

TECHNICAL SPECIFICATION

SPECIFICATION FOR SPORT SHOES – PSS/PCC

	Parameters	Standard testing methods	Requirements
1	General Requirements	Visual examination FTIR/any suitable method	The shoes shall cover up to angle and provide rich appearance. The toe area vamp and back piece shall be reinforced with PVC/PU coated fabric or leather with decorative design, shoe upper outer and backing material stick together with suitable adhesive. (colours as per the figure 1)
2	Weight of pair of shoes/g UK size 8	Using weighing balance	Not greater than 650 (the weight difference of individual shoe shall not exceed 30 g)
3	Upper		
3.1	Face material	FTIR / any suitable method	PVC/PU and black breathable foam padded mesh fabric
3.2	Lining material Toe area Vamp area Quarter area Counter area	FTIR/ any suitable method/visual examination	Shall be lined by smooth knitted fabric made out by polyester or suitable material Shall be lined by suitable foam padded knitted fabric
3.3	Collar Material Collar padding insert	FTIR/ any suitable method/visual examination	Foam padded PVC coated fabric or PVC coated knitted fabric Sponge material
3.4	Tongue Upper Padding Lining Colour Construction Lace loop Width Length	FTIR/ any suitable method/visual examination	Breathable mesh fabric with lace loop Sponge material Foam padded knitted fabric Matching colour Shall properly stitched to the throat opening/vamp area Shall be parallel to 5 th or 4 th eyelet pair Min. 10 mm Min.15mm

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3.5	Upper reinforcement Toe box Eyelet stays Thickness/ mm Counter closing Thickness / mm	FTIR/ any suitable method/visual examination ISO 23529:2016 FTIR/ any suitable ISO 23529:2016	Shall be reinforced by polyester or other suitable bonded stitched fabric 1.3 – 1.5 Shall be reinforced by plasticized PVC or other suitable material 1.5 – 2.0
4	Eyelets Workmanship No of holes Distance from eyelet hole to edge of eyelet stays	Visual examination	Punch holes only 5 (five) pairs 5 mm Minimum
5	Lace Material Length / cm Breaking load / N Lace tips Colour and Shape Width of the flat lace, mini	FTIR/ any suitable method IS 4778:1982 SLS 1290:2008 Visual examination	Polyester or synthetic material 115 – 125 400 Minimum Heavy duty Plastic Matching colour and Tubular shape 7 mm Minimum
6	Bottom		
6.1	Insole Material Thickness	FTIR / any suitable method ISO 23529:2016	Cellulose, synthetic or any other suitable material 1.5 – 2.5
6.2	Out sole Workmanship Material Mid sole Outer sole Thickness Heel height / mm Hardness / IRHD N or shore A Mid sole Outer sole Abrasion / mm ³ Outer sole Whole shoe flexing	Visual examination FTIR / any suitable method ISO 20344:2011 ISO 48-2:2018 ISO 4649:2017 (Method A) SATRA TM 92:1992	Rubber or synthetic rubber outer sole shall be fixed on to the EVA mid sole with suitable thread pattern EVA Rubber or synthetic rubber 3.0 – 4.0 mm 30.0 – 35.0 mm 35 – 40 60 - 65 175 Maximum No visible cracks or no delamination of parts at the bottom or upper of the shoe after 150,000 cycles

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7	Sole adhesion / kgf Toe to upper Heel to upper	SATRA TM 404:1992	10 Minimum 30 Minimum
8	Upper sole bonding strength / N/mm	ISO 17708:2018	4.0 Minimum
9	In-sock Thickness/ mm	FTIR any suitable method Visual examination ISO 23529:2016	EVA covered by matching knitted fabric lining 3.0 Minimum
10	Thread Material	FTIR/ any suitable method	Heavy duty Nylon or other synthetic
11	Stiches		
11.1	Closing upper Toe area Other area Stiches workmanship	Moving microscope Visual examination	Double stitched lock stitching 8-10 stitches per 25 mm Single stitched lock stitching 8-10 stitches per 25 mm Missed stitches are not acceptable
12	Shoe sizing (UK)	ISO 9407:2019	5-12 broad fitting
13	Warranty		Six months manufacture's warranty
14	Test Sample		When hand over the Sample pair of shoes for Testing process. It must be Specific size of UK size 08 of every pair of shoes.



Figure 01: Photograph of sport shoe

Signature of TEC member