higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

29 November 2022

This marking guideline consists of 9 pages.

Copyright reserved

SECTION A

QUESTION 1

1.1

			56 × 44 mm meranti tbr. frame once rebated✓
✓ 4/ 2/	0.90	✓	- Stiles
4/	1.61	✓	- Head
4/	1.61	✓	- Sill
			✓
✓ 4/	2	✓	406 × 836 mm meranti tbr. frame sash 812 + 2/12 = 836
			✓
4/	1	✓	623 × 836 mm meranti tbr. twice rebated frame for the fixed light

[10]

(1)

QUESTION 2

2.1

			2 cts. of varnish to 56 × 44 mm meranti tbr. frame once rebated✓
✓ 2/4/	0.90		- Stiles
	0.14	✓	56 or 56+18 = 74
✓ 4/	1.61		+2/44 +2/44
	0.16	✓	144✓ 162
			- Head
			Or
4/	1.61		
	0.14		
✓ 4/	1.61	✓	- Sill
	0.14		
		✓	
✓ 4/2/2/	0.41		2 cts. of varnish for 406 × 874 mm meranti tbr. frame sash✓
	0.84	✓	900 – 2/32 = 836
4/2/	0.62		2 cts. of varnish for 623 × 874 mm meranti tbr. twice rebated frame for fixed light✓
	0.84	✓	623 + 2/10 = 643

(12)

2.2

✓ 4/	0.90	✓	Prime the back of the tbr. frame stiles✓

(3)

2.3

			375 micron DPC to the top and bottom of the tbr. frame✓
4/	1.61	✓	- Head
4/	1.61	✓	- Sill

(3)

[18]

(2)

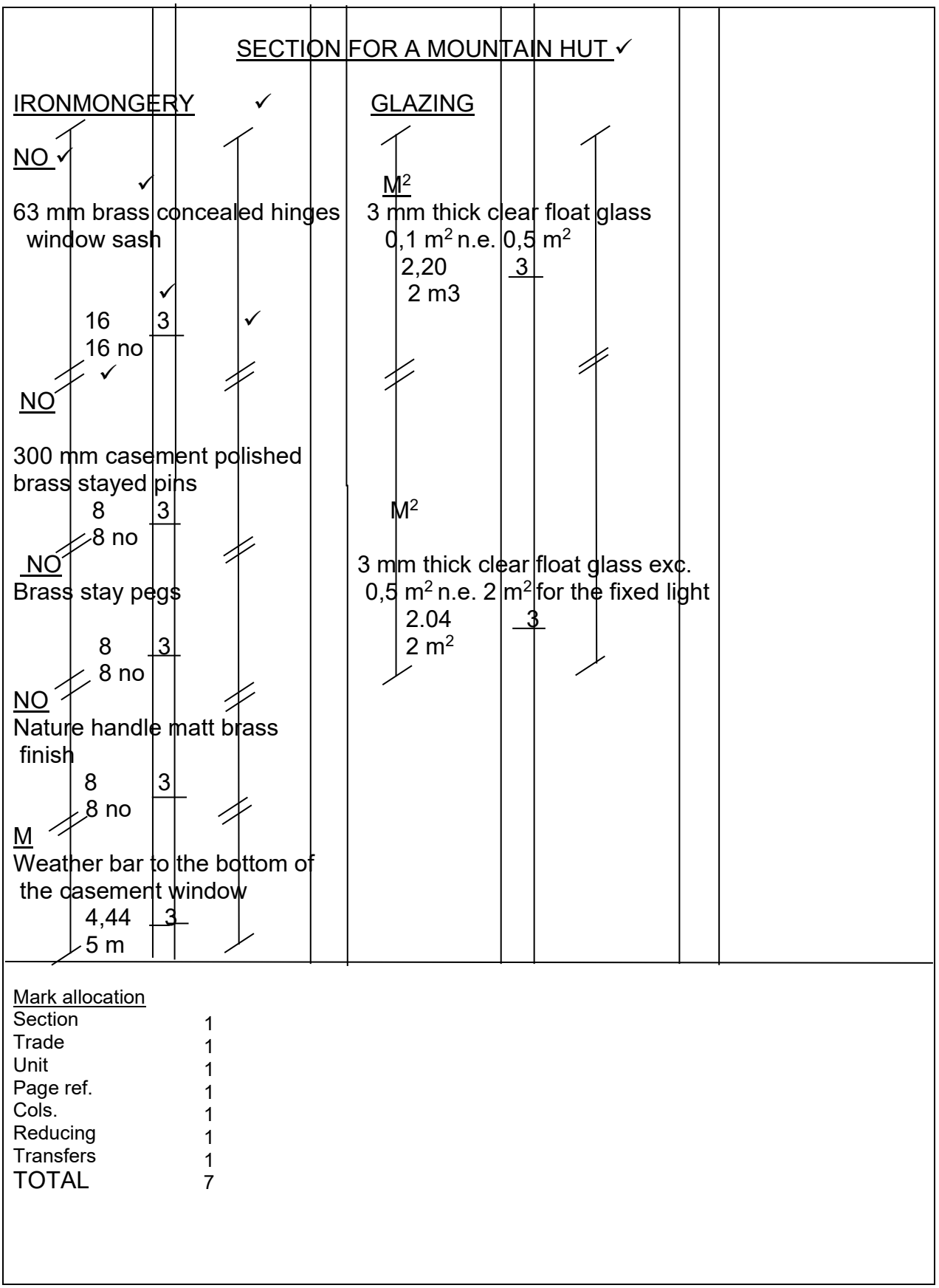
QUESTION 3

			3.1				
4/2/	2	✓	✓ 63 mm brass concealed hinges				
4/2/	1	✓	✓ 300 mm casement polished brass stayed pins & Brass stay pegs				
4/2/	1	✓	✓ Nature handle matt brass finished				
4/	1.61	✓	✓ Weather bar to the bottom of the casement window (8)				
			3.2				
4/2/	0.81 0.34	✓	✓ 3 mm thick clear float glass 0,1 m^2 n.e. 0,5 m^2 window sash				
4/	0.81 0.63	✓	406 – 2/32 = 342 ✓ Do. for exc. 0,5 m^2 n.e. 2 m^2 for the fixed light (4)				
			[12]				
		(3)				(4)	

QUESTION 4.1

			3.1 ✓				
4/2/ ✓	2 ✓	16	63 mm brass concealed hinges				
4/2/	1	8 ✓	~~300 mm~~ casement polished brass stayed pins & Brass stay pegs				Mark allocation Check timesing 1 Check dims 1 Squaring 1 Check squaring 1 Transfers 1 (5)
4/2/	1	8	Nature handle matt brass finish				
4/	1.61	4.44	Weather bar to the bottom of the casement window				
4/2/	0.81 0.34	2.20	3.2 3 mm thick clear float glass 0,1 m^2 n.e. 0,5 m^2 window sash				
			406 – 2/32 = 342 ✓				
4/	0.81 0.63	2.04	Do. for exc. 0,5 m^2 n.e. 2 m^2 for the fixed light				

QUESTION 4.2



Mark allocation	
Section	1
Trade	1
Unit	1
Page ref.	1
Cols.	1
Reducing	1
Transfers	1
TOTAL	7

(7)

QUESTION 4.3

	SECTION OF A MOUNTAIN HUT✓ BILL NO. 1✓				
✓	IRONMONGERY✓	✓	✓		
1	63 mm brass concealed hinges✓	No	16		
2	300 mm casement polished brass stayed pins	No	8		
3	Brass stay pegs	No	8		
4	Nature handle matt brass finish	No	8		
5	Weather bar to the bottom of the casement window	M	5		
	GLAZING				
7	3 mm thick clear float glass 0,1 m^2 not exceeding 0,5 m^2 window sash.	M^2	2		
8	3 mm thick clear float glass exceeding 0,5 m^2 not exceeding 2 m^2 for the fixed light	M^2	2		
	✓ Carried to summary			R	

Mark allocation

Section	1
Bill no.	1
Trade	1
Item no.	1
Descriptions	1
Units	1
Quantities	1
Summary	1
	8

(8)
[20]

TOTAL SECTION A: 60

SECTION B

QUESTION 5

5.1
- Lump sum contract:✓ in this contract the builder submits a lump sum price based on the drawing and specifications provided by the owner or client.✓
- Labour-only contract:✓ in this type of contract the builder is only responsible for the actual work and the client is responsible for buying the material and for the coordination, supervision and quality control.✓
- Cost-plus contract:✓ the contractor is paid for all contractually allowed expenses up to a set limit, plus additional payment to allow for profit.✓
- Bill of quantities contract:✓ the contractor prices a bill of quantities, prepared by the quantity surveyor, based on drawings and specifications prepared by the architect.✓
- Target cost with variable fee:✓ the total cost is recorded and compared with the target cost, which is usually calculated and agreed to by both parties.✓

(Any 4 × 2) (8)

5.2
- Conception stage of the project
- Design stage
- Pre-contract stage
- Procurement stage
- During-construction stage
- Post-contract stage

(Any 5 × 1) (5)

5.3
5.3.1 A
5.3.2 B
5.3.3 E
5.3.4 C
5.3.5 D

(5 × 1) (5)

5.4
- Prescriptive specifications
- Performance specifications
- Proprietary specifications

(Any 2 × 1) (2)

[20]

QUESTION 6

- Advancements in technology
- Changes in government regulations
- Changes in project conditions
- Unforeseen site conditions
- Unavailability of specified materials
- Continued design development after the contract has been awarded
- Changes in specifications by client
- Replacement of materials or procedures
- Ambiguous design details
- Weather conditions
- Unavailability of equipment
- Non-compliance of design with owner's requirements
- Inadequate working drawing details
- Errors and omissions in design (Any 5 × 1) (5)

QUESTION 7

Original tender price		R1 012 937,44✓
Less contingencies		R 10 500,00✓
Original contract amount		R1 002 437,44✓
SAVINGS on bill of quantities:		
Prime cost and provisional sums	R125 259,45	
Less	R120 450,00 = 4 809,45✓	
Earthworks	R101 241,33	
Less	R 96 678,89 = 4 562,44✓	
Site works	R132 435,96	
Less	R130 456,96 = 1 979,00✓	R 11 350,89✓
		R991 086,55✓
EXTRAS on bill of quantities:		
Plumbing and drainage	R111 507,92	
Less	R 89 692,99 = 21 814,93✓	
Variation orders	= 27 678,00✓	
Increased cost	= 95 785,45✓	R 145 278,38✓
New contract value		R1 136 364,93✓
Less previous payments		R1 006 345,00✓
Full and final payment due to contractor		R 130 019,93✓

[15]

TOTAL SECTION B: 40
GRAND TOTAL: 100

Copyright reserved