

PARTICULAR SPECIFICATION PS.G19

Uniform

Particular Specification for Uniform

Provision

- X.1 (1) Subject to sub-clause (4) of this Clause, the Contractor shall within 2 months after the date for commencement of the Works as notified by the Architect in accordance with General Conditions of Contract Clause 47 (hereinafter referred to as “date for commencement of the Works”) provide Site Personnel and self-employed workers engaged for the execution of the Works on the Site (such self-employed workers are hereinafter referred to in Particular Specification Clauses X.1 to X.4 as “self-employed workers”) with uniform to wear when they are on the Site. The Contractor shall provide the uniform, including without limitation any replacement as required under Clause X.2(3), to the Site Personnel and self-employed workers, free of charge and free of any monetary deposit, either refundable or non-refundable, from the Site Personnel and self-employed workers. The Contractor shall ensure that the Site Personnel and self-employed workers begin to wear the uniform when they are on the Site within 2 months after the date for commencement of the Works, and ensure that they wear the uniform when they are on the Site throughout the progress of the Works until the expiry of the Subsequent Period as referred to in Special Conditions of Contract Clause 107(2)(c).
- (2) The uniform for Site Personnel and self-employed workers shall consist of the following uniform items -

Uniform items for Site Personnel and self-employed workers	
Non Casual Workers and other personnel	Casual Workers as defined in Clause Z.1 (1) of Particular Specification PS.G13 for Monitoring of Wage Payment to Site Personnel Section Z
(i) Safety helmet (ii) Polo shirt for workers and polo shirt or shirt for other personnel (long sleeves and short sleeves to suit weather) (iii) Winter jacket (iv) Trousers	(i) Safety helmet (ii) Vest

- (3) The Contractor shall provide sufficient number of each of the uniform items to each of the Site Personnel and self-employed worker required to wear the uniform and the Contractor shall take measures as far as practicable to ensure that the uniform items are maintained in reasonably tidy and good conditions.
- (4) The provision of uniform to and the wearing of uniform by Site Personnel and self-employed workers as required under sub-clause (1) of this Clause shall not apply to the following-
 - (i) personnel not involved in site work, such as office-based staff, drivers of transport for the use of the Architect and security guards; or
 - (ii) workers engaged in work requiring personal protective equipment which, in the opinion of the Architect renders the wearing of uniform items unsuitable or impractical.

- Maintenance*** X.2 (1) Not used.
- (2) If the vest for the Casual Workers is to be shared among different Casual Workers, the Contractor shall wash the vest and ensure that it is in clean and good conditions each time before it is provided to another Casual Worker.
- (3) The Contractor shall replace as soon as practicable uniform items provided to Site Personnel and self-employed workers that are damaged, torn, worn, expired or lost.
- Design*** X.3 (1) The Contractor shall within 7 days from the date for commencement of the Works submit the design of the uniform items for Site Personnel and self-employed workers to the Architect for his approval. In submitting the design to the Architect the Contractor may propose a standard uniform design developed and adopted by the construction industry that can be or has been used in other contracts provided the design complies with the requirements of the Contract.
- (2) The Architect shall within 2 weeks after receiving the design submitted by the Contractor in accordance with sub-clause (1) of this Clause, either approve the design or provide his comments on the design and specify a time within which the Contractor shall re-submit his design. The Architect shall within 1 week after receiving any design re-submitted by the Contractor in accordance with this sub-clause, either approve the design or provide his further comments on the design and specify a time within which the Contractor shall re-submit his design. The Contractor shall submit or re-submit, as appropriate, his design within the time specified by the Architect.

- (3) The design of the uniforms for Site Personnel and self-employed workers shall comply with the following requirements-

General

- (i) All items shall have sufficient choices of sizes to reasonably fit all personnel.
- (ii) Clothing shall have no loose or dangling parts which can be easily entangled by machineries.

Clothing

- (iii) The fabric for clothing shall be suitable for the designed weather condition.
- (iv) The fabric for polo shirt for workers shall be CVC fabric (65% cotton and 35% polyester) with minimum weight of 200 grams per square metre (gsm) or of such fabric as approved by the Architect and shall comply with the requirements in Appendix X.1 of the Specification.
- (v) Washable retroreflective strips or bands shall be incorporated onto the polo shirts and winter jackets for workers. The layout of the retroreflective strips or bands shall comply with BS EN 471.
- (vi) The fabric for summer clothing should preferably be of light color and be thin and absorbent to minimise heat absorption and enhance heat and perspiration dissipation. Subject to sub-clause (3)(ii) of this Clause, summer clothing shall be loose-fitting to enhance perspiration dissipation.
- (vii) Trousers for workers shall be 100% cotton or of such fabric as approved by the Architect and shall comply with the requirements in Appendix X.2 of the Specification. Trousers shall have semi-elastic adjustable waist size with belt loops and at least two front pockets and two back pockets. The horizontal dimension of belt loops for trousers shall be at least 20mm wide.
- (viii) A logo specified by the Employer or the Architect shall be integrated into the design and be shown in reasonable size on the top right front side of the uniform top. The Intellectual Property Rights of the specified logo are owned by the Employer and unless otherwise permitted by the Employer in writing, the specified logo shall not be reproduced or used in any way other than that stipulated in the Contract. For the avoidance of doubt, the Employer's departmental logo or the logo of the Architect's organisation shall not be shown on uniform items for Site Personnel and self-employed workers but the Contractor may show the Contractor's logo on the uniform items for Site Personnel and self-employed workers.

- (ix) For the uniform for workers, the Contractor shall provide independent test certificates for the fabric used for the uniform and for the sample garments to demonstrate to the satisfaction of the Architect their compliance with the requirements in Appendix X.1 and Appendix X.2 of the Specification as appropriate. The Contractor shall submit new independent test certificates whenever there is a change in fabric or uniform supplier. In any case, the Architect may order tests to be conducted in accordance with the requirements in Appendix X.1 and Appendix X.2 of the Specification for the fabric or garments. The expense and costs of such tests shall be borne by the Contractor.

Safety helmet

- (x) Safety helmets shall comply with the “Guidance Notes on the Selection, Use and Maintenance of Safety Helmets” published by the Labour Department. Safety helmets shall have detachable chin straps and nape strap adjustable by adjustment wheel dial or ratchet knob system.
- (xi) The Contractor shall propose the colour code of helmets for the approval of the Architect. The safety helmets of the following three categories of Site Personnel shall be of different colours –
- workers
 - Contractor’s supervisory, technical and managerial staff
 - Architect’s staff
- (4) The Contractor shall, if instructed by the Architect, submit sample of the uniform items to the Architect.

Auditing

- X.4 (1) The Architect shall conduct at least one audit with the Contractor in each monthly period, within the time starting from and including the Material Date as defined in Special Conditions of Contract Clause 107(7) until the day before the commencement of the Initial Period as referred to in Special Conditions of Contract Clause 107(2)(b) or advanced in accordance with Special Conditions of Contract Clause 107(3), as the case may be, to determine the Non-compliance Rate for Uniform for the monthly period in which the audit is conducted. Where the Initial Period is advanced in accordance with Special Conditions of Contract Clause 107(3), the monthly period or in the case where there is more than one monthly period, the last monthly period may be less than a month. The Non-compliance Rate for Uniform for any monthly period prior to the Initial Period shall not be used for the purpose of adjusting payment under Special Conditions of Contract Clause 107(6).

- (2) The Architect shall conduct at least one audit with the Contractor in each monthly instalment period during the Initial Period and Subsequent Period referred to in Special Conditions of Contract Clause 107(2)(b) and 107(2)(c) (hereinafter referred to as “monthly instalment period”) on the wearing of uniform items by Site Personnel and self-employed workers to determine the Non-compliance Rate for Uniform for the monthly instalment period in which the audit is conducted for the purpose of adjusting payment under Special Conditions of Contract Clause 107.
- (3) The audit shall not be conducted when, in the opinion of the Architect, Site Personnel and self-employed workers may need to wear any protective clothing for inclement weather which will cover or obscure the uniform. The Architect may choose to conduct more than one audit with the Contractor in any monthly period referred to in sub-clause (1) of this Clause or any monthly instalment period. The Architect shall select randomly the date for each audit, and shall not notify the Contractor in advance the date selected for the audit until the day of the audit. The Architect is entitled to select any part of the Site to be inspected for the audit. If the Contractor does not send a representative to witness the audit when requested by the Architect, the Architect may decide to conduct the audit without the Contractor’s representative and the audit results of the Architect shall be taken as final and binding on the Contractor.
- (4) The Non-compliance Rate for Uniform for each audit shall be determined as follows-

Total number of Site Personnel and self-employed
workers found not wearing all the uniform items provided
under Particular Specification Clause X.1(2) during the
audit

Total number of Site Personnel and self-employed
workers audited

expressed as a percentage.

- (5) If more than one audit is conducted within any monthly period referred to in sub-clause (1) of this Clause or any monthly instalment period, the Non-compliance Rate for Uniform for such monthly period or monthly instalment period shall be the arithmetic mean of the Non-compliance Rates for Uniform for all the audits conducted within the same monthly period or monthly instalment period.
- (6) For the avoidance of doubt, the Site Personnel and self-employed workers referred to in sub-clause (4) of this Clause shall be those who were or should have been provided with the uniform items to wear in accordance with Particular Specification Clause X.1.

- (7) For the purpose of sub-clause (4) of this Clause and for the avoidance of doubt, the Site Personnel and self-employed workers are considered to be wearing all the uniform items if-
- (i) subject to sub-clause (7)(ii) of this Clause, they wear all the uniform items provided in accordance with this Particular Specification Clause X.1 as their outermost clothing; and
 - (ii) for Non Casual Workers, they wear either the uniform item of polo shirt/shirt or winter jacket or both in which case only one of these uniform items shall be worn as the outermost clothing.

Method of Measurement

PREAMBLES

The Pre-fixed rate for item of uniform for Site Personnel and self-employed workers shall be deemed to allow for the value for work related to the item and for meeting all other related obligations, liabilities, risks and profit. In the event that the pre-fixed rate has been insufficient or where there are any aspects where the methods provided hereunder do not measure any item or exclude the measurement of any item or part thereof, the difference in value shall be deemed to have been include in the rates inserted elsewhere in the Schedule of Rates.

Units

The units of measurement shall be:

- (i) uniform for Site Personnel and self-employed workeritems.

Measurement

The item for “Uniform for Site Personnel and self-employed workers” shall be measured and paid in accordance with Clause SCC107 of the Special Conditions of Contract.

Itemisation

Separation item shall be provided for uniform for Site Personnel and self-employed workers in accordance with the following:

Group	Feature
I	1. Uniform for Site Personnel and self-employed workers

Method of Measurement (Cont'd)

UNIFORM FOR SITE PERSONNEL AND SELF-EMPLOYED WORKERS

The item for uniform for Site Personnel and self-employed workers shall include:

Item Coverage

- (a) design, provision, maintenance, and removal of uniform for Site Personnel and self-employed workers;
- (b) preparing, amending as necessary, and submitting to the Architect for approval, details of and drawings showing the design of the uniform items;
- (c) samples and testing thereof;
- (d) replacement of uniform items;
- (e) credit value of the uniform items where returned and removed;
- (f) joint audit on the wearing of uniform items.

Specification and Test Requirements for Knitted Items

Test Item 項目		Test Method 測試方法	In Direct Contact with Skin 直接接觸皮膚	With No Direct Contact with Skin 非直接接觸皮膚
PH值 (PH Value)		AATCC81	4.0 - 7.5	4.0 - 9.0
甲醛含量(mg/kg) (Formaldehyde Content)		ISO14184 or GB/T 2912.1	≤ 75ppm	≤ 300ppm
可分解芳香胺染料 (AZO Dyes)		EN14362	Not Detected 禁用	Not Detected 禁用
異味 Determination Of Odour		SNV 195 651 or GB Test Method 2	Odourless無異味	Odourless 無異味
水洗尺寸變化率(單 面織物)(%) (Dimensional Stability to Washing)	直向 (Length) 橫向 (Width)	ISO5077 ISO6330 (1st & 3rd washes)	≤ +/- 5% (Non- Garment washed) ≤ +/- 3% (Garment washed)	≤ +/- 5% (Non- Garment washed) ≤ +/- 3% (Garment washed)
水洗後扭曲率(% (Spirality)	上衣(Top) 褲子 (Pants)	ISO16322 ISO6330	Top : ≤ 5% Bottom & one piece : ≤ 2.5%	Top : ≤ 5% Bottom & one piece : ≤ 2.5%
耐洗色牢度(級) (Colour Fastness to Washing)	變色 (Colour Change) 沾色 (Colour Staining)	ISO105-C06	≥ 4	≥ 4
	自身沾色 (Crossing Staining)		≥ 3-4	≥ 3-4
			≥ 4 (contrast colour)	
耐摩擦色牢度(級) (Colour Fastness to Rubbing)	乾(Dry)	ISO105-X12	≥ 4	≥ 4
	濕(Wet)		≥ 3	≥ 3
耐汗漬色牢度(級) (Colour Fastness to Perspiration) -酸(Acid) & 鹼 (Alkaline)	變色 (Colour Change)	ISO105-E04	≥ 4	≥ 4
	沾色 (Colour Staining)		≥ 3-4	≥ 3-4
塗料印花耐洗色牢 度(級) (Colour Fastness to Washing(Pigment))	變色 (Colour Change)	ISO105-C06 (For Pigment)	≥ 3-4	≥ 3-4
	沾色 (Colour Staining)		≥ 3	≥ 3

Test Item 項目		Test Method 測試方法	In Direct Contact with Skin 直接接觸皮膚	With No Direct Contact with Skin 非直接接觸皮膚
塗料印花耐摩擦牢 度(級) (Colour Fastness to Rubbing(Pigment))	乾(Dry) 濕(Wet)	ISO105-C07 (For Pigment)	$\geq 3-4$ $\geq 2-3$	3-4 2-3
耐光色牢度(級) (Colour Fastness to Light)		ISO105-B02	≥ 4	≥ 4
耐水色牢度(級) (Colour Fastness to Water)	變色 (Colour Change)	ISO105-E01	≥ 4	≥ 4
	沾色 (Colour Staining)		$\geq 3-4$	$\geq 3-4$
洗水後外觀 Appearance after Wash (including retroreflective strips and logo)		Visual Assessment	1st & 3rd washes No undesirable effect	1st & 3rd washes No undesirable effect
彈子頂破強力(N) (Ball Bursting Strength)	單面 (Single)	ASTM D3786	Fabric : ≥ 40 lb/sq. in ; Seam : ≥ 35 lb/sq. in	Fabric : ≥ 40 lb/sq. in ; Seam : ≥ 35 lb/sq. in
	雙面、絨 類 (Double 、Fleece)			
起球(級) <small>Please refer Note A</small> (Pilling Resistance as Received)		ASTM D3512	$\geq 3-4$	$\geq 3-4$

Note A - 全棉、剪毛、絲絨、磨毛、起絨類產品不須測試起球。(Pilling test is not required for 100% cotton, velour, peached, brushed fabric)

Specification and Test Requirements for Woven Items

Test Items 項目	Test Method 測試方法	In Direct Contact with Skin 直接接觸皮膚	With No Direct Contact with Skin 非直接接觸皮膚	
PH值 (PH Value)	AATCC81	4.0 - 7.5	4.0 - 9.0	
甲醛含量(mg/kg) (Formaldehyde Content)	ISO14184 or GB/T 2912.1	≤ 75ppm	≤ 300ppm	
異味 Determination of Odour	SNV 195 651 or GB 18401	Odourless 無異味	Odourless 無異味	
可分解芳香胺染料 (AZO Dyes)	EN14362	Not Detected	Not Detected	
水洗尺寸變化率 (%) (Dimensional Stability to Washing)	領(Collar) <small>refer Note A</small>	ISO5077 ISO6330	≤ +/-3% (1st & 3rd washes)	≤ +/-3% (1st & 3rd washes)
	胸圍(Chest)			
	衣長(Top Length)			
	腰圍(Waist)			
	褲長 (Skirts/Pants Length)			
耐洗色牢度(面 料)(級) (Colour Fastness to Washing(Shell))	變色(Colour Change)	ISO105-C06	≥ 4	≥ 4
	沾色(Colour Staining)		≥ 3	≥ 3
耐洗色牢度(里 料)(級) (Colour Fastness to Washing(Lining))	變色(Colour Change)	ISO105-C06	≥ 3-4	≥ 3-4
	沾色(Colour Staining)		≥ 3	≥ 3
耐摩擦色牢度(面 料)(級) (Colour Fastness to Rubbing(Shell))	乾(Dry)	ISO105-X12	≥ 4	≥ 4
	濕(Wet)		≥ 3	≥ 3
耐摩擦色牢度(里 料)(級) (Colour Fastness to Rubbing(Lining))	乾(Dry)	ISO105-X12	≥ 4	≥ 4
	濕(Wet)		≥ 3	≥ 3
耐汗漬色牢度(面、 里料)(級) (Colour Fastness to Perspiration (Shell & Lining)) -酸 (Acid) & 鹼 (Alkaline)	變色(Colour Change)	ISO105-E04	≥ 4	≥ 4
	沾色(Colour Staining)		≥ 3-4	≥ 3-4
耐光色牢度(面料)(級) (Colour Fastness to Light(Shell))	AATCC16E (20 hrs) / ISO105-B02 (20 hrs)	≥ 4	≥ 4	

Test Items 項目		Test Method 測試方法	In Direct Contact with Skin 直接接觸皮膚	With No Direct Contact with Skin 非直接接觸皮膚
耐水色牢度((面、 里料)(級) (Colour Fastness to Water (Shell & Lining))	變色(Colour Change)	ISO105-E01	≥ 4	≥ 4
	沾色(Colour Staining)		≥ 3-4	≥ 3-4
洗水後外觀 Appearance after Wash		Visual Assessment	1st & 3 rd washes (no undesirable effect)	1st & 3 rd washes (no undesirable effect)
耐磨性能 Abrasion		ASTM D4966	10,000 rubs for light weight fabric : below 150g 20,000 rubs for medium weight fabric : 150g - 250g 30,000 rubs for heavy weight fabric : over 250g	
起毛起球性能(級) (Pilling Resistance as Received)		ASTM D3512	≥ 3-4	≥ 3-4

Note A - 只測試立領 (Tested on Stand Collar)