

SECTION A-A.

1 : 100

TYPE	A
QUANTITY	47
REFERENCE	W1 - W47
CARCASS OPENING	2,94m ²
FRAME	ALUMINIUM EPOXY COATED TO MATCH EX
TYPE OF GLASS	4MM TOUGHENED GLASS AS SHOWN
MAX PERMITTED PANE AREA	1,9m ²
PANE AREAS	(0,49 X 2) = 0,98m ² - FIXED PANES
TYPE OF GLASS	5MM TOUGHENED SAFETY GLASS AS SHOWN
MAX PERMITTED PANE AREA	1,9m ²
PANE AREAS	(0,49 X 4) =1,96m ² - HOP HUNG SASHES

WINDOW SCHEDULE

1 : 50

TYPE	B
QUANTITY	1
REFERENCE	D1
CARCASS OPENING	3,35m ²
FRAME	ALUMINIUM EPOXY COATED TO MATCH EX
TYPE OF GLASS	6MM TOUGHENED SAFETY GLASS AS SHOWN
MAX PERMITTED PANE AREA	4,5m ²
PANE AREAS	(1,64 X 2) = 3,27m ²
TYPE OF GLASS	
MAX PERMITTED PANE AREA	
PANE AREAS	

DOOR SCHEDULE

1 : 50

KEYNOTE LEGEND	
1.	EXISTING MARSEILLE ROOF TILES TO BE REMOVED AND RE-USED
2.	NEW CEMENTIOUS MOULDED OR RESIN MOULDED CROWN MOULDING
3.	NEW 345MM WIDE X 640MM DEEP RC EAVES BEAM
4.	REUSED MARSEILLE ROOF TILES ON SABS TRUSSES AT 35 DEGREE PITCH
5.	NEW PRECAST CONCRETE ECHO SLAB TO ENGINEERS DETAIL
6.	REMOVE EX-CROWN MOULDING AND PAINT EX. BEAM WHITE
16.	NEW ALUMINIUM WINDOWS TO MATCH STYLE OF EX BELOW
18.	NEW 220 X 450MM RC INTERNAL COLUMNS
19.	NEW PC COPING BAND AS HORIZONTAL BREAK ELEMENT BETWEEN EXISTING AND NEW
27.	140 X 70mm CRS PURLINS EPOXY COATED WHITE AT APPROX 1500mm CENTRES
28.	WHITE EPOXY COATED PROFILE ALUMINIUM ROOF SHEETING
29.	150 X 110mm WHITE EPOXY COATED ALUMINIUM GUTTER FASCIA
30.	70 X 70mm SHS POSTS AT 3325mm CENTRES EPOXY COATED WHITE
31.	DIAMETER 76mm PVC RWDP

Climate Zone	5	Location	Durban	Sub-Tropical Coastal
Constants		Conductance Cu	1.4	878.696
		SHGC - C _{SHGC}	0.11	15.5683
NETT SECOND FLOOR AREA			627.64	
Total Glazed Area			141.53	23%

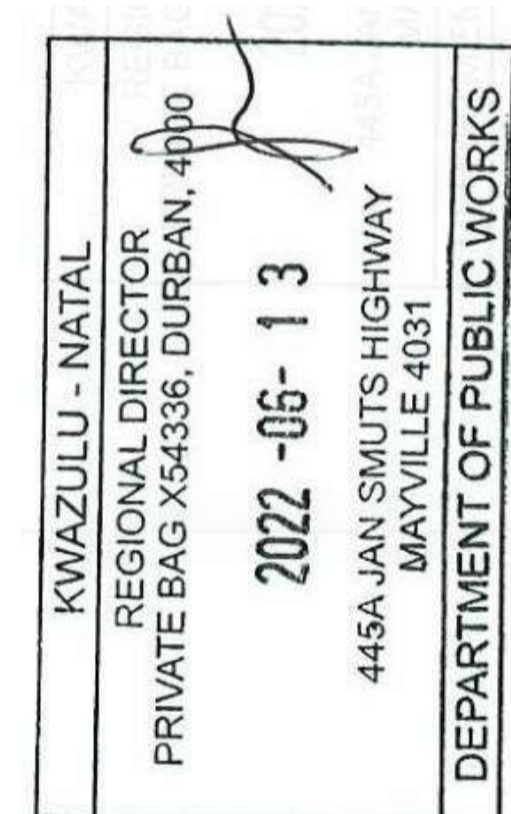
SANS 10400 PART XA Calculations & SANS 204

Window/Door	Total	Glazed Area (m ²)	Total Glazed Area (m ²)	Glazing Type	Total U-value W/M ² k	Conductance Cu	SHGC - C _{SHGC} Table 6 (SANS 204)	Where G ≥ 0.5m = P/2		Table C.5 SANS 204		Orientation	SHGC Total
								G (m)	P/H	E			
WA (W1-W15)	15	2.94	44.1	Single- Low E	5.73	252.693	0.81	0	0.378	0.45	North East	16.07445	
WA (W16-W18)	3	2.94	8.82	Single- Low E	5.73	50.5386	0.77	0	0.184	0.59	North East	4.006926	
WA (W19-W21)	3	2.94	8.82	Single- Low E	5.73	50.5386	0.81	0	0.378	0.45	North East	3.21489	
WA (W22-W26)	5	2.94	14.7	Single- Clear	7.9	116.13	0.81	0	0.378	0.69	South East	8.21583	
WA (W27-W29)	3	2.94	8.82	Single- Low E	5.73	50.5386	0.81	0	0.378	0.75	South West	5.35815	
WA (W30-W47)	18	2.94	52.92	Single- Low E	5.73	303.2316	0.81	0	0.378	0.75	South West	32.1489	
D1	1	3.35	3.35	Single- Clear	7.9	26.465	0.81	0	0.296	0.64	North West	1.73664	
			141.53										
					Proposed	850.1354						Proposed	70.755786
					Allowable	878.696						Allowable	15.5683
					Difference	-28.5606						Difference	55.187486

THE PROPOSED CONDUCTANCE (Cu) A IS LESS THAN THE ALLOWABLE AND THE SOLAR HEAT GAIN (CSHGC) IS NOT, THEREFORE THIS APPLICATION DOES NOT COMPLY WITH SANS 10400 -XA AND SANS 204.

SANS 10-400 XA TABLE OF COMPLIANCE

1 : 50



FOR OWNER : DURBAN HIGH SCHOOL

TEL NO : 031 277 1500.

SIGNATURE: MR A. PINHEIRO, HEADMASTER



SIGNATURE: R. JEEWANLALL - ST0117

PROJECT
NEW CAMBRIDGE FLOOR TO EXISTING BUILDING, STORE ROOM AND AWNING AT DURBAN HIGH SCHOOL AT 255 ST. THOMAS ROAD, BEREA, DURBAN ON ERF 2493 & 2494 DURBAN

DRAWING: SECTION A-A, SCHEDULES

SCALE	DRAWN	CHECKED	DATE
As indicated	U,R	R,J	14/02/22

PROJECT NO.	DRAWING NO.	REVISION
11-21	1.102	