GENERAL

G1. The drawings are to be read in conjunction with the 'site specific' elevator drawings together with all architect's drawings and specifications.

G2. Dimensions shall not be obtained by scaling from the drawings. All setting out dimensions shall be verified and discrepancies shall be referred to the Engineer prior to commencement of work.

G3. Care is required during construction so that structural elements are not over stressed and that the works and excavations required therefore are kept stable at all times.

G4. Design, materials and workmanship are to be in accordance with current S.A.A standards and statutory authority regulations except where varied by these documents.

G5. Design live loads are in accordance with AS 1170.1

G6. Builder to ensure stability of existing structures in the vicinity of excavation works.

G7. The dimensions are referred to a perfectly plumb wall.

G8. All steel work to be plumb in X and Y axis as this will affect the placement of the lift car and doors in the lift shaft. Refer pg 17 in 'XL' book.

G9. Access to rail bracket mounting nuts at the back of all 'B1' braces is required.

NOTE:

'Site specific' elevator drawings are drawings that include the correct customer & site installation details in the drawining header box & are issued when the lift is placed into production with no changes.

STEEL

S1. All Structural steelwork to be Grade 300 or greater. Design, fabrication and erection to be in accordance with AS 4100.

S2. Materials and workmanship shall comply with AS 1250 - 1981, SAA Steel Structures Code and the specification for Structural Steel.

S3. Rolled steel sections including steel plates shall comply with AS 3678 - 1990.

S4. Cold formed steel sections shall be Grade 450 Zinc coated in accordance with AS 1538-1988.

S5. Welded and seamless steel hollow sections shall comply with AS 1163. Grade 350.

S6. Bolt Designation:
4.6S - Commercial bolts Grade 4.6, snug tightened.
8.8S - High Strength structural bolts Grade 8.8, snug tightened.
8.8TB - High Strength structural bolts Grade 8.8, fully tightened to AS 1511 and acting as a Bearing Joint.
8.8TF - High Strength structural bolts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.
Unless noted otherwise, all bolts will be 8.8S.

S7. Unless shown otherwise, minimum connection shall be 2M16 bolts, 10 thick gusset plates, 6mm continuous fillet welds.

S8. Load indicating washers shall be used in all fully tensioned joints. (8.8TF & 8.8TB).

S9. All welding shall be carried out in accordance with AS 1554 SAA Structural Steel Welding Code.

S10. Unless noted otherwise all welds shall be category SP using E41xx Electrodes. All butt welds shall be complete penetration butt welds category SP.

S11. Grouting of anchor bolt sleeves and base plates shall be completed by the contractor using High Strength, Non-Shrink grout.

S12. Fabrication and erection tolerances for Structural Steelwork shall be in accordance with AS 4100.

S13. Purlin bolts shall be M12 - 4.6S galvanised.

S14. Steel work shall have one of the following grades of corrosion protection:-

INTERNAL

a. Thoroughly cleaned wire brushing, followed by two coats of zinc phosphate primer equivalent to Dulux Luxaprime applied by hand using brushes to achieve a total dry film thickness of 70 microns.

EXTERNAL ELEMENTS, & ELEMENTS WITHIN EITHER SKIN OF EXTERNAL CAVITY WALLS

b. Preparation Blast clean to a minimum standard Class 2.5 in accordance with AS 1627 Part 4.
Primer 2-pack epoxy phosphate at dft 75 microns (Dulux Durepon P14).
Barrier Coat 2-pack epoxy micaeous iron oxide, dft 100 microns
Finish Coat 2-pack epoxy high gloss acrylic to dft 75 microns (e.g. Dulux Acrathane 1 F) in an approved colour.

c. Hot dipped galvanized to AS 4680.
Where the galvanic (Hot Dip Galvanized) coating is compromised by welding, bolting or damage, inorganic zinc-rich paint (minimum 95% zinc content) is to be applied after wire brushing affected area (use 3 coats minimum). or Hot Metal Spray in accordance with AS 4680.

S15. Workshop drawings shall be prepared and two copies submitted to the engineer for review prior to fabrication commencement.

Date:	Rev:	Amendment:
-	-	-

A3

DOCUMENT CERTIFICATION

Date :

Rick G. Wray .....
(Director Northern Beaches Consulting Engineers)

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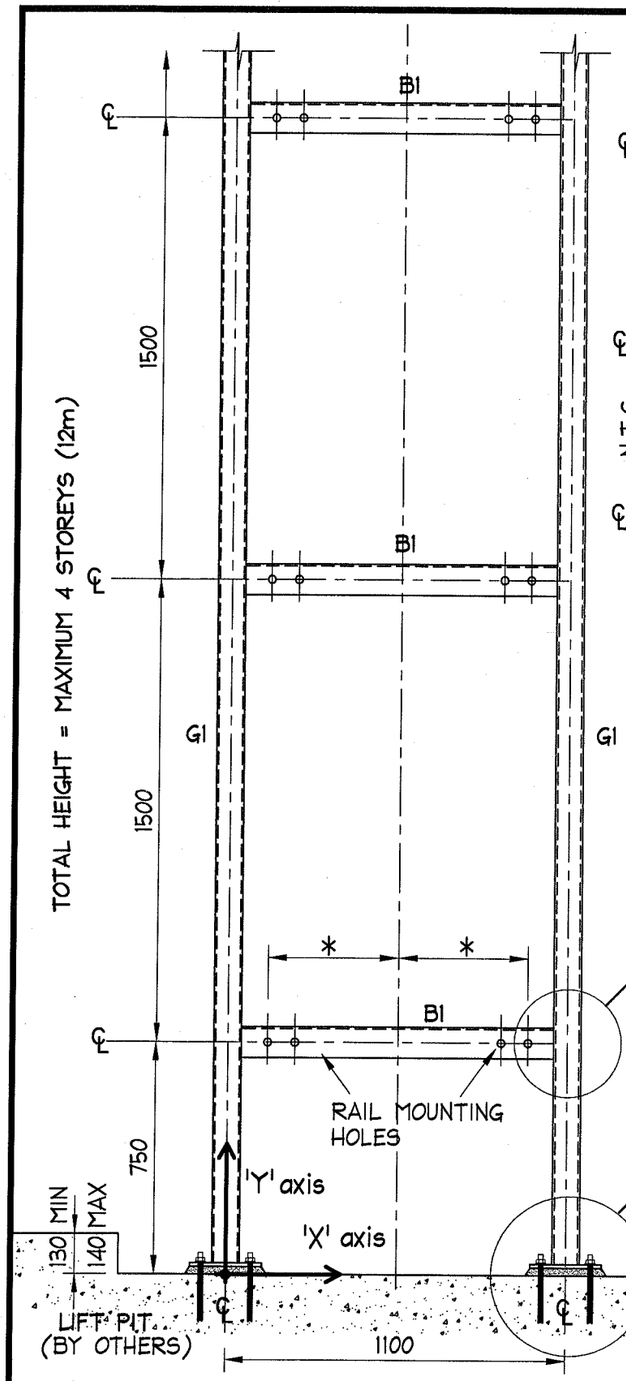
Project:
DOMUSLIFT XL
STEEL LIFT FRAME
for: EASY LIVING HOME ELEVATORS

Drawing Title:
GENERAL NOTES
Sheet 1 of 4

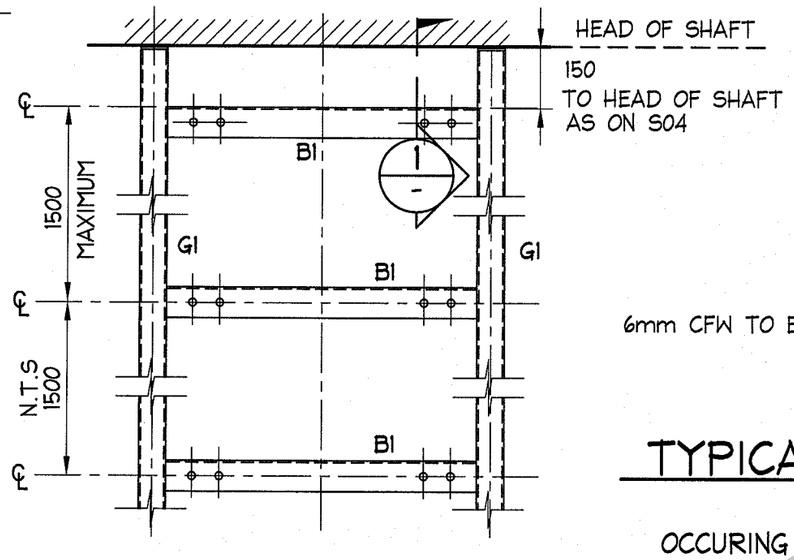
Date:	Design:	Drawn:	Checked:
FEB 07	Damian Ienco	MC	

Job No:	Drawing No:	Rev:
060942	S01	-



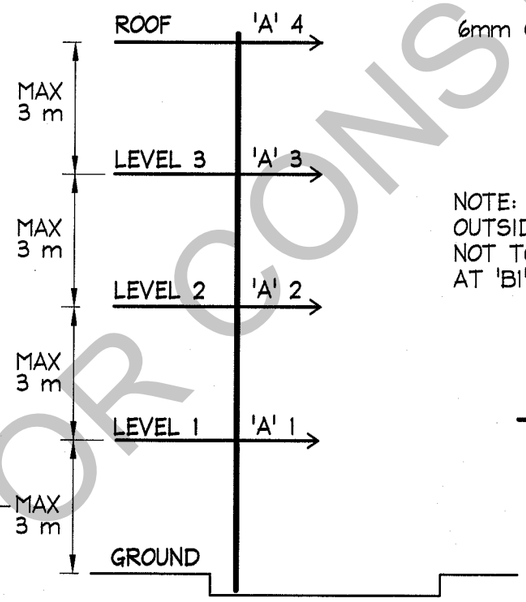
STEEL LIFT FRAME ELEVATION

SCALE = 1 : 20



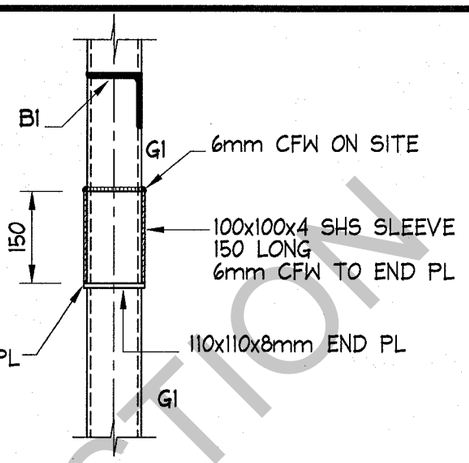
LIFT SHAFT ROOF DETAIL

SCALE = 1 : 20



LIFT FRAME SIDE ELEVATION

N.T.S



TYPICAL GUIDE JOINT DETAIL

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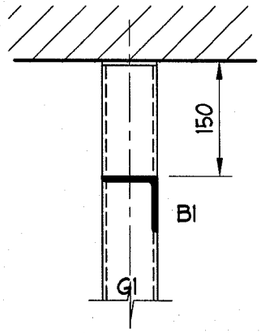
OCCURING EVERY 3m OR AT FLOOR LEVELS



SECTION 1 / -

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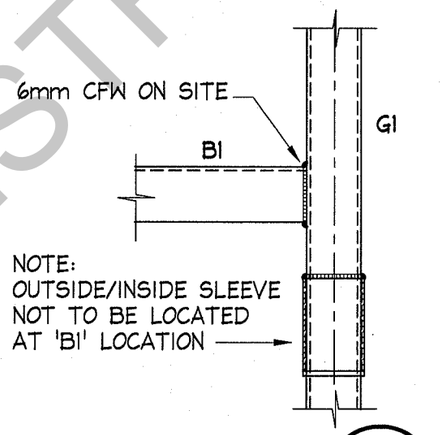

DETAIL A / -

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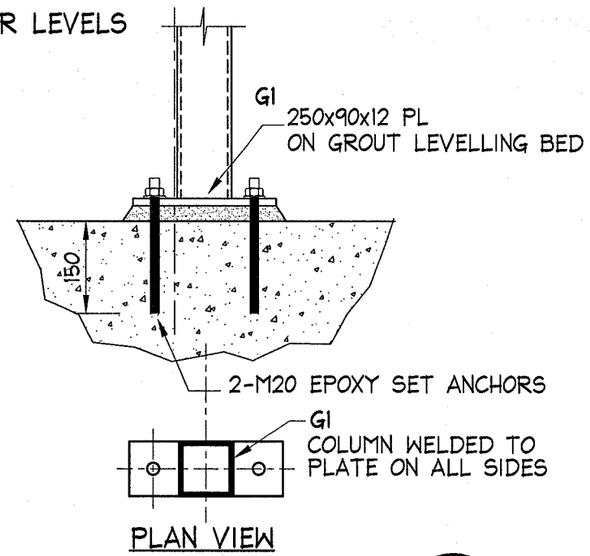

DETAIL B / -

SCALE = 1:10

EACH GUIDE IS TO BE LATERALLY RESTRAINED AT EACH FLOOR LEVEL AND AT ROOF. RESTRAINT DETAILS TO BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.

LEVEL	LATERAL RESTRAINT LOAD 'A' (kN) ON EACH GUIDE
1	5.0
2	5.0
3	5.0
ROOF	2.5

MEMBER SCHEDULE:

G1 - 89x89x6 SHS - GUIDE
B1 - 90x90x8 EA - BRACE

REFER SITE SPECIFIC CALCULATIONS FOR LOADS ON LIFT PIT

A3

-	-	-
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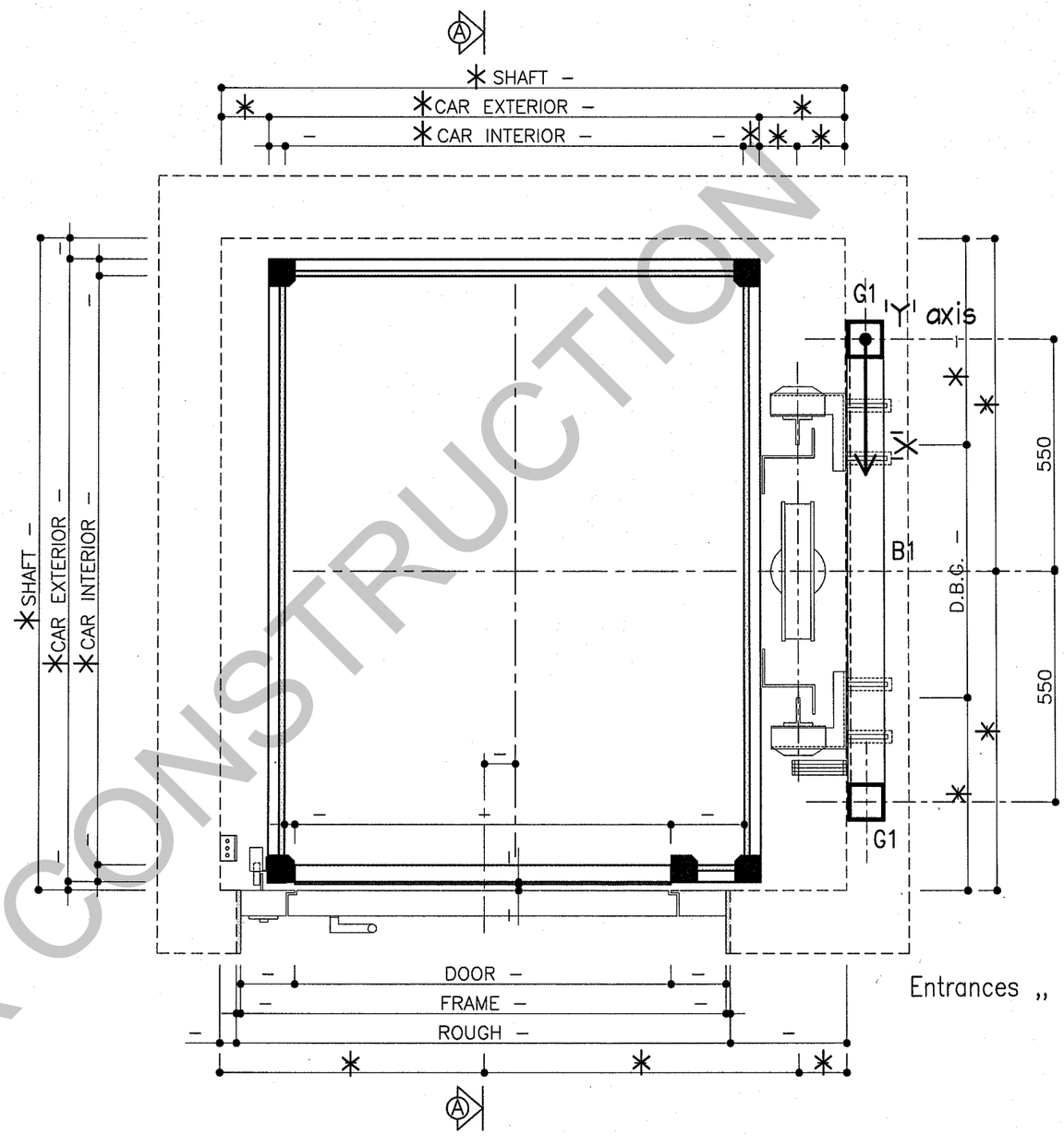
Project:
DOMUSLIFT XL
STEEL LIFT FRAME
for: EASY LIVING HOME ELEVATORS

Drawing Title:
ELEVATION & DETAILS
Sheet 2 of 4

Date:	Design:	Drawn:	Checked:
FEB 07	Damian Ienco	MC	
Job No:		Drawing No:	Rev:
060942		S02	-



MACHINERY CABINET
950 x 450 x 1850

MAX. DISTANCE BETWEEN POWER UNIT AND SHAFT: 0 mm

POWER UNIT HEIGHT OVER PIT: 0 mm

* REFER TO SITE SPECIFIC ELEVATOR DRAWINGS

G1 – 89x89x6 SHS – GUIDE

B1 – 90x90x8 EA – BRACE

IGV SpA WILL NOT TAKE ANY RESPONSIBILITY IF IT WILL BE PRODUCED EVERY TYPE OF CHANGE NOT AUTHORIZED BY IGV ITSELF.

DOMUSLIFT® XL

Complying with Machine Directive (98/37/EC)

I.G.V. spa

Customer –

User .

Installation site . –

Revision	Prepared by	Checked by	date	Customer ref.	Drawing number
	–		–	–	.

A3

–	–	–	
Date:	Rev:	Amendment:	

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Project:

DOMUSLIFT XL
STEEL LIFT FRAME

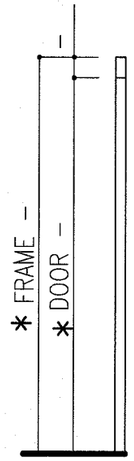
for: EASY LIVING HOME ELEVATORS

Drawing Title:

SHAFT & CAR PLAN
Sheet 3 of 4

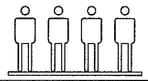
Date:	Design:	Drawn:	Checked:
FEB 07	Damian Ienco	MC	

Job No:	Drawing No:	Rev:
060942	S03	-



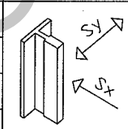
DOOR DETAIL

FLOORS / distances

TYPE	DL.XL–1C	
PASSENGERS		
DUTY LOAD	340	kg
SPEED max.	0.15	m/s
STOPS	–	
ENTRANCES	–	
CAR SLING	DOMUS–XL 2:1	
CAR GUIDE RAILS	70x70x8	
GUIDES LENGTH	–	mm
ROPES	4 ø 8	mm
ROPES LENGTH	20	m
PULLEYS	2 ø 320	mm
1 PIECE JACK	80 x 7.5 x 6700	mm
PUMP–UNIT	25	l/min
MOTOR POWER	2.5	kW
PRESSURE max	31.77	bar
POWER SUPPLY / 1–phase	230	V

order to adjust the ropes length, with car leaning on the pit, leave the jack outside of the cylinder: 141 mm

NOTES	FULLY LOADED CAR 720 daN
THE DIMENSIONS ARE REFERRED TO PERFECTLY PLUMB FINISHED WALL	LOADS IN THE PIT (under the guides) 2700 daN
IN ORDER TO INSTALL THE PLATFORM CORRECTLY, REFER TO INSTRUCTION MANUALS TOGETHER THIS LAYOUT DRAWING	FORCES ON THE GUIDES
	FORCES FOR THE CALCULATION OF THE SHAFT WALL
	Sx 80 daN Sy 260 daN



FOR APPROVAL

DATE

SIGN

DOMUSLIFT® XL

Complying with Machine Directive (98/37/EC)

I.G.V. spa

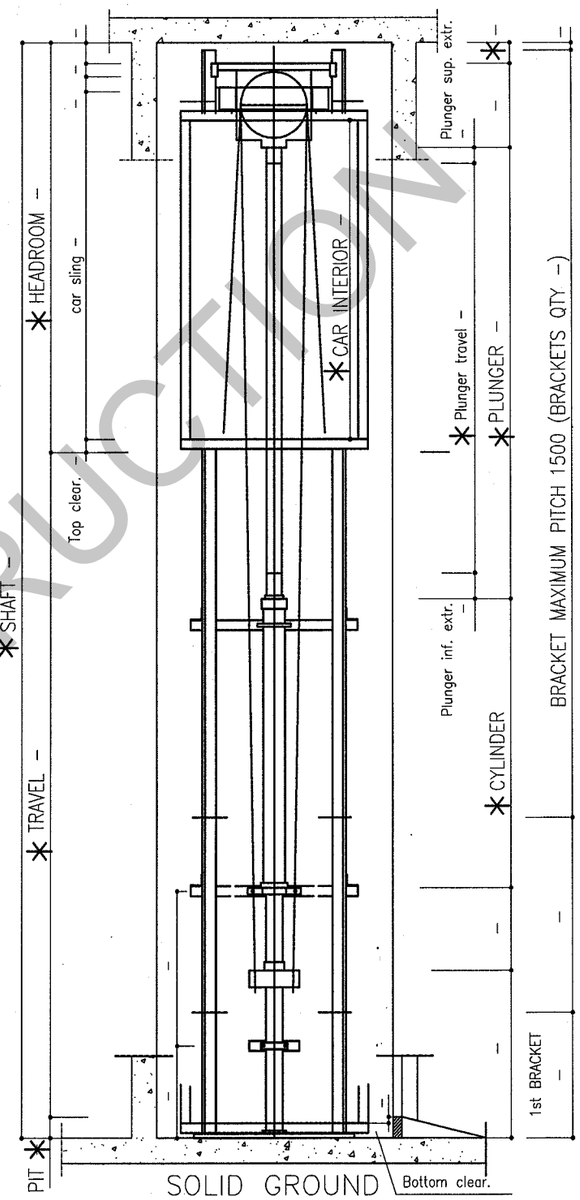
Customer –

User .

Installation address . –

Revision	Prepared by	Checked by	date	Customer ref.	Drawing number
.	–		–	–	.

A3



SECTION A – A

✳ REFER TO SITE SPECIFIC ELEVATOR DRAWINGS

–	–	–	
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Drawing Title:

SECTIONS & DETAILS
Sheet 4 of 4

Date:	Design:	Drawn:	Checked:
FEB 07	Damian Ienco	MC	

Job No:	Drawing No:	Rev:
060942	S04	–