

# JOINDER AGREEMENT

THIS JOINDER AGREEMENT is made as a deed on 13<sup>th</sup> March 2018 and between:

- (1) **W. L. Gore & Associates GmbH**, of Hermann-Oberth-Strasse 22, 85640 Putzbrunn, Germany  
  
("Gore");
- (2) **Zhao Qing Chung Jye Shoes Co., Ltd 中傑鞋業有限公司**, of Town West Industrial Zone, Nanan Town, Gaoyao District, 526100 Zhaoqing, China  
  
(the "Manufacturer"); and
- (3) **FORTUNE LEADER INDUSTRIES CO,LTD 富麗得工業有限公司**, of No.628, Sec. 4, Chung Ching Rd., Ta Ya District, Taichung City 428, Taiwan (R.O.C.)  
  
(the "Buyer").

## WHEREAS:

Gore and the Manufacturer entered into the Certified Manufacturer Agreements attached to this Deed as Annex A (the "**Certified Manufacturer Agreement**") on 11<sup>th</sup> December 2017. Under the Certified Manufacturer Agreement, Manufacturer is authorized to manufacture certain products bearing a trademark or trademarks (the "Marks") of W. L. Gore & Associates, Inc. and/or W. L. Gore & Associates GmbH (hereinafter individually and collectively referred to as "Owner") for trademark licensees of an Owner provided that the style and construction of the products distinguished by Owner's Marks are in accord with Gore's Quality and Manufacturing Standards (the "Products").

## NOW IT IS HEREBY AGREED as follows:

1. Buyer acknowledges and confirms that it has received a copy of the Certified Manufacturer Agreement and the schedules and exhibits thereto.




2. Buyer acknowledges, agrees, and confirms that, by its execution of this Joinder Agreement, Buyer shall be a party to the Certified Manufacturer Agreement. Buyer hereby ratifies, as of the date hereof, and agrees to be bound by, all of the terms, provisions and conditions contained in the Certified Manufacturer Agreement applicable to it to the same effect as if it were an original party thereto.
3. Nothing in this Joinder Agreement shall affect or prejudice any right, liability, claim or demand whatsoever or howsoever arising which either Gore or the Manufacturer may have against the other relating to matters concerning the Certified Manufacturer Agreement.
4. Each party is responsible for its own legal costs and other expenses incurred in the negotiation, preparation and completion of this Joinder Agreement.
5. Termination of this Joinder Agreement shall not affect the Certified Manufacturer Agreement. This Joinder Agreement shall terminate immediately upon termination of the Certified Manufacturer Agreement without the necessity of notice to any of the parties to this Joinder Agreement (aside from that notice required to terminate the Certified Manufacturer Agreement). This Joinder Agreement may be terminated by any Party upon 90 days written notice.
6. This Joinder Agreement shall be governed by and construed in accordance with German Law. Choice of forum shall be Munich, Germany.



IN WITNESS WHEREOF this Joinder Agreement has been duly executed as a deed by the parties on the date and year first above written.

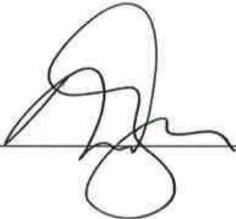
Gore

Date March 13th 2018

  
Klaus-Sigfr  
Günter Zeller

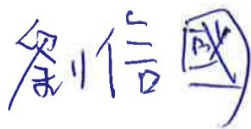
Zhao Qing Chung Jye Shoes Co., Ltd 中傑鞋業有限公司

Date 1/12/2018

  
Andy Liu

FORTUNE LEADER INDUSTRIES CO,LTD 富麗得工業有限公司

Date 2/10/2018

  
劉信國

Annex A

Certified Manufacturer Agreement FLSAP101496-B



## CERTIFIED MANUFACTURER AGREEMENT

Between **W. L. Gore & Associates GmbH**  
Hermann-Oberth-Strasse 22  
85640 Putzbrunn  
GERMANY

-hereafter referred to as "Gore"-

and **Zhao Qing Chung Jye Shoes Co., Ltd 中傑鞋業有限公司**  
Town West Industrial Zone, Nanan Town, Gaoyao District  
526100 Zhaoqing  
CHINA

- hereafter referred to as "MANUFACTURER"-

IN CONSIDERATION of the mutual undertakings herein contained, the parties agree as follows:

1. Manufacturer agrees to manufacture footwear, the style and construction of which shall be in accord with Gore's quality and, manufacturing standards ("Products"). These standards will be furnished to Manufacturer by Gore. Manufacturer agrees that it will only manufacture Products bearing a trademark or trademarks (the "Mark") of W. L. Gore & Associates, Inc., and/or W. L. Gore & Associates GmbH, (hereinafter individually and collectively referred to as "Owner"), for Licensees of an Owner within the scope of their license agreement.
2. Manufacturer agrees that Gore may take those steps which are reasonably necessary to monitor the quality of the Products. Such steps shall be agreed with Manufacturer and may include, for example, inspection of manufacturing operations for Products and/or testing samples of Products submitted to or otherwise obtained by Gore. Following review of styles and/or samples by Gore, Manufacturer agrees to make any changes requested by Gore.
3. Manufacturer shall permit Gore or its authorized representatives access to the Products' manufacturing area of Manufacturer's factory and any other facilities used by Manufacturer, including facilities of any approved subcontractors. Manufacturer's facilities which are certified hereunder are listed in the list of manufacturing locations which is attached.



18. For all sales of Gore's articles made to Manufacturer under this Agreement, the parties hereby agree that Gore's Standard Terms and Conditions of Sale and Delivery Specifications, as separately issued or communicated by Gore to Manufacturer, shall apply and supplement this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives on the date shown below.

**AGREED AND ACCEPTED:**

**Gore**

Date 11.12.17

Klaus Sigl



**Zhao Qing Chung Jye Shoes Co., Ltd**

中傑鞋業有限公司

Date 12/2/2017

Andy Liu



Attachment



# CERTIFIED MANUFACTURER AGREEMENT

Between **W. L. Gore & Associates GmbH**  
Hermann-Oberth-Strasse 22  
85640 Putzbrunn  
GERMANY

-hereafter referred to as "Gore"-

and **Zhao Qing Chung Jye Shoes Co., Ltd 中傑鞋業有限公司**  
Town West Industrial Zone, Nanan Town, Gaoyao District  
526100 Zhaoqing  
CHINA

- hereafter referred to as "MANUFACTURER"-

IN CONSIDERATION of the mutual undertakings herein contained, the parties agree as follows:

1. Manufacturer agrees to manufacture footwear, the style and construction of which shall be in accord with Gore's quality and, manufacturing standards ("Products"). These standards will be furnished to Manufacturer by Gore. Manufacturer agrees that it will only manufacture Products bearing a trademark or trademarks (the "Mark") of W. L. Gore & Associates, Inc., and/or W. L. Gore & Associates GmbH, (hereinafter individually and collectively referred to as "Owner"), for Licensees of an Owner within the scope of their license agreement.
2. Manufacturer agrees that Gore may take those steps which are reasonably necessary to monitor the quality of the Products. Such steps shall be agreed with Manufacturer and may include, for example, inspection of manufacturing operations for Products and/or testing samples of Products submitted to or otherwise obtained by Gore. Following review of styles and/or samples by Gore, Manufacturer agrees to make any changes requested by Gore.
3. Manufacturer shall permit Gore or its authorized representatives access to the Products' manufacturing area of Manufacturer's factory and any other facilities used by Manufacturer, including facilities of any approved subcontractors. Manufacturer's facilities which are certified hereunder are listed in the list of manufacturing locations which is attached.



4. Manufacturer shall only produce and ship the exact quantity of Products ordered by such Licensee. Manufacturer shall inform Gore about such orders and Manufacturer's production upon request. Manufacture of Products in excess of the amount ordered by such Licensee is prohibited.
5. Manufacturer represents and warrants to Gore that all Products produced hereunder shall conform to all applicable specifications and standards including the Quality Standards which are furnished to it by Gore, and shall be free from defects and shall be merchantable and fit for the purposes for which they are intended.
6. If for any reason Manufacturer produces Products which do not meet the Quality Standards which are furnished to it by Gore, the defective Products shall be disposed of only in a manner expressly approved in writing by Gore or Owner, after all identification labels and tags identifying Gore or the Mark have been removed.
7. Manufacturer shall not, without the prior written consent of Gore, appoint any sub-contractor or otherwise allow any seam-sealing or final assembly of Products to be performed by any party other than Manufacturer.
8. Manufacturer may enter into agreements with third parties for the supply of accessory items, such as but not limited to zippers, buttons, and snaps, bearing the Mark only with the prior written approval of Gore, to ensure that such accessory items shall be manufactured only in acceptable quality and in the quantities needed to meet Manufacturer's requirements for Products. Such agreements must provide that these accessories shall be sold only to Manufacturer.
9. This Agreement grants only a limited right to Manufacturer to affix the Mark on behalf of a Licensee of an Owner in accordance with the terms of this Agreement, and does not otherwise permit the Manufacturer to make any use of any Mark in trade. Manufacturer recognizes and affirms Owner's ownership of the Mark and acknowledges that the Mark has become famous. Manufacturer agrees to do nothing inconsistent with Owner's ownership of the Mark and agrees that its use of the Mark shall inure to the benefit of Owner and be on Owner's behalf. Nothing herein shall give Manufacturer any right, title or interest in the Mark, nor shall Manufacturer do, or through inaction allow to be done, any act contesting or in any way impairing Owner's right, title or interest in and to the Mark or its validity. Manufacturer acknowledges that all tags, labels or accessories furnished by Gore are and shall remain the property of Gore until incorporated in a Product which is sold to a Licensee. Manufacturer agrees to affix the Mark: (a). Only on Products displaying the approved brand name(s) of a Licensee, or, (b). Only as otherwise approved in advance by Gore in writing (including during the style approval process).



10. All materials, documents, information and equipment which either party provides or discloses to the other party, whether in writing or orally, which is identified as confidential at the time of disclosure ("Confidential Information") shall be considered proprietary trade secrets of the disclosing party. The receiving party agrees not to disclose any Confidential Information to any third party without the disclosing party's advance written consent or to use it in any way detrimental to the disclosing party's interests. The receiving party further agrees to make sure that the dissemination of such Confidential Information among its employees is restricted to those persons who are obliged to maintain the confidentiality of the information and have a demonstrated need to have access to it to design, make, promote and sell Products. However, Confidential Information subject to the restrictions of this paragraph shall not include: (a) information currently in the public domain; (b) information which becomes public through no fault of the receiving party; (c) information previously known to the receiving party prior to its disclosure to the receiving party by the disclosing party, as shown by the receiving party's contemporaneous written records; or (d) information disclosed to the receiving party by a third party not in breach of any agreement. The obligations of each party under this paragraph will remain in full force and effect for three (3) years following any termination of this Agreement.
11. In order to protect the Confidential Information, trade secrets, know-how, proprietary information and other information developed by Gore, Owner, and/or their affiliate ("Technical Information") at great expense and which Gore, Owner, and/or their affiliate will be required to disclose to Manufacturer in order to implement this Agreement, Manufacturer certifies that it will make no use of the equipment or Technical Information provided by Gore to manufacture and/or test any product other than the Products made hereunder, and that if it manufactures any footwear or other products of any kind which make use of seam taped, waterproof construction, it will so advise Gore and receive Gore's written approval (which is not to be unreasonably withheld) before the beginning of such manufacture. Before receiving such approval, Manufacturer will provide Gore with proof satisfactory to Gore that Gore's Technical Information will not be utilized in such processes and that Gore's Quality and Manufacturing Standards will continue to be met with respect to Products pursuant to this Agreement.
12. This Agreement shall take effect on the final date indicated below and shall continue in force unless terminated by either party in accordance with the provisions of this paragraph. This Agreement may be terminated by either party by giving one hundred eighty (180) days' advance written notice or, in case of a material breach, thirty (30) days advanced written notice, unless the breaching party shall have cured the specified breach within that thirty (30) day period to the satisfaction of the other party, in which case this Agreement shall remain in effect.



13. Upon the termination of this Agreement Manufacturer undertakes (a) to immediately stop affixing the Mark on Products. Any then-existing stock of Products that comply with Gore's Quality Standards may be sold or delivered to the Licensee which had ordered them prior to termination until exhausted or within six (6) months after termination, whichever shall first occur; and (b) not to use any trademarks similar to the Mark; and (c) to return to Gore or to destroy, at Gore's option, all labels, labeling and printed material bearing the Mark and all specifications and all other materials or documents sent to Manufacturer, any written material of Manufacturer that contains confidential information of Gore, Owner, and/or their affiliate, and any articles which Manufacturer may then have in its possession or control; and (d) not to claim that any use of the Mark by Manufacturer has created any right, title or interest in or to the Mark on manufacturer's part; and (e) to take whatever steps are necessary to ensure that the Mark and all goodwill connected with the Mark remain Owner's property; and (f) at Gore's option to return to Gore any then existing stock of articles which Gore wishes to re-possess for a fair and reasonable price not to exceed the price paid for such articles by Manufacturer to Gore.
14. Without Gore's prior written consent, Manufacturer shall not transfer or assign this Agreement or any of its rights or obligations hereunder, and any such purported transfer or assignment shall be void unless Gore, in its sole and absolute discretion, consents to it in writing. Any material change in the record or beneficial ownership of Manufacturer shall be deemed to be an attempted transfer of this Agreement which Gore may or may not, in its absolute discretion, approve.
15. This Agreement shall be governed by and construed in accordance with the laws of Germany not including its conflict of law provisions. The parties irrevocably consent to the non-exclusive jurisdiction of the courts of Munich, Germany where any litigation concerning this Agreement or its breach or termination may be brought.
16. The Quality Standards and Manufacturing Standards referenced in this Agreement may be amended at any time by Gore's sending a copy of the new Standard to Manufacturer. The changes shall be effective 180 days after the new Standard is received by Manufacturer. Otherwise, this Agreement (including this clause) may be amended only by a written document signed by both parties dated after the last date shown below.
17. This Agreement is intended to be the full and final expression of the parties' agreement on all subjects covered by it and can be modified or amended only in writing, including this clause. The terms of this Agreement may not be contradicted by evidence of any prior or contemporaneous oral or written understanding between the parties or amended except in the manner set forth above.

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18. For all sales of Gore's articles made to Manufacturer under this Agreement, the parties hereby agree that Gore's Standard Terms and Conditions of Sale and Delivery Specifications, as separately issued or communicated by Gore to Manufacturer, shall apply and supplement this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives on the date shown below.

**AGREED AND ACCEPTED:**

**Gore**

Date 11.12.17

Klaus Sigl

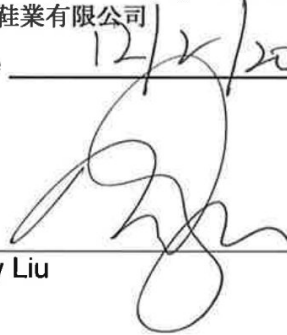


**Zhao Qing Chung Jye Shoes Co., Ltd**

中傑鞋業有限公司

Date 12/2/2017

Andy Liu



Attachment

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## CERTIFIED MANUFACTURER AGREEMENT ATTACHMENT – FOOTWEAR

QUALITY STANDARDS		MANUFACTURING STANDARDS	
FQS-EC	<p>GORE-TEX® Extended Comfort Footwear for:</p> <p><b>Soft Use:</b> Business Dress, Casual, Children’s Fashion, Fashion</p> <p><b>Hard Use:</b> Children’s Rugged, Golf, Hunting, Motorcycling, Multi-functional Sport, Rugged Casual, Running, Work</p>	MS FTW COF	<p>GORE-TEX® Footwear construction technologies:</p> <ul style="list-style-type: none"> <li>• Bootie Technology</li> <li>• PSC Double Slip Lasting Technology with P-Gasket</li> <li>• PSC Technology with P-Gasket – Cemented or Vulcanized Sole</li> </ul>
FQS-IC	<p>GORE-TEX® Insulated Comfort Footwear for:</p> <p><b>Soft Use:</b> Business Dress, Casual, Children’s Fashion, Fashion</p> <p><b>Hard Use:</b> Après Ski, Children’s Rugged, Cross-Country Skiing, Cycling, Hunting, Motorcycling, Rugged Casual, Trekking and Hiking, Work</p> <p><b>Hard Use–Special Purpose:</b> Alpine Mountaineering, Heavy Duty Motorcycling, Hunting Extreme Cold, Rubber Bottom, Work Extreme Cold</p>	MS FTW COF	<p>GORE-TEX® Footwear construction technologies:</p> <ul style="list-style-type: none"> <li>• Bootie Technology</li> <li>• PSC Double Slip Lasting Technology with P-Gasket</li> <li>• PSC Technology with P-Gasket – Cemented or Vulcanized Sole</li> </ul>
FQS-PC	<p>GORE-TEX® Performance Comfort Footwear for:</p> <p><b>Soft Use:</b> Business Dress, Casual, Children’s Fashion, Fashion</p> <p><b>Hard Use:</b> Children’s Rugged, Cross-Country Skiing, Cycling, Golf, Hunting, Motorcycling, Multi-functional Sport, Rugged Casual, Sailing, Trekking and Hiking, Work</p> <p><b>Hard Use–Special Purpose:</b> Alpine Mountaineering, Heavy Duty Motorcycling, Heavy Duty Work</p>	MS FTW COF	<p>GORE-TEX® Footwear construction technologies:</p> <ul style="list-style-type: none"> <li>• Bootie Technology</li> <li>• PSC Double Slip Lasting Technology with P-Gasket</li> <li>• PSC Technology with P-Gasket – Cemented or Vulcanized Sole</li> </ul>

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**MANUFACTURING LOCATION:**

Zhao Qing Chung Jye Shoes Co., Ltd  
Town West Industrial Zone, Nanan Town, Gaoyao District  
526100 Zhaoqing  
CHINA

**AGREED AND ACCEPTED**

**Gore**

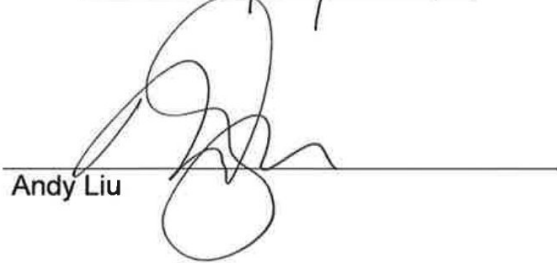
Date 11.12.17



Klaus Sigl

**Zhao Qing Chung Jye Shoes Co., Ltd**  
中傑鞋業有限公司

Date 12/2/2017



Andy Liu

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## COF Footwear Quality Standard – FQS-EC

### GORE-TEX® EXTENDED COMFORT Footwear

#### 1. END USE APPLICATIONS

Quality Standard FQS-EC applies to GORE-TEX® Extended Comfort Footwear used in the following end use consumer market(s):

##### Soft Use

- Business Dress
- Casual
- Children's Fashion
- Fashion

##### Hard Use

- Children's Rugged
- Cycling
- Golf
- Hunting
- Motorcycling
- Multi-functional Sport
- Rugged Casual
- Running
- Work

#### 2. DESIGNS

2.1. Refer to GORE-TEX® Footwear Manufacturing Standards for detailed design requirements and recommendations regarding:

- 2.1.1. Waterproof construction technologies approved by Gore.
- 2.1.2. Waterline height for Hard and Soft end uses.
- 2.1.3. Design requirements to meet durable waterproofness requirements.
- 2.1.4. General manufacturing standards.

2.2. GORE-TEX® Extended Comfort Footwear should be designed to maximize end use comfort in moderate and warmer conditions and during higher activity levels. Include the following design elements:

- 2.2.1. Select thin, highly breathable, non-wicking upper materials, including backers, as specified in GORE-TEX® Footwear Manufacturing Standards.
- 2.2.2. Use only end use appropriate GORE-TEX® Extended Comfort Footwear fabrics from the latest GORE-TEX® Footwear fabric collection.
- 2.2.3. Lofted insulation layers should never be used in GORE-TEX® Extended Comfort Footwear.
- 2.2.4. Avoid overlays that increase thickness and decrease breathability.





4.2. SEAM SEALING

- 4.2.1. All seams in the GORE-TEX® fabric lining shall be sealed with GORE-SEAM® Tape.
- 4.2.2. Gore gasket materials will be used to make the bottom seal for all gasket bootie (PSC) constructions.
- 4.2.3. The GORE-SEAM® Tape shall be applied with a Gore seam sealing machine or a similar machine approved by Gore.
- 4.2.4. Sealed seams must be able to pass a hydrostatic pressure test (ISO 811 or equivalent Suter test) for 5 minutes at 15 PSI. (Gore Test Method QCTM 20208)
- 4.2.5. Sealed seams on GORE-TEX® bootie linings must be able to pass leak testing using the GORE-TEX® Bootie Test Machine (XTM) 2PSI for 2 minutes.

5. BREATHABILITY

Footwear shall have a moisture vapor transmission rate (MVTR) that at least meets or exceeds the values in the table below when tested on the Gore Whole Boot Comfort test (QCTM 20203).

GORE-TEX® Extended Comfort Footwear	MVTR (Mens size 42) (US 9)	MVTR (Womens size 37) (US 7)	MVTR (Kids size 33)
Below Ankle – Hard & Soft Use	3.5	3.1	2.7
Above Ankle – Hard & Soft Use	4.0	3.5	3.1

6. LABELING

- 6.1. All GORE-TEX® Footwear must be identified with label(s) carrying the GORE-TEX® trademark and the trademark licensee's brand.
- 6.2. Footwear shall have external (and optional internal) label(s) using the "GORE-TEX®" trademark.
- 6.3. If the labels are not supplied by Gore, such labeling must be approved by a Gore representative prior to adoption.

7. POSITIONING STATEMENT

GORE-TEX® Extended Comfort Footwear keeps feet dry and protected by being durably waterproof and breathable and is an engineered system which provides leading climate comfort. It is ideal for moderate and warmer conditions and during higher activity levels.

GORE-TEX, GORE-SEAM, GORE, and designs are trademarks of W. L. Gore & Associates. Reference to any of such or other Gore trademarks in this Quality Standard shall not constitute an implied or express permission to use these trademarks. Licensee must refer to its Trademark License Agreement executed with Gore.

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## COF Footwear Quality Standard – FQS-IC

### GORE-TEX® INSULATED COMFORT Footwear

#### 1. END USE APPLICATIONS

Quality Standard FQS-IC applies to GORE-TEX® Insulated Comfort Footwear used in the following end use consumer market(s):

##### Soft Use

- Business Dress
- Casual
- Children's Fashion
- Fashion

##### Hard Use

- Apres Ski
- Children's Rugged
- Cross-country skiing
- Cycling
- Hunting
- Motorcycling
- Rugged Casual
- Trekking & Hiking
- Work

##### Hard Use – Special Purpose\*

- Alpine Mountaineering
- Heavy Duty Motorcycling
- Hunting Extreme Cold
- Rubber Bottom
- Work Extreme Cold

##### \*Hard Use - Special Use Footwear Definitions:

Alpine Mountaineering – Crampon-compatible Alpine style mountaineering boots

Heavy Duty Motorcycling – Made with upper materials with exceptional resistance to damage by impact, puncture, abrasion, etc.

Hunting Extreme Cold – Total insulation layers  $\geq$  500 gm/sm lofted fiber insulation

Rubber Bottom – Cold weather boots made using a rubber or PU bottom below the ankle

Work Extreme Cold – Total insulation layers  $\geq$  500 gm/sm lofted fiber insulation

#### 2. DESIGNS

2.1. Refer to GORE-TEX® Footwear Manufacturing Standards for detailed design requirements and recommendations regarding:

- 2.1.1. Waterproof construction technologies approved by Gore.
- 2.1.2. Waterline height for Hard and Soft end uses.
- 2.1.3. Design requirements to meet durable waterproofness requirements.
- 2.1.4. General manufacturing standards.

2.2. GORE-TEX® Insulated Comfort Footwear should be designed to maximize end use comfort in cold conditions and during winter outdoor activities. Include the following design elements:

- 2.2.1. Select breathable, non-wicking upper materials as specified in GORE-TEX® Footwear Manufacturing Standards.
- 2.2.2. GORE-TEX® Insulated Comfort Footwear fabrics must be used throughout the shaded areas pictured in the diagrams below. GORE-TEX® Performance Comfort Footwear fabrics may be used in the non-shaded areas if necessary for fit purposes.

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**4. WATERPROOFNESS**

**4.1. FINISHED FOOTWEAR**

**4.1.1.** Gore Flex Test (Gore Test Method QCTM 20205: All footwear shall be designed and manufactured to be non-wicking and free of leaks to pass the following flex cycles:

Footwear Height	Cycles (Soft Use)	Cycles (Hard Use)
Below Ankle	50,000	100,000
Above Ankle	50,000	200,000

**4.1.2.** Gore Centrifugal Test (Gore Test Method QCTM 20214):

- 4.1.2.1.** Prototypes of and/or pre-production GORE-TEX® Footwear shall be able to pass waterproofness testing using the Gore Centrifugal Test for 30 minutes at 250 ±5 turns per minute (TPM).
- 4.1.2.2.** GORE-TEX® Footwear from mass production shall be able to pass waterproofness testing using the Gore Centrifugal Test for 30 minutes at 250±5 turns per minute (TPM).

**4.2. SEAM SEALING**

- 4.2.1.** All seams in the GORE-TEX® fabric lining shall be sealed with GORE-SEAM® Tape.
- 4.2.2.** The GORE-SEAM® Tape shall be applied with a Gore seam sealing machine or a similar machine approved by Gore.
- 4.2.3.** Gore gasket materials will be used to make the bottom seal for all gasket bootie (PSC) constructions.
- 4.2.4.** Sealed seams must be able to pass a hydrostatic pressure test (ISO 811 or equivalent Suter test) for 5 minutes at 15 PSI. (Gore Test Method QCTM 20208)
- 4.2.5.** Sealed seams on GORE-TEX® bootie linings must be able to pass leak testing using the GORE-TEX® Bootie Test Machine (BTM) 1.5 PSI for 7 seconds.

**5. BREATHABILITY**

Footwear shall have a moisture vapor transmission rate (MVTR) that at least meets or exceeds the values in the table below when tested on the Gore Whole Boot Comfort test (QCTM 20203).

GORE-TEX® Insulated Comfort Footwear	MVTR (Mens size 42) (US 9)	MVTR (Womens size 37) (US 7)	MVTR (Kids size 33)
Below Ankle - Hard & Soft Use	1.7	1.3	1.2
Above Ankle - Hard & Soft Use	2.0	1.6	1.4
Above Ankle - Hard Use - Special Purpose	1.0	0.8	N/A



## **COF Footwear Quality Standard – FQS-PC**

### **GORE-TEX® PERFORMANCE COMFORT Footwear**

#### **1. END USE APPLICATIONS**

Quality Standard FQS-PC applies to GORE-TEX® Performance Comfort Footwear used in the following end use consumer market(s):

##### **Soft Use**

- Business Dress
- Casual
- Children's Fashion
- Fashion

##### **Hard Use**

- Children's Rugged
- Cross-Country Skiing
- Cycling
- Golf
- Hunting
- Motorcycling
- Multi-functional Sport
- Rugged Casual
- Sailing
- Trekking & Hiking
- Work

##### **Hard Use – Special Purpose\***

- Alpine Mountaineering
- Heavy Duty Motorcycling
- Heavy Duty Work

##### **\*Hard Use - Special Purpose Footwear Definitions:**

Alpine Mountaineering – Boots having a crampon compatible sole.

Heavy Duty Motorcycling – Made with upper materials providing exceptional resistance to damage from impact, puncture, abrasion, etc.

Heavy Duty Work – Made with upper materials providing exceptional resistance to damage from harsh conditions such as impact, puncture, abrasion, barnyard waste, chemical exposure, etc.

#### **2. DESIGNS**

**2.1.** Refer to GORE-TEX® Footwear Manufacturing Standards for detailed design requirements and recommendations regarding:

- 2.1.1.** Waterproof construction technologies approved by Gore.
- 2.1.2.** Waterline height for Hard and Soft end uses.
- 2.1.3.** Design requirements to meet durable waterproofness requirements.
- 2.1.4.** General manufacturing standards.

**2.2.** GORE-TEX® Performance Comfort Footwear should be designed to maximize end use comfort in a wide range of conditions and outdoor activities. Include the following design elements:

- 2.2.1.** Select breathable, non-wicking upper materials as specified in GORE-TEX® Footwear Manufacturing Standards.
- 2.2.2.** Use only end use appropriate GORE-TEX® Performance Comfort Footwear fabrics from the latest GORE-TEX® Footwear fabric collection.
- 2.2.3.** Do not include insulating layers.



**5. BREATHABILITY**

Footwear shall have a moisture vapor transmission rate (MVTR) that at least meets or exceeds the values in the table below when tested on the Gore Whole Boot Comfort test (QCTM 20203).

<b>GORE-TEX® Performance Comfort Footwear</b>	<b>MVTR (Mens size 42) (US 9)</b>	<b>MVTR (Women size 37) (US 7)</b>	<b>MVTR (Kids size 33)</b>
Below Ankle - Hard & Soft Use	1.7	1.3	1.2
Above Ankle - Hard & Soft Use	2.0	1.6	1.4
Above Ankle - Hard Use – Special Purpose	1.0	0.8	N/A

**6. LABELING**

- 6.1. All GORE-TEX® Footwear must be identified with label(s) carrying the GORE-TEX® trademark and the trademark licensee's brand.
- 6.2. Footwear shall have permanently attached external (and optional internal) label(s) using the "GORE-TEX®" trademark.
- 6.3. If the labels are not supplied by Gore, such labeling must be approved by a Gore representative prior to adoption.

**7. POSITIONING STATEMENT**

GORE-TEX® Performance Comfort Footwear keeps feet dry and protected by being durably waterproof and breathable and is an engineered system which provides leading climate comfort. It is ideal for a wide range of conditions and outdoor activities.

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## COF Manufacturing Standards for GORE-TEX® Footwear

### 1. END USE APPLICATIONS

Manufacturing Standards for GORE-TEX® Footwear applies to footwear as categorized in the following end uses:

#### Soft End Uses

- Business Dress
- Casual
- Children's Fashion
- Fashion

#### Hard End Uses

- Apres Ski
- Children's Rugged
- Cross-Country Skiing
- Cycling
- Golf
- Hunting
- Motorcycling
- Multi-functional Sport
- Rugged Casual
- Running
- Sailing
- Special Purpose – Alpine Mountaineering
- Special Purpose – Extreme Cold Hunting
- Special Purpose – Extreme Cold Work
- Special Purpose – Heavy Duty Motorcycling
- Special Purpose – Heavy Duty Work
- Special Purpose – Rubber Bottom
- Trekking & Hiking
- Work

### 2. GORE FOOTWEAR CONSTRUCTION TECHNOLOGIES

Only Gore approved footwear construction technologies shall be used in the manufacturing of GORE-TEX® Footwear. Full details of each Gore footwear construction technology may be found in the GORE-TEX® Footwear Manual available from your GORE-TEX® Footwear Technical Consultant.

### 3. DESIGN FOR DURABILITY OF WATERPROOFNESS AND BREATHABILITY

Footwear shall be designed for durability of waterproofness and breathability.

**3.1** Toe box height must be adequate to prevent toes from damaging the GORE-TEX® fabric lining.

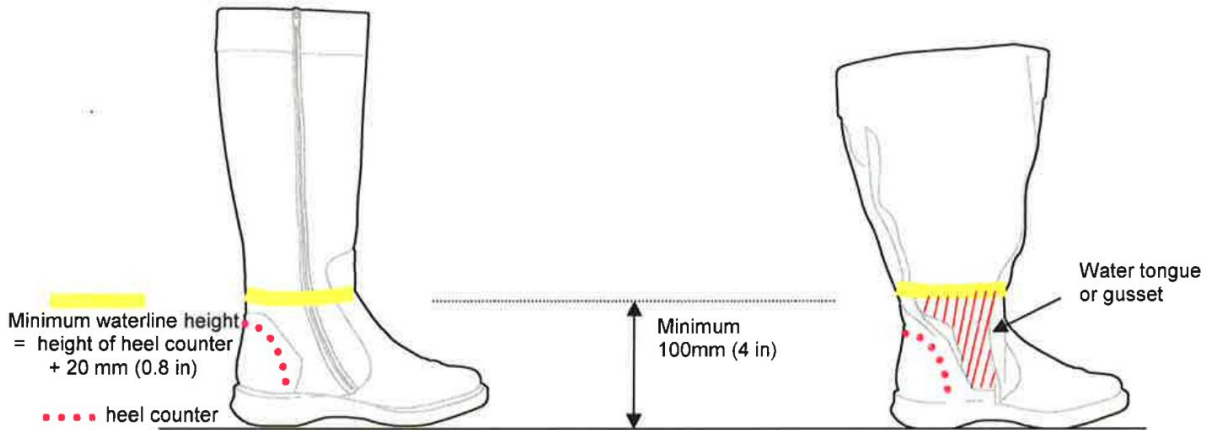
**3.2** The heel area design and fit must minimize the heel slipping against the GORE-TEX® fabric lining or the lining slipping against the heel counter.

**3.3** Overlapping of more than two upper pieces in the same area should be avoided to minimize thickness differences and membrane damage; where overlaps occur, all edges must be well skived.



### 5.3 Boots

**5.3.1.** For fashion boots with zipper and stretch boots without zipper the waterline height will be determined according to the picture below.



**5.3.2.** Waterline height must exceed the height of the heel counter by at least 20 mm (0.8 inch) in the heel area.

**5.3.3.** The lowest point of the waterline contour must not be below 100 mm (approximately 4 inches). This height has to be measured from the ground. This measurement for fashion boots should be valid for flat trendy fashion soles as well as for boots with heels.

**5.3.4.** A water gusset (tongue) for zippers needs to be as high as the corresponding height of the contour of the waterline at that point.

## 6. MATERIALS

**6.1** Upper materials and other relevant components shall be tested to verify suitability for use in durably waterproof and breathable footwear (as specified in Footwear Quality Standards).

**6.2** Recommended minimum upper material MVTR values tested according to DIN 53333 (mg/cm<sup>2</sup>/hr) or equivalent (Gore Test Method QCTM 20215) may be found in Footwear Quality Standards.

**6.3** Only hydrophobic materials shall be used. Wicking rates of leathers, textiles, reinforcing material, reticulated foams, insulation, sewing threads (for uppers), shoe laces, and all other components shall not exceed 1cm after 2 hours. (Gore Test Method QCTM 20216)

## 7. PRE-PRODUCTION TESTING

**7.1** All production styles must be approved by a Gore lab in writing prior to the start of production (See Footwear Quality Standards).

**7.2** All components which directly impact the waterproof/breathable integrity of the finished product must be either Gore approved or pre-tested and approved in a Gore lab.



## **8. SEAM SEALING**

- 8.1** All GORE-TEX® fabric lining seams will be sealed with GORE-SEAM® Tape (see Footwear Quality Standards).
- 8.2** Gore gasket materials will be used to make the bottom seal for all gasket bootie (PSC) constructions.
- 8.3** Always start the seam-sealing process from the top of the lining.
- 8.4** Adjustment of the seam sealing machine to be checked at the start of each day/shift/new tape roll. Sealed seams must be able to pass hydrostatic pressure testing (ISO 811 or equivalent Suter test) for 5 minutes at 15 PSI (Gore Test Method QCTM 20208).
- 8.5** Seam testing:
  - 8.5.1.** Bootie and PSC constructions:
    - 8.5.1.1.** GORE-TEX® Performance Comfort and GORE-TEX® Insulated Comfort footwear: At least 20% of all bootie production tested using BTM test machine (1.5 PSI for 7 seconds).
    - 8.5.1.2.** GORE-TEX® Extended Comfort Footwear: At least 2% of all bootie production tested using XTM tester (2 minutes at 2PSI).
  - 8.5.2.** All other GORE-TEX® Footwear constructions: Random seam testing (at least one pair per hour) by hydrostatic pressure testing (ISO 811 or equivalent Suter test) for 5 minutes at 15 PSI (Gore Test Method QCTM 20208).

## **9. PRODUCTION TESTING**

- 9.1** Suter, BTM, and XTM testing as described above.
- 9.2** During production periods, a minimum of 3 pairs per hour or 2% of randomly sampled daily production must be tested on the Gore Centrifugal Tester (See Footwear Quality Standards). Failing footwear must be cut and analyzed to determine the cause of failure. Corrective actions to eliminate causes of failure are to be implemented immediately.
- 9.3** Test results and corrective action reports must be documented and available for inspection by Gore on request.

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