PROTOCOL # 1203-U

Footwear Materials Tier 2

Performance Test	Test Method	Samples	Test Principle/Requirements		s	Rating (Section or exec. Summary which failed items can be referenced)
UPPER MATERIAL						
PERFORMANCE UPPER (LEAT	HER) U1	1				
D + E + (00D) D 050			HEAVY	MEDIUM	LIGHT	
Rub Fastness (GSR) Dry:256 rubs Wet:128 rubs	SATRA TM8		3.0 (dry) 3.0 (wet)	2.0	(dry) (wet)	
Flexing Endurance of Finish (not worse than slight cracking after no. of flexes)	SATRA TM25	(room temp) 50,000 (-5°C) (-5°C) See Note 1		temp) 000 °C) Note 1		
*Coating Adhesion (lbs/inch)	SATRA TM410	4 x A4 paper size		00 (-20°C, upper for snow boo		
Tear strength	SATRA TM410	(210 mm x	Coaled	leather: Min. 10.0 (Dry) Min. Min.22 lbs #	8.5 (VVet)	
*Water Resistance (if claimed)	SATRA TM102 SATRA TM34 (Maeser)	297mm)	Water resistant : Min. 12,000 flexes with no water penetration			
*Taber Abrasion Resistance (not worse than slight damage after no. of revolutions)	SATRA TM163		Full grain leather: Min. 100 (H-18) Coated split leather: Min. 200 (H-18) (Applicable to athletic/sports footwear only)			
*Color Fastness to Light	AATCC 16 Option 3 20AFU		Class 4.0 Min. (Applicable to athletic/sports footwear only)			
Water Repellent (Water Repellency – if claimed)	AATCC22 Mod	3- 8in x 8 in samples	Rating 90		ur omy)	
PERFORMANCE (Coated Fabric	& Poromeric Materia	ls) U2				
Breaking Load (lbs./inch width)	SATRA TM29		;	57	40	
Extension at Break (%)	SATRA TM29			7 (tighter direction) 10 (stretcher direction)		
Tear Strength (lbs)	SATRA TM30		10	8	6	
*Coating Adhesion (lbs/inch)	SATRA TM410			Min.8.5(Dry); Min.7.0(Wet)	,	
Flexing Endurance (not worse than slight cracking after no. of flexes)	SATRA TM25	4 x A4 paper	100,000 (room temp) 50,000 (-5°C)	50,000 (room temp) 25,000 (-5°C)	40,000 (room temp) No cold flex (-5°C)	
See Note 1		size (210 mm	20	,000 (-20°C, for snow boots of	nly)	
Abrasion Resistance of Outer Face (not worse than moderate wear after no. of revolutions)	SATRA TM31- Martindale	x 297mm	51,200 (dry) 12,800 (wet)	25,600 (dry) 6,400 (wet)	12,800 (dry) 3,200 (wet)	
Rub Fastness (GSR)	SATRA TM167			4.0 Dry & 3.5 Wet		
*Taber Abrasion Resistance (not worse than slight damage after no. of revolutions)	SATRA TM163		(Appli	Min. 150 (H-18) cable to athletic/sports footwe	ar only)	

*Color Fastness to Light	AATCC 16 Option 3 20AFU		(Applic	Class 4.0 Min.	ar only)	
Water Repellency – if claimed)	AATCC22 Mod	3- 8in x 8 in samples	(1.55)	Rating 90		
Note 1: Upper material for summer sa	andals, slippers, thongs an	d other open-toed	I footwear is exempt from cold fle	ex test. Carry out Flexing Endura	ance at room temperature only.	
PERFORMANCE (Fabric Mate	erials) U3					
Breaking Load (lbs./Inch width)	SATRA TM29		5	7	40	
Extension at Break (%)	SATRA TM29			7 (tighter direction) 15 (stretcher direction)		
Abrasion Resistance (not worse than moderate wear after the no. of revolutions)	SATRA TM31- Martindale	4 x A4 paper size	51,200 (dry) 12,800 (wet)	25,600 (dry) 6,400 (wet)	12,800 (dry) 3,200 (wet)	
Rub Fastness (GSR)	SATRA TM167	(210mm x 297mm)		4.0 Dry & 3.5 Wet		
*Color Fastness to Light	AATCC 16 Option 3 20AFU	23711111)	(Applie	Class 4.0 Min cable to athletic/sports footwe	Class 4.0 Min to athletic/sports footwear only	
*Phenolic Yellowing	ISO 105 - X18		Change in shade: Class 4.5 Min. (Applicable to athletic/sports footwear only, Exempt Black Textile)			
Fiber Shedding or Pile Loss (applicable to fur/faux fur and long pile fabrics)	SATRA TM 227		Min 3.0 Shedding			
Water Repellent (Water Repellency – if claimed)	AATCC22 Mod			Rating 90		

PERFORMANCE (Lace & Sat	in Fabric Materials) U	4				
Breaking Load (lbs./Inch width)	SATRA TM29			30		
Extension at Break (%)	SATRA TM29	4 x A4		7 (tighter direction) 15 (stretcher direction)		
Abrasion Resistance (not worse than moderate wear after the no. of revolutions)	SATRA TM31- Martindale	paper size (210mm x 297mm)		4,000 (dry) 1,200 (wet)		
Rub Fastness (GSR)	SATRA TM167			4.0 (dry) 3.5 (wet)		
Water Repellent (Water Repellency – if claimed)	AATCC22 Mod	3- 8in x 8 in samples	Rating 90			
PERFORMANCE (Rubber & F	olymeric Materials) l	J5				
	SATRA TM25	4 x A4	100,000 (room temp	50000 (room temp)	30000 (room temp)	
Flexing Endurance (not worse than slight cracking after no. of flexes)	SATIVA TIVIZO	Paper Size (210mm x 297mm)	50,000 (-5°C)	25,000 (-5°C) 0,000 (-20°C, for snow boots o	No Cold Flex (-5°C) nly)	
Rub Fastness (GSR)	SATRA TM167			3.0 Dry & Wet	• /	

Water Repellent (Water Repellency – if claimed)	AATCC22 Mod	3- 8in x 8 in samples		Rating 90		
LINING		· · · · · · · · · · · · · · · · · · ·				
PERFORMANCE (Leather) L	1					
Perspiration Fastness (grain) (GSR)	SATRA TM335			3.0		
Abrasion Resistance (not worse than moderate wear after no. of revolutions)	SATRA TM31- Martindale	4 x A4 paper size (210mm x	Vamp: Dry: 25,600 Wet: 6,400	Vamp: Dry: 12,800 Wet: Exempt	Vamp: Dry: 12,800 Wet: Exempt	
		297mm)	Counter: Dry: 38,400 Wet: 9,600	Counter: Dry: 25,600 Wet: 6,400	Counter: Dry: 12,800 Exempt	
Rub Fastness Dry: 256 rubs Wet:128 rubs	SATRA TM8			3.0 (Dry) 2.5 (Wet)		
PERFORMANCE (Textile and	Coated Fabric Mate	rials) L2				
Breaking Strength (lbs./inch)	SATRA TM29			Min. 14lbs		
Abrasion Resistance (not worse than moderate wear after no. of revolutions)	SATRA TM31- Martindale		Dry: 25,600 Wet: 6,400	Dry: 12,800 Wet: Exempt	Dry: 9,600 Wet: Exempt	
Flexing Endurance (not worse than slight cracking or slight damage after no. of flexes) (Coated Fabric Materials)	SATRA TM25	4 x A4 paper size (210mm x	100,000 (room temp)	50,000 (room temp)	25,000 (room temp)	
Perspiration Fastness (grain) (GSR)	SATRA TM335	297mm)		3.5		
Rub Fastness (GSR)	SATRA TM167			4.0(dry) 3.5 (wet)		
*Phenolic Yellowing (Textile only)	ISO 105 – X18		Change in shade: Class 4.5			
PERFORMANCE (Lace & Sat	in Fabric Materials)	L3				
Abrasion Resistance (not worse than moderate wear after the no. of revolutions)	SATRA TM31 - Martindale	4 x A4 paper size		3,000 (dry)		
Rub Fastness (GSR)	SATRA TM167	(210mm x 297mm)	3(dry) 3 (wet)			
Perspiration Fastness (GSR)	SATRA TM335]		3		
SOLING						
PERFORMANCE (Solid PVC)	S1					
Hardness (Shore A)	SATRA TM205		Soft	50-63, Medium 64-72, Hard 7	' 3-77	
Slip Resistance (Coefficient of friction)	SATRA TM144			Min. 0.40 (Dry) Min. 0.30 (wet)		
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	<5 mm thick: Max.1.5 5-10 mm thick: Max. 0.5 10-15 mm thick: Max. 0.1 > 15mm: Max.0.02			
Sole Wearing Resistance (Volume Loss)	SATRA TM174			Soft & Medium: ≤300 mm3 Hard: ≤250 mm3		
PERFORMANCE (Microcellu	lar Rubber) S2					
Hardness (Shore A)	SATRA TM205			Min. 36		
Slip Resistance (Coefficient of friction)	SATRA TM144			Min. 0.40 (Dry) Min. 0.30 (Wet)		

Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Max. 0.04	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤400 mm3	

PERFORMANCE (Resin Rubb	per) S3			
Hardness (Shore A)	SATRA TM205		78-86	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.40 (Dry) Min. 0.30 (Wet)	
Flexing Endurance – Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Men: Max. 0.1 Women: Max. 0.05 Women: Max. 0.1 (heel height > 5 cm)	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤300 mm3	
PERFORMANCE (Solid Vulca	nized Rubber) S4			
Hardness (Shore A)	SATRA TM205		46-84	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.40 (Dry) Min. 0.30 (Wet0	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Max. 0.1	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤200 mm3	
PERFORMANCE (High and L	ow Density EVA) S5			
Hardness (Shore A)	SATRA TM205		Low density (<0.45 g/cm3): 19-50 High density (≥0.45 g/cm3): 55-82	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.40 (Dry) Min. 0.30 (Wet)	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Low density: Max. 0.04 High density: Max. 0.1	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		Low density: ≤ 700 mm3 High density: ≤ 200 mm3	
			Note: Measure volume loss at an abrasion distance of 20 m.	
PERFORMANCE (Thermopla	stic Rubber) S6			
Hardness (Shore A)	SATRA TM205		Soft grade: 43-51 Medium grade: 52-59 Hard grade: 60-76	
Slip Resistance (Coefficient of friction)	SATRA TM144	2	Min. 0.40 (Dry) Min. 0.30 (Wet)	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Up to 15 mm thick: Max. 0.5 > 15 mm thick: Max. 0.1	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤300 mm3	
PERFORMANCE (Polyuretha	ne – Single & Dual D	ensity) S7		

Hardness (Shore A)	SATRA TM205		15-30(Skin-off) 50-70 (Skin-on)	
Slip Resistance (Coefficient of	SATRA TM144	7	Min. 0.40 (Dry)	
friction)		4	Min. 0.30 (wet)	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Max. 0.005	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤250 mm3	
PERFORMANCE (Sole Leather	er – Vegetable Tanne	ed) S8		
Grain Crack (Index)	SATRA TM48		Vegetable Tanned :Min. 16	
Slip Resistance (Coefficient of friction)	SATRA TM144	2 pairs	Min. 0.30 (Dry) Min. 0.30 (Wet)	
Sole Wearing Resistance	SATRA TM174		≤350 mm3	
PERFORMANCE (Outsole of	Athletic/Sports Foot	wear) S9		
Tensile Strength (lbs./sq. inch)	SATRA TM137		Rubber: Min. 1,400 Microcellular rubber: Min. 560 Solid Plastic(including solid PU,PVC ,TPU): Min. 2,000 Flexible Plastic(including TPR, foam TPU, foam PU, foam PVC): Not applicable EVA(low density)or phylon: Not applicable	
Extension at Break (%)	SATRA TM137		Rubber: Min. 300 Microcellular rubber: Min. 250 Solid Plastic(including solid PU,PVC,TPU): Min. 300 Flexible Plastic(including TPR, foam TPU, foam PU, foam PVC): Not applicable EVA(low density)or phylon: Not applicable	
Tearing Strength (lbs./inch)	SATRA TM218		Rubber: Min. 55 Microcellular rubber: Min. 40 Plastics: Not applicable EVA or Phylon: Not applicable	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 x A4 paper size (210mm x	Max. 0.03	
Hardness	SATRA TM205	– 297mm)	Rubber: 56-75 (Shore A) Microcellular rubber: Min. 36 (Shore A) Solid Plastic(including solid PU,PVC,TPU): 55-76 (Shore D) Flexible Plastic(including TPR, foam TPU, foam PU, foam PVC): 45-75 (Shore A) EVA(low density)or phylon: 50-76 (Type OO)	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.50 (Dry) Min. 0.40 (Wet)	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		Rubber: ≤200 mm3 Microcellular rubber: ≤300 mm3 Solid Plastic(including solid PU,PVC ,TPU): ≤150 mm3 Flexible Plastic(including TPR, foam TPU, foam PU, foam PVC): ≤250 mm3 EVA(low density)or phylon: ≤500 mm3 EVA(high density) ≤110mm3	
PERFORMANCE (Midsole of	•	wear) S10		
Hardness (Type OO)	SATRA TM205	4	45-65	
Compression Set	SATRA TM64	2 pairs	PU phylon: Max. 15% after 22hrs@23°C EVA phylon: Max. 30% after 6 hrs@45°C	
Split Tear Strength (lbs./inch)	SATRA TM65		Min. 15	
PERFORMANCE (Snow Boots	s) S11			
Flexing Endurance – Ross Flex (Tested at – 20° C)	SATRA TM60	2 pairs	Max. 6 mm cut growth (after 20,000 cycles)	

PERFORMANCE (Polycarbon	nate-Urethane) S12			
Hardness (Shore A)	SATRA TM205		Soft grade 52-59 Medium grade: 60-69 Hard grade: 70-77	
Slip Resistance (Coefficient of friction)	SATRA TM144	2 pairs	Min. 0.40 (Dry) Mi. 0.30 (Wet)	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Up to 15 mm thick: Max. 1.0 >15 mm: Max. 0.5	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤250 mm3	
PERFORMANCE (Thermoplas		13		
Hardness	SATRA TM205		Soft grade 70-90 (Shore A) Medium grade: 46-54 (Shore D)	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.40 (Dry) Min. 0.30 (Wet)	
Flexing Endurance –Tested at -5° C after 150,000 cycle (mm per kc cut growth)	SATRA TM60	2 pairs	Up to 15 mm thick: Max. 0.5 > 15 mm thick: Max. 0.1	
Sole Wearing Resistance (Volume Loss)	SATRA TM174		≤250 mm3	
COMPONENTS				
PERFORMANCE (Hook and L	oop/Velcro) C2			
*Shear Strength	SATRA TM123	3 Samples	(Original): 10.0 lbs./in ² After 5000 cycles: 8.0 lbs./in ²	
*Peel Strength	SATRA TM123	3 Samples	Original: 0.4 lbs/in. After 5000 cycles: 0.3 lbs./in	
PERFORMANCE (Elastic) C1				
*Resistance of elastics to repeated extension	SATRA TM103	2 Samples	Initial: Max. 10% Rubber thread breakage after 10,000cycles.	
PERFORMANCE (Top piece)	C3			
*Hardness	SATRA TM205	3 pairs	PU/TPU/PVC: Wide < 10mm: 60-70 Shore D Wide ≥ 10mm: 40-50 Shore D Rubber/TPR: With heel block: Min. 86 Shore A Without heel block: Min. 73 Shore A	
Slip Resistance (Coefficient of friction)	SATRA TM144		Min. 0.30 (Dry) Min. 0.30 (Wet) (Width <10mm): Exempt	
*Sole Wearing Resistance (Volume Loss)	SATRA TM174		<10mm wide: Max.40mm3 10-25mm wide: Max.100mm3 >25mm wide: Max.350mm3	
PERFORMANCE (Zipper) C4				
*Lateral Strength of Slider	SATRA TM51	2 Samples	Min. 50 lbs.	
*Puller Attachment Strength	SATRA TM52	2 Samples	Min. 20 lbs.	
*Puller Torque Strength (Applicable to infant, pre- walk	ASTM D2061	2 Samples	Min. 4 in-lbs.	
and children's shoes up to size 13 only)				
13 only)	els) C5 (Applicable fo	or heel height	greater than 50mm, and the heel with 30mm across or less in all directions)	

*Lateral impact test for shoe heels	SATRA TM20	3 Samples	No bending or cracking after 5 impacts of 4 ft- lbs.	
TEXTILE: UPPER/LINING & S	OCK/OUTSOLE			
FUR AND FAUX FUR T1				
*Fur Identification	AATCC 20	1 Sample	Fiber examination by microscopic method	
*Fiber Content	AATCC 20/20A	1 Sample	Single fiber only: no tolerance 2 or more fibers blend: ± 3% max.	

RESTRICTED SUBSTANCES					
*Formaldehyde (Applicable to skin contact areas of infant, pre- walk and children's shoes up to size 13 only)	Pr EN ISO TS 17226 ISO 14184-1	1 x A4 paper size (210mm x 297mm)	Natural leathe	er materials: <75 ppm Textile mat	erials: <20 ppm
* CA Prop 65	Refer to Protocol 1300	All Samples		ed against the requirements o if additional testing or labeling	
Applicable to children product including	Lead and Cadmium EPA SW 846 Method # 3050B/3051 (Mod.) / CPSC-CH-E1003-09.1/ CPSC-CH-E1002-08.1 / CPSC-CH-E1001- 08.1 Phthalate CPSC-CH-C1001-09.3	All Samples	≤ 0.1% max each individual Note: Actual test would be p	Products Act Product Act Products Act Pro	d accessible materials.
sucking or teething, to facilitate sleep, relaxation, or the feeding of a child			Substances Lead Cadmium Phthalates	Suggested materials Follow CPSC lead Follow CPSC lead Coating and Plasticized materials	

	Metal: CPSC-CH-E1001- 08.3		90ppm Minnesota 325E.3892 (HF 2310)	
	Non Metal: CPSC-CH- E1002-08.3 Surface Coating: CPSC-		Products preempted by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing.'	
	CH-E1003-09.1		Product exemptions for CPSC (16 CFR 1500.91 (d) and (e), 16 CFR 1500.88 and 16 CFR 1252)	
Total Lead		1 Sample		
	Substrate & Surface Coating: EPA or ASTM		75ppm Minnesota 325E.3892 (HF 2310)	
Total Cadmium	method from AFIRM or CPSC methods	1 Sample	Product Exemptions by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing.'	
PFAS Supplemental Protocol	Refer to Protocol 1600	All Samples	All samples shall be reviewed against the requirements of PFAS Supplement Protocol to determine if additional testing or labeling is required	
A DOUTE ON A MOST				

ADDITIONAL NOTE:

- *** It is suggested number of samples required for basic package testing only. It may vary depending on the actual samples and no. of tests that are required for testing. The number of working days will depend on the actual candle-burning hours. For large candle additional days are required to complete burn. Please consult your nearest laboratory for details.
- #: Materials not meeting these levels should not necessarily be considered unsuitable: adequate reinforcement can increase both thickness and strength to acceptable levels.

REMARK:

HEAVY:

- Snow boots and shoes
- Rain boots and shoes
- Waterproof leather footwear
- Sports sandals (adult's and children's)
- Aqua shoes
- Hiking boots
- Athletics footwear
- All children's footwear except for casual sandals, slippers, ballets, flats, fabric upper shoes and beach thongs

MEDIUM:

- Men's dress shoes (leather oxford and loafers)
- Men's casual shoes (leather oxford, loafers, ankle boots)
- Women's dress shoes (leather and fabric; pumps, flats, sandals, loafers, oxfords)
- Women's casuals (leather and fabric, flats, sandals, loafers, oxfords, ankle boots)
- Coed vulcanized shoe/molded upper shoes
- Coed leather sandals
- Children's casual sandals, ballets, flats and fabric upper shoes

LIGHT

- Slippers (men's, women's, and children's)
- Women's espadrilles
- Beach thongs (men's, women's and children's)
- -Coed fabric upper shoes
- -Infant and pre-walk shoes

NOTE: Upper material for summer sandals, slippers, thongs and other open-toed footwear is exempt from cold flex test. Carry out Flexing Endurance at room temperature only.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	Revised By	Approved By
1203 – 0	Initial Release	Simon Leung Jun 30, 2005	Ro Jain July 06, 2005
1203 – 1	Revised the requirements for PERFORMANCE (Leather) U1- Rub Fastness & Water Resistance	Simon Leung Aug 14, 2005	Ro Jain Sept 8, 2005
1203 – 2	Deleted Sole Bond Strength Test From Leather Upper Materials (U1). Revised Leather Lining Rub Fastness Test To SATRA TM8. Deleted Azo Dye, Nickel, TBT/DBT, PCP And EN 71 Testing From Restricted Substances. Formaldehyde Testing Became Applicable To Children's Shoes Only. Added Velcro and Zipper Performance Tests, Deleted Soluble Chromium & Cadmium Testing From Restricted Substances.	Simon Leung Dec 15, 2005	Ro Jain Dec 19, 2005
1203 – 3	Added Flexing Endurance Test Requirement To Snow Boot Upper Material (U1 & U2). Exempted Kid Leather From Qualitative Peel Test. Revised Water Resistance Test Requirement. Updated Rub Fastness, Flexing Endurance And Abrasion Resistance Test Requirements (U1, U2, U3, L1 & L2). Updated Slip Resistance Requirement For Soling Materials. Added Ross Flex Test To Outsole Material of Snow Boot (S10); Measurement Of The Limit Of Useful Extension Of Elastics & Elastics Webbing (C3); Fiber Content & Foam Padding I.D. Tests To Thermal Insulating Lining, Interlining, Filling & Padding (L3) And Microscopic I.D. of Fur & Faux Fur (L4). Added Miscellaneous Tests To Cover Upper, Lining And Soling Material For Athletic/Sports Shoes. Added Phthalates And Lead In PVC Tests (R2 & R3)	Simon Leung Jun 18, 2008	Ro Jain Aug 12, 2008
1203 – 4	Added Hard Grade Requirement to TPR Soling Material. Added Soling Performance Requirements to PCU. Price Adjustment.	Simon Leung Oct 23, 2008	Ro Jain Oct. 31, 2008
1203 – 5	Revised the Soling Performance Standard of PCU. Added the Soling Performance Standard of TPU (S14). Added Wet Abrasion Requirement to Lining (L1 & L2). Removed Test L4. Added Textile: Upper/Lining & Sock/Outsole Test (T1 & T2)	Simon Leung Jul 13, 2009	Ro Jain Jul 14, 2009
1203 – A	Updated the Shoe Classification List. Updated Wet Abrasion Requirement for Lining (L1 & L2). Updated Hardness Requirement for Solid PVC (S1). Updated the Slip Resistance Requirement for Resin Rubber (S3). Updated the Hardness and Slip Resistance Requirement for High & Low Density EVA (S5). Updated the Hardness Requirement for Polyurethane – Single & Dual Density (S7). Updated the Spilt Tear Strength Requirement for Mid Sole of Athletic/Sports Footwear (S11). Added Outsole Abrasion Test (S1 to S14). Added Slip Resistance Test to Soling for Athletics/Sports Shoes (S10). Updated Phthalates in PVC Test to Phthalates in Accessible Plasticized Materials. Added Lead in Accessible Substrate Materials Test (R4 & R5). Price Adjustment.	Simon Leung April 1, 2010	Ro Jain April 1, 2010
1203 – B	Added Upper material Test for Lace & Satin Fabric Materials (U4), Replaced Thermal Insulation Test (L3) by Lining Material Test on Lace & Satin Fabric, Deleted Slipper Soles Test (S9). Deleted Wool & Wool Blends Test (T1), Deleted Lead in PVC Test (R3). Updated Lead in Accessible Substrate Materials Test (R4 & R5). Updated Section Codes, Where Necessary, Due to Above Changes. Deleted Foam Padding I. D. and Lead in PVC from Price Table.	Simon Leung September 29, 2010	Ro Jain September 29, 2010

1203 – C	Updated Slip Resistance Requirement for Soling Materials. Updated the Test Principle/Requirement for Lead in Substrate Materials for Adult's and Children's Products.	Simon Leung June 13, 2011	Ro Jain June 13, 2011	
1203-D	Updated pricing for phthalates	Elizabeth Armstrong July 21, 2011	Ro Jain July 21, 2011	
1203-E	Added composite testing requirements for phthalates testing	Elizabeth Armstrong February 1, 2012	Ro Jain February 1, 2012	
1203-F	Separate the test line of Prop 65 to supplementary protocol	Candy Chan Mar 26, 2013	Ro Jain Apr 15, 2013	
1203-G	Added the Upper Performance Standard of Rubber & Polymeric Materials (U5). Added the Soling Performance Standard of Flexible Plastic to S9.	Hanson Chen August 6, 2013	Ro Jain September 5, 2013	
1203-H	Differentiated the performance test rating into Tier 1/Tier 2/Tier 3 Added Top Piece and Slender Heels sections	Hanson Chen / Will Wu Jun 25, 2013	Ro Jain Feb. 10, 2014	
1203-l	Updated the pricing of below test items: Sheer Strength;	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug 18, 2014	
	Peel Strength and			
	Colorfastness to Light Fading			
1203-J	Lead, Cadmium and Phthalate in Washington Children's Safe Products Act	Eric Ho May 12, 2016	Elizabeth Armstrong May 13, 2016	
1203-K	Added Chromium VI testing	Elizabeth Armstrong May 29, 2018	Elizabeth Armstrong May 29, 2018	
1203-L	Removed Chromium VI Testing	Elizabeth Armstrong June 27, 2018	Elizabeth Armstrong June 27, 2018	
1203-M	Updated the testing requirements for water resistance	Elizabeth Armstrong Sept 28, 2018	Elizabeth Armstrong Sept 28, 2018	
1203-N	Updated phthalates requirements for Washington State	Elizabeth Armstrong June 11, 2019	Elizabeth Armstrong June 11, 2019	
1203-O	Updated phthalates requirements for Washington State	Charlene Swanson August 2019	Charlene Swanson August 2019	
1203-P	Added Water Repellency testing	Elizabeth Armstrong Jan 28, 2021	Elizabeth Armstrong Jan 28, 2021	
1203-Q	Updated Protocol, updated testing requirements for sole wearing	Elizabeth Armstrong July 2021	Elizabeth Armstrong July 2021	
1203-R	Added back in test line *Resistance of elastics to repeated extension that was missed during protocol update	Elizabeth Armstrong Sept 2021	Elizabeth Armstrong Sept 2021	

1203-S				Kevin Makocy April 29, 2022	Kevin Makocy April 29, 2022
1203-T	Added MN Law lead and Cadmium testing requirements			Elizabeth Armstrong Nov 2023	
1203-U	Updated MN Law to add exemptions			Elizabeth ARmstrong March 2024	