

Test report

REPORT NUMBER:
281119-1



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Page 1 of 4
Init: ANCA/DECR
Enclosures: 1

Client: Novafix ApS
Tinvej 11
4100 Ringsted

Subject: Wedge on Wedge Test

Sampling: Samples were brought by Novafix ApS on Monday 3rd February.

Test Period: The test is performed February 3rd, 2025.

Test: Compressive wedge-on-wedge test at 5 mm/min reporting compressive displacement after slack correction as described in ASTM D695-23 Standard Test Method for Compressive Properties of Rigid Plastics

Results: See page 4 and enclosure 1-5.

Remarks: None

Terms: The test was conducted in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the general terms and conditions of The Danish Technological Institute. The test results apply to the tested products only. This test report may be reproduced in extract only if the Danish Technological Institute has granted its written consent.

Test place: Danish Technological Institute, Plastics & Packaging

Signature: This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature. Approved and signed by:

Anders Ask Carton
Business manager

Test

Compressive test at 5 mm/min reporting values at load (kg) levels ranging from 100kg to 3000kg as applicable as well as force required for a 2 mm compressive displacement.

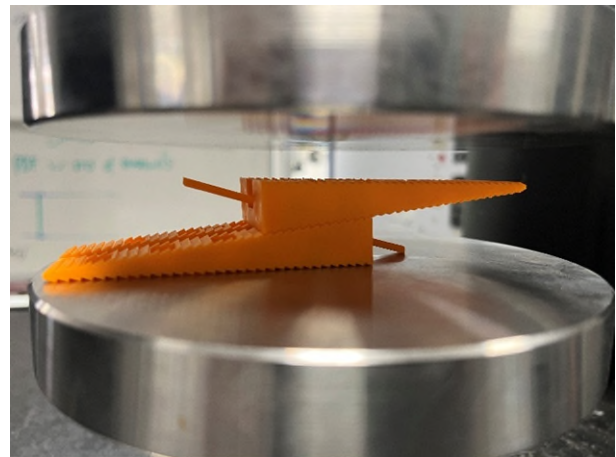
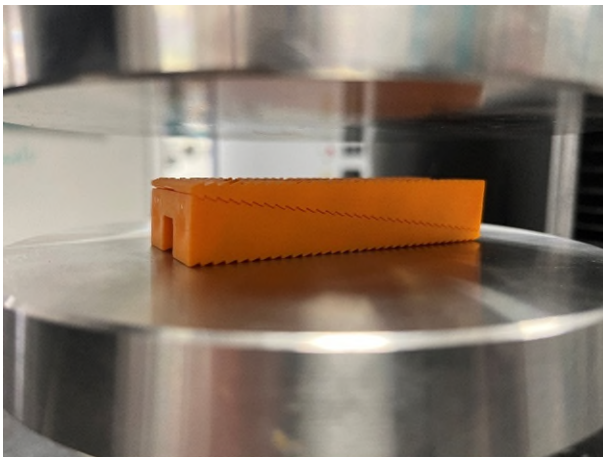
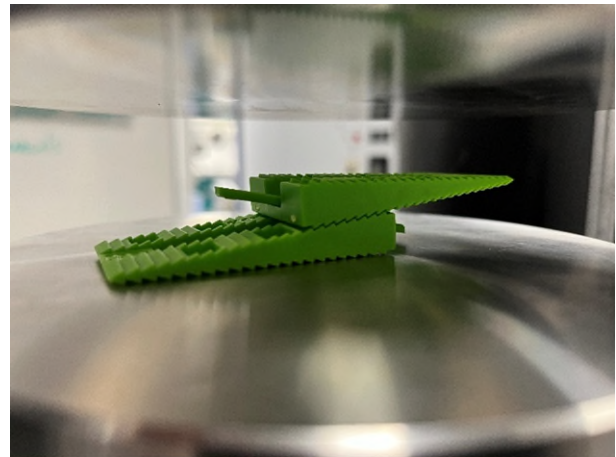
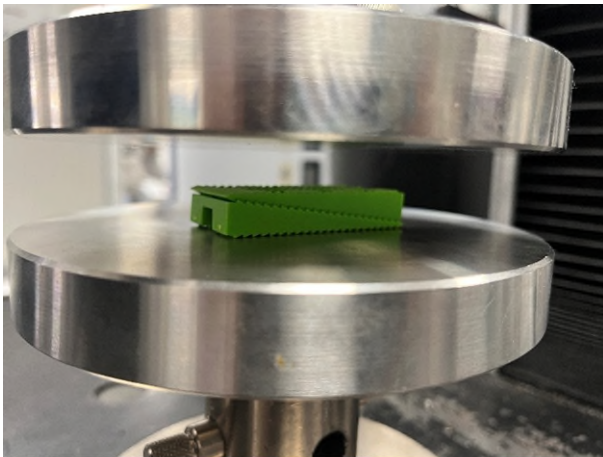
Equipment

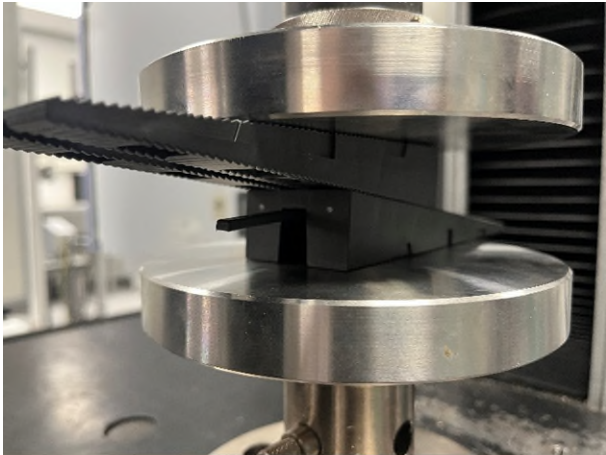
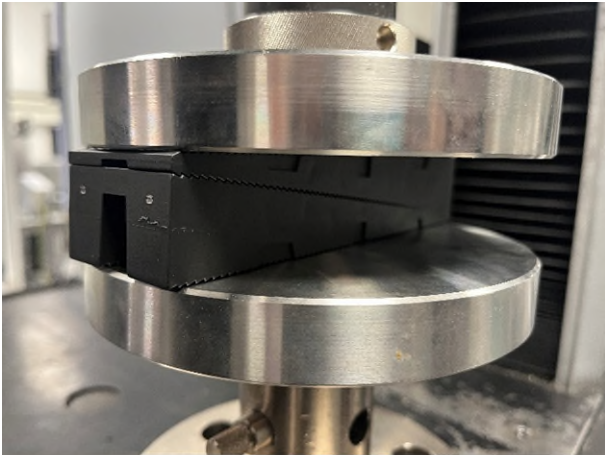
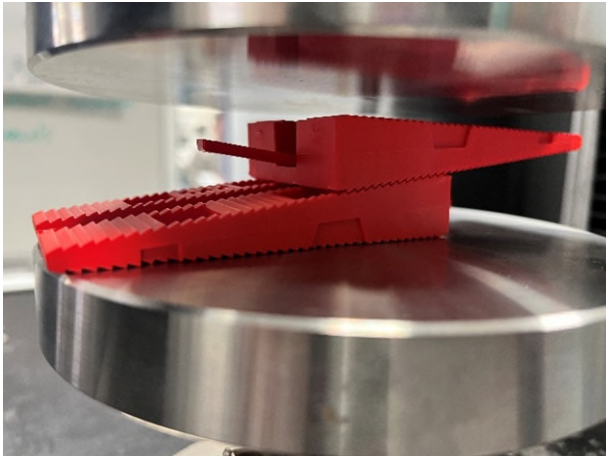
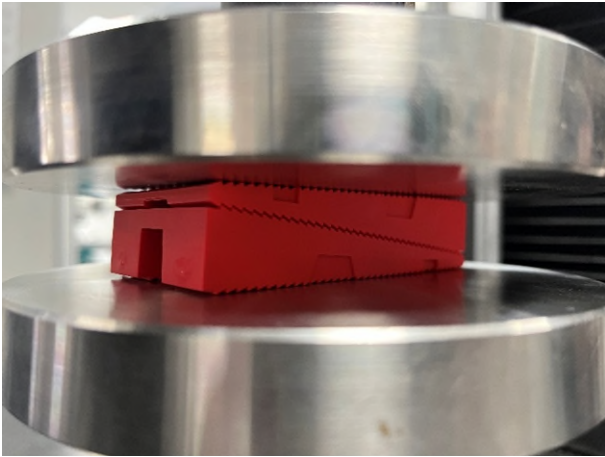
Instron Universal Tensile Tester, 5569 H1500 (32T01.10.1) with 50kN load cell (32T01.11.1)

Samples

- Wedge 1 (Green)
- Wedge 2 (Orange)
- Wedge 3 (Red)
- Wedge 4 (Black)

Test Setup





Test Results

Wedge 1 (Green)		
	100% overlap	35% overlap
Load (kg)	Compressive displacement (mm)	
100	0.1	0.2
250	0.2	0.7
500	0.5	-
1000	1.3	-
Wedge 1 (Green)		
Compressive Displacement (mm)	Load (kg)	
2	1200	450

Wedge 2 (Orange)		
	100% overlap	35% overlap
Load (kg)	Compressive displacement (mm)	
100	-	0.2
250	0.1	0.4
500	0.3	0.8
1000	0.6	-
2000	1.5	-
3000	-	-
Wedge 2 (Orange)		
Compressive Displacement (mm)	Load (kg)	
2	2300	860

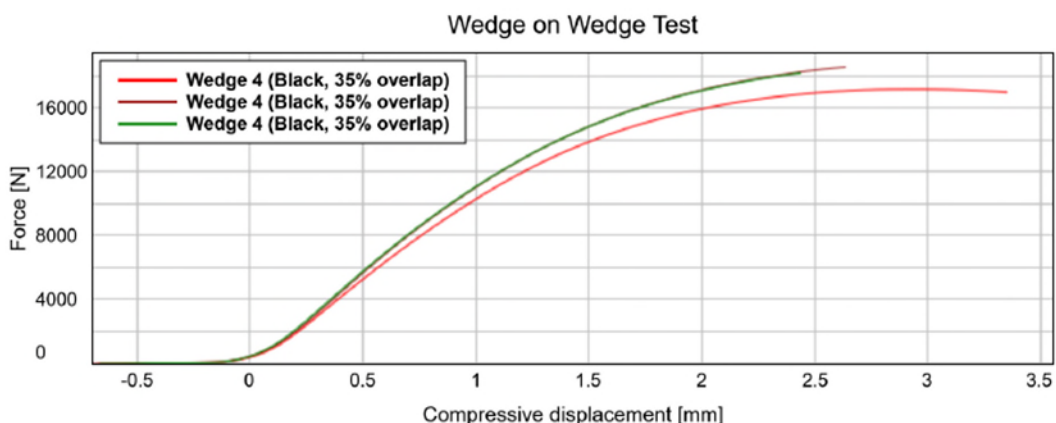
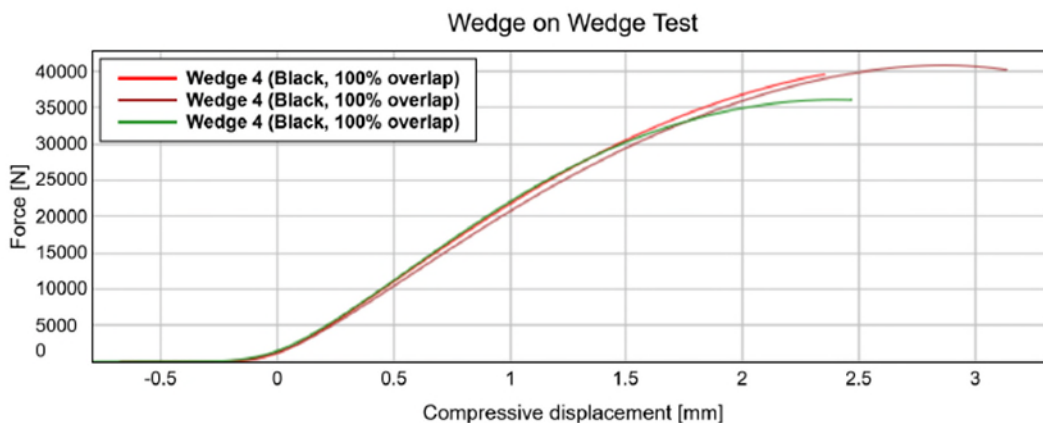
Wedge 3 (Red)		
	100% overlap	35% overlap
Load (kg)	Compressive displacement (mm)	
100	-	0.1
250	0.2	0.3
500	0.3	0.6
1000	0.6	1.6
2000	1.2	-
3000	-	-
Wedge 3 (Red)		
Compressive Displacement (mm)	Load (kg)	
2	2750	1100

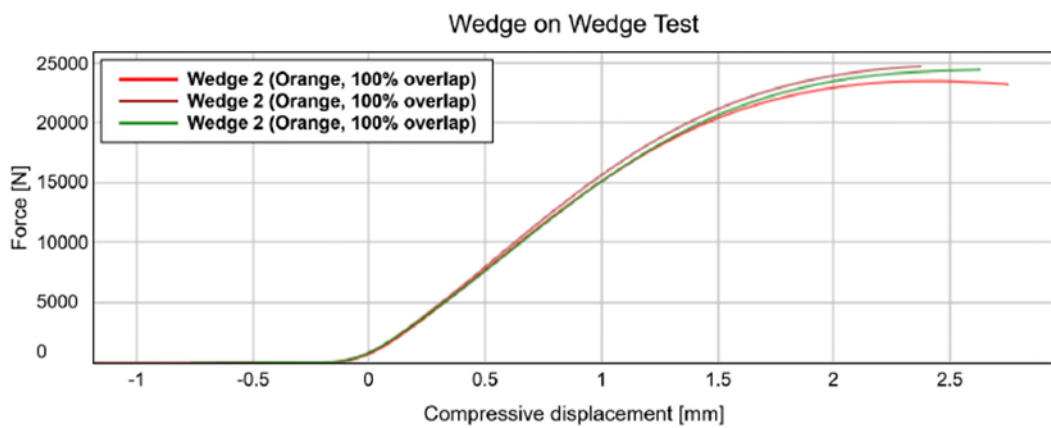
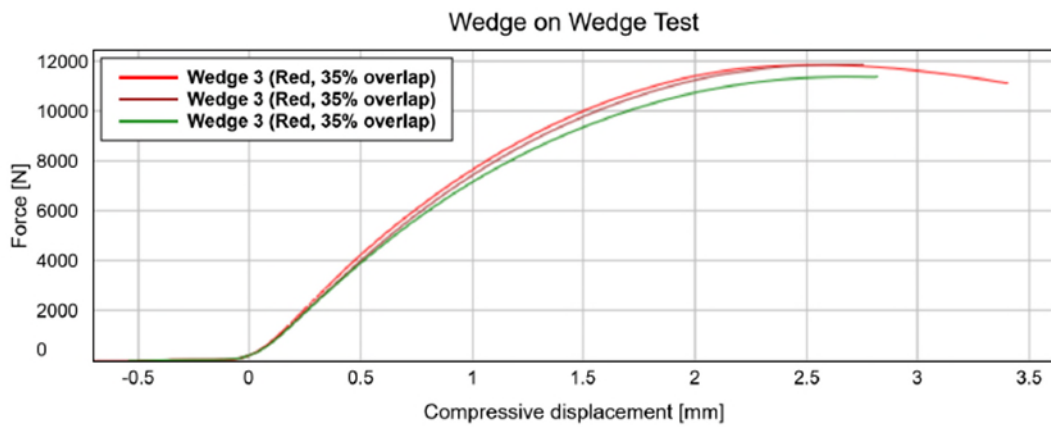
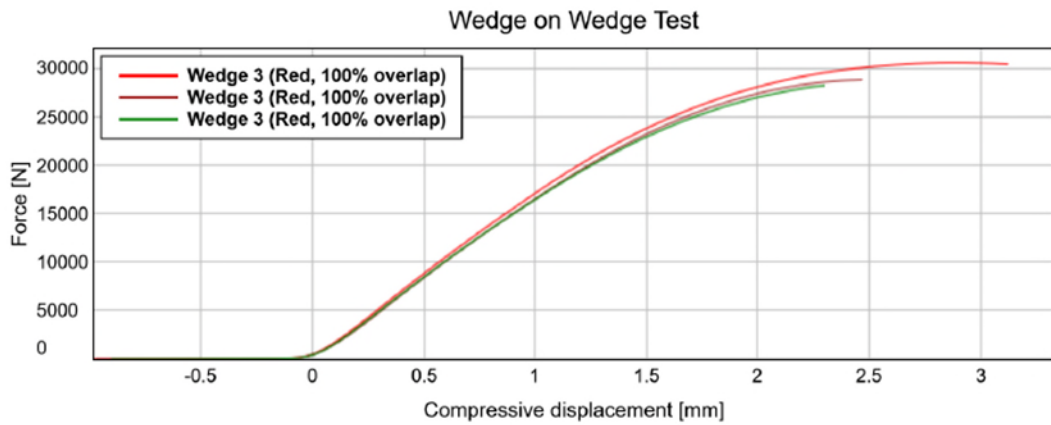
Wedge 4 (Black)		
	100% overlap	35% overlap
Load (kg)	Compressive displacement (mm)	
100	-	0.1
250	0.1	0.2
500	0.2	0.4
1000	0.5	0.9
2000	0.9	-
3000	1.5	-
Wedge 4 (Black)		
Compressive Displacement (mm)	Load (kg)	
2	3500	1650

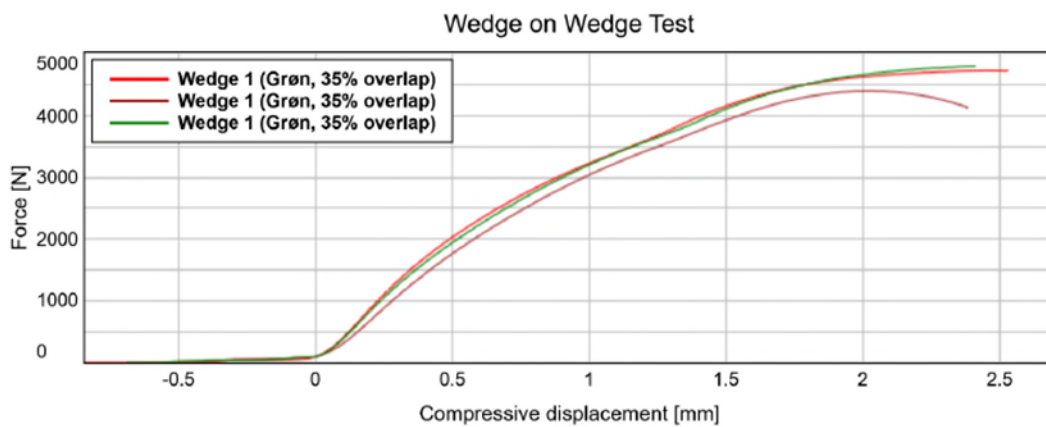
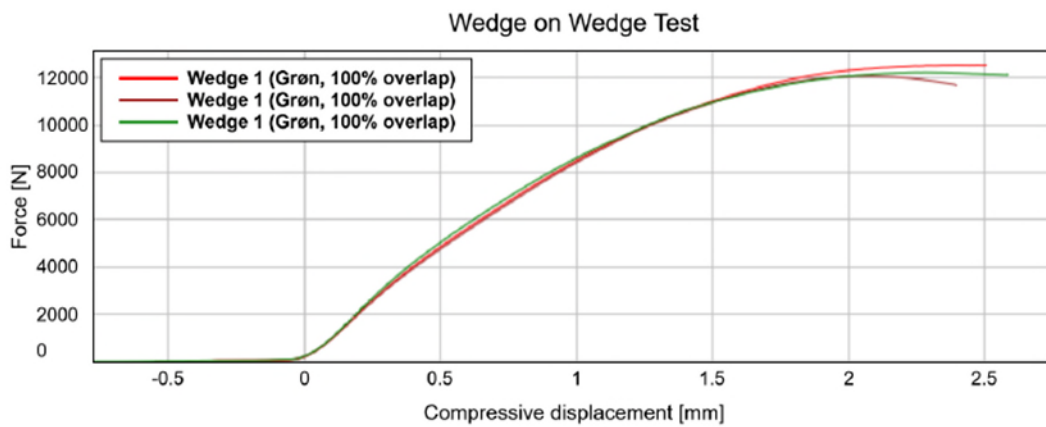
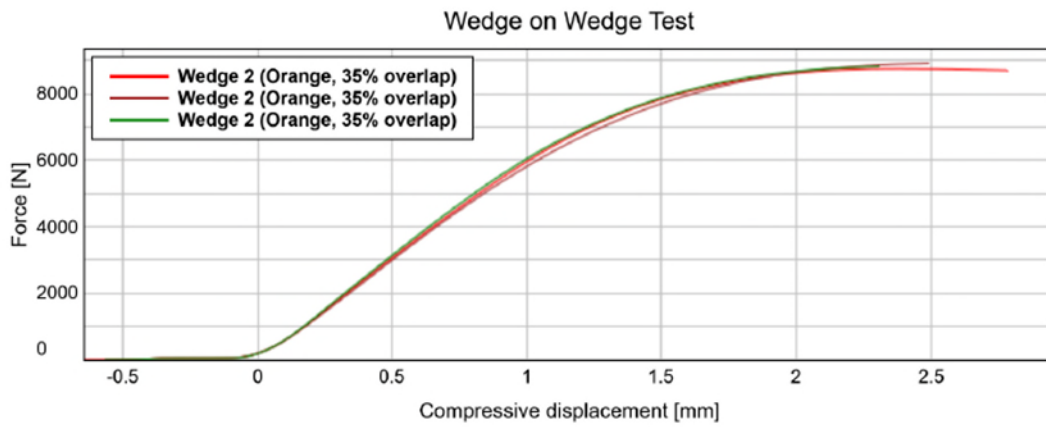
Tillex Wedge on Wedge Test

Compressive test wedge-on-wedge test reporting displacement at various load points and load required for a 2 mm displacement both at 100% and 35% overlap after slack correction

Last test date	03/02/2025
Rate 1	5.00 mm/min







	Produkt ID	Displacement @ 2500 N [mm]	Displacement @ 5000 N [mm]	Displacement @ 10000 N [mm]	Displacement @ 20000 N [mm]	Displacement @ 30000 N [mm]	Force @ 2 mm displacement [kN]
3	Wedge 4 (Black, 100% overlap)	0.1	0.2	0.5	0.9	1.5	36.8
4	Wedge 4 (Black, 100% overlap)	0.1	0.2	0.5	1.0	1.5	35.9
5	Wedge 4 (Black, 100% overlap)	0.1	0.2	0.4	0.9	1.5	34.9
6	Wedge 4 (Black, 35% overlap)	0.3	0.5	1.0	----	----	15.9
7	Wedge 4 (Black, 35% overlap)	0.2	0.4	0.9	----	----	17.1
8	Wedge 4 (Black, 35% overlap)	0.2	0.4	0.9	----	----	17.1
9	Wedge 3 (Red, 100% overlap)	0.1	0.3	0.6	1.2	2.4	28.1
10	Wedge 3 (Red, 100% overlap)	0.2	0.3	0.6	1.2	----	27.4
11	Wedge 3 (Red, 100% overlap)	0.2	0.3	0.6	1.3	----	27.0
12	Wedge 3 (Red, 35% overlap)	0.3	0.6	1.5	----	----	11.4
14	Wedge 3 (Red, 35% overlap)	0.3	0.6	1.6	----	----	11.3
15	Wedge 3 (Red, 35% overlap)	0.3	0.6	1.7	----	----	10.8
16	Wedge 2 (Orange, 100% overlap)	0.2	0.3	0.6	1.5	----	22.9

	Produkt ID	Displacement @ 2500 N [mm]	Displacement @ 5000 N [mm]	Displacement @ 10000 N [mm]	Displacement @ 20000 N [mm]	Displacement @ 30000 N [mm]	Force @ 2 mm displacement [kN]
17	Wedge 2 (Orange, 100% overlap)	0.1	0.3	0.6	1.4	----	23.9
18	Wedge 2 (Orange, 100% overlap)	0.1	0.3	0.7	1.4	----	23.5
19	Wedge 2 (Orange, 35% overlap)	0.4	0.8	----	----	----	8.6
20	Wedge 2 (Orange, 35% overlap)	0.4	0.8	----	----	----	8.6
21	Wedge 2 (Orange, 35% overlap)	0.4	0.8	----	----	----	8.7
22	Wedge 1 (Grøn, 100% overlap)	0.2	0.5	1.3	----	----	12.3
24	Wedge 1 (Grøn, 100% overlap)	0.2	0.5	1.3	----	----	12.1
25	Wedge 1 (Grøn, 100% overlap)	0.2	0.5	1.3	----	----	12.1
26	Wedge 1 (Grøn, 35% overlap)	0.7	----	----	----	----	4.6
27	Wedge 1 (Grøn, 35% overlap)	0.8	----	----	----	----	4.4
28	Wedge 1 (Grøn, 35% overlap)	0.7	----	----	----	----	4.7