E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Report N° **21033**

Rev. 01

Document:

Report Test a rottura agganci Pontili Galleggianti

Anchor Point Break Test Report Floating Docks

Project :

Codice commessa:
Project code: PM 01

Revisione Revision	Redatto da Edited by	Controllato da Controlled by	Approvato da Approved by	Data emissione Emission Date
00	N. Doveri	S. Barsacchi	M. Doveri	2021/02/25
01	N. Doveri	S. Barsacchi	M. Doveri	2021/02/27

Distribuzione:

*Questo documento può essere riprodotto **solo integralmente**. Ogni riproduzione parziale o semplice citazione è ammessa soltanto dopo autorizzazione scritta rilasciata da **EDI***

*This document may **only be reproduced in its entirety**. Any partial reproduction or simple quotation is allowed only after written authorization issued by **EDI***

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Description of the tests

Purpose of the tests is the static breakdown characterization of the coupling systems of modular floating pontoons built by PiEmme S.r.l.

The tests were carried out in full at EDI with specific equipment and load cell FS 10,000 Kg (internal code EDI CC09).

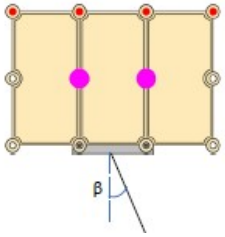
The tests were performed according to the specification provided by the customer and summarized here where the anchoring points and the prescribed pulling angles are defined.

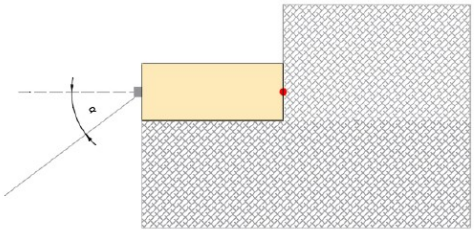
E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Summary of required tests

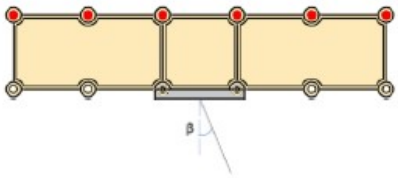
1. **Horizontal tests configurations 1) α angle = 0:**

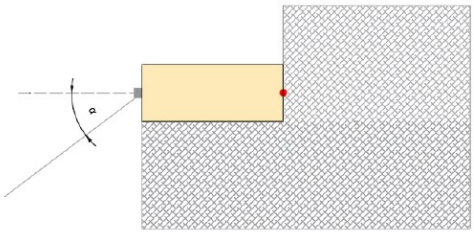




- Five tests for β = 0 ° angle pull
- Three tests for β = 30 ° angle pull

2. **Horizontal tests configurations 4) α angle = 0:**



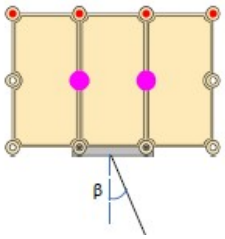


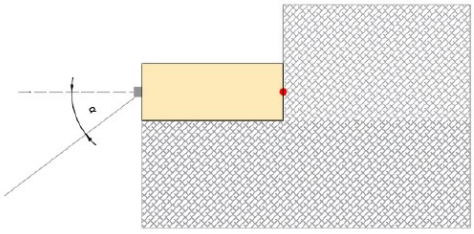
- Five tests for β = 0 ° angle pull
- Three tests for β = 30 ° angle pull

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

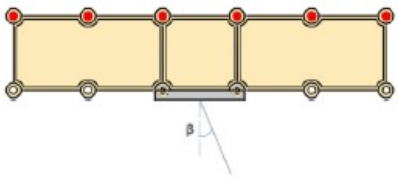
3. Vertical tests configurations 1) β angle = 0:

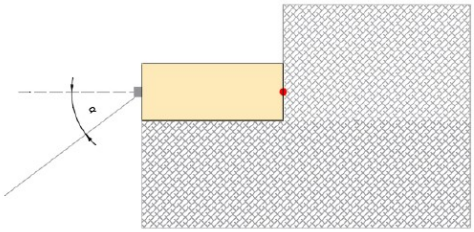




- Three tests for **α** = 15 ° angle pull
- Three tests for **α** = 30 ° angle pull
- Three tests for **α** = 45 ° angle pull

4. Vertical tests configurations 4) β angle = 0:



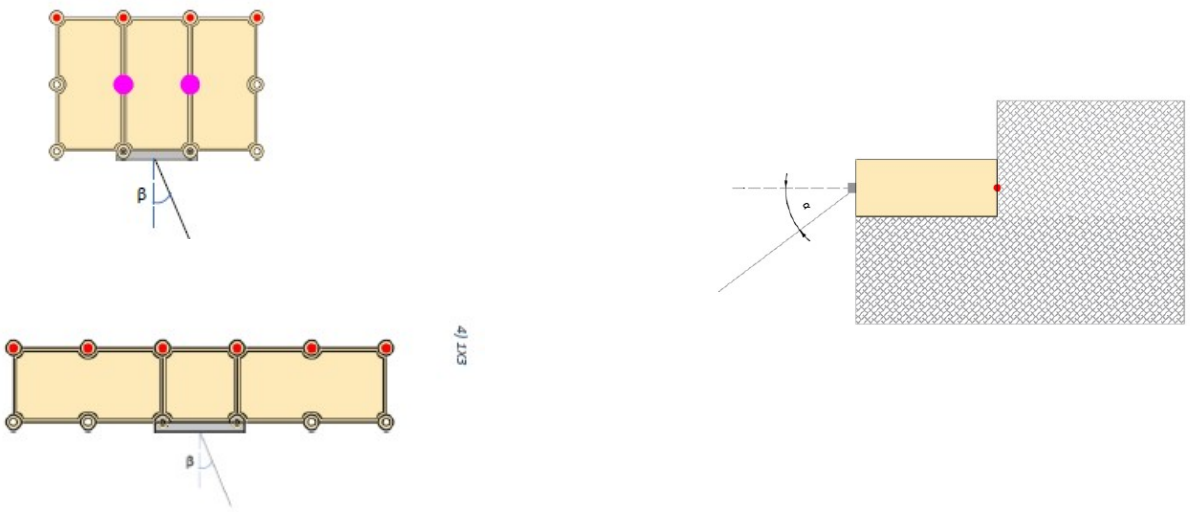


- Three tests for **α** = 0 ° angle pull
- Three tests for **α** = 30 ° angle pull
- Three tests for **α** = 45 ° angle pull

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

5. Double Angle tests with both configurations



- Five tests with **configurations 1)** for **α** = 45 ° angle and β = 30 ° angle pull
- Five tests with **configurations 4)** for **α** = 45 ° angle and β = 30 ° angle pull

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Results - Final breaking loads (Kg)

Horizontal Load					
Pos.	**Conf.**	**N° Test**	**α°**	**β°**	**Max. Pull Load (Kg)**
1	1	1	0	0	1.589
2	1	2	0	0	1.460
3	1	3	0	0	1.413
4	1	4	0	0	1.542
5	1	5	0	0	1.511
6	1	1	0	30	2.020
7	1	2	0	30	1.807
8	1	3	0	30	2.063
9	4	1	0	0	1.694
10	4	2	0	0	2.335
11	4	3	0	0	2.322
12	4	4	0	0	1.888
13	4	5	0	0	1.715
14	4	1	0	30	2.560
15	4	2	0	30	1.836
16	4	3	0	30	1.976

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Vertical Load

Pos.	Conf.	N° Test	α°	β°	Max. Pull Load (Kg)
1	1	1	15	0	1.788
2	1	2	15	0	1.929
3	1	3	15	0	1.667
4	1	1	30	0	2.441
5	1	2	30	0	2.050
6	1	3	30	0	2.114
7	1	1	45	0	2.419
8	1	2	45	0	2.625
9	1	3	45	0	2.840
10	4	1	15	0	1.561
11	4	2	15	0	1.822
12	4	3	15	0	1.724
13	4	1	30	0	2.054
14	4	2	30	0	1.924
15	4	3	30	0	2.190
16	4	1	45	0	2.508
17	4	2	45	0	2.373
18	4	3	45	0	2.571

E.D.I. Progetti e Sviluppo s.r.l.
Via Molise, 7 – Zona Industriale Gello – 56025 Pontedera (Pisa)
tel.0587-294055 fax 0587-296056 - E-mail:n.doveri@ediprogetti.it

cod.fisc./partita IVA 0181285 050 9

Double Angle Pull Load

Pos.	Conf.	N° Test	α°	β°	Max. Pull Load (Kg)
1	1	1	45	30	2.744
2	1	2	45	30	2.902
3	1	3	45	30	2.666
4	1	4	45	30	2.702
5	1	5	45	30	2.789
6	4	1	45	30	2.612
7	4	2	45	30	2.698
8	4	3	45	30	2.726
9	4	4	45	30	2.815
10	4	5	45	30	2.757

Nicolò Doveri

