

INDUSTRIAL FOOTWEAR





It's never been easier for company employees to purchase industrial footwear at your favorite Mark's store.



CLIENT SAVINGS CARD

Show the card at any Mark's store to receive your specified discount for a variety of store items shown on the card.

These cards are re-useable and valid until the expiry date found at the bottom of the card. The card must be presented for discounts to be applied against regular priced items.

(In the event of an item being sale priced, the lower price will apply.)



CLIENT VOUCHER

Simply show the voucher at any Mark's store to receive the specified discount shown for a variety of store items listed on the voucher.

The voucher must be shown for discounts to be applied against regular priced items. (In the event of an item being sale priced, the lower price will apply.)



CLIENT INDUSTRIAL FOOTWEAR PURCHASING CARD

Our new industrial footwear purchasing card contains all the benefits of the voucher combined with a more flexible client reporting experience and easier in-store purchasing.



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Sizes may be limited in some styles due to unforeseen circumstances. Consult your corporate sales person for the most up-to-date information on styles shown in this book.

Look for these symbols with each style to know if it's suitable for your profession









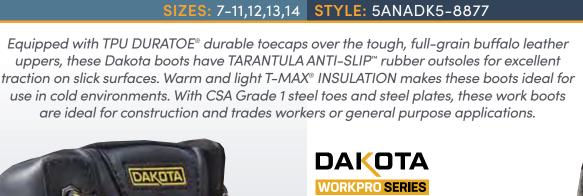




8 INCH FOOTWEAR







STRIBLE

**STR



DAKOTA 8" "8006" WORKPRO SERIES QUAD COMFORT STCP WORK BOOT

- Nubuck leather upper.
- Polyurethane DURATOE® guard.
- Breathable and moisture wicking Cambrelle lining with 200g T-MAX® insulation.
- Removable 4 density EVA footbed.
- Direct injected polyurethane midsole.
- TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.





8" "529" **STSP WORK BOOT**

- Full grain leather upper.
- DURATOE® "529" TPU toecap.
- Moisture wicking and breathable DRI-TEC® lining with 200g T-MAX® insulation.
- Flexible polyurethane welt construction.
- Cushioning Rubberlon midsole.
- TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.





WORKPRO SERIES PU/TPU SAFETY STSP WORK BOOT

- Nubuck leather upper.
- Polyurethane DURATOE® guard.
- DRI-TEC lining with FRESHTECH®.
- 200g T-MAX® insulation.
- Removable polyurethane foam footbed.
- Polyurethane midsole.
- TPU outsole.





HD3 WATERPROOF STSP WORK BOOT

- Waterproof leather upper.
- DURATOE® "529" TPU guard.
- · Moisture wicking and breathable DRI-TEC® lining with 200g T-MAX® insulation.
- HYPER-DRI® HD3 waterproof, breathable membrane.
- · Cushioning Rubberlon midsole.
- TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.



STYLE: 5ANADK9-8517



DAKOTA 8" "8517" QUAD COMFORT STCP WORK BOOT

- Full grain leather upper.
- FRESHTECH® treated lining.
- Multiple density removable polyurethane footbed.
- 200g T-MAX® insulation.
- Flexible poured polyurethane welt midsole.
- TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.





WORKPRO SERIES QUAD COMFORT ATCP WORK BOOT

- Full grain leather upper with TPU/Kevlar® reinforced molded side quarter panels.
- Breathable lining with 200g T-MAX® insulation.
- TPU DURATOE® guard.
- Multiple density removable polyurethane footbed.
- Flexible poured polyurethane welt midsole.
- TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.



















DAKOTA 8" "IRONWORKER" WORKPRO SERIES STSP UNLINED BOOT

- Oiled full grain leather upper with lace to toe lacing system.
- Abrasion resistant toe guard.
- Unlined.
- Removable triple density footbed.
- Wedge rubberlon outsole.







8" ULTRALIGHT **ATCP WORK BOOT**

- High abrasion nylon upper.
- TPU toe cap.
- Breathable, moisture wicking DRI-TEC lining.
- Removable open cell EVA footbed.
- Lightweight EVA midsole.
- Rubber outsole.

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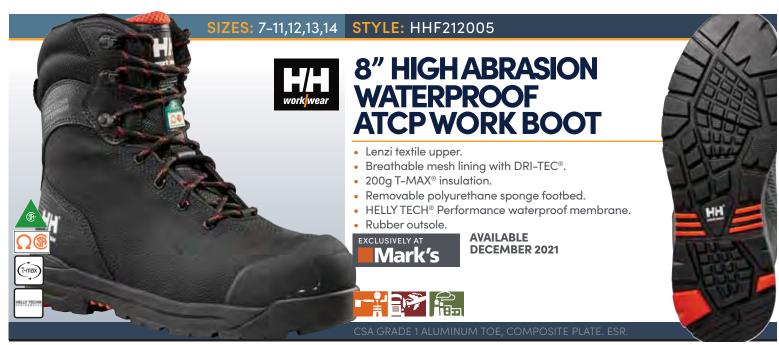


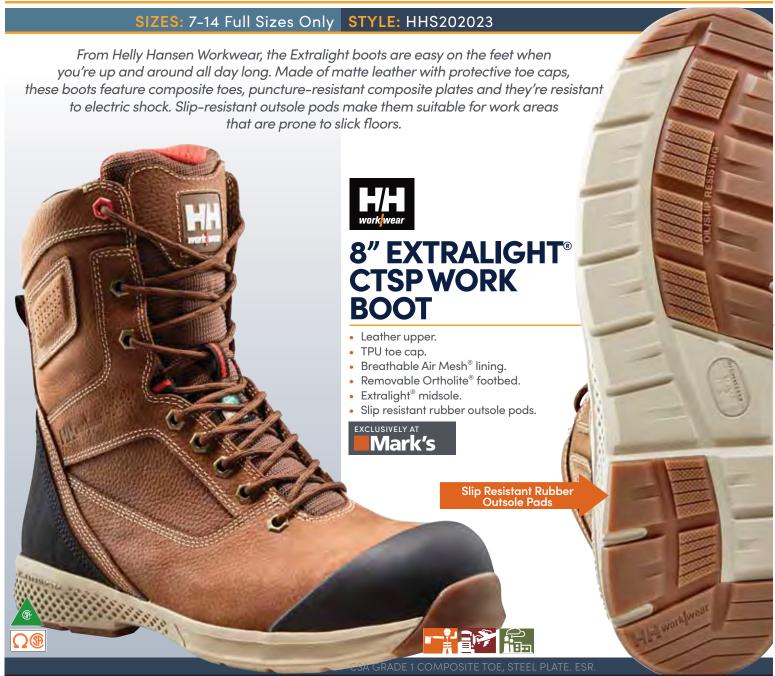
8" CTCP **WORK BOOT**

- Waterproof, full grain leather upper.
- Air Frame lining with 400g T-MAX® insulation.
- Waterproof membrane.
- Removable polyurethane footbed.
- Anti-slip rubber outsole.
- Durable TPU toe guard.

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8" "SENTRY" **CTCP WORK BOOT**

- Full grain leather upper with bellows tongue.
- Abrasion resistant TECTUFF® leather back strap.
- Removable premium comfort polyurethane footbed.
- Polyurethane midsole.
- Slip resistant heavy duty TPU outsole.



Vibram® Fire & Ice rubber outsole.





8" "GANTRY" **CTCP WATERPROOF WORK BOOT**

- Waterproof leather upper.
- Molded TERRA® TPU toe cap.

STYLE: TROA4NRQGYX

- · Moisture wicking lining.
- Hydroguard® waterproof membrane.
- 3M[™] Scotchlite[™] reflective detail for high visibility.
- Polyurethane midsole.
- Vibram Fire & Ice® outsole.







KODIAK 8" "BLUE PLUS" **ATCP WORK BOOT**

- Premium waterproof leather upper with sealed beams.
- Triple stitched molded TPU toe and heel guard.
- Moisture wicking lining.
- Removable COMFORTZONE® dual density footbed.
- Anatomical off0centre last.
- Polyurethane midsole.
- Oil resistant rubber outsole.





8" "CONTROL" WATERPROOF CTCP WORK BOOT

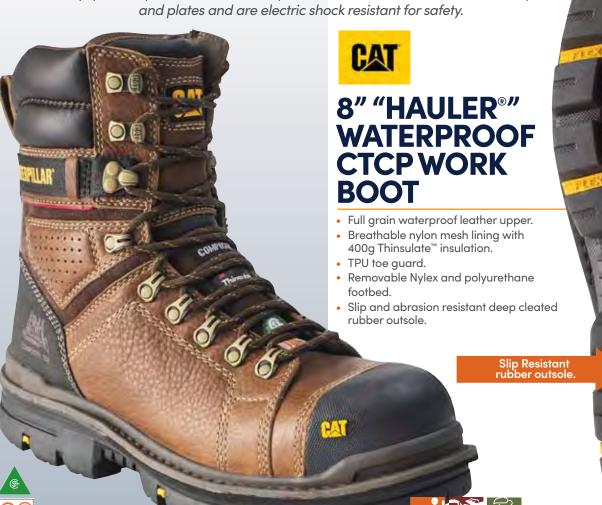
- Full grain waterproof leather upper.
- 200g Thinsulate™ insulation.
- Removable EVA footbed.
- PVC welt midsole.
- Slip resistant rubber outsole.

Slip Resistant rubber outsole.





These eight-inch, insulated work boots have foam insoles for added comfort and they're removable should you want to insert custom models. Thinsulate insulation works with the nylon mesh linings to keep your feet warm without overheating. The deep cleated rubber outsoles give you great traction. Ideal for construction workers, trades workers, builders and equipment operators, these waterproof workboots have CSA Grade 1 comp toes and plates and are electric shock resistant for safety.





8" "THERMOSTATIC" VIBRAM ARCTIC GRIP CTCP WORK BOOT

- Full grain leather upper.
- Waterproof membrane.
- 400g Thinsulate™ insulation.
- "EASE" comfort footbed.
- Vibram® Arctic Grip Pro rubber outsole.

Vibram[®] Arctic Grip Pro rubber outsole.





WOLVERINE 6" "I-90 DURASHOCKS WEDGE" CTCP **WORK BOOT**

- Full grain leather upper.
- Carbon Max Toe.
- Unlined
- Polyurethane midsole.
- I-90 abrasion resistant TPU pads in outsole for durability and comfort.





DURASHOCKS" **CTCPWORK BOOT**

- Full grain leather upper.
- Reinforced ArmorTek[™] vamp and heel counter.
- · Breathable mesh lining.
- Waterproof, breathable membrane.
- Removable DuraShocks® dual-density polyurethane footbed.
- Wolverine DuraShocks® rubber log insole.

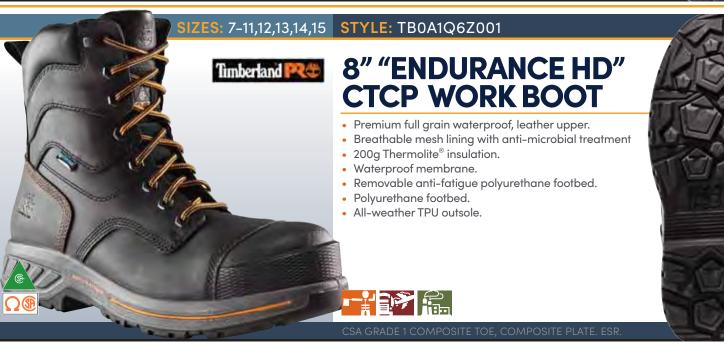




8" "GRIDWORKS" **ATCP WORK BOOT**

- Full grain leather upper.
- Mesh lining with antimicrobial treatment.
- Waterproof membrane.
- Removable anti-fatigue technology footbed.
- Lightweight, cushioning EVA midsole.
- All weather TPU outsole.







8" "ENDURANCE HD" **CTCP WORK BOOT**

- Premium full grain waterproof leather upper.
- Breathable mesh lining with antimicrobial treatment.
- 200g Thermolite® insulation.
- Waterproof membrane.
- Removable anti-fatigue technology footbed.
- Polyurethane midsole.
- All-weather TPU outsole.

EXCLUSIVELY AT Mark











carhartt 6 8" "WORK FLEX" **CTCP WORK BOOT**

- Waterproof leather upper with rubber toe overlay.
- Breathable lining with 400g Thinsulate[™] insulation.
- Polyurethane Ortholite® footbed.
- EVA midsole.
- Carhartt[®] rubber outsole.





carbantt 10" "FLEX MUD WELLINGTON" CTCP WORK BOOT

- Full grain leather upper.
- Polyurethane coated leather half shell.
- Breathable lining with 400g 3M™ Thinsulate™ insulation.
- Storm Defender® waterproof, breathable technology.
- Polyurethane/Ortholite[™] footbed.
- EVA midsole/Carhartt® rubber outsole.





carbantt 6 8" "GROUND FORCE" **WATERPROOF CTCP WORK BOOT**

- Black oil tanned leather upper.
- Storm Defender® waterproof, breathable technology.
- 400g 3M™ Thinsulate™ insulation.
- Removable dual form Insite® Technology footbed.
- Lightweight EVA midsole.
- Carhartt Ground Force® rubber outsole.



INSULATED CTCP WORK BOOT

- · Leather upper.
- TPU toe cap.
- TAIBRELLE® lining with 200g Thinsulate™ insulation.
- Removable polyurethane footbed.
- Polyurethane midsole.
 - Oil resistant rubber outsole.





WATERPROOF CTCP WORK BOOT

- Waterproof full grain leather upper.
- TPU toe cap.
- Waterproof AIRFLOW™ membrane.
- TAIBRELLE® lining./ Removable polyurethane footbed.
- Polyurethane midsole.
- Rubber outsole.







8" "PHILADELPHIA" WATERPROOF **CTCP WORK BOOT**

- Full grain waterproof leather upper.
- KEEN.DRY waterproof, breathable lining.
- 200g KEEN.WARM insulation.
- Removable polyurethane footbed.
- Polyurethane midsole.
- Rubber outsole.





WHY METATARSAL WORK BOOTS ARE SO IMPORTANT IN THE WORKPLACE.

Metatarsal is the name given to the five bones found in the middle of the foot that form the arch and connected to tissues, ligaments and tendons, providing movement in the foot. This area of the foot is vulnerable to falling objects as there is virtually no flesh, muscle or fat protecting these important bones which makes wearing boots with metatarsal guards so important.

Safety Toe Versus Metatarsal Work Boots

The safety toe will protect primarily the big toe and two to three toes leaving the rest of the foot back to the ankle area susceptible to injury. In this small unprotected area there is 26 bones, 33 joints, 107 ligaments, 19 muscles plus tendons and nerves which can be protected with the addition of a metatarsal guard in work boots.

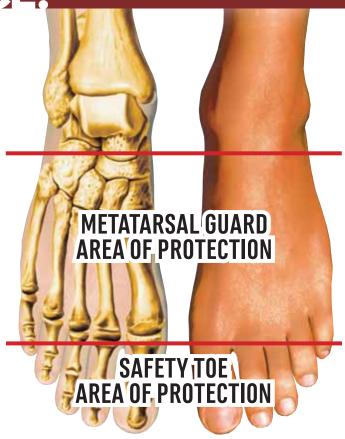
Choosing A Metguard Boot

There are two types of metatarsal guards – external and internal. They both have to meet the same CSA Z195–14 and ASTM standards, using a specific impact test for metatarsal guards. A 50–pound weight in the shape of a 1 inch diameter bar is dropped eighteen inches onto the metatarsal area of the shoe, resulting in a 75 foot–pound impact to the metatarsal guard. A full 1-inch clearance must be maintained under the metatarsal impact area on the inside of the shoe. The results are clearly seen and measured from a soft wax foot–form, which was placed within the shoe before the test and removed afterward to measure the deflection of the guard during impact.

The Difference Between External and Internal Guards?

External metatarsal guards have the layer of protection on the outside of the footwear, like a turtle's shell. A protective material is usually attached to the toe of the shoe and extends upwards and covers the entire top of the foot. Internal metatarsal guards have the layer of flexible protection on the inside of the footwear offering more comfort. Both guard designs have been improved over the years to offer a high degree of protection with improved resilience and comfort.

Metatarsal boots are very necessary in many environments. It is important to remember that certain industries and companies have specific requirements, regarding which guard they prefer; however, advanced technology has made either option much safer, and more comfortable, in addition to being available in a myriad of styles.























TARANTULA® ANTI-SLIP rubber outsole.



















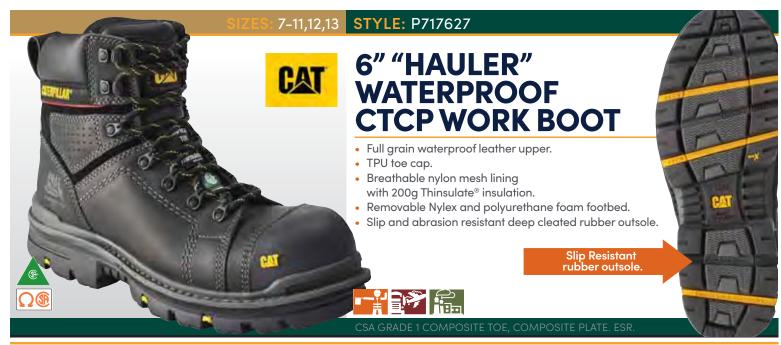






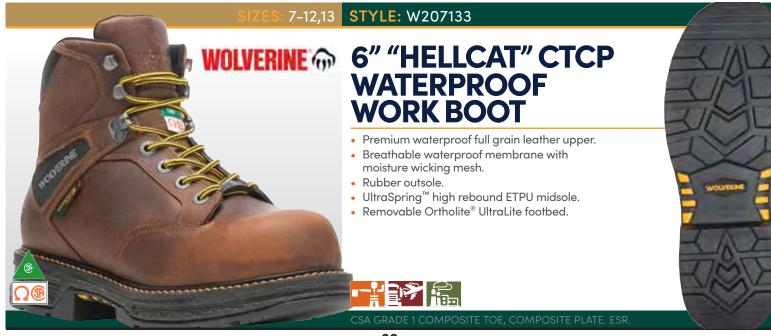






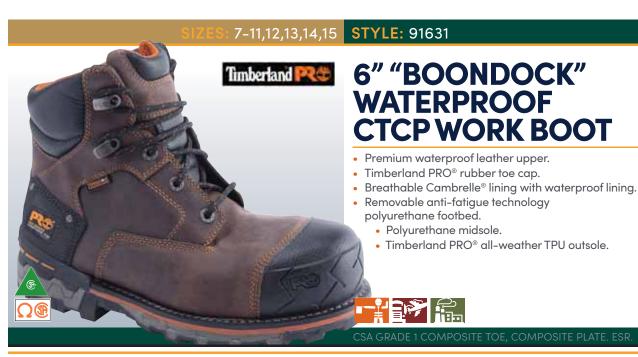


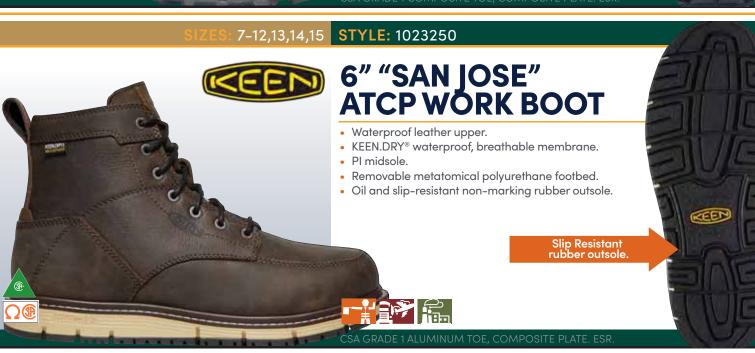














carbartt 6 6" LEATHER **RUGGED FLEX CTCP WORK BOOT**

- Full grain leather upper.
- Abrasion resistant rubber toe and heel bumpers.
- Polyurethane/Ortholite® footbed.
- Storm Defender® waterproof, breathable technology.
- Carhartt® Rugged Flex rubber outsole.



HOCTWEAR



LOW-CUT SAFETY STSP HIKING SHOE

- Polyurethane mesh upper.
- · Mesh lining.
- Removable polyurethane footbed.
- EVA midsole.
- Rubber outsole.



7-11,12,13,14 STYLE: 5ANCAG9-2300



MID-CUT SAFETY STSP HIKING BOOT

- Polyurethane mesh upper.
- · Mesh lining.
- Removable polyurethane footbed.
- EVA midsole.
- Rubber outsole.



7-11,12,13,14 STYLE: 5ANCDK0-2302



DAKOTA QUAD COMFORT ATCP LOW-CUT YARD SHOE

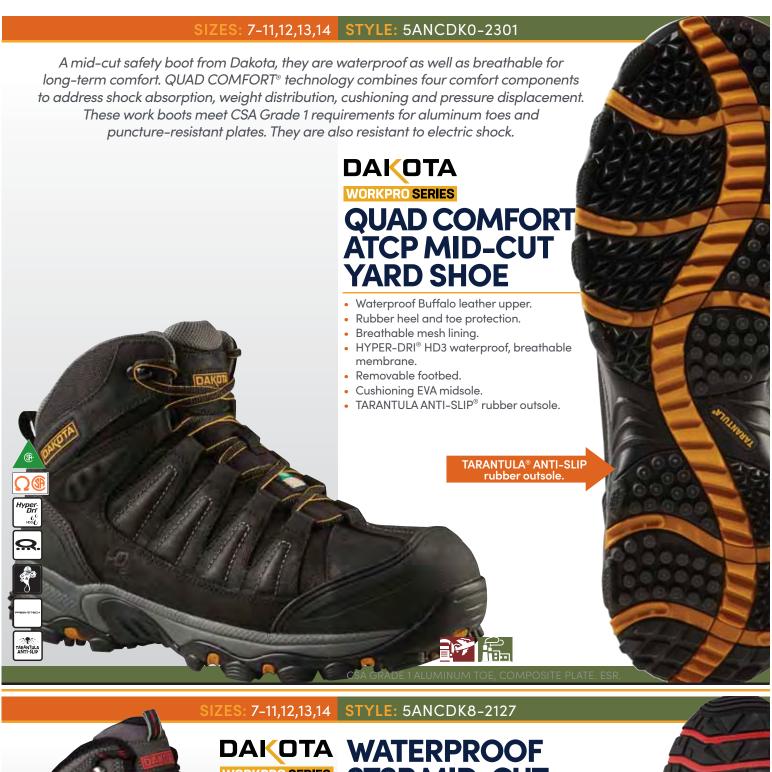
- Open air mesh and polyurethane upper.
- Rubber heel and toe protection.
- Breathable mesh lining with FRESHTECH®.
- Removable footbed.
- Cushioning EVA midsole.
- TARANTULA ANTI-SLIP® rubber outsole.

TARANTULA® ANTI-SLIP



















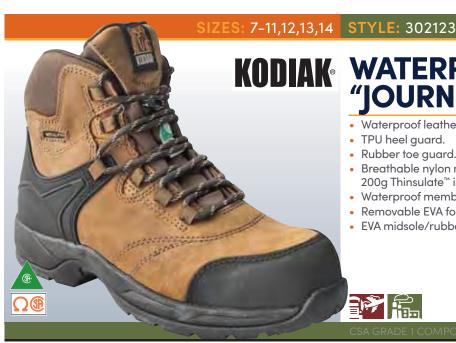








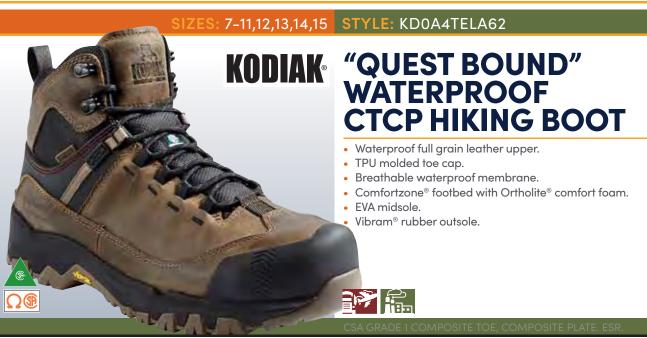




KODIAK WATERPROOF CTCP "JOURNEY" HIKER

- Waterproof leather upper.
- TPU heel guard.
- Rubber toe guard.
- Breathable nylon mesh lining with 200g Thinsulate™ insulation.
- Waterproof membrane.
- Removable EVA footbed.
- EVA midsole/rubber outsole.







"OUTLINE" STSP LEATHER HIKER

- Full grain leather upper.
- Breathable nylon mesh lining.
- Removable molded EVA footbed.
- Rubber midsole.
- Rubber outsole.

7-11,12,13 STYLE: P720996

























































































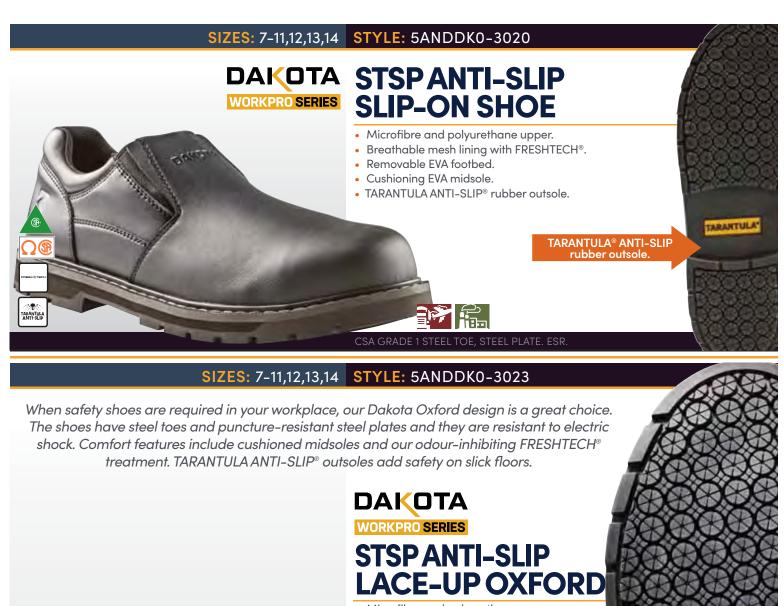
ANTI-SLIP FOOTWEAR

TARANTULA"























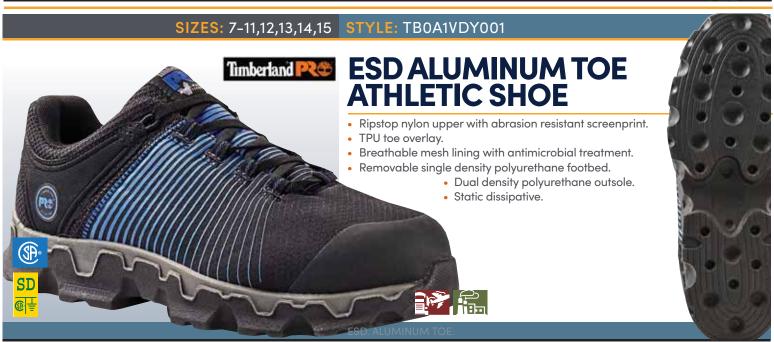


STATIC DISSIPATIVE FOOTWEAR

TARANTULA"











NST INSULATED WET WEATHER BOOT

- 100% waterproof molded TPO upper.
- Nylon cuff with drawstring keeps moisture out.
- Long wearing, self-cleaning outsole.
- Wool blend liner is tested to a true comfort rating of -20 to -30° C.

LINER AVAILABLE - 5ANFAG3-01LNR





STSP INSULATED WET WEATHER BOOT

- 100% waterproof molded TPO upper.
- · Nylon cuff with drawstring keeps moisture out.
- Wool blend liner is tested to a true comfort level of -20 to -30° C.
- Long wearing, self-cleaning outsole.

LINER AVAILABLE - 5ANFAG3-01LNR





NST SYNTROL PREMIUM INJECTED BOOT

- TPR upper.
- Unlined.
- Premium poured polyurethane footbed.
- TPR midsole.
- TPR outsole.









STSP POLYURETHANE WET WEATHER BOOT

- Waterproof injected polyurethane upper.
- · Nylon lining.
- Removable polyurethane footbed.
- Lightweight injected polyurethane outsole.

Mark's





STSP POLYURETHANE WET WEATHER BOOT

- Long wearing polyurethane upper.
- Polyurethane footbed for added comfort.
- H/H Workwear rubber outsole provides high traction in wet environments.
- Waterproof.
- Tested to a true temperature rating of -20 to -30° C.

EXCLUSIVELY AT Mark

Slip Resistant rubber outsole





"BLACKHAWK" NON-SAFETY WET WEATHER BOOT

- · Lightweight TPU compound upper.
- Unlined.
- Removable comfort footbed.
- Self-cleaning outsole TPR outsole.









When your job involves working in wet environments or mucking out animal stalls, these Baffin Blackhawk safety boots are an ideal choice. They offer an anti-fatigue component and comfortable insoles that can be removed if necessary. The rubber boots meet CSA Grade 1 requirements for toe and underfoot protection.





"BLACKHAWK" **STSPWET WEATHER BOOT**

- Lightweight TPU compound upper.
- Unlined.
- Removable comfort footbed.
- Self-cleaning outsole TPR outsole.









STSP FELT LINED RUBBER BOOT

- One piece TR upper.
- Wool blend liner.
- Long wearing self-cleaning outsole.









CTCP "SNUGBOOT" SD **WET WEATHER BOOT**

- Purotex breathable, waterproof upper.
- Polyurethane shell.
- Energy absorption in heel.
- Slip resistant cleated rubber outsole.
- Static dissipative.

Slip Resistant rubber outsole.





STSP POLYURETHANE **COLD WEATHER BOOT**

- · Lightweight, long wearing polyurethane upper.
- Thermo+ extreme cold weather lining.
- Dunlop polyurethane footbed.
- Polyurethane outsole provides high traction in wet environments.
- · Static dissipative.





"EXPLORER" STSP VIBRAM PU WET WEATHER BOOT

- Flexible Purofort upper.
- Dunlop branded red welded lining.
- Premium footbed.
- Vibram® Fire & Ice outsole

Vibram® Fire & Ice rubber outsole.





CHINDOK NON-SAFETY PVC **WET WEATHER BOOT**

- Eco-friendly construction.
- Made from recycled material.
- Seamless waterproof construction.
- Durable multi-directional lug outsole.





SIZES: 6-17 Full STYLE: A1305B-11



ACTON LOW-CUT **WIDE FIT OVERSHOE**

- Rubber upper.
- Extra wide opening.
- Extra wide fit.





SINGLE STRAP WORK BOOT OVERSHOE

- Rubber upper.
- Unlined.
- Rubber outsole.

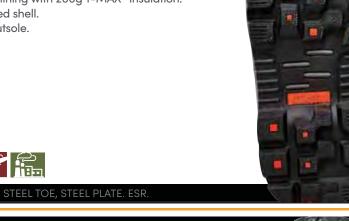






STSPTRANSITIONAL WINTER WORK BOOT

- Polyurethane Nubuck upper.
- DRI-TEC® lining with 200g T-MAX® insulation.
- Flat molded shell.
- Rubber outsole.





"8907" TRANSITIONAL CTCP WINTER BOOT

- Action leather upper.
- Mesh lining with 400g T-MAX® insulation.
- Removable EVA footbed.
- ICEFX® rubber outsole.
- Tested to a true temperature rating of -40 to -50° C.

TARANTULA® ANTI-SLIP





"8901" TRANSITIONAL CTCP HD3 WINTER BOOT

- Diesel and oil resistant waterproof full grain leather upper.
- 400g T-MAX® insulation.
- Removable liner system.
- TPU DURATOE® guard.
- HYPER-DRI HD3 waterproof, breathable membrane.
- ICEFX® rubber outsole.
- Tested to a true temperature rating of -40 to -50° C. **LINER AVAILABLE 5ANF7-LNR-8901**



TARANTULA® ANTI-SLIP











DAKOTA "8524" CTCP SYNTROL FELT PACK WINTER BOOT

- Oil, diesel and chemical resistant Syntrol upper.
- Oil resistant polyurethane shell.
- Superior removable liner system with 400g T-MAX® insulation.
- 6mm frost plug helps keep feet dry.
- Oil resistant midsole.
- Oil and diesel resistant ICEFX outsole.
- Tested to a true temperature rating of -50 to -60° C.

LINER AVAILABLE - 5ANF-LNR-8524



TARANTULA® ANTI-SLIP rubber outsole.

CSA GRADE 1 COMPOSITE TOE, COMPOSITE PLATE. ESR

SIZES: 7-15 Full STYLE: HHF186118

Fitted with removable liners, these Helly Hansen Workwear boots are built to protect your feet in extreme conditions. They feature our T-MAX® light and warm insulation. The boots meet CSA Grade 1 standards with composite toes and plates which are electric shock and puncture resistant. Tough rubber outsoles with Green Diamond® technology provide superior non-slip properties when in contact with wet, oily and icy conditions.





CTCP WINTER BOOT

- Oil resistant fabric upper.
- · Polyurethane shell.
- · Removable liner with 200g T-MAX® insulation.
- Rubber outsole.
- Tested to a true temperature rating of -50 to -60 $^{\circ}$ C.

LINER AVAILABLE - HHF19-LNR-6118



TARANTULA® ANTI-SLIP rubber outsole





CSA GRADE 1 COMPOSITE TOE, COMPOSITE PLATE. ESR



CTCP FELT PACK WINTER WORK BOOT

- HELCORE 3D carbon upper is oil, diesel and chemical resistant.
- Removable truForm liner for comfort, stability and thermal protection.
- Rubber outsole with ICEFX.
- 400g T-MAX® insulation.
- Seam sealed wapterproof polyurethane shell.
- Frost plug footbed.
- Tested to a true temperature rating of -40 to -50° C.

Mark

TARANTULA® ANTI-SLIP rubber outsole.



OMPOSITE TOE, COMPOSITE PLATE. ESR



CTCP WINTER BOOT

- Abrasion resistant leather and nylon ripstop upper.
- HELLY TECH® Performance waterproof technology.
- EVA midsole.
- Removable EVE footbed with T-MAX® HEAT LINING.
- Removable liner with T-MAX insulation.
- ICEFX rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole.



CSA GRADE 1 COMPOSITE TOE, COMPOSITE PLATE. ESR



METAL FREE "CROSSBOW" CTCP TRANSITIONAL BOOT

- Full grain waterproof leather upper.
- Full polyurethane shell.
- Removable 4 layer liner system.
- High traction rubber outsole.

Slip Resistant







8" STSP **WORK BOOT**

- Buffalo leather upper.
- Polyurethane toe guard.
- · Breathable mesh and foam lining.
- Removable one density footbed.
- Durable and lightweight polyurethane outsole.

















8" "BERGEN" STCP WORK BOOT

- Waterproof leather upper.
- DRI-TEC® with FRESHTECH® treated lining.
- 200g T-MAX® insulation.
- HELLY TECH® waterproof membrane.
- Removable EVA footbed.
- EVA midsole.
- Rubber outsole.

EXCLUSIVELY AT Mark's





8" "CLOVER" STSP WORK BOOT

- Full grain leather upper with knit collar.
- Nylon lining.
- EASE footbed.
- Molded EVA midsole.
- Rubber outsole.





WOLVERINE 6 8" "CONDOR" **WATERPROOF CTCP WORK BOOT**

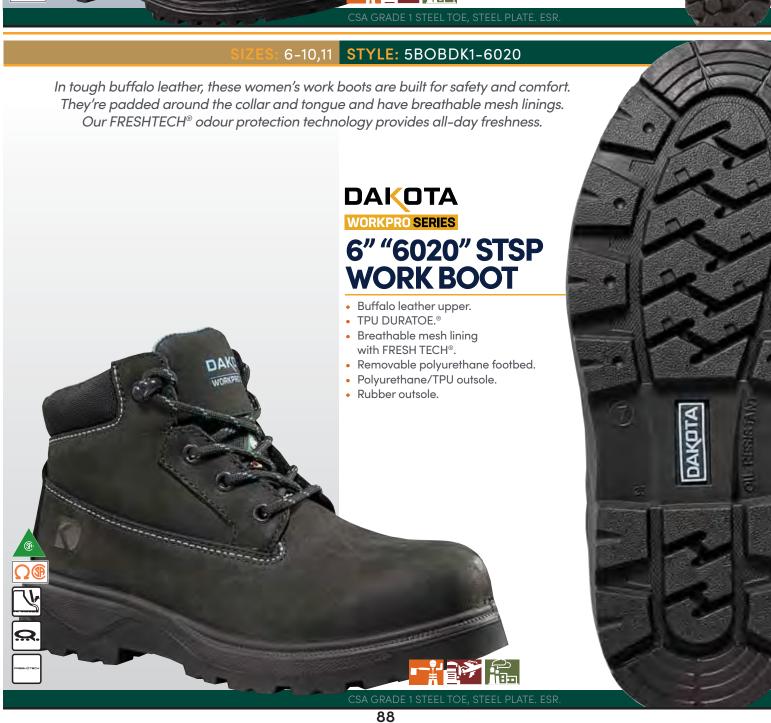
- Waterproof leather upper.
- · Moisture wicking mesh lining.
- Removable dual density comfort cushion footbed.
- 200g Thinsulate[™] insulation.
- Sculpted oil and slip resistant rubber outsole.

Slip Resistant rubber outsole.







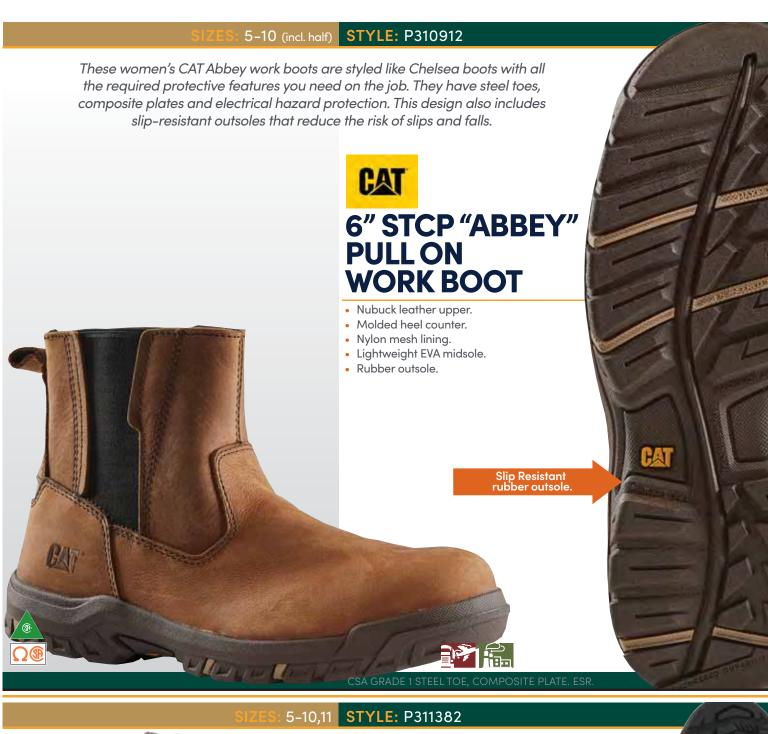




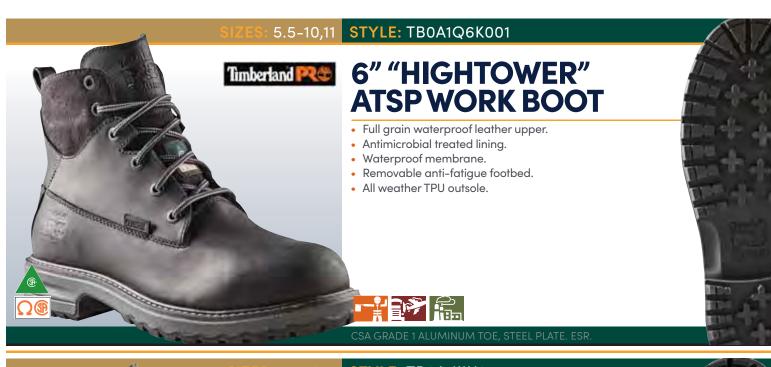




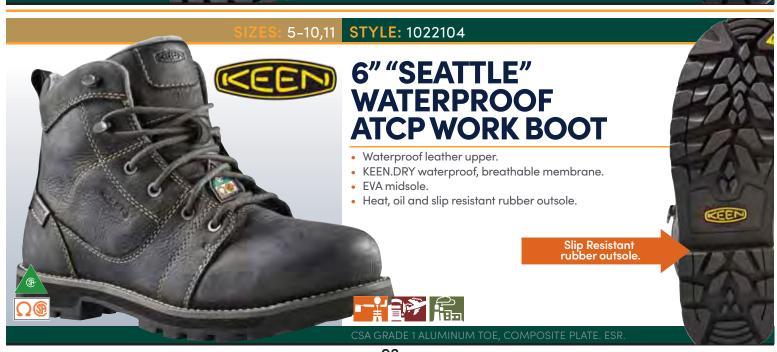












HKER FOOTWEAR

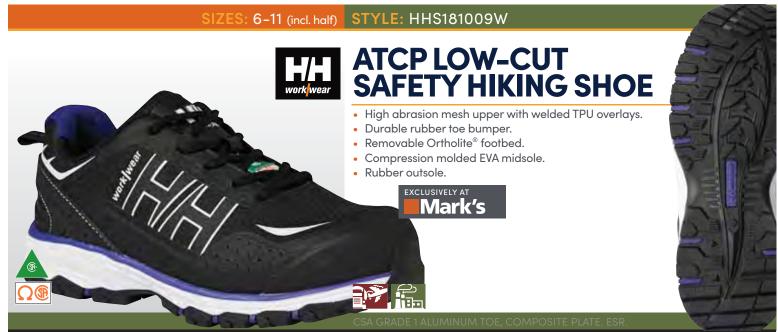












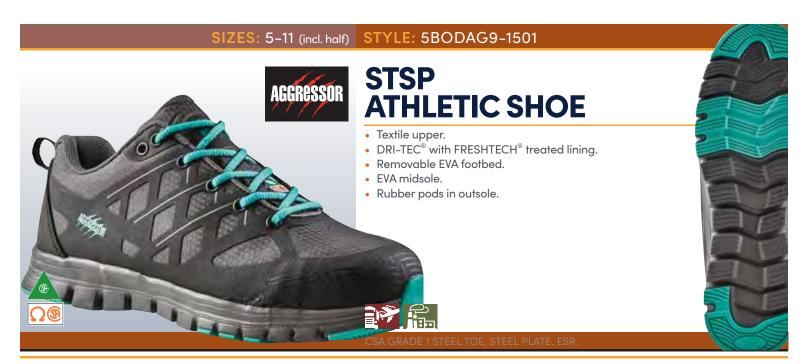
















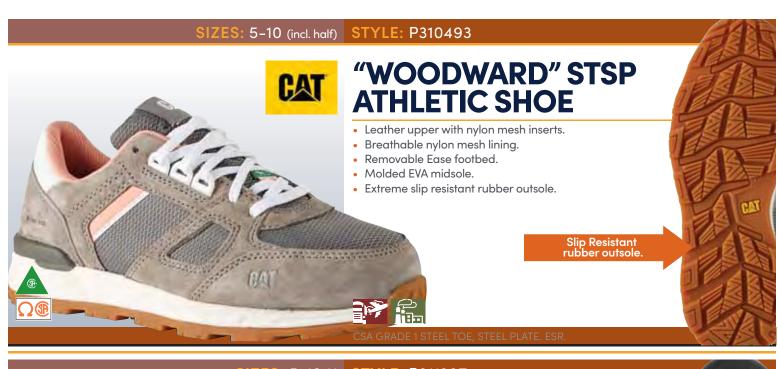














































NST INSULATED WET WEATHER BOOT

- Adjustable cuff keeps snow and debris out.
- Removable insulated wool felt liner.
- Durable TPE injected construction.
- Self-cleaning multi-directional traction rubber outsole.











SIZES: 5-10 Full Sizes STYLE: HHS166113W

- Oil resistant polyurethane upper.
- Nylon lining.
- Removable footbed with arch support.
- Injected polyurethane midsole for added comfort.
- Rubber outsole.





CSA GRADE 1 STEEL TOE, STEEL PLATE, ESE



Reduce the likelihood of slipping or falling at the workplace on wet and/or greasy surfaces with the excellent assortment of slip resistant footwear at Mark's

We have the shoe you need in both men's and women's styles from work boots to casual, wet or cold weather! Whatever job you need slip resistant footwear for, chances are you'll find it at Mark's.







DAKOTA "8905" **CTCP** TRANSITIONAL WINTER WORK BOOT

- Waterproof full grain leather upper.
- Mesh lining with 400g T-MAX® insulation.
- HYPER-DRI® HD3 waterproof, breathable membrane.
- Lightweight EVA shell.
- ICEFX® rubber outsole.
- Tested to a true temperature rating of -30 to -40° C.

TARANTULA® ANTI-SLIP rubber outsole.



COMPOSITE TOE, COMPOSITE PLATE. ESR



"THERMALECTRIC" **CTCP WINTER BOOT**

- Waterproof full grain leather upper.
- Mesh lining with FRESHTECH® treatment.
- 400g T-MAX® insulation.
- Removable polyurethane sponge footbed.
- ICEFX® rubber outsole.
- THERMALECTRIC® heated technology.

TARANTULA® ANTI-SLIP rubber outsole.

TARANTULA® ANTI-SLIP rubber outsole



CSA GRADE 1 COMPOSITE TOE, COMPOSITE PLATE. ESR.



DAKOTA CTCP FELT PACK **WINTER BOOT**

- Synthetic polyurethane Nubuck upper.
- Lightweight EVA shell.
- Removable liner system.
- 400g T-MAX® insulation.
- ICEFX® rubber outsole.

LINER AVAILABLE 5BOF-LNR-8520

INFOR MATION



Footwear Innovations



ARMOUR FLEX® /ARMOUR FLEX+®

This technology is a multi-layer textile composite made from a high tenacity yarn. The woven fabric undergoes different treatments to reach the desired level of hardness while maintaining its flexibility. The ARMOUR-FLEX® textile insole can be sewn directly onto the upper and offers a greater area of protection of the bottom of the foot. ARMOUR-FLEX® will keep your feet warmer in winter because, unlike steel, it will not conduct heat away from your foot. ARMOUR-FLEX® provides the technology that you need to keep your feet protected, while still allowing your foot to bend. ARMOUR-FLEX®+ uses a slightly heavier and stiffer material than regular ARMOUR-FLEX® construction and offers a higher puncture resistance.



DURATOE®

DURATOE® is a molded toe cap applied to the outside of the work boot to increase the life of the toe area of the boot. The toe cap can be made of a variety of materials that may look or have properties similar to plastics and other artificial components. They will be quite flexible and extremely durable, ensuring that the toes of your work boots withstand hard wearing.



FRESHTECH®

FRESHTECH® is a safe and invisible antimicrobial treatment that is applied to our footwear and garment products. In garments the treatment inhibits the growth of bacteria that cause odor. In footwear the treatment inhibits the growth of fungi, mold, and mildew, in addition to odor causing bacteria. The FRESHTECH® treatment stops bacteria and fungi from reproducing, which creates a safe and comfortable product. We ensure the effectiveness and durability of FRESHTECH® through standard testing.



HYPER-DRI® FOOTWEAR

Waterproof/Breathable: Designed with a seam sealed, bootie shaped, waterproof and breathable membrane providing an impenetrable barrier to the elements while allowing body generated moisture to escape. The membrane used must meet our high waterproof and water vapour transmission testing standards. Footwear is water tank tested to 50 000 foot flexes to simulate extreme conditions.



QUAD-COMFORT®

The QUAD COMFORT® footwear technology consists of a minimum of 4 comfort components, which address shock absorption, weight distribution, cushioning & pressure displacement and occasionally outsole performance. The construction of the footwear depends on their end use and the requirements of the footwear. The four components are integrated between the footbed or insole through to the bottom of the outsole. If a component provides a significant and functionally noticeable advantage, it may also comprise a feature that is incorporated into the upper of the footwear. Shock absorption is addressed by adding additional cushioning in the heel of the shoe as it is the first areas of contact when walking. Another component of comfort can be added under the ball of the foot to help distribute weight, alleviate pressure points and provide greater energy return. For cushioning and pressure displacement, our footwear uses lightweight, flexible functional midsoles that can be made up of many densities of cushioning. Lastly, outsoles are functionally engineered to provide the utmost in comfort, shock absorption and flexibility.

Other outsole materials may also be considered such as leather if they truly provide a comfort component or benefit to the end user. Our TARANTULA ANTI-SLIP® outsoles can be used for QUAD COMFORT® footwear to provide a high degree of slip resistance to reduce the likelihood of a slip or fall while still maintaining QUAD COMFORT features in their structure.



TARANTULA ANTI-SLIP®

Our TARANTULA ANTI-SLIP® outsoles provide the ultimate in slip protection by reducing the likelihood that you'll slip or fall on wet and/or greasy surfaces. To achieve this high performance, the outsoles use a unique tread pattern and advanced compound to increase the coefficient of friction. Our anti-slip outsoles provide incredible grip to resist slipping on most surfaces including wet, soapy, oily and greasy surfaces. To achieve this high performance, the footwear has a unique tread pattern and soft rubber compound to increase the coefficient of friction. Many other shoe outsoles hydroplane on wet surfaces, resulting in poor traction for the wearer. TARANTULA ANTI-SLIP® outsoles, however, push liquids to the outside using unique micro channels, instead of keeping liquids underfoot.

DISCLAIMER: This footwear has been tested for wet and dry conditions. It has not been tested for use on any type of ice.



TARANTULA® TRACTION ON DEMAND

TARANTULA® TRACTION ON DEMAND is an advanced and durable retractable spike technology made with the strongest tungsten carbide materials. The spikes are deployed and retracted on demand with the turn of a handle for convenience. They are functionally designed to maximize grip performance on icy surfaces. DISCLAIMER: These retractable spikes are intended for outdoor use. The spikes are specifically designed to bite into ice but will also bite into indoor surfaces. Please ensure to retract the spikes before going indoors.



CFFX[©]

ICEFX® has an innovative tread design to provide greater surface contact in the heel strike zone and forefoot to achieve an anti-slip outsole. The outsole also uses a softer, more flexible rubber compound that does not harden in the cold and incorporates gripping pods to provide enhanced traction. ICEFX® may also utilize other compounds or materials in the outsole to help achieve slip resistance on ice. Constant research is explored to search for new and better materials to provide a "Safer Way to Walk on Ice".

DISCLAIMER: ICEFX® provides enhanced traction on ice but does not guarantee slips will not occur under any circumstances. Care should always be taken when walking on ice.

THERMALECTRIC®

THERMALECTRIC® was created to provide maximum comfort in the cold. Designed with an innovative and rechargeable, three temperature heating system, these rugged items have the ability to keep you warm

Footwear Innovations

in the cold weather. Just by pressing the LED flame button, heat is instantly supplied to the product using a power pack. The power pack can be easily recharged when needed.



T-MAX®

The warmest, lightest hypo-allergenic insulation on the market. It regulates body temperature by allowing moisture to move away from the body, keeping the body dry and comfortable.



VIBRAM®

Vibram soles are an expert integration of functional design and high performance compounds. Vibram

ensures that demanding workers have reliable and safe products for their professional activities, in any situation, in any weather condition or environment. Grip, stability, heat and oil resistance, electrical hazard rated, flexibility: a boot powered by Vibram improves worker efficiency, performance, reliability and comfort.



VIBRAM FIRE & ICE®

The Vibram® Fire & Ice™ compound has been studied for extreme applications and maintains its performance values in a wide range of temperatures (from - 20°C to + 250°C). The formulation satisfies both requirements for fire resistance from NFPA and the Ross cold flex at -23°C.

What Is Rate My Treads?



ratemytreads.com

The KITE Research Institute is the research arm of the Toronto Rehabilitation Institute at the University Health Network located in Toronto. KITE is home to WinterLab, which originally opened as part of the IDAPT (Intelligent Design for Adaptation, Participation and Technology) Centre for Rehabilitation.

KITE works with a broad range of clinicians, engineers, scientists, researchers, students and more to find practical solutions to common problems. We care about slips, trips and falls and their impact on a person's mobility and quality of life.

The researchers at KITE had a vision and a belief: we believe that choosing the right footwear can reduce and prevent unintentional slips and falls. The outcome? The world's only human oriented slip resistant testing method done in a real winter environment – our Maximum Achievable Angle (MAA) Test.

The Maximum Achievable Angle (MAA) Test - We Tip Till You Slip

Participants walk back and forth on an ice floor while we slowly increase the angle of the floor. We call our method the Maximum Achievable Angle Test or MAA.

OUR RATING SYSTEM

If footwear passes an angle of 7 degrees (which means it will have a score of 7), then it passes our MAA test and is on the list with one snowflake! We picked 7 as the



minimum because it meets the accessibility guidelines in Ontario for a curb ramp.

If footwear has a score of 11 then it will get 2 snowflakes and if it reaches 15 or above, it will receive 3 snowflakes!

We test on both Cold Ice and Wet Ice to simulate different environments, from an icy parking lot to a slippery wet sidewalk. It is also important that you can walk up and down a ramp, so we test participants walking both uphill and downhill for this very reason.

To ensure maximum slip protection, we base our overall score for each footwear on the lowest MAA from the four testing conditions.

As mentioned above, the footwear was tested under two conditions (Cold Ice and Wet Ice). Those that passed both conditions received two checkmarks; however, there were some that performed well under one condition only, and they received a single checkmark.

Our top picks

(meeting our minimum slip resistance standard for icy conditions)

BRAND	NAME	RATINGS	MAA SCORE	WET ICE	COLD
Dakota	"8901" Transitional Boots 5ANFDKW7-8901 - Pg.78	**	12	/	/
Dakota	"8527" Leather Winter Boots 5ANFDKW8-8527 - Pg.80	***	12	/	V
Helly Hansen	CTCP Winter Boots HHF186118 - Pg.81	***	11	~	/
Helly Hansen	CTCP Winter Boots HHF196119 - Pg.82	**	11	/	/
Helly Hansen	CTCP Felt Pack Boots HHF146111 - Pg.82	***	10	/	/
Dakota	"8524" Felt Pack Boots 5ANFDKW6-8524 - Pg.81	***	9	/	/
Dakota	Thermalectric Boots 5ANFDK8-8911 - Pg.79	***	9	/	/
Dakota	Transitional Boots 5ANFDKW0-8907 - Pg.78	***	8	~	/
Dakota	"8510" Vibram Work Boots 5ANADK7-8510 - Pg.7	***	8	/	/
Dakota	Wmn's "8905" Work Boots 5BOFDK8-8905 - Pg.116	***	8	~	~
Dakota	Wmn's "8520" Felt Pack Boots 5BOFDK7-8520 - Pg.116	***	8	/	/
Dakota	Wmn's Thermalectric Boots 5BOFDK9-8906 - Pg.116			'	

For a complete listing of all footwear reviewed go to - ratemytreads.com

Deciphering The Symbols



CSA Green Triangle

Indicates sole puncture protection with Grade 1 protective toecap which can withstand impacts of 125 joules (22.7 kg object falling from 56 cm above).



CSA White Rectangle with Orange Omega

Indicates soles that provide electric shock resistance. Intended to withstand 18,000 volts at 60Hz for one minute without disruptive discharge to ground; leakage current not exceeding 1mA.



CSA Yellow Rectangle

Indicates soles are static-dissipative.

Warning: This footwear should not be used where contact with live electrical conductors can occur.



CSA Blue Rectangle

Indicates Grade 1 protective toecap without sole puncture protection.



CSA Dark Grey Rectangle with White M

Indicates metatarsal protection. Note: Toe protection is required for all metatarsal protective footwear.

These boots are intended for industrial work environments where heavy objects can hurt the metatarsal region of the foot.

The Language of Footwear

ANSI

International standards organization that develops and publishes voluntary consensus technical standards for a range of materials.

Aerospace Lining

A breathable synthetic lining comprised of a mesh-like structure.

Anti-microbial

A chemical treatment applied to footwear linings which prevents microbe growth.

ATCP

Aluminum toe, composite plate.

Cement Construction

A shoe construction in which the upper of a shoe is cemented, rather than stitched, to the bottom of a shoe. Cement construction results in a lighter, more flexible shoe.

Contoured Footbed

An insole that molds to the shape of your foot.

Composite Plate

A safety, puncture resistant sole plate used in safety footwear in replacement of steel plates. A few varieties exist today, made of synthetic materials such as nylons, resins and also Kevlar.

CTCP

Composite toe, composite plate.

Dri-Tec

A generic term for breathable, moisture-wicking lining found in footwear.

Dual Density Midsole

A midsole that employs two different densities of cushioning foam.

ESR

Electrical shock resistance.

EVA

Ethylene Vinyl Acetate - A synthetic compound used for outsoles. EVA provides cushioning to the footbeds, midsoles, and is easily shaped by heat and pressure.

Footbed

Sometimes also referred to by customers as the insole. It is the foundation in footwear that rests under the foot and has a critical role in comfort.

Goodyear Welt Construction

A shoe construction in which the upper and sole of the shoe are stitched together, resulting in greater durability. The resulting seam is visible and runs around the outside of the shoe, where the upper and outsole meet.

Green Diamond Technology

Patented silica carbide crystals are embedded throughout the rubber outsole which are durable and long lasting traction on ice.

Heel Counter

Counters provide support and help the upper wrap around the foot.

Injection Molded Construction

A type of sole unit construction created by injecting material into the sole mold. Injection molded construction is an efficient way to mass-produce footwear.

Inseam

The hidden seam of a welted shoe holding together the welt, upper, lining and insole.

Metguard

A safety feature found in some boots which is comprised of a protective cap that covers the metatarsal area of the foot and protects against injury from impacts. Can be internal or external.

Moisture Wicking

Synthetic materials that have been developed specifically to channel perspiration away from the body.

Nubuck Leather

Nubuck is a type of leather with a soft, velvety surface and is far more durable than suede.

Oarprene

Rubber that is acid and oil resistant.

OrthoLite

OrthoLite insoles are made up of open-cell foam, allowing air to circulate around the foot, keeping it cooler inside the shoe. The open cell structure also moves moisture away from the foot, keeping it drier.

PU

Polyurethane; a type of man-made material.

PVC.

Polyvinyl chloride. A semi-rigid plastic, often used in heel counters and outsoles for added support.

SD

Static Dissipating. The shoe dissipates static buildup on the body so as not to cause an arcing effect.

STSP

Steel toe, steel plate.

STCP

Steel toe, composite plate.

TPR

Thermo plastic rubber. A plastic material used by many manufacturers in the injection molding process.

TPU

Thermopolyurethane. Man made material used in footwear production on uppers, but also outsoles.

Upper

The part of the shoe that covers the top part of the foot, from heel to toe.

Welt

A strip of material sewn between the insole and the outsole to create greater durability.

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