



FIRE PROTECTION LEGEND

SYMBOL	FITTING	DESCRIPTION
	PORTABLE FIRE EXTINGUISHER	4,5KG DCP UNLESS OTHERWISE INDICATED
	AREA DESCRIPTION	XN OCCUPANCY TYPE XXX SQM AREA NO. NUMBER OF OCCUPANT
	EMERGENCY LIGHTS	WALL MOUNTED LIGHTS
	CEILING HANGING, PHOTOLUMINESCENT (STRAIGHT)	
	CEILING HANGING, PHOTOLUMINESCENT (RIGHT) = DOUBLE SIDE	
	CEILING HANGING, PHOTOLUMINESCENT (LEFT) = DOUBLE SIDE	
	WALL MOUNTED, PHOTOLUMINESCENT	
	WALL MOUNTED ABOVE DOOR, PHOTOLUMINESCENT	
	FIRE EVACUATION DIRECTION ARROWS	
	ASSEMBLY POINT AREA	

NOTE/NOTA :
NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.
GEEN AFMETINGS MAG VAN TEKENING GESKAAL WORD NIE. ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

A BEFORE CONTRACT COMMENCES. VOOR KONTRAK IN AANVAAG NEM.
A1 AFTER CONTRACT HAS COMMENCED. NA KONTRAK IN AANVAAG GENEEM HET.

NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS

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PROJECT/PROJEK
**KIMBERLEY:
UNION MASONIC TEMPLE,
4 FREE STATE ROAD, BEACONSFIELD**

MVD Kalahari

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CLIENT/KLIENT
SAHRA

DRAWING DESCRIPTION/TEKENING BESKRYWING
FIRE PLAN

DRAWING NO./TEKENING NR. **6234/S/F/L/001** REV No. **--**

SCALE SKAAL AS SHOWN DATE DATUM JUNE 2020 PAPER SIZE PAPIER GROOTTE **A1**

DESIGN ONTWERP	J. du Plessis
DRAWN GETEKEN	P.D. Wessels
CHECKED NAGEGAAN	O.O. Mazzoncini
CLIENT KLIENT	Z. Allie

SITE PLAN SCALE 1:100

A. FIRE RESISTANCE OF WALLS - EXTERNAL AND INTERNAL:

- i. SANS 10400 PART T SECTION 4.2 DETERMINES THE MINIMUM FIRE RESISTANCE OF WALLS.
- ii. THE FIRE RESISTANCE OF STRUCTURE BEARING WALLS MUST BE IN ACCORDANCE WITH THE FIRE RESISTANCE OF TABLE 12 AND 13. FOR THE PROPOSED BUILDING THE STRUCTURE WALLS FIRE RESISTANCE IS 240 MINUTES; 4 HOURS. (SEE TABLE 12)

CONSTRUCTION AND MATERIALS	FIRE RESISTANCE min					
	1	2	3	4	5	6
	240	120	90	60	30	30
SOLID CONSTRUCTION CLAY MASONRY UNITS: UNPLASTERED	190	110	90	90	90	90
PLASTERED	150	90	90	90	90	90

iii. THE FIRE RESISTANCE OF THE NON-STRUCTURAL WALLS ARE MINIMUM 120 MINUTES; 2 HOURS. (SEE TABLE 13)

CONSTRUCTION AND MATERIALS	FIRE RESISTANCE min					
	1	2	3	4	5	6
	240	120	90	60	30	30
SOLID CONSTRUCTION CLAY MASONRY UNITS: UNPLASTERED	190	110	90	90	75	75
PLASTERED	150	90	90	75	75	75
SOLID CONCRETE UNITS: CLASS 1 AGGREGATES	150	90	75	75	75	75
SOLID CONSTRUCTION CLAY MASONRY UNITS: UNPLASTERED	215	150	90	75	75	75

iv. SANS 10400 PART T SECTION 4.6 DETERMINES THE FIRE RESISTANCE OF OCCUPANCY-SEPARATING ELEMENTS. TABLE 4 GIVES A COMPARISON OF THE STABILITY (IN MINUTES) OF THESE WALLS. SINCE THE ENTIRE BUILDING IS A A4 OCCUPANCY, AND THE SECTION'S REQUIREMENTS DOES NOT APPLY, IT MUST BE NOTED THAT ALL WALLS HAVE A MINIMUM FIRE RESISTANCE OF 120 MINUTES.

v. SANS 10400 PART T SECTION 4.9, TABLE 6 DETERMINES THE STABILITY OF STRUCTURAL ELEMENTS TO BE MINIMUM 30 MINUTES. IT MUST BE NOTED THAT THE STABILITY IS 120 MINUTES.

vi. SANS 10400 PART T SECTION 4.14 AND 4.15, TABLES 8 AND 9 DETERMINES THAT THE COMBUSTIBLE FLOOR COVERINGS MUST HAVE A CLASSIFICATION NOT INFERIOR (LESS) THAN THE FIRE RESISTANCE VALUES IN TABLE 8 AND 9. FOR THE ENTIRE BUILDING THE VALUE IS 4 AND FOR THE FEEDER ROUTES 3. ALL FLOOR COVERINGS ARE TILES THAT COMPLY WITH THE REQUIREMENTS OF SECTION 4.14, AND ALL WALL FINISHES WILL COMPLY WITH THE REQUIREMENTS OF TABLE 9.

vii. ALL WALL AND FLOOR FINISHES TO COMPLY WITH SANS 10040 T4.14, T5.15 AND T4.19.2.

viii. WIDTH OF ESCAPE ROUTE TO COMPLY WITH SANS 10040 T4.21.

FIRE SAFETY SPECIFICATION

1. SITE CONTAINS THE FOLLOING MAJOR ACCUPANCIES
 - 1.1. WORSHIP A4
 - 1.2. STORAGE J3
 - 1.3. MODERATE RISK COMMERCIAL SERVICE B2
2. ESCAPE ROUTES
BUILDING TO HAVE A MINIMUM OF 2 ESCAPE ROUTES
3. PORTABLE FIRE EXTINGUISHERS
DRY CHEMICAL POWDER EXTINGUISHERS TO PROVIDED AT 1x4.5 kg DCP 48m²
3x4.5 kg DCP -> EFFECTIVE RATE = 143m²
4. EMERGENCY LIGHTING
 - 4.1. SHALL BE INSTALLED AT ALL FIRE EXIT DOORS IN THE FORM OF WALL MOUNTED LIGHTS
 - 4.2. SHALL OPERATE IN THE CASE OF POWER FAILURE OR FIRE SIGNAL THE POWER SUPPLY SHALL BE SEPARATE TO THE MAIN POWER SUPPLY AND CAPABLE OF POWERING THE EMERGENCY LIGHTS FOR A MINIMUM OF 30 MIN

FREE STATE ROAD