

LIFT TYPE

CONSOL MRL

SCHEDULE OF BUILDERS WORK

THE INFORMATION SET OUT BELOW GIVES GENERAL DETAILS OF BUILDERS WORK, HOWEVER ALL WORKS MUST COMPLY WITH THE BRITISH STANDARDS, HEALTH & SAFETY & ALL OTHER RELEVANT REGULATIONS & BYE LAWS. THE LIFT CONTRACTORS DO NOT ACCEPT ANY RESPONSIBILITY FOR THE FAILURE OF THE BUILDING STRUCTURE TO WITHSTAND THE LOADS IMPOSED BY THE INSTALLATION OF & SUBSEQUENT OPERATION OF THE LIFT.

1. FORM & FINISH THE PIT TO THE DIMENSIONS STATED. IT IS IMPORTANT THAT THE PIT IS FULLY & PERMANENTLY WATER TIGHT & OIL RESISTANT. ACCESS LADDER IS RECOMMENDED.
2. ANY PIT WATERPROOFING REQUIRED SHOULD BE CARRIED OUT EXTERNALLY TO ALLOW FOR ANY POSSIBLE DRILL FRINGS DURING THE INSTALLATION - UP TO A DEPTH OF 200.
3. LIFT WELL AND MACHINE ROOM TO BE CONSTRUCTED FROM AN INCOMBUSTIBLE MATERIAL WHICH DOES NOT ASSIST THE CREATION AND CIRCULATION OF DUST.
4. CONSTRUCT SMOKE VENT AT THE HEAD OF THE LIFT WELL IN ACCORDANCE WITH LOCAL FIRE OFFICER REQUIREMENTS. IN THE ABSENCE OF SUCH REQUIREMENT, THE AREA OF THE VENT SHOULD BE AT LEAST 1% OF THE CROSS SECTIONAL AREA OF THE LIFT WELL.

5. BUILDER TO TEST LIFTING BEAM TO SML INDICATED AND MARK THE SML ON THE BEAM. A TEST CERTIFICATE SHOULD BE MADE AVAILABLE TO OUR INSTALLATION ENGINEERS UPON REQUEST.
6. LANDING ENTRANCES SHOULD BE CONSTRUCTED TO THE DIMENSIONS STATED, AND HAVE CONCRETE LINTE AT THE APPROPRIATE HEIGHT. THE ENTRANCE SHOULD BE LEFT OUT AND MADE GOOD AFTER THE INSTALLATION OF THE DOOR FRAMES.
7. ALL DIMENSIONS ARE TAKEN FROM FINISHED FLOOR LEVEL (FFL). BUILDER TO MARK EACH ENTRANCE WITH THE FFL PRIOR TO THE COMMENCEMENT OF THE INSTALLATION. BUILDER TO SUPPLY AND CORRECTLY POSITION UNSTRUCTURED INSERTS WHERE INDICATED.

8. ALL LANDING ENTRANCES SHOULD BE PROVIDED WITH EITHER LOCKABLE HINGERS, OR SAFETY BARRIERS COMPLETE WITH KICK BOARDS.
9. CONSTRUCT A DRY FREE AND WELL VENTILATED MACHINE ROOM FROM AN INCOMBUSTIBLE MATERIAL WHICH DOES NOT ASSIST THE CREATION AND CIRCULATION OF DUST. THE MACHINE ROOM FLOOR SHOULD BE TREATED AGAINST HYDRAULIC OIL SPILLAGES & HAVE AN ANTI SPILLAGE BARRIER 100 HIGH FITTED TO THE INSIDE OF THE ENTRANCE DOOR.
10. THE MACHINE ROOM TEMPERATURE MUST MAINTAINED AT +5 C AND +30 C. ADEQUATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSMISSION OF NOISE FROM THE MACHINE ROOM TO OTHER AREAS OF THE BUILDING.
11. IN ORDER TO AVOID DUST BUILD UP ALLOW CORRECT LIGHTING LUX LEVEL LIFT SHAFT WALLS SHOULD BE SUITABLY SEALED WITH A WHITE FINISHED SEALANT

12. MACHINE ROOM DOOR MUST OPEN OUTWARDS & BE FITTED WITH A LOCK WHICH WILL ALLOW THE DOOR TO BE OPENED FROM INSIDE WITHOUT THE NEED TO USE A KEY.
13. BUILDER TO PROVIDE SCOTCHOLING IN THE LIFT WELL AS INSTRUCTED. STAGES ARE REQUIRED AT 2000 INTERVALS. ALL STAGES SHOULD BE FULLY BOARDED.
14. PROVIDE ADEQUATE SAFE ACCESS TO THE LIFT WELL AND MACHINE ROOM FOR MATERIALS UP TO 5000 IN LENGTH.
15. THE LIFT SHAFT SHALL BE PROVIDED WITH PERMANENT SHAFT LIGHTING DURING THE INTENSITY OF ILLUMINATION OF AT LEAST 50 LUX 1 METER ABOVE CAR ROOF AND PIT FLOOR, EVEN WHEN THE LANDING DOORS ARE CLOSED. THE TERMINAL LIGHTING UNITS AT SHAFT CEILING AND PIT LEVEL SHOULD NOT EXCEED 500 MM.

**ELECTRICAL REQUIREMENTS**  
 CARRY OUT ELECTRICAL WORKS AS DETAILED. IMPORTANT - THE MAINS SUPPLY MUST BE LIVE ON COMMENCEMENT OF THE INSTALLATION.  
 A "PUSH" AND "SWITCH" TO BE FITTED WITH MOTOR WAZED FUSES. PROVIDE 3 SPARE FUSES FOR USE DURING TEST. A SEPARATE SINGLE PHASE SUPPLY IS REQUIRED TO SERVICE LIGHTING AND HEATING REQUIREMENTS. A 4 MW CONSUMER UNIT IS RECOMMENDED.  
 A TEMPORARY 110V AC SUPPLY IS REQUIRED FOR POWER TOOLS, ETC. EXCEEDING THE HEIGHT OF THE WELL & IN THE MACHINE ROOM. ADEQUATE TEMPORARY LIGHTING IS REQUIRED IN THE LIFT WELL AND MACHINE ROOM TO LIFT ERECTING REQUIREMENTS. A TELEPHONE LINE MUST BE PERMANENTLY AVAILABLE IN THE MACHINE ROOM AT POSITION TO BE AGREED WITH LIFT ENGINEER.  
 IT IS THE RESPONSIBILITY OF THE BUILDER TO PREVENT THE RISKS OF FIRE, MOISTURE, DUST AND OTHER SUBSTANCE FROM CONTAMINATING THE LIFT EQUIPMENT DURING & ON COMPLETION OF THE INSTALLATION AND TO PROTECT THE LIFT EQUIPMENT AGAINST DAMAGE AND DEGRADATION DUE TO ANY OTHER CAUSE. WHILST ALL THE DIMENSION STATED ON THIS DRAWING ARE IMPORTANT WE WOULD WELCOME PARTICULAR REFERENCE TO THE FOLLOWING:  
 (I) TOTAL LIFT TRAVEL  
 (II) HEADROOM  
 (III) PIT DEPTH  
 (IV) MINIMUM PLUMB WELL  
 GAS WATER ELECTRICITY TELEPHONE AND OTHER SERVICES SHOULD NOT BE RUN IN THE LIFT WELL OR MACHINE ROOM.  
 THE MACHINE ROOM SHALL BE PROVIDED WITH PERMANENTLY INSTALLED THE BASIS OF AT LEAST 200 LUX ALL FLOOR LEVEL. THE NATURAL OR ARTIFICIAL LIGHTING OF THE LANDING IN THE VICINITY OF LANDING DOORS SHALL BE AT LEAST 50 LUX AT FLOOR LEVEL.  
 THE WALL SHALL BE PROVIDED WITH PERMANENTLY INSTALLED ELECTRIC LIGHTING GIVING AN INTENSITY OF ILLUMINATION OF AT LEAST 50 LUX 1 METER ABOVE THE CAR ROOF AND PIT FLOOR, EVEN WHEN ALL DOORS ARE CLOSED.

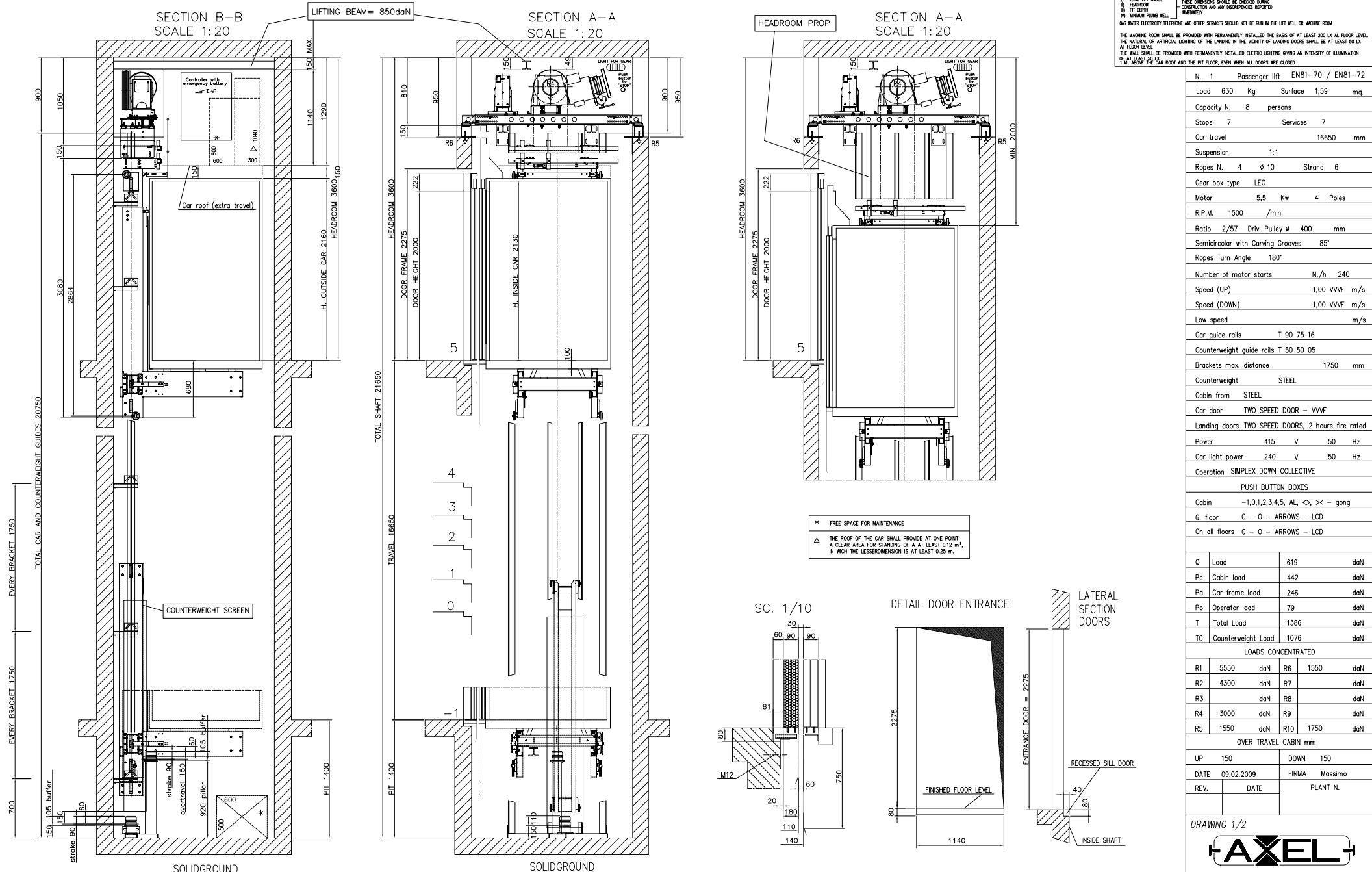
SECTION B-B SCALE 1:20

LIFTING BEAM = 850daN

SECTION A-A SCALE 1:20

HEADROOM PROP

SECTION A-A SCALE 1:20



\* FREE SPACE FOR MAINTENANCE  
 Δ THE ROOF OF THE CAR SHALL PROVIDE AT ONE POINT A CLEAR AREA FOR STANDING OF 4 AT LEAST 0.12 m<sup>2</sup>, IN WHICH THE LESSER DIMENSION IS AT LEAST 0.25 m.

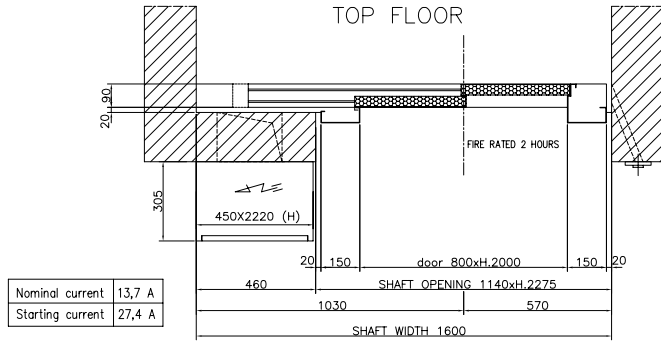
N	1	Passenger lift	EN81-70 / EN81-72
Load	630 Kg	Surface	1,59 m <sup>2</sup>
Capacity	N	8 persons	
Stops	7	Services	7
Car travel			16650 mm
Suspension			1:1
Ropes	N	4 φ 10	Strand 6
Gear box type			LEO
Motor		5,5 Kw	4 Poles
R.P.M.	1500	/min.	
Ratio	2/57	Driv. Pulley φ	400 mm
Semicircular with Carving Grooves			85°
Ropes Turn Angle			180°
Number of motor starts		N/h	240
Speed (UP)			1,00 VVVF m/s
Speed (DOWN)			1,00 VVVF m/s
Low speed			m/s
Car guide rails		T 90	75 16
Counterweight guide rails		T 50	50 05
Brackets max. distance			1750 mm
Counterweight			STEEL
Cabin from			STEEL
Car door			TWO SPEED DOOR - VVVF
Landing doors			TWO SPEED DOORS, 2 hours fire rated
Power		415 V	50 Hz
Car light power		240 V	50 Hz
Operation			SIMPLEX DOWN COLLECTIVE
PUSH BUTTON BOXES			
Cabin		-1,0,1,2,3,4,5, AL, <, >, <-> - gong	
G. floor		C - 0 - ARROWS - LCD	
On all floors		C - 0 - ARROWS - LCD	

Q	Load	619	daN		
Pc	Cabin load	442	daN		
Pa	Car frame load	246	daN		
Po	Operator load	79	daN		
T	Total Load	1386	daN		
TC	Counterweight Load	1076	daN		
LOADS CONCENTRATED					
R1	5550	daN	R6	1550	daN
R2	4300	daN	R7		daN
R3		daN	R8		daN
R4	3000	daN	R9		daN
R5	1550	daN	R10	1750	daN

OVER TRAVEL CABIN mm	
UP	150
DOWN	150

DATE	09.02.2009	FIRMA	Massimo
REV.		DATE	
		PLANT N.	

NOTE:  
\* A TELEPHONE LINE MUST BE PERMANENTLY AVAILABLE IN THE CONTROL BOARD AT A POSITION TO BE AGREED WITH LIFT ENGINEER.



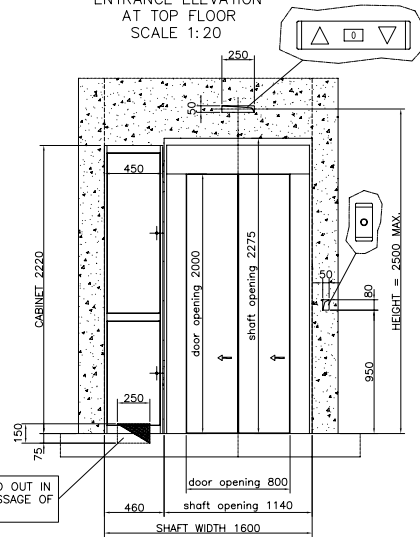
Nominal current	13,7 A
Starting current	27,4 A

\* FREE SPACE FOR MAINTENANCE

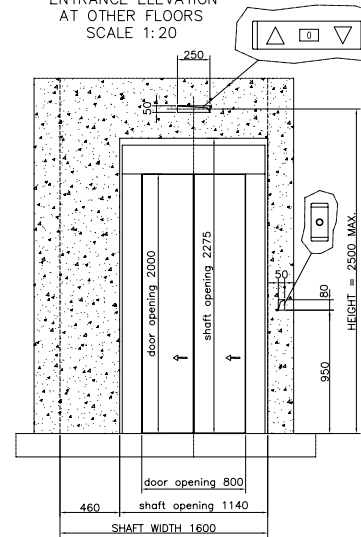
△ THE ROOF OF THE CAR SHALL PROVIDE AT ONE POINT A CLEAR AREA FOR STANDING OF A AT LEAST 0.12 m<sup>2</sup>, IN WHICH THE LESSER DIMENSION IS AT LEAST 0.25 m.

CUT-OUT TO BE CARRIED OUT IN THE WALL TO ALLOW PASSAGE OF CONTROLLER WIRES

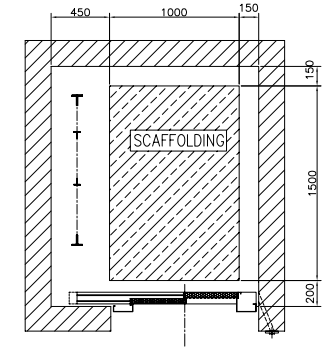
ENTRANCE ELEVATION AT TOP FLOOR SCALE 1:20



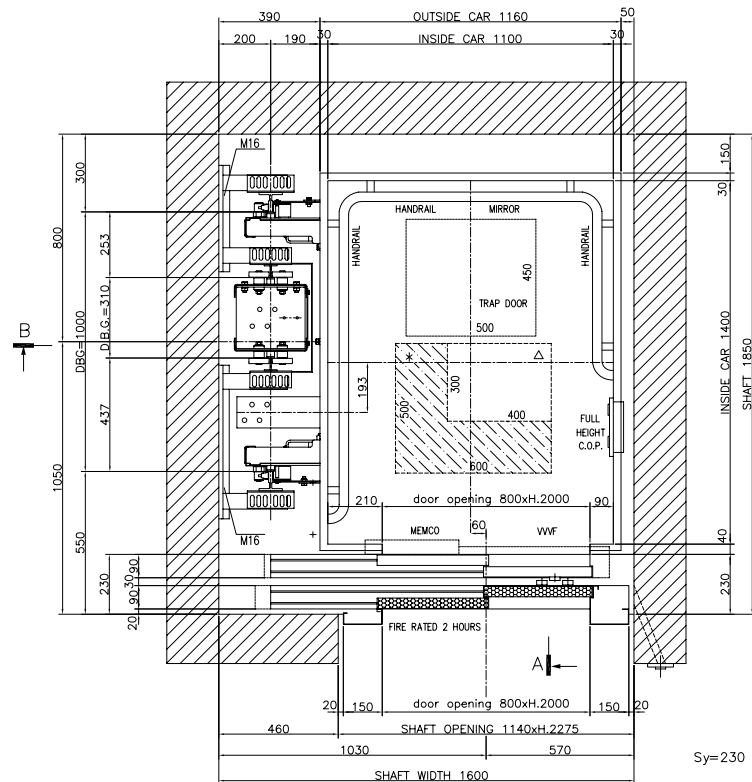
ENTRANCE ELEVATION AT OTHER FLOORS SCALE 1:20



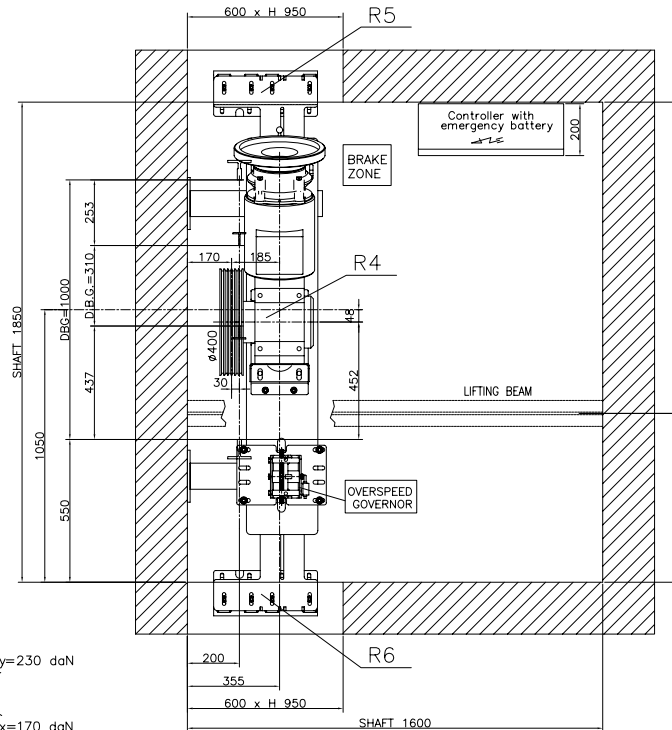
SCAFFOLDING DETAIL SCALE 1:20



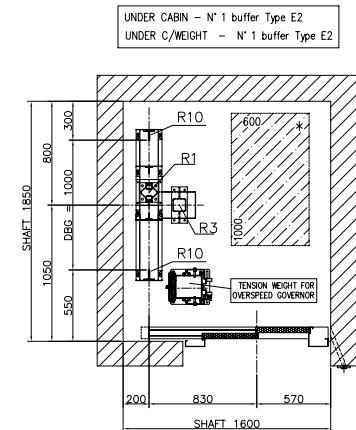
PLAN VIEW - SC. 1/10 A1



HEADROOM SECTION - SC. 1/10



PIT SECTION - SC. 1/20



DATE	09.02.2009	FIRMA	Massimo
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		PLANT N.	

DRAWING 2/2

Typical CONSOL lift 8 persons