

1 CHECK SITE CONDITIONS:

Ensure this Criteria is met:

PERMITTED

- Plant laden up to 30T (10kN/m²) is permitted at the sides & end of the trench. (Recommended 1.00m exclusion zone)
- Active principal highways (A Road), residential roads or closed roads.
- Medium boundary wall less than 1.00m high and more than 1.20m away from the edge of the excavation.
- Overall excavation depth (including any local ground reduction) does not exceed **1.00m**.
- Length & width of excavation do not exceed maximum dimensions of chosen brace.
- Planned excavation does not exceed the length of 12 weeks.

NOT PERMITTED

- Active **railways** within **1.50m** of the edge of the excavation.
- Active **motorways / trunk roads** within **1.50m** of the edge of the excavation.
- Watercourses** (canals, rivers, streams) within the vicinity excavation.
- Buildings or structures** within **1.50m** of the edge of the excavation.

2 CHECK GROUND CONDITIONS:

Ensure the following Criteria is met:

PERMITTED

Made GROUND	M.Dense GRAVEL
Loose SAND	Dense GRAVEL
M.Dense SAND	Soft CLAY
Dense SAND	Firm CLAY
Loose GRAVEL	Stiff CLAY

NOT PERMITTED

V.Loose SAND	V.Stiff CLAY
V.Dense SAND	MUDSTONE
ROCK	PEAT
V.Loose GRAVEL	SILT
V.Dense GRAVEL	CHALK
V.Soft CLAY	

Ground Water Not Permitted

3 FRAME SELECTION:

Select a set of manhole brace legs which satisfy the dimensions of your excavation.
Frames should be supported using a minimum of 2No Standard duty Hanging chins per leg

Type A:



Internal Dimensions (Min.)	Internal Dimensions (Max.)	External Dimensions (Min.)	External Dimensions (Max.)	SWL
1.615m	2.715m	1.975m	3.075m	65 kN/m



Type B:



Internal Dimensions (Min.)	Internal Dimensions (Max.)	External Dimensions (Min.)	External Dimensions (Max.)	SWL
2.615m	3.715m	2.975m	4.075m	41 kN/m



Type C:



Internal Dimensions (Min.)	Internal Dimensions (Max.)	External Dimensions (Min.)	External Dimensions (Max.)	SWL
3.615m	4.715m	3.975m	5.075m	25 kN/m



Indicates the weight of an individual manhole brace leg.
4No. manhole braces are required to make full frame.

A Competent person (Suitably Qualified & Experienced Person) must assess the ground / site conditions prior to commencement. If the above criteria is not met, this solutions is invalid. In this case; the Temporary works designers - SJG Temporary works Ltd - must be consulted for a site specific design.



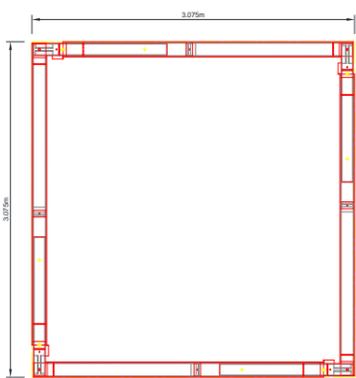
Residual Risks

- A. Unplanned Excavation (Over-dig)**
The Client must ensure that excavation is controlled so that excavation levels are not exceeded.
- B. Services:**
Care should be taken to prevent damage to existing services. Exposed services should be suitably supported.
- C. Surcharging of Material**
The client must ensure the design surcharge of 10 kN/m² is not exceed. The Client is to avoid surcharging the excavation with spoil or other plant/materials.
- D. Edge Protection**
It is the clients responsibility to provide adequate edge protection
- E. Access / Egress**
The Client is responsible for providing a safe method of access / egress from the excavation.
- F. Assembly & Dismantling of Manhole Brace Frames**
It is the responsibility of the Client to produce a method statement for the safe assembly and dismantling of the manhole brace frames.

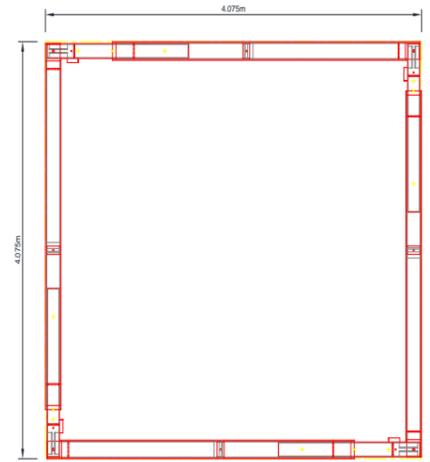
NOTES:

1. Drawing to be read in conjunction with SJG site specific calculations.
2. Prior to construction, the client is responsible for ensuring design complies with their requirements stated in the design brief.
3. All levels in metres unless noted otherwise.
4. All dimensions in millimetres unless noted otherwise.
5. Any ground works to be completed by others.
6. No alterations to the design are to be made without written confirmation from SJG TW Ltd.
7. This drawing is confidential and exclusive property of the client. No unauthorised use, copy or disclosure is to be made and is to be returned on request.
8. All connections to be as per manufacturer's instructions and to be installed by others.
9. All works to be carried out in accordance with an approved safe system of work (ssow) and risk assessment method statement (rams).
10. Any 'permits to load' and 'permits to strike' to be issued by a competent person before loading or striking.
11. SJG TW Ltd are not responsible for any localised cracking to the permanent works due to loading or any workmanship/ quality issues.
12. SJG TW Ltd are not responsible for any remedial works that may be required.
13. The client is responsible for implementing suitable monitoring and maintenance schemes throughout the duration that the temporary works are in use.
14. The client is responsible for preparing suitable ground conditions prior to erection.

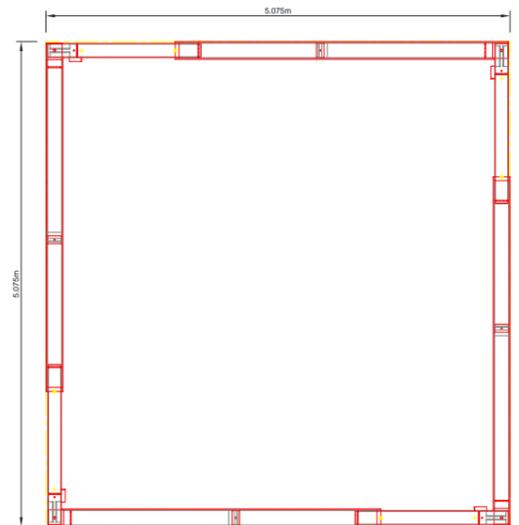
Max Type A Brace Dimensions:



Max Type B Brace Dimensions:



Max Type C Brace Dimensions:



Scan to view the Double Acting Manhole Brace User Guide

Rev	Des	Chk	App	Date	Description
0				28/06/18	

Client
PRO SHORE

SJG Temporary Works Ltd
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www.BSS975.com

SJG DESIGN LTD

Project
Standard Detail

Job Title

Generic Excavation Designs
- 4.0m Deep

Designer: SJG	Date: 28/06/2018
Checker:	Date:
Approved:	Date:
Dwg Number: PRO/STD/DES/004-01	Rev: 0

Drawing Scale: Not to Scale