crampon called the 'Slide-Stop' shown above which levers back from the heel instep and is a neat and very quick option for extra grip if your boot has a black box in this column. Boots that can take a step-in crampon fitting are indicated by a solid box ■. Boots that have an integral grip-plate or the option of a screw-in instep crampon have an outline box □ in the case of some like the Arbortec Scafell boot shown in the titles – they do both!

Part 2 of this Guide will be Chainsaw Boots Class1,2&3 from J to Z including, Robusta, Stihl, Rockall, Prabos, Pfanner, Stein SIPS, Lavoro, Steitz Secura,Meindl, NoRisk, Trueno, Royer, Viking and Treeme.

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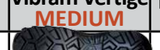
IMAGES NOT TO SCALE

	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATING	RUBBER TOE	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	 AlpenWood	ANDREW Srl			3	1180g	Ballistic Polymer	Sympatex WinTherm	Nylon	 Vibram Teton RIGID	CE	■	■			■				■			■	Blue, Grey, Burgundy	US 4-15 EU 36-49 UK 3.5-14		andrewshoes.com
	 Antelao Wood	ANDREW Srl			3	1190g	Leather Perwanger 2.8/3mm	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■							■	Black/ylw, Red/ylw, Khaki/orng	US 4-15 EU 36-49 UK 3.5-14		andrewshoes.com
	Bionica Wood	ANDREW Srl		€299	3	1290g	Leather Perwanger 2.8/3mm	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■				■	■		■	Red, Black, Khaki	US 4-15 EU 36-49 UK 3.5-14		andrewshoes.com
	 Bionica Wood Welt	ANDREW Srl			3	1390g	Leather Vacchetta 3/3.2mm	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■				■			■	Brown/ beige	US 4-15 EU 36-49 UK 3.5-14	Most robust boot in the range. Traditional sewn sole	andrewshoes.com
	Cervino Wood & Quick Step	ANDREW Srl		£229 €300	3	1150g	Perwanger Suede	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■	■		■		■		■	■		■	Grey, (non-cut protective version= Ylw)	US 9-13 EU 42-47 UK 8-12	QuickStep version has integral plate for foot ascender See also *ArbPro*	andrewshoes.com
	 Rozes Wood	ANDREW Srl			3	1080g	Ballistic Polymer	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■				■			■	Brown, Grey, Burgundy	US 4-15 EU 36-49 UK 3.5-14		andrewshoes.com
	Rozes Wood/P	ANDREW Srl			3	1090g	Leather Perwanger 2.8/3mm	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■				■			■	Red, Orange, Khaki	US 4-15 EU 36-49 UK 3.5-14		andrewshoes.com
	 Rozes Wood Welt	ANDREW Srl			3	1290g	Leather Pampas Oil 2.8/3mm	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■			■				□			■	Brown	US 4-15 EU 36-49 UK 3.5-14	Traditional sewn sole	andrewshoes.com
	Aquafell Xpert	ARBORTEC FORESTWEAR		£239	2	1350g	Leather	BreatheDry	Steel	 PU/Rubber FLEXI	CE		■	■		■	■		■	■			■	Black /orange	US 7-14 EU 39-48 UK 6-13		arbortec.com
	 Fellhunter Xpert	ARBORTEC FORESTWEAR		£279	3	1285g	Anfibio Leather	Outdry	Composite	 Vibram Vertige MEDIUM	CE, KWF		■	■		■	■		■	□	■		■	Brown	US 4-14 EU 36-48 UK 3-13		arbortec.com
		ARBORTEC FORESTWEAR		£189	2	1310g	Leather	BreatheDry	Steel	 PU FLEXI	CE		■	■		■				■			■	Black/lime	US 7-13 EU 39-47 UK 6-12	also called 'Pro' by some suppliers	arbortec.com
	 Lightning	ARBORTEC FORESTWEAR		£199	2	1185g	Leather-3mm	Arbortex	Nylon	 Rubber FLEXI	CE		■	■		■	■	■	■				■	Black	US 4-16 EU 36-50 UK 3-15	Entry level, robust boot	arbortec.com
	Profell Xpert	ARBORTEC FORESTWEAR		£269	3	1390g	Anfibio Leather	Outdry	Composite	 Vibram Vertige MEDIUM	CE, KWF		■	■			■		■	□	■		■	Black	US 4-14 EU 36-48 UK 3-13	Enhanced arch support for spiking	arbortec.com
	 Scafell Leather	ARBORTEC FORESTWEAR		£299	2	1305g	Anfibio Leather	Outdry Synth Leather	Nylon	 Vibram Vertige RIGID	CE, KWF	■	■	■			■	■	■	□	■ □		■	Brown, Black	US 4-14 EU 36-48 UK 3-13		arbortec.com

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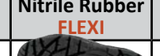
IMAGES NOT TO SCALE

	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATING	RUBBER TOE	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	 Scafell Lite	ARBORTEC FORESTWEAR		£220 €260	2	1245g	Leather	BreatheDRY BreatheDRY	Composite	 Vibram MEDIUM	CE, KWF	■	■	■		■	■	■		■			■	Lime, Blue, Black	US 6-14 EU 38-48 UK 5-13	Lighter version of the Scafells.	arbortec.com
	 Scafell (Z3 & Trekker)	ARBORTEC FORESTWEAR		£285	2	1270g	Leather	Outdry Synth Leather	Nylon	 Vibram Vertige RIGID	CE, KWF	■	■	■		■	■	■	■	□	■ □		■	Lime (Magenta)	US 4-14 EU 36-48 UK 3-13	Z3: to Order	arbortec.com
	Scafell XER (Ceramic) AT32000	ARBORTEC FORESTWEAR		£299	2	1250g	Leather & Ceramic/ Ballistic Nylon*	Outdry Synth Leather	Nylon	 Vibram Vertige RIGID	CE, KWF	■	■	■		■	■	■	■	□	■ □		■	Lime	US 4-14 EU 36-48 UK 3-13	* Ceramic coated, abrasion resistant fabric	arbortec.com
	 Treehog Extreme TH11 & TH12	ARBORTEC FORESTWEAR		£79	2	912g	Leather	Leather	Composite	 Polyurethane FLEXI	CE		■	■		■	■			■			□	Black	US 7-13 EU 39-47 UK 6-12	ALSO new Extreme Water-proof £95	arbortec.com
	Treehog Snout	ARBORTEC FORESTWEAR		£150	2	1730g	Leather	Membrane Comfort	Steel	 Rubber FLEXI	CE		■	■			■		■	■				Black/ blue	US 7-17 EU 39-51 UK 6-16	size 13-16 = £170 Reflective panels	arbortec.com
	 Treehog Tusk	ARBORTEC FORESTWEAR		£120	2	1420g	Leather	Leather	Steel	 Rubber FLEXI	CE		■	■			■		■	■				Black/ orange	US 7-14 EU 39-48 UK 6-13	Size 13 = £140	arbortec.com
	 Cervino Wood	ARB PRO Srl		£240 €239	3	1050g	Perwanger Suede	Sympatex WinTherm	Nylon	 Vibram Teton MEDIUM	CE	■	■	■		■		■		■	■		■	Red/ black	US 9-13 EU 42-47 UK 8-12	Made for ArbPro by Andrew Italy,	arbpro.it
	 Quick Step	ARB PRO Srl		£229	3	1150g	2.8mm Perwanger Suede	Sympatex High2 Out	Nylon	 Vibram Teton MEDIUM	CE	■	■	■		■		■		■	■		■	Grey	US 6-14 EU 38-48 UK 5-13	Adapted for direct attachment of foot ascender. Cost excludes plate or ascender	arbpro.it
	Energy	COFRA		£123	3	1224g	Full Grain Leather	GoreTex	Non-metallic APT	 Nitrile Rubber FLEXI	CE	■	■	■		■	■		■	■			■	Black	US 6-14 EU 38-48 UK 5-13	deodorising insole	cofra.it
	 Force	COFRA		£70	1	1068g	Leather	Breathable Synthetic Texelle	Non-metallic APT	 Nitrile Rubber FLEXI	CE			■		■	■		■	□			□	Black/ red	US 6-14 EU 38-48 UK 5-13	deodorising insole	cofra.it
	No Flame	COFRA		£155	2	1272g	Full Grain-Leather 2-2.2mm	Cofra-Tex Waterpro-Tech	Non-metallic APT	 Nitrile Rubber FLEXI	CE	■	■	■		■	■		■	■		■	■	Black/ reflective	US 6-14 EU 38-48 UK 5-13	Zip-up lacing. deodorising insole	cofra.it
	 Power	COFRA		£86	2	1105g	Leather	Leather Texelle	Non-metallic APT	 Nitrile Rubber FLEXI	CE		■	■		■	■		■	□			□	Black/ green	US 6-14 EU 38-48 UK 5-13	deodorising insole	cofra.it
	Strong	COFRA		£114	3	1164g	Leather	Leather Cambrelle	Non-metallic APT	 Nitrile Rubber FLEXI	CE		■	■		■	■		■	□			□	Black/ orange	US 6-14 EU 38-48 UK 5-13	Leather lace guard deodorising insole	cofra.it
		Woodsman	COFRA		£121	1	947g	Leather	Breathable Synthetic Texelle	Non-metallic APT	 Polyurethane FLEXI	CE			■		■		■		□			□	Black/ Yellow	US 6-14 EU 38-48 UK 5-13	deodorising insole	cofra.it

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	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATING	RUBBER TOE	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	Sorapis	CRISPI SPORT		€288	3	1240g	Klett Nepal Leather	GoreTex	Nylon	 Vibram MEDIUM	CE	■	■		□	■		■	■	□	■		■	Black/ red	US 7-14 EU 39-48 UK 6-13		crispi.it
	Arborist GTX S3	ELTEN		€180	2	1090g	Cowhide Leather	GoreTex	Steel	 PU Hercules FLEXI	CE	■	■	■		■	■		■	□			■	Black	US 6-14 EU 38-48 UK 5-13	Reflective piping	elten.com
	S2 Forestry (Alpin)	ELTEN		£110	1	1050g (sz 42)	Full grain Leather	Leather	Steel	 6mm PUR FLEXI	CE KWF		■	■				■	■	■			□	Black	US 7.5-14 EU 40-48 UK 6.5-13	DISCONTINUED available while stocks last	elten.com
	Harz	ENGELBERT STRAUSS		£137 €140	1	1060g (sz 42)	Full grain Leather 2.5mm	Sympatex	Steel	 9mmPUR FLEXI	CE KWF		■	■		■		■	■				■	Black	US 7.5-14 EU 40-48 UK 6.5-13		engelbert-strauss.de
	Vegan	ETHICAL WARES		£130	2	1200g	Lorica (non-leather)	Aquastop	Steel	 Nitrile Rubber MEDIUM	CE			■		■	■		■	□			■	Brown/ orange	US 5.5-15 EU 37-49 UK 4.5-14		ethicalwares.com
	Challenger 111001/2/3	EURO PM		€125	1	1175g	Printed Leather 2mm	Puratex	Polyester	 Vibram FLEXI	CE KWF	■	■	■		■	■	■	■	□			■	Black/red, Blck/blck, Blck/ylw	US 6-16 EU 38-50 UK 5-15	sizes 48,49 & 50= extra cost,	euro-pm.com
	Excelsior 111016	EURO PM		€189	2	-	Full grain Leather 2.2-2.4mm	Puratex	Polyester	 Vibram RIGID	CE KWF-pro	■	■	■		■	■	■	■	□	■		■	Black/red, Red/black	US 7-13 EU 39-47 UK 6-12		euro-pm.com
	Extreme Forest 111009	EURO PM		€146	2	-	Full grain Leather 2.2-2.4mm	Puratex	Polyester	 Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□	■		■	Black/ orange	US 7-13 EU 39-47 UK 6-12		euro-pm.com
	Extreme One 111005	EURO PM		€100	1	-	Full grain Leather 2-2.2mm	Puratex	Polyester	 Vibram FLEXI	CE KWF	■	■	■		■	■	■	■	□			■	Black/ orange	US 6-16 EU 38-50 UK 5-15	sizes 48,49 & 50= extra cost,	euro-pm.com
	Extreme Two 111011	EURO PM		€200	2	1750g	Full grain Leather 2-2.2mm	Puratex	Polyester	 Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□	■		■	Black/ orange	US 7-13 EU 39-47 UK 6-12	(Extreme Three discontinued)	euro-pm.com
	Forest Ranger 111007	EURO PM		€155	2	1175g	Full grain Leather 2.2-2.4mm	Puratex	Polyester	 Vibram FLEXI	CE KWF	■	■	■		■	■	■	■	□			■	Black/ orange, Brown/ black	US 6-16 EU 38-50 UK 5-15	sizes 48,49 & 50= extra cost,	euro-pm.com
	Woodmaster	FITWELL		€235 $425	1	1170g (sz 42)	Perwanger Leather 2.6mm	eVent	Nylon	 Vibram Foura FLEXI	CE		■	■		■			■	□			■	Grey/ black	US 6-16 EU 38-50 UK 5-15		fitwellsrl.it
	Eigher 027	FRANCITAL		€133	1	980g (sz 44)	Leather 1.6-1.8mm	Sympatex Tepor	Steel	 PU FLEXI	CE		■	■		■			■				■	Brown/ black	US8.5-12 EU 41-46 7.5-11UK	DISCONTINUED available while stocks last	francital.com
	Elagage 003	FRANCITAL		€196	1	-	Coated Leather	Techno-Lite	Composite	 PU FLEXI	CE				■	■		■	■				□	Brown/ black	US 7-13 EU 39-47 UK 6-12	DISCONTINUED available while stocks last. Cimbing boot	francital.com

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	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATED	RUBBER TOE	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	Forestieres 002	FRANCITAL		€155	2	1000g (sz 42)	Leather	Leather Techno-Lite	Rubber	PU MEDIUM	CE			■			■	■	■				□	Black	US 4-16 EU 35-50 UK 3-15	DISCONTINUED available while stocks last	francital.com
	Nando 013	FRANCITAL		€212	2	-	Perwanger	eVent	Rubber	Vibram MEDIUM	CE		■	■		■		■	■				■	Brown	US 7-13 EU 39-47 UK 6-12	DISCONTINUED available while stocks last	francital.com
	Quercus 032	FRANCITAL		€165	2	1650g (sz 42)	Full grain Leather 2.4mm	Sympatex Tepor	Rubber	Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□	■		■	Brown/ red	US 7-13 EU 39-47 UK 6-12		francital.com
	Tilia 031	FRANCITAL		€150	2	1300g (sz 42)	Full grain Leather 2.4mm	Sympatex Tepor	Rubber	Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□			■	Brown/ red	US 4-14 EU 36-48 UK 3-13		francital.com
	Swede Pro	GRAND FOREST		$260	-	-	Silicone treated Leather	Leather	Steel	Vibram FLEXI	ASTM			■		■		■	■	■			□	Black	US 6.5-13		grandforest.us
	Airpower R200	HAIX USA		$239	1	963g	Oiled Nubuck	GoreTex Cambrelle	Steel	Rubber/PU FLEXI	ASTM CSA		■	■		■	■	■	■	■			■	Olive	US 4.5-14.5 width 4.5-14.5	US/Canada-Only. Also woman's sizes Achilles flex panel	haix.com

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	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATED	RUBBER TOE	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	Airpower XR200	HAIX USA		$279 €222	1	937g	Oiled Nubuck 2.5-2.7mm	GoreTex Climate	Non-metallic	Rubber/PU FLEXI	ASTM CSA		■		■	■	■	■	■	■			■	Olive/ orange	US 6-13.5 width Med/wide	US/Canadian boot Achilles flex panel	haix.com
	Flash Pro/ Fire Flash Xtreme	HAIX		£215 €270* $479*	2	1450g	Leather 2.5-2.7mm	GoreTex Climate	Nylon	Rubber/PU FLEXI	CE	■	■		■	■	■	■	■	■		■	■	Black/ylw	US 7-13 EU 39-47 UK 6-12	Integrated front zipper. Xtreme is the US model plus woman's version.	haix.com
	Hero 2	HAIX		€289*	2	1500g	Leather 2.5-2.7mm	CrossTech Climate	Nylon	Rubber/PU FLEXI	CE	■	■		■	■	■	■	■	■		■	■	Black/ red/ylw	US 4-13 EU 35-47 UK 3-12	2-stage – rapid donning & rapid release lacing	haix.com
	Protector Alpin	HAIX		£289* €360*	3	1292g	Suede 2.8-3mm	GoreTex Climate	Nylon	Rubber/PU RIGID	CE KWF-pro	■	■		■	■	■	■	■	□	□		■	Black/ylw	US 6-15 EU 38-49 UK 5-14	Adjustable tongue. removable grip/ spikes	haix.com
	Protector Forest (Prime)	HAIX		£225* €270* $319	2	1165g	Suede 2.8-3mm	GoreTex Climate	Nylon	Vibram MEDIUM	CE KWF-pro ASTM CSA	■	■	■		■	■	■	■	□			■	Black, Orange/ black	US 6-14 EU 38-48 UK 5-13		haix.com
	Protector Light	HAIX		£155* €195*	1	963g	Nubuck 2.2-2.4mm	Leather	Nylon	Rubber/PU MEDIUM	CE		■		■	■	■	■	■	■			■	Brown/ red	US 4.5-13.5 EU 36-48 UK 3.5-12.5	Achilles flex panel	haix.com
	Protector Pro	HAIX		£195* €245*	1	1318g	Leather 2.5-2.7mm	GoreTex Climate	Nylon	Rubber/PU FLEXI	CE		■	■		■	■	■	■	□			■	Black	US 4-15 EU 36-49 UK 3.5-13.5	Sun-Reflect uppers, Achilles flex panel	haix.com
	Protector Ultra	HAIX		£210 €280*	2	-	Suede 2.8-3mm	GoreTex Climate	Nylon	Vibram MEDIUM	CE KWF pending	■	■	■		■	■	■	■	□			■	Grn/blck Red/blck	US 6-14 EU 38-48 UK 5-13		haix.com
	Trekker Mountain	HAIX		£180* €225*	1	1221g	Nubuck leather 2.6-2.8mm	GoreTex Climate	Nylon	Rubber/PU MEDIUM	CE KWF-pro	■	■	■		■	■	■	■	□			■	Brown/ black	US 4-15 EU 36-49 UK 3.5-13.5	Achilles flex panel	haix.com
	Graft	HARKIE		£150	3	1230g	Leather	Sympatex	Steel	Rubber/PU MEDIUM	CE SATRA		■	■		■		■	□			■	Black	US 7-13 EU 39-47 UK 6-12	Rollerball lacing. deep instep ideal for spikes	Harkie.co.uk
	L20	HUSQVARNA		SEK2550* £167 €255	1	1100g (sz 42)	Polyurethane Leather	Cambrelle	Steel	PU MEDIUM	CE		■	■		■		■	■	■			□	Black	US 7-13 EU 39-47 UK 6-12	Generous sizing use with multi-layer socks. Sole moulded to upper-no seams	husqvarna.com
	Classic 20	HUSQVARNA		£170	1	1000g (sz42)	Leather	Leather Cambrelle	Steel	Rubber/PU MEDIUM	CE KWF		■	■		■		■	■	■			□	Black/ orange	US 7-14 EU 39-48 UK 6-13	may be confused with the above by some suppliers who swap the words 'leather' and '20'	husqvarna.com
	Technical 24	HUSQVARNA		SEK3445* £269	2	1260g (sz 420	Split Leather 2.4-2.6mm	Sympatex Cambrelle	Steel	Rubber/PU MEDIUM	CE		■	■		■		■	■	■			■	Grey/ orange/ black	US 4-14 EU 36-48 UK 3.5-13	Also available in Germany-only as KWF version with instep grip	husqvarna.com
	Challenger Evo 9065-GA	JOLLY SCARPE		€295	3	-	Treated Full grain Leather 2-2.2mm	GoreTex Cambrelle	Composite	Nitrile Rubber FLEXI	CE		■	□		■	■		■	■	■	■	■	Black/ red	US 7-15 EU 39-49 UK 6-13.5	Rapid-don zipper, Increased ankle protection	jollyscarpe.com

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		Robinie	CRAFTLAND		€110	1	-	Cow & Buffalo Leather	Leather	-	 Rubber FLEXI	CE KWF		■	■		■	■	■	■				□	Black/ orange	US 7-14 EU 39-48 UK 6-13		feldtmann.de
		Fuego, Nivel 2 Hybrid	CURGAL		€134	2	-	Full Grain Leather	Sympatex Technolite	Steel	 Nitrile Rubber FLEXI	CE	■		■		■	■	■	■			■	■	Black	US 7-11.5 EU 39-45 UK 6-10.5	Available without Sympatex (simple split leather lining)	curgal.com
		Motosierra Nivel 1	CURGAL		€121	1	-	Full Grain Leather	Sympatex Technolite	Steel	 Nitrile Rubber FLEXI	CE			■		■	■	■	■				■	Black	US 7-11.5 EU 39-45 UK 6-10.5	Available without Sympatex (simple split leather lining)	curgal.com
		Motosierra Nivel 2	CURGAL		€134	2	-	Full Grain Leather	Sympatex Outlast	Steel	 Nitrile Rubber FLEXI	CE			■		■	■	■	■				■	Black	US 7-11.5 EU 39-45 UK 6-10.5	Available without Sympatex (simple split leather lining)	curgal.com
		Motosierra Nivel 3	CURGAL		€161	3	-	Full Grain Leather	Sympatex Outlast	Steel	 Nitrile Rubber FLEXI	CE	■		■		■	■	■	■	■			■	Black	US 7-11.5 EU 39-45 UK 6-10.5	Available without Sympatex (simple split leather lining)	curgal.com
		Power	HITACHI		£120 €150	2	1105g	Full Grain Leather	Cotton	Composite	 Nitrile Rubber FLEXI	CE		■	■		■	■		■	□			□	Black/ green	US 6-14 Eu 38-48 UK 5-13	extra wide fitting Made by Cofra	hitachi.jp

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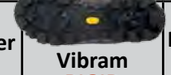
	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE &/or LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATING	SCUFF CAP	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	Basic 20	JONSERED		£170 SEK1436	1	1000g (sz42)	Leather	Cambrelle	Steel	 Rubber/PU MEDIUM	CE KWF		■	■		■		■	■	■			□	Black/ red	US 7-13 EU 39-47 UK 6-12		jonsered.com
	Light 20	JONSERED		SEK2550* £167 €255	1	1100g (sz42)	Treated leather	Cambrelle	Steel	 PU MEDIUM	CE		■	■		■		■		■			□	Black	US 7-13 EU 39-47 UK 6-12	Designed for use with multi-layer socks so sizes are generous	jonsered.com
	Labonville Kevlar	LABONVILLE		$220	(1)	1113g 2.45 lb	Leather	Cambrelle	Steel	 Rubber MEDIUM	-		□	■					■	■			□	Brown	US 7-13 EU 38-47 UK 6-12	available with a 1" or 2" heel	labonville.com
	Daintree	LAVORO		£85	1	1000g	Full grain leather	Cambrelle	Steel	 Injected PU MEDIUM	CE		□	■		■			■	■			□	Black	US 7-13 EU 39-47 UK 6-12		lavoroeurope.com
	Elite	LAVORO		£135	2	1050g	Nubuck leather	Sympatex	Steel	 PU FLEXI	CE	□	■	■		■	■	■	■	■			■	Brown/ orange	US 7-14 EU 39-48 UK 6-13		lavoroeurope.com
	Sherwood	LAVORO		£125	3	1150g	Full grain leather	Sympatex	Steel	 Rubber/PU FLEXI	CE		■	■		■			■	■			■	Black/ green	US 7-13 EU 39-47 UK 6-12		lavoroeurope.com
	Challenger 1385	LONGSTONE SAFETY		€150	2	1175g	Printed Leather 2mm	Sympatex Tepor	Polyester	Vibram FLEXI	CE KWF		■	■		■	■	■	■	□			■	Black/red, Blck/blck, Blck/ylw	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Excelsior 1386/1202/ 1229	LONGSTONE SAFETY		€189	2	1450g	Full grain Leather 2.4mm	Sympatex Tepor	Polyester	Vibram RIGID	CE KWF-pro	■	■	■		■	■	■	■	□	■		■	Black/red, Red/Grey, Ornge/blk	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Extreme Forest 1286	LONGSTONE SAFETY		€146	2	1380g	Full grain Leather 2.4mm	Sympatex Tepor	Polyester	 Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□	■		■	Black/ orange	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Extreme One 944	LONGSTONE SAFETY		€100	1	1340g	Full grain Leather 2.2mm	Sympatex Tepor	Polyester	 Vibram FLEXI	CE KWF	■	■	■		■	■	■	■	□			■	Black/ orange	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Extreme Two 1174	LONGSTONE SAFETY		€200	2	1750g	Full grain Leather 2.2mm	Sympatex Tepor	Polyester	Vibram MEDIUM	CE KWF	■	■	■		■	■	■	■	□	■		■	Black/ orange	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Forest Ranger 1274/1112	LONGSTONE SAFETY		€155	2	1175g	Full grain Leather 2.4mm	Sympatex Tepor	Polyester	Vibram FLEXI	CE KWF	■	■	■		■	■	■	■	□			■	Black/ orange, Brown/ black	US 6-15 EU 38-48 UK 5-14	Also called 'Acacia'	longstone.it
	Forest Tech 1348	LONGSTONE SAFETY		€160	2	1360g	Full grain Leather 2.4mm	Sympatex Tepor	Polyester	Vibram FLEXI	CE KWF		■	■		■	■	■	■	□			■	Grey/ red	US 6-15 EU 38-48 UK 5-14	manufacturer of Euro PM boots listed in part1	longstone.it
	Fire Best 904	LONGSTONE SAFETY		€155	2	1210g	Full grain Leather 2.4mm	Sympatex Tepor	Polyester	Vibram FLEXI			■	■		■	■	■	■	■		■	■	Black/ red	US 6-15 EU 38-48 UK 5-14	reflective piping	longstone.it

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	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATING	SCUFF CAP	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	MT2000	MATTERHORN		€299 $450	(3)	-	full grain leather	GoreTex Cambrelle	Steel (+Poly)	Vibram Sierra MEDIUM	-		☐	■		■	■	■	■	■			■	Black	US 7-15 EU 38-49 UK 6-14		corcoranandmat-terhorn.com
	Search&Rescue 12900	MATTERHORN		$360	(1)	-	full grain leather	GoreTex Cambrelle	Steel (+poly)	Vibram 132 MEDIUM	-		■	■		■	■	■	■			■	■	Black	US 7-14 EU 39-48 UK 6-13	also Wide fitting. Crosstech anti-blood-borne pathogen membrane	corcoranandmat-terhorn.com
	12255	MATTERHORN		$407	(1)	-	full grain leather	GoreTex Cambrelle	Steel (+Poly)	Vibram Sierra MEDIUM	-		■	■		■		■	■				■	Black	US 5-15 EU 37-49 UK 4-14	also Wide & Extra Wide fitting	corcoranandmat-terhorn.com
	12366	MATTERHORN		$404	(1)	-	Nytek nylon	GoreTex Cambrelle	Steel (+Poly)	Vibram Sierra MEDIUM	-		■	■		■		■	■				■	Black	US 5-15 EU 37-49 UK 4-14	also Wide & Extra Wide fitting	corcoranandmat-terhorn.com
	Airstream	MEINDL		£255 €299	1	1100g	Suede leather	GoreTex MFS	Nylon	Vibram MEDIUM	CE KWF	☐	■	■		■	■	■	■				■	Red/ grey	US 5.5-17 EU 37-51 UK 4.5-16	MFS=Memory Foam Fitting	meindl.co.uk
	Airstream Rock	MEINDL		£265 €299 NZ$699	2	1080g	Suede leather	GoreTex	-	2-stage Rubber RIGID	CE AUS/ NZ		■	☐		■	■	■	■	■			■	Orange/ black	US 7-13 EU 39-47 UK 6-12	outer sole has metal elements for improved resilience	meindl.co.uk
	Timberking	MEINDL		£210 €335	3	1050g	Leather	Leather	Steel	Vibram MEDIUM	CE KWF	☐	■	■		■	■	■	■	☐			■	Orange/ black	US 5.5-17 EU 37-51 UK 4.5-16	cut-protective fine sleel slats up from toe cap. Add €30 for sizes 49-51	meindl.com
	Woodwalker (MFS)	MEINDL		€235	1	1100g	Full grain leather	MFS	Nylon	Meindl FLEXI	CE	☐	■	■		■			■				☐	Black	US 5.5-17 EU 37-51 UK 4.5-16	Also known as 'Waldlaufer' MFS=Memory Foam Fitting	meindl.co.uk
	Woodwalker Pro GTX	MEINDL		£240 €249	1	1100g	Full grain leather	GoreTex MFS	Nylon	Vibram FLEXI	CE		■	■		■	■	■	■				■	Black	US 5.5-17 EU 37-51 UK 4.5-16	Also known as 'Waldlaufer' MFS=Memory Foam Fitting	meindl.co.uk
	Nordforest	NORDFOREST (GRUBE)		€109	1	1080g	Full grain leather	Leather	Steel	PU FLEXI	CE KWF		■	■		■	■	■	■				☐	Black/ orange	US 7- 16 EU 39-50 UK 6-15		grube.eu
	Logger/ S3	NO RISK		£109	1	900g	Full grain leather	Drylex	Steel	Injected PU FLEXI	CE		■	■		■		■	■				☐	Black/ orange	US 7-13 EU 39-47 UK 6-12		noriskeurope.com
	Fiordland ('Premium' in US)	OREGON (EU&US)		£221	2	1100g	2mm Nubuck Leather	Membrane	Steel	PU MEDIUM	CE		■	■		■	■	■	■	■		☐	■	Grey/ red	US 6-14 EU 38-48 UK 5-13	Removeable instep grip	oregonproducts.com
	Waipoua	OREGON (EU)		£172 €126*	1	950g	1.8mm E-Leather	-	-	Nitrile/Rubber	CE KWF		■	■		■	■	■	■	■			☐	Black/ red	US 6-14 EU 38-48 UK 5-13	not available in US/Canada. E-Leather = 75% leather	oregonproducts.com
	Yukon	OREGON (EU)		£89 €90	1	1050g	2mm Leather	-	-	PU FLEXI	CE KWF		☐	■		■	■	■	■				☐	Black/ red	US 6-14 EU 38-48 UK 5-13	Not available in US.Canada. Triple stiched toe to heel panel. NB: there's also a Yukon welly	oregonproducts.com

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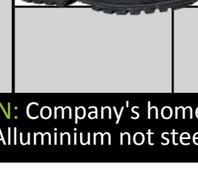
		Matterhorn	PFANNER		£310 $380 €420*	2	1280g	Leather/ Ceramic MicroFibre	Goretex	Kevlar	RIGID	CE	■	■	□		■	■	■	■	□	□ ■		■	Black/ red	US 8-13 EU 41-(48) UK 7-12	Removeable heel support for more flex. Roller lace eyes. instep crampon option	pfanner-austria.at
		Tirol Fighter	PFANNER		£240 €330*	1	1350g	2.5mm Nubuck	Klima Air	Composite	MEDIUM	CE			□		■	■	■	■				□	Black	US 4.5-18.5 EU 36-(54) UK 3.5-17.5	quadruple stitched & riveted sz47-54=£300	pfanner-austria.at
		Tirol Juchten	PFANNER		£260 €320*	1	1576g	3.5-3.7mm Russian leather	Klima Air	Composite	MEDIUM	CE, KWF			□		■	■	■	■				□	Brown	US 6.5-13 EU 39-(48) UK 5.5-12		pfanner-austria.at
		Zermatt GTX	PFANNER		£220 €320*	1	1292g	3mm Nubuck leather	Goretex Cordura	Kevlar	MEDIUM	CE	■	■	□		■	■	■	■				■	Red/ black	US 8-13 EU 41-(48) UK 7-12	discontinued	pfanner-austria.at
		A1RB Evolution	PRABOS		£209	2	-	2.2mm Pampas leather	Ultra	Kevlar	Vibram FLEXI	CE		■	□		■	■		■	□			■	Grey/ red	US 7-14 EU 39-48 UK 6-13	ball bearing speed lacing	prabos.cz
		Ultra/ Ultra 88	PRABOS		£175 A$360	2	1280g	2.4-2.6mm hydrophobic leather	Ultra	Kevlar	Rubber 'Demon' FLEXI	CE		■	■		■	■	■	■				■	Black/ red		ball bearing speed lacing	prabos.cz
		DemonFire Protector III	PRABOS		£180 €210	2	-	hydrophobic leather	Goretex	Alloy	Rubber 'Demon' MEDIUM	CE	■	■	□		■	■	■	■	■		■	■	Black	US 7-13.5 EU 38-48 UK 6-12.5	Nomex laces, lace cover, reflective strips	prabos.cz
		Chatsworth RF328	ROCK FALL		£198	3	1144g (42)	full grain leather	Sympatex	Kevlar	vibram FLEXI	CE, KWF		■	■			■		■	■			■	Black	US 7-15 EU 39-49 UK 6-14		rockfall.co.uk
		Forest	ROBUSTA		$245 €162	3	1130g	2-2.4mm full-grain leather	Polyamide	Steel	PU-Nitrile FLEXI	CE	■		■		■	■	■	■		□	□		Black/ green	US 4.5-15 EU 36-49 UK 3.5-14	available with metatarsal cover.Wide fit	robusta.es
		Jack	ROBUSTA		$220 €148	1	1090g	2-2.4mm full-grain leather	Polyamide	Steel	PU-Nitrile FLEXI	CE	■		■		■	■	■	■			□		Black/ white	US 4.5-15 EU 36-49 UK 3.5-14	available with metatarsal cover. Wide fit	robusta.es
		Odin GTX	ROBUSTA		$365 €204	2	1138g	fireproof full-grain leather	Goretex More-Season	Composite	Nitrile MEDIUM	CE	■	□	■		■	■	■	■			■	■	Black/ yellow	US 4-13 EU 35-48 UK 3-12		robusta.es
		Quebec	ROBUSTA		€135	2	1185g	2-2.4mm full-grain Leather	Polyamide	Composite	PU-Nitrile FLEXI	CE	■		■		■	■	■	■				□	Black/ red	US 4-13 EU 35-48 UK 3-12		robusta.es
		Sequioa GTX	ROBUSTA		£165 $270	2	1193g	2-2.4mm full-grain Leather	GoreTex	Composite	PU-Nitrile FLEXI	CE	■		■		■	■	■	■				■	Black/ red	US 4-13 EU 35-48 UK 3-12		robusta.es
		Sherwood	ROBUSTA		$235 €155	2	1110g	2-2.4mm full-grain Leather	Polyamide	Steel	PU-Nitrile FLEXI	CE	■		■		■	■	■	■	□			□	Black/ red	US 4.5-15 EU 36-49 UK 3.5-14		robusta.es

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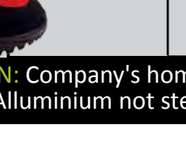
	Sigfrido GTX	ROBUSTA		€197	2	1142g	fireproof full-grain Leather	GoreTex	Composite	Nitrile FLEXI	CE	■	□	■		■	■	■	■			■	■	Black/ yellow	US 4-13 EU 35-48 UK 3-12		robusta.es
	Valkiria	ROBUSTA		€165	2	1130g	fireproof full-grain Leather	Polyamide	Composite	Nitrile MEDIUM	CE	■		■		■	■	■	■			■	□	Black/ yellow	US 4-13 EU 35-48 UK 3-12		robusta.es
	8614	ROYER		$400	3	-	HD Nylon & 2mm Full grain Leather	Airflow Cambrelle	Steel	Rubber FLEXI	CSA			■						■			■	Orange/ black	US 6-14 EU 38-48 UK 5.5-13	width fittng 3E	royer.com
	7767	ROYER		$220	-	-	Full grain Leather	Leather	none	Rubber FLEXI	CE			■					■	■			□	Brown	US4-14 EU 35-48 UK3-13		royer.com
	Grizzly 3SIC	SIP PROTECTION		€241	2	1300g	Hypertex & 2mm SuperFabric	Tepor	Kevlar	Vibram Teton RIGID	CE	■	■	■		■	■	■	■	□			■	Orange/ black	US 6-14 EU 38-48 UK 5.5-13	New in June 2017. Stiff for support but com-fortable for walking	sip-protection.com
	Logger 3SD4	SIP PROTECTION		€171	2	1250g	2.3mm Leather	Fox Trek Cambrelle	Kevlar	Nitrile Rubber MEDIUM	CE		■	■		■	■	■	■	■			■	Black/ yellow	US 6-14 EU 38-48 UK 5.5-13	3XA1,3SB3&3SDS Discontinued but still available from some stockists	sip-protection.com
	Red Panther 3SID	SIP PROTECTION		€224	2	1100g	2.4-2.6mm Perwanger Suede	Tepor	Kevlar	Vibram Teton RIGID	CE		■	■		■	■	■	■	■			■	Red/ black	US 6-14 EU 38-48 UK 5.5-13	Specialist climbing boot, Stiff for support but comfortable for walking	sip-protection.com
	Superforêt 3SA3	SIP PROTECTION		€162	2	1000g	2-2.2mm Full grain Leather	Leather & Textile	Steel	Nitrile Rubber FLEXI	CE			■		■	■	■	■	■			□	Olive Green	US 4.5-13 EU 36-47 UK 3.5-12		sip-protection.com
	Timber 3XAK	SIP PROTECTION		€133	2	1000g	2-2.2mm Buffalo Hide	Textile	Kevlar	Nitrile Rubber MEDIUM	CE		■	■		■	■	■	■				□	Black	US 4.5-14 EU 36-48 UK 3.5-13		sip-protection.com
	Schöen 1100Pro/ 1100ProSpiked	SKELLERUP		NZ$350	3	1500g	Buffalo hide	Sympatex	Steel	PU-Nitrile FLEXI			■	■		■	■		■	■			■	Brown/ black	US 7-14 EU 39-48 UK 6-13	Extra wide fit. Also available with spiked sole	skellerup.co.nz skellerup.co.uk
	Enigma D30	STEIN		£219 $274 €252	2	1250g	2.5-2.6mm Perwanger leather	Climate-regulating membrane	Composite	Vibram Teton MEDIUM	CE	■	■	■		■	■	■	■	□			■	Red/ black	US 8-13 EU 41-47 UK 7-12	low -profile speed-lace system. Supplied with D30 insole	steinworldwide.com
	Explorer III	STEIN		£169	2	-	2.8-3mm Perwanger leather	-	Steel	VibramW.IronTire FLEXI	CE		■			■	■	■	■	■			□	Black	US 9-13 EU 42-47 UK 8-12	DISCONTINUED Ball bearing lacing	steinworldwide.com
	Krieger D30	STEIN		£199 $249 €229	2	1300g	2.5-2.6mm Perwanger leather	Climate-regulating membrane	composite	Vibram Teton MEDIUM	CE	■	■	■		■	■	■	■	□			■	Orange/ black	US 8-13 EU 41-47 UK 7-12	Supplied with D30 insole	steinworldwide.com
	Phantom D30	STEIN		£219 $274 €252	2	1600g	Perwanger leather	Windtex	none	Vibram Zubru FLEXI	CE		■	■		■	■		■	□			■	Red*	US 8-13 EU 41-47 UK 7-12	ball bearing and low profile lacing. *Grey discontinued. Supplied with D30 insole	steinworldwide.com

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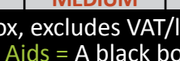
	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATED	SCUFF CAP	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
 	Werewolf D30	STEIN		£195	1	1150g	1.8-2mm Perwanger leather	Leather	none	 Vibram Werewolf FLEXI	CE		■			■	■		■	■			□	Red	US 8-13 EU41-47 UK 7-12	For climbing NOT ground work, No toe cap. Supplied with D30 insole	steinworldwide.com
 	Forst	STEITZ SECURA		£150	1	1163g	Hydrophobic Leather	Textile	-	 Perbunan Alpine FLEXI	CE		■	■		■	■		■				□	Black/ red	US 7-(15) EU 38-(49) UK 6-(14)	extra width fittings	steitzsecura.de
 	Advance GTX/ Promark (USA)	STIHL		£240 $350 €302	2	1250g 42	Suede	GoreTex Techno-Lite	Composite	 PU MEDIUM	CE KWF		■	■		■			■	■	■		■	Black/ orange	US 7-13 EU 39-48 UK 6-12		stihl.com
 	Dynamic S3	STIHL		£188 €235	1	1000g (42)	Nubuck leather	Breathable	Steel	 PU FLEXI	CE KWF		■	■		■			■				□	Brown/ orange	EU 36-48 UK 4.5-13		stihl.com
 	Function	STIHL		£120 €157	1	950g (42)	Full Grain Leather	Textile	Composite	 Polyurethane FLEXI	CE KWF		■	■		■			■	□			□	Black/ orange	EU 36-47 UK 4.5-12		stihl.com
 	Dynamic Ranger	STIHL		£155 €199	1	950g (42)	Full Grain Leather	Textile	Composite	 Polyurethane FLEXI	CE KWF	□		■		■			■	□			□	Black/ orange	EU 36-[50] UK 4.5-14		stihl.com
 	Dynamic Ranger GTX	STIHL		£210 €292	1	1100g (42)	Full Grain Leather	GoreTex	Composite	 Polyurethane FLEXI	CE KWF		■	■		■			■	□			■	Black/ orange	US 5-16 EU 36-50 UK 4.5-15	known as Dynamic Ranger GTX in UK Reflective strips	stihl.com
 	Performance Forestry	STIHL USA		$300	1	1250g	Oiled Nubuck Leather	GoreTex Cambrelle	-	 Rubber/Poly FLEXI	CE ASTM	■	■	■		■			■	■			■	Olive	US 6.5-14 Med Wide		stihlusa.com
	Extreme TH11	TREEHOG		£79	2	912g	Leather	Leather	Composite	 Polyurethane FLEXI	CE			■	■	■	■			■			□	Black/ orange	US 7-13 EU 39-47 UK 6-12	Also listed in Pt1 under Arbortec	arbortec.com
	Extreme W TH12	TREEHOG		£99	2	912g	Leather	Membrane Textile	Composite	Polyurethane FLEXI	CE			■	■	■	■			■			■	Black/ blue	US 7-13 EU 39-47 UK 6-12	Also listed in Pt1 under Arbortec	arbortec.com
	Snout	TREEHOG		£150	2	1730g	Leather	Membrane Comfort	Steel	Rubber FLEXI	CE			■	■		■		■	■			□	Black	US 7-17 EU 39-51 UK 6-16	size 13-16 = £170 Reflective panels Also listed in Pt1 under Arbortec	arbortec.com
	Tusk	TREEHOG		£120	2	1420g	Leather	Leather	Steel	Rubber FLEXI	CE			■	■		■		■	■			□	Black/ orange	US 7-14 EU 39-48 UK 6-13	Size 13 = £140 Also listed in Pt1 under Arbortec	arbortec.com
	91289/1	TREEMME		-	1	1300g	Nubuck Leather	Aquastop	Steel	Vibram MEDIUM	CE KWF		■	■		■	■	■	■	■	■		■	Red/ black, Green/ black	US 6-13 EU38-48 UK 5-12		treemmecalzature.com
	91208/1	TREEMME		-	2	1250g	Nubuck Leather	Aquastop	Steel	Vibram MEDIUM	CE	■	■	■		■	■	■	■	■	■		■	Red/ black, Green/ black	US 6-13 EU38-48 UK 5-12		treemmecalzature.com

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IMAGES NOT TO SCALE	MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATED	SCUFF CAP	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
	91208R	TREEMME		-	2	1350g	Nubuck Leather	Aquastop	Steel	 Ibex Rubber RIGID	CE	■	■	■		■	■	■	■	□	■		■	Red	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	91224	TREEMME		-	2	1100g	Ballistic Nylon & Leather	Aquastop	Steel	 Defender RIGID	CE	■	■	■		■	■	■	■	□			■	Silver/ red, Silver/ green	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	91224/1	TREEMME		-	1	1100g	Suede	Aquastop	Steel	 Spider RIGID	CE		■			■				□		■	■	Red/ black, Green/ black	US 6-13 EU38-48 UK 5-12	Specialist Climbing boot	treemmecalzature.com
	9-1108	TREEMME		-	2	1600g	Galluser Leather	Aquastop	Steel	 Trail Rubber RIGID	CE KWF			■		■	■	■	■	■			■	Brown	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	9-1108/R	TREEMME		-	2	1680g	Galluser Leather	Aquastop	Steel	 Trail Rubber RIGID	CE KWF			■		■	■	■	■	■	□		■	Brown	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	1197/1	TREEMME		-	2	1600g	Galluser Leather	Aquastop	Steel	 Trial Rubber RIGID	CE KWF			■		■	■	■	■	□			■	Brown, Rust	US 7-13 EU 39-48 UK 6-12	1197 tan leather	treemmecalzature.com
	1207 (Orange Slide-Stop)	TREEMME		£130	2	1300g	Full Grain Leather	MicroFibre	Steel	 Ibex Rubber MEDIUM	CE		■	■		■	■	■	■	□			■	Black/ orange	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	1202R 1202/Orange 91202R 91202/ Aquastop	TREEMME		£147 €132	2	1300g	Full Grain Leather	Aquastop or Leather	Steel	 Trail Rubber MEDIUM	CE KWF		□	■		■	■	■	■	□	R= ■		□ ■	Black/ orange	US 7-13 EU 39-48 UK 6-12	91202= Aquastop version also called 'Aquastop' R=Ibex Sole 1202 called 'Orange' by some	treemmecalzature.com
	1189	TREEMME		-	2	1450g	Perwanger or Galluser Leather	Leather	Steel	 Trail Rubber RIGID	CE			■		■	■	■	■	□			□	Brown	US 7-13 EU 39-48 UK 6-12	three leather options	treemmecalzature.com
	1289 (Slide-Stop)	TREEMME		£230	2	1350g	Premium Nubuck	Aquastop	Steel	 Ibex Rubber RIGID	CE	■	■	■		■	■	■	■	□ ■	■		■	Brown/ black	US 4.5-13 EU36-47 UK 3.5-12	Optional Crampon. Called 'Slide Stop' by some stockist but other Treemme boots have this feature.	treemmecalzature.com
	91213	TREEMME		-	2	1350g	Perwanger	Aquastop	Steel	 Ibex Rubber MEDIUM	CE		■	■		■	■	■	■	■	■		■	Grey/red, Red/grey,	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	91214	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	 Ibex Rubber RIGID	CE	■	■	■		■	■	■	■	□	■		□	Black/ orange, Black/ red	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	1204	TREEMME		-	2	1300g	Premium Leather	Aquastop or Leather	Steel	 Ibex Rubber FLEXI	CE			■		■	■	■	■	■			■	Black/ orange	US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
	1114	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	 Trail Rubber MEDIUM	CE		■	■		■	■	■	■	□			□	Grey/red, Grey/ orange	US 7-14 EU39-47 UK 6-13		treemmecalzature.com

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MODEL	COMPANY	ORIGIN	COST	CUT CLASS	WT 1 boot sz 43	UPPERS	MEMBRANE & LINING	MID SOLE	SOLE & RIGIDITY	STANDARD	INSULATED	SCUFF CAP	STEEL TOE	COMP. TOE	SOLE: SHOCK ABSORB	SOLE: HEAT RESIST	SOLE: COLD RESIST	SOLE: OIL RESIST	PULL-ON AID	CRAMPON	FIREFIGHTING	WATER PROOF	COLOUR OPTIONS	SIZES	NOTES	WWW.
39	TREEMME		-	2	1200g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE KWF		■	■		■	■	■	■	□			□	Brown	US 5.5-15 EU 37-49 UK 4.5-14		treemmecalzature.com
1104	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE			■		■	■	■	■				□		US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
1102	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE KWF			■		■	■	■	■	□			□		US 5.5-15 EU 37-49 UK 4.5-14		treemmecalzature.com
UNIVERSAL	McCULLOCH		£140	1	780g (42)	Leather	Textile	n/a	FLEXI	CE		■	■					■	■			□	Black/ yellow	US 8-12 EU 41-45 UK 7-11	Good luck finding this one - we think it's dis-continued or never fully introduced but we still see them for sale.	mcculloch.com
Sawyer Pro	VALLFIREST		€224	2	1275g (42)	Perwanger leather	GoreTex Cambrelle	Composite	Nitrile Rubber FLEXI	CE		■	■		■	■		■			■	■	Black	US 5-17 EU 36-(51) UK 4-16	fire-retardent laces. Also markets Robusta boots under the Vallfirest badge	vallfirest.com
Ericsen VW76	VIKING		$179		-	Leather and Rubber	Cotton canvas	Rubber	Rubber FLEXI	CSA ASTM		■	■				■	■	■			□	Orange/ black	US 6-14 EU 38-47 UK 5-13	Ballistic nylon cut protection in shin and toe areas	vikingwear.com
Leather VW77-1	VIKING		$350	3	-	Leather	`Nylon	Steel	Rubber FLEXI	CSA ASTM			■		■		■	■	■			□	Black	US 6-12 EU 38-46 UK 5-11		vikingwear.com
Black Tusk VW78-1	VIKING		$199	3	-	Leather and Rubber	Cotton canvas	Steel	Rubber FLEXI	CSA ASTM		■	■					■	■			■	Black/ orange	US 5-15 EU 37-49 UK 4-14	also available with spiked sole (add $30)	vikingwear.com
Primus21CS	VÖLKL		€170	2	1150g	2.4-2.6mm Full Grain Leather	Sympatex Moisture-Tec	Steel	Rubber/PU MEDIUM	CE		□	■		■		■	■	■		■	■	Black/red	US 4.5-16 EU 36-50 UK 3.5-15	reflective piping and panels. Zipper	voelkl-professional.com
One CS	VÖLKL		€190	2	1280g	2.4-2.6mm Full Grain Leather	Sympatex Moisture-Tec	Steel	Rubber/PU MEDIUM	CE		□	■		■		■	■	■		■	■	Black/red	US 4.5-16 EU 36-50 UK 3.5-15	Specially designed lateral pull-on aids for use with gloves. Reflective panels. Zipper.	voelkl-professional.com
Rhön	VÖLKL		€190	1	1200g	2.4-2.6mm Full Grain Leather	Leather	Steel	Rubber/PU FLEXI	CE KWF		□	■		■			■	■			□	Black	US 4.5-16 EU 36-50 UK 3.5-15	Reflective piping	voelkl-professional.com
ForstProfi	W.K. TEX		€168	2	-	2-2.2mm hydrophobic Leather	Sympatex	Ceramic	Vibram FLEXI	CE		□	■		■	■	■	■	■			■	Black/ orange	US 7-13 EU 39-47 UK 6-12		wktex.de
Challenger	W.K.TEX		-	1	-	2mm Grained Leather	Puratex	Polyester	Nitrile FLEXI	CE KWF		□	■			■		■	■			□	Black/ orange	US 7-13 EU 39-47 UK 6-12		wktex.de
Forest Jack, Black Forest	WATEX		€120	2	-	Full grain Leather	Textile	Steel	PU/Rubber FLEXI	CE KWF		■	■		■			■	□			□	Black/ orange	US 7-13 EU 39-47 UK 6-12	Also sold as the Workpower Black Forest - sole has orange inserts. Also a class1 version	watex.de scheibler-wear.de

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39	TREEMME		-	2	1200g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE KWF		■	■		■	■	■	■	□			□	Brown	US 5.5-15 EU 37-49 UK 4.5-14		treemmecalzature.com
1104	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE			■		■	■	■	■				□		US 7-13 EU 39-48 UK 6-12		treemmecalzature.com
1102	TREEMME		-	2	1300g	Premium Leather	Leather	Steel	Trail Rubber RIGID	CE KWF			■		■	■	■	■	□			□		US 5.5-15 EU 37-49 UK 4.5-14		treemmecalzature.com
UNIVERSAL	McCULLOCH		£140	1	780g (42)	Leather	Textile	n/a	FLEXI	CE		■	■					■	■			□	Black/ yellow	US 8-12 EU 41-45 UK 7-11	Good luck finding this one - we think it's dis-continued or never fully introduced but we still see them for sale.	mcculloch.com
Sawyer Pro	VALLFIREST		€224	2	1275g (42)	Perwanger leather	GoreTex Cambrelle	Composite	Nitrile Rubber FLEXI	CE		■	■		■	■		■			■	■	Black	US 5-17 EU 36-(51) UK 4-16	fire-retardent laces. Also markets Robusta boots under the Vallfirest badge	vallfirest.com
Ericsen VW76	VIKING		$179		-	Leather and Rubber	Cotton canvas	Rubber	Rubber FLEXI	CSA ASTM		■	■				■	■	■			□	Orange/ black	US 6-14 EU 38-47 UK 5-13	Ballistic nylon cut protection in shin and toe areas	vikingwear.com
Leather VW77-1	VIKING		$350	3	-	Leather	`Nylon	Steel	Rubber FLEXI	CSA ASTM			■		■		■	■	■			□	Black	US 6-12 EU 38-46 UK 5-11		vikingwear.com
Black Tusk VW78-1	VIKING		$199	3	-	Leather and Rubber	Cotton canvas	Steel	Rubber FLEXI	CSA ASTM		■	■					■	■			■	Black/ orange	US 5-15 EU 37-49 UK 4-14	also available with spiked sole (add $30)	vikingwear.com
Primus21CS	VÖLKL		€170	2	1150g	2.4-2.6mm Full Grain Leather	Sympatex Moisture-Tec	Steel	Rubber/PU MEDIUM	CE		□	■		■		■	■	■		■	■	Black/red	US 4.5-16 EU 36-50 UK 3.5-15	reflective piping and panels. Zipper	voelkl-professional.com
One CS	VÖLKL		€190	2	1280g	2.4-2.6mm Full Grain Leather	Sympatex Moisture-Tec	Steel	Rubber/PU MEDIUM	CE		□	■		■		■	■	■		■	■	Black/red	US 4.5-16 EU 36-50 UK 3.5-15	Specially designed lateral pull-on aids for use with gloves. Reflective panels. Zipper.	voelkl-professional.com
Rhön	VÖLKL		€190	1	1200g	2.4-2.6mm Full Grain Leather	Leather	Steel	Rubber/PU FLEXI	CE KWF		□	■		■			■	■			□	Black	US 4.5-16 EU 36-50 UK 3.5-15	Reflective piping	voelkl-professional.com
ForstProfi	W.K. TEX		€168	2	-	2-2.2mm hydrophobic Leather	Sympatex	Ceramic	Vibram FLEXI	CE		□	■		■	■	■	■	■			■	Black/ orange	US 7-13 EU 39-47 UK 6-12		wktex.de
Challenger	W.K.TEX		-	1	-	2mm Grained Leather	Puratex	Polyester	Nitrile FLEXI	CE KWF		□	■			■		■	■			□	Black/ orange	US 7-13 EU 39-47 UK 6-12		wktex.de
Forest Jack, Black Forest	WATEX		€120	2	-	Full grain Leather	Textile	Steel	PU/Rubber FLEXI	CE KWF		■	■		■			■	□			□	Black/ orange	US 7-13 EU 39-47 UK 6-12	Also sold as the Workpower Black Forest - sole has orange inserts. Also a class1 version	watex.de scheibler-wear.de

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