higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

6 AUGUST 2018

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

This section must be done on dimension, abstract or billing paper.

			QUESTION 1				
			Door and varnish				Timber door frame and varnish
	✓ 1	1✓	2 032 × 1 100 × 44 mm framed, ledged, braced and batten Meranti timber door	2/	✓ 2.09 ✓ 1.43	4.18✓ 1.43✓ 5.61✓	75 ×110 mm meranti timber frame once rebated 2 032 + 55 = 2 087 ✓ 1 100 2/55 = 110 2/110 = 220 1 430✓
	2.08 1.14	✓	Apply two coats clear varnish to timber door surface 2 032 + 44 = 2 076✓ 1 100 + 44 = 1 144✓	2/	2.09 0.26 1.21 0.26	✓ ✓	Apply two coats clear varnish to timber frame surface 2/75 = 150 + 110 = 260 ✓
			Lock				Fixing lugs
	1	✓	Three-level mortice lock to timber	3/	1	✓	Metal strips as fixing lugs
			Hinges				
3/	1	✓	100 mm brass hinges to timber				

			✓				Vertical plaster
2/	2,09 0,15	✓	Damp-proof sheeting around timber door frame				Ddt ✓
	1,51 0,15	✓	1 210 + **(2/150)** = 1 510		1,21 2,09	✓	19 mm thick plaster to internal vertical wall 2 032 55 2 087✓
			✓				
2/	1	✓	10 mm diameter mild-steel dowels				Paint to walls
			[20]				Ddt ✓
			QUESTION 2				Two coats PVA acrylic paint to plastered walls
			220 mm thick wall and finishing		1,21 2,01	✓	2 032 55 2 087 - 75 (skirting) 2 012✓
			Ddt ✓				Timber skirting
			One-brick wall in ordinary bricks built in stretcher bond in 1:4 cement mortar				Ddt ✓
			75 2 032 10 55 85✓ 2 087 85 2 172✓		✓ 1,21	<u>1.21</u>✓	19 × 75 mm meranti timber skirting Concrete in threshold
	1,21 2,17	✓	1 100 2/55 = 110 1 210✓				✓
			and				15 MPa mass concrete to threshold
			Ddt ✓		1,21		(75 + 10 = 85 = 0,085 = 0,09✓
			Extra over brickwork for external facing		0,09	✓	

			Screed and floor tiles in threshold	2/	✓ 0,06	0.12✓	✓ 19 × 75 mm meranti timber skirting
	1,21 0,22	✓	✓ 30 mm cement mortar screed to floor and ✓ Ceramic floor tiles covering to screed				Precast concrete lintels in opening head ✓ 114 × 75 mm precast concrete lintel
			Facings, plaster and paint to reveals		1,65	✓	1 210 2/220 = 440 1 650✓
	0,06 2,17	✓	✓ Extra over brickwork for external facing and ✓ 19 mm thick plaster to internal vertical wall 220 - 110 (frame)✓ 110 ÷ 2 = 55 = 0.06		1	✓	Soldier arch over the opening ✓ Extra over brickwork face bricks soldier arch of 1 210 mm wide including turning pieces
	0.06 2.01	✓	✓ Two coats PVA acrylic paint to plastered walls		1.21 0.22	✓	Ddt ✓ Extra over brickwork for external facing
							[20]

QUESTION 3

SQUARING: MARK ALLOCATION	
Check collections and site cast	1
Squaring	1
Check squaring	1
Transfer items and quantities	1
Run through	1
TOTAL:	**5**

ABSTRACT PAPER

CARPENTRY AND JOINERY

No
2 032 × 1 100 × 44 mm framed, ledged, braced and batten meranti timber door.....

1 ✓ 1

1 no✓

M
19 X 75 mm meranti timber skirting .....

6 1.21✓ 4

0.12✓

M
75 ×110 mm meranti timber frame once rebated.....

5.61✓ 2

7 m✓

.

MARKS ALLOCATION		
Correct items transferred	1	
Trade name	1	
Unit	1	
Page ref.	1	
Reducing	1	
Transfer items	1	
Run through	1	
TOTAL	**7**	

BILLING PAPER

BILL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R	AMOUNT C
	BILL NO 1 **CARPENTRY AND JOINERY**					
1	2 032 × 1 100 × 44 mm framed, ledged, braced and batten meranti timber door	No	1✓			
2	75 × 110 mm meranti timber frame once rebated	M	7✓			
3	19 × 75 mm meranti timber skirting	M	1			
	Carried to summary			R	.....	.....
	Bill no 1 **CARPENTRY AND JOINERY**					

MARK ALLOCATION	
Bill no.	1
Trade	1
Item no.	1
Column names	1
Description	1
Unit	1
Quantities	1
Page summary	1
TOTAL	**8**

[20]

TOTAL SECTION A: 60

SECTION B

QUESTION 4

INTERIM VALUATION 7

(Calculations rounded off to the nearest R10)

Preliminaries	7/12 × R125 300,00	=	R73 090,00	
Earthworks	100% × R99 510,00	=	R99 510,00	
Concrete, etc.	95% × R457 678,00	=	R434 790,00	
Masonry	80% × R220 300,00	=	R176 240,00	
Total cost of building work		=	**R783 630,00**	
Add unfixed material on site		=	R12 000,00	
Increased cost		=	R155 320,00	
Total cost of work		=	**R950 950.00**	
Deduct retention 10% × R 950 950,00		=	R95 095,00	
		=	**R855 860,00**	
Less previous payment			**R755 324,00**	
Payment to contractor at Valuation 7			**R100 540,00**	**[10]**

QUESTION 5

5.1 A drawing register is a form designed to record all drawings received from the architect or consultants for a project. (1)

5.2 The following will be recorded on the drawing register:
- Project name
- Job reference number
- Name(s) of the architect/consultants
- Drawing number
- Scale
- Title of drawings
- Date received
- Number of copies received
- Remarks (Any 4 × 1) (4)

5.3 A query list is a form designed to record issues that need clarification during the taking-off period. (2)

5.4 For clarification of:
- Measurements
- Specifications
- Materials
- Drawing interpretation
- Construction methods (3)

[10]

QUESTION 6

6.1
- Tendering
- Interim payment
- Calculation of final account
- Variation order preparation
- Buying of some materials
- Legal document (Any 2 × 1) (2)

6.2
- Taking-off/measuring
- Squaring
- Abstracting
- Billing (Any 3 × 1) (3)

6.3
- The taking-off list is a list of all the sections of work to me measured.
- The measuring list is a list of all items in a section of work to be measured. (2)

6.4 Preambles are used to:
- State the quality of materials
- State the quality of workmanship
- Shorten the description (3)

[10]

QUESTION 7

7.1 Side cast/waste collection
7.2 Working-up
7.3 Sign posting
7.4 Dotting on
7.5 Tendering
7.6 Reducing
7.7 Collections
7.8 Interim valuation
7.9 Variation order
7.10 Interim certificate

(10 × 1) **[10]**

TOTAL SECTION B: 40
GRAND TOTAL: 100

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