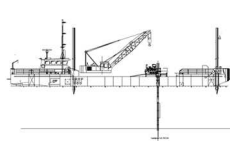
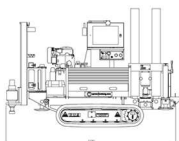
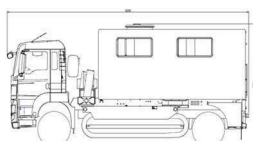


Rapport geotechnisch bodemonderzoek



Rapportnummer : 210019
Plaats : Ritthem
Omschrijving : Schotlandweg

Laboratoriumonderzoek boring nr. 2



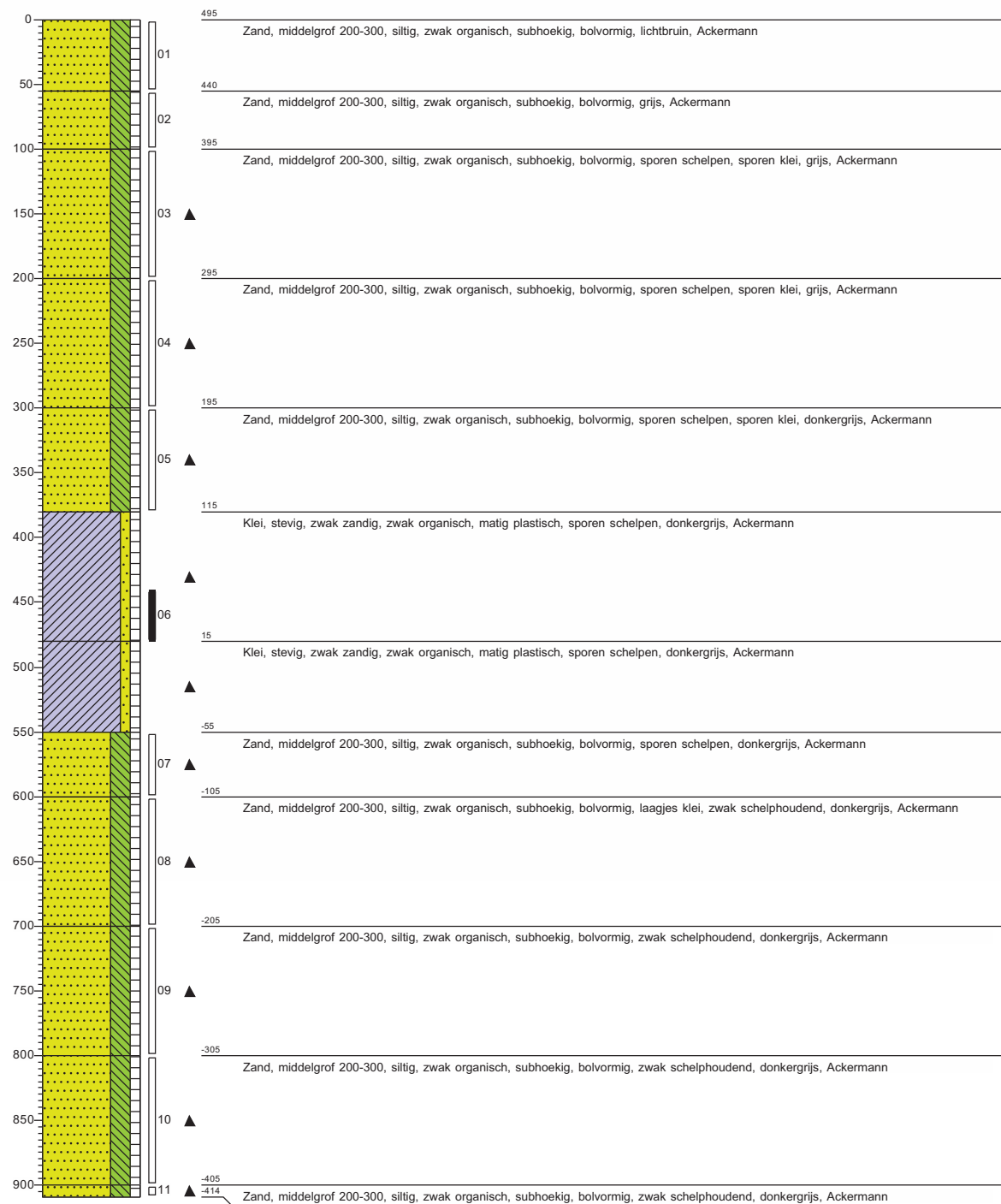
VAN DER STRAATEN
GEOTECHNIEK B.V.

Van der Straaten Geotechniek BV



Boring: B002

X-coördinaat t.o.v. RD: 38142,87
Y-coördinaat t.o.v. RD: 387414,00
Datum plaatsing: 12-2-2021
Maaiveld in m t.o.v. NAP: 4,951

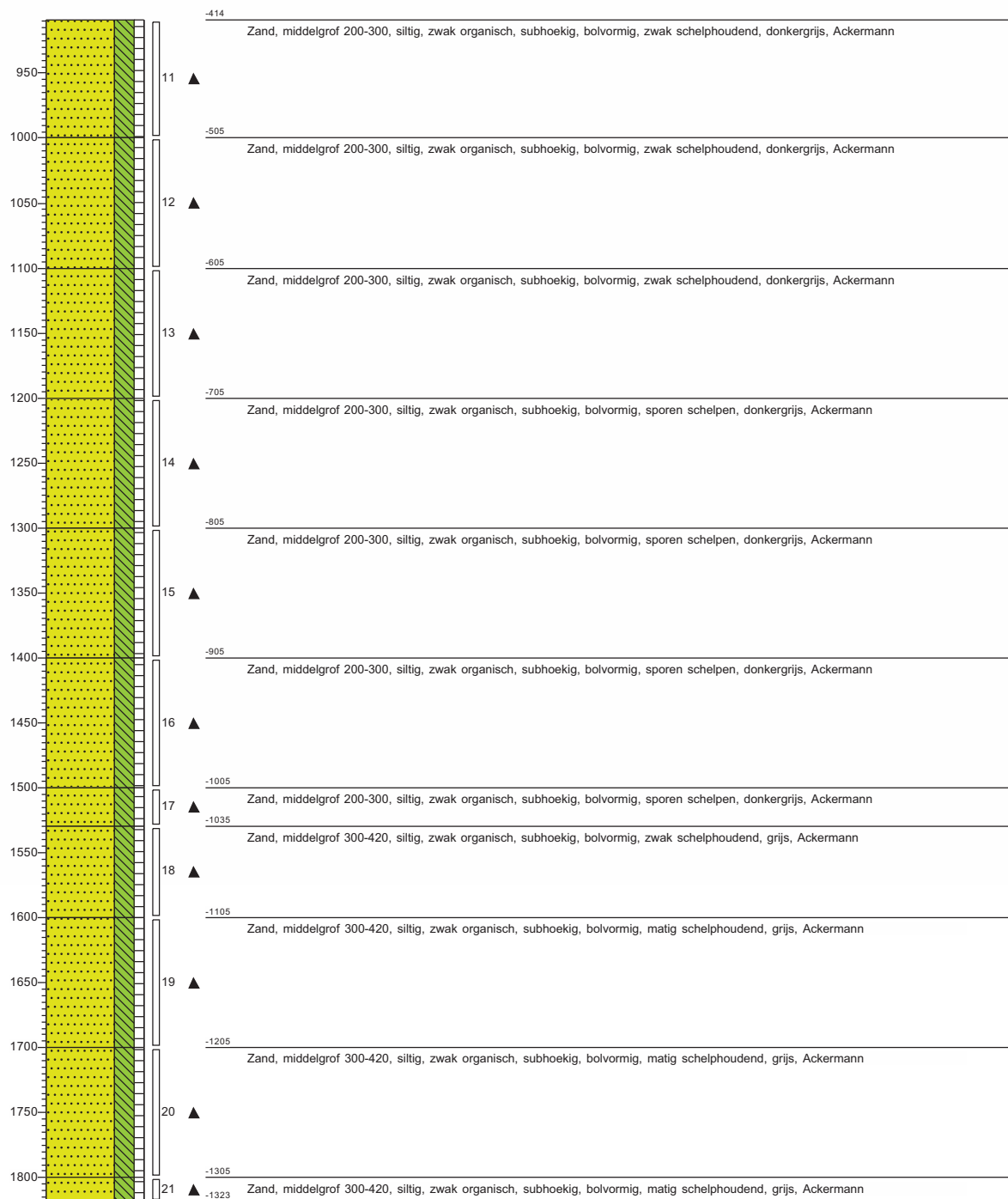


Boormeester: Wim Timmers & Danny Oostingh
Projectnaam: Ritthem
Projectcode: 210019(opgeslagen)



Boring: B002

X-coördinaat t.o.v. RD: 38142,87
Y-coördinaat t.o.v. RD: 387414,00
Datum plaatsing: 12-2-2021
Maaiveld in m t.o.v. NAP: 4,951

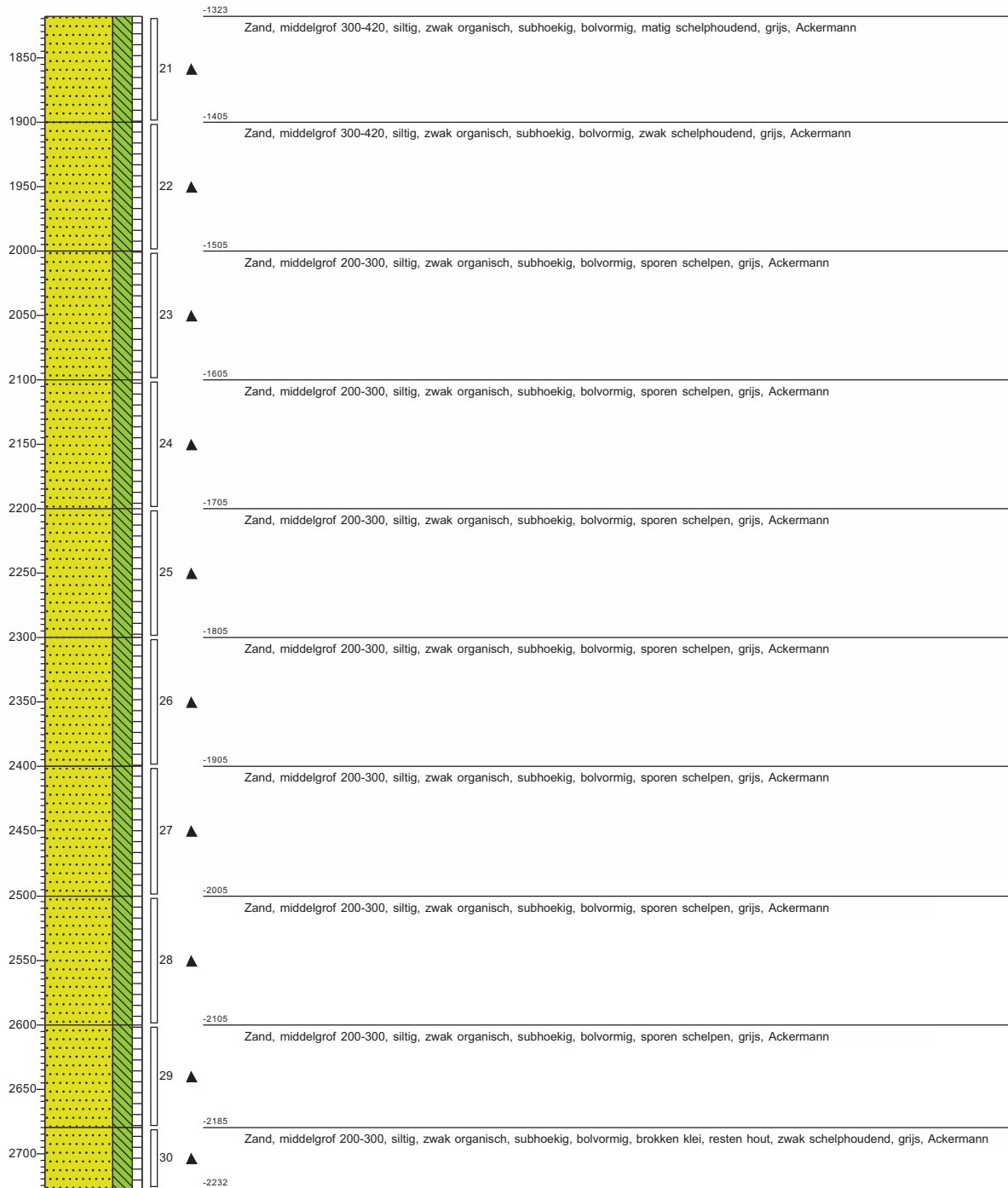


Boormeester: Wim Timmers & Danny Oostingh
Projectnaam: Ritthem
Projectcode: 210019(opgeslagen)



Boring: B002

X-coördinaat t.o.v. RD: 38142,87
Y-coördinaat t.o.v. RD: 387414,00
Datum plaatsing: 12-2-2021
Maaiveld in m t.o.v. NAP: 4,951

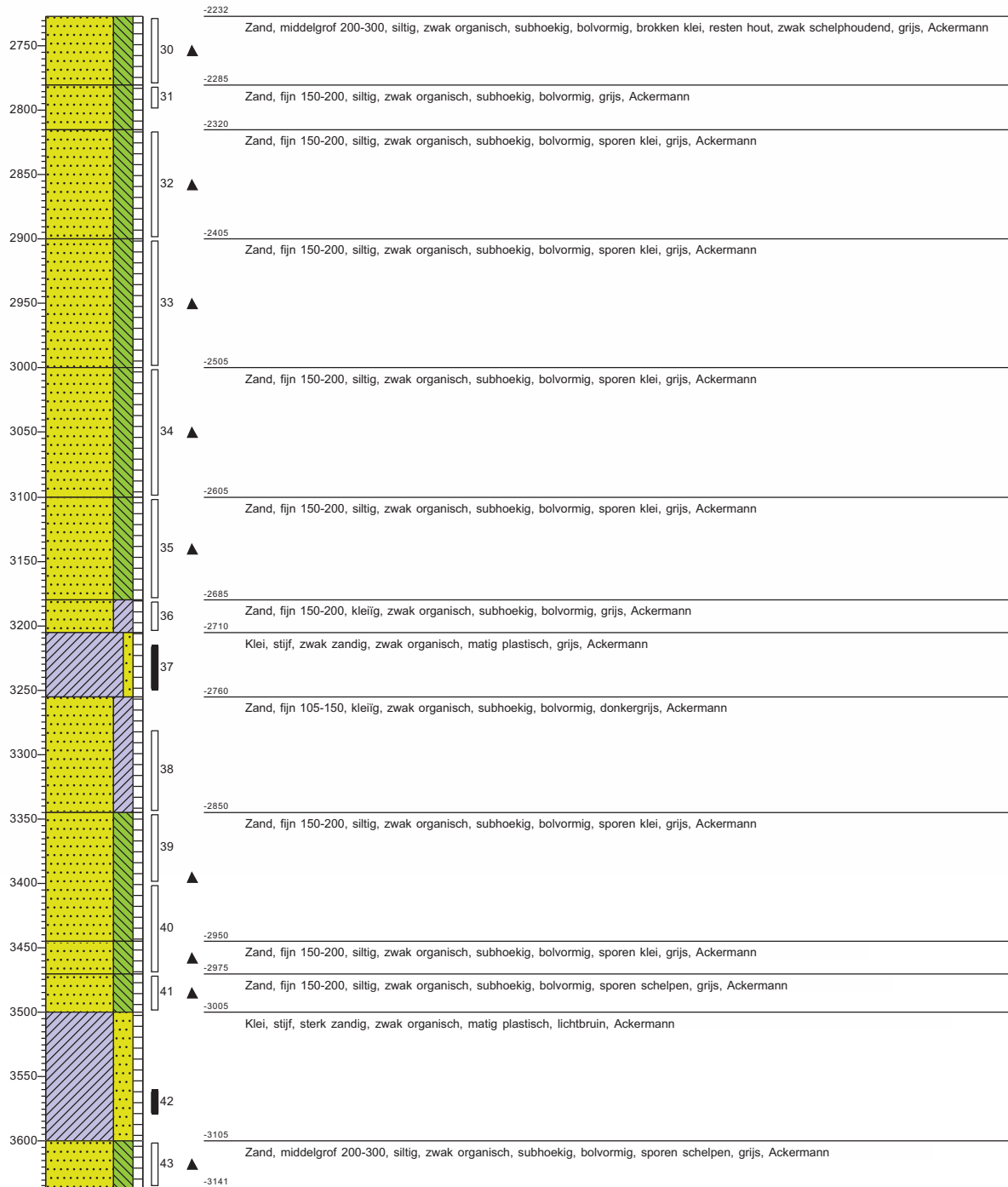


Boormeester: Wim Timmers & Danny Oostingh
Projectnaam: Ritthem
Projectcode: 210019(opgeslagen)



Boring: B002

X-coördinaat t.o.v. RD: 38142,87
Y-coördinaat t.o.v. RD: 387414,00
Datum plaatsing: 12-2-2021
Maaiveld in m t.o.v. NAP: 4,951

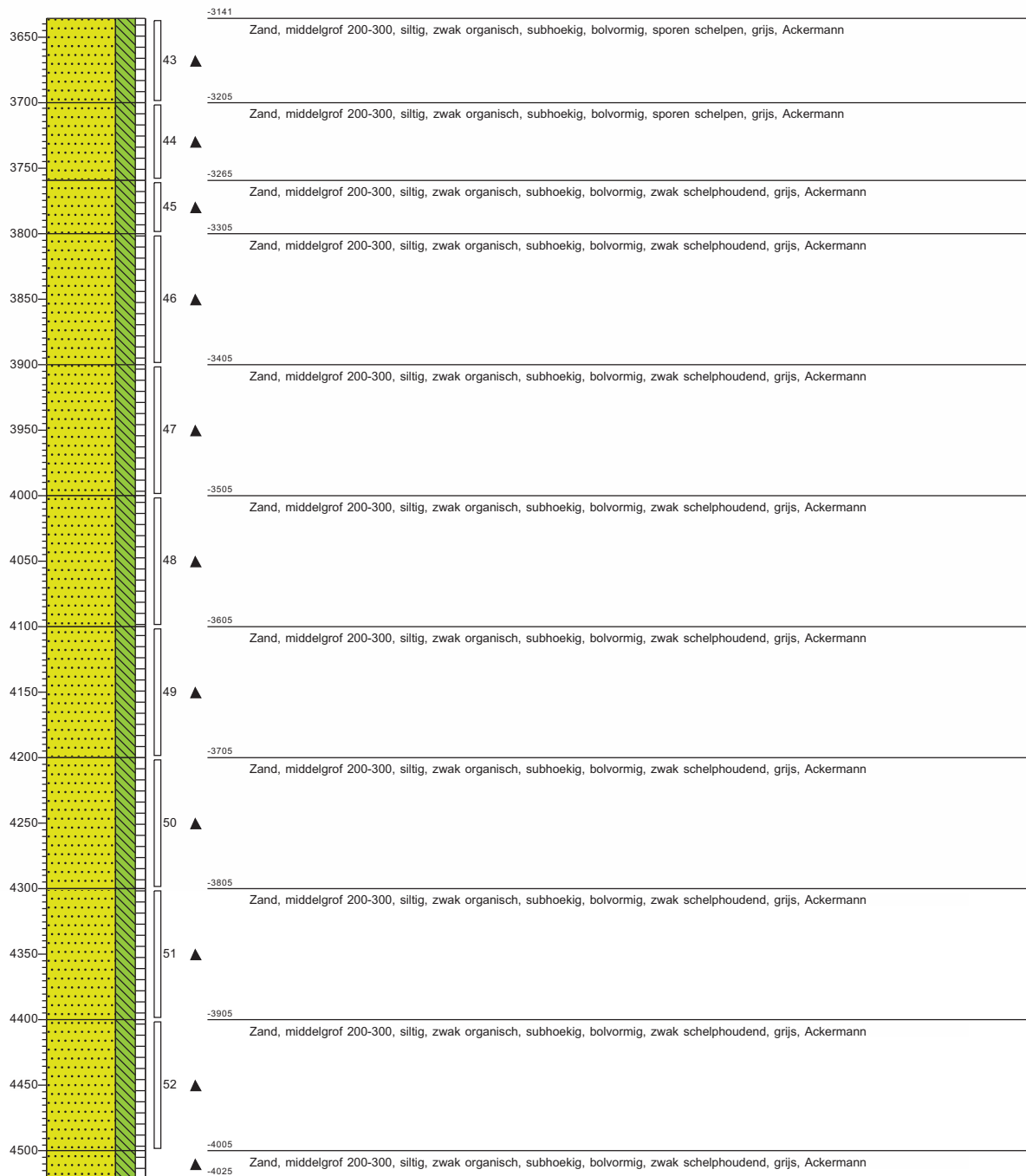


Boormeester: Wim Timmers & Danny Oostingh
Projectnaam: Ritthem
Projectcode: 210019(opgeslagen)



Boring: B002

X-coördinaat t.o.v. RD: 38142,87
Y-coördinaat t.o.v. RD: 387414,00
Datum plaatsing: 12-2-2021
Maaiveld in m t.o.v. NAP: 4,951



Boormeester: Wim Timmers & Danny Oostingh
Projectnaam: Ritthem
Projectcode: 210019(opgeslagen)

VLISSINGEN OOST

MVJ210 31

BORING B002

MV 4.95 M NAP

MAPNR 2021 -015

FEBRUARI 2021

BLAD 1/4



Gemeente Rotterdam

Ingenieursbureau

VLG-Laboratorium



-10
-20
-30
-40
-50
-60
-70
-80
-90

M-MV

13

12

11

10

9

8

7

6

5

4

3

2

1

0

VLISSINGEN OOST

MVJ210 31

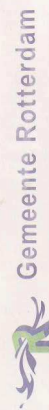
BORING B002

MV 4.95 M NAP

MAP NR 2021 -015

FEBRUARI 2021

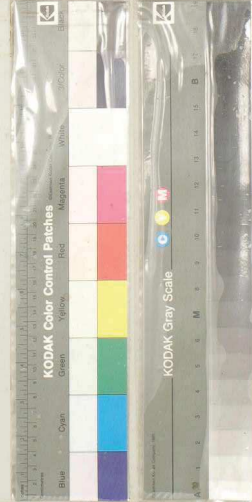
BLAD 2/4



Gemeente Rotterdam

Ingenieursbureau

VLG-Laboratorium



-10
-20
-30
-40
-50
-60
-70
-80
-90

M-MV

27

26

25

24

23

22

21

20

19

18

17

16

15

14

VLISSINGEN OOST

MVJ210 31

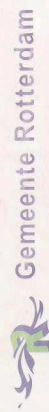
BORING B002

MV 4.95 M NAP

MAP NR 2021 -015

FEBRUARI 2021

BLAD3/4



Ingenieursbureau

VLG-Laboratorium

KODAK Color Control Patches



KODAK Gray Scale



M-MV

41

40

39

38

37

36

35

34

33

32

31

30

29

28

-10

-20

-30

-40

-50

-60

-70

-80

-90

M-MV

-10

-20

-30

-40

-50

-60

-70

-80

-90

VLISSINGEN OOST

MVJ21031

BORING B002

MV 4.95 M NAP

MAPNR 2021 -015

FEBRUARI 2021

BLAD 4/4



Gemeente Rotterdam

Ingenieursbureau

VLG-Laboratorium



42 43 44 45



ONDERZOEKSRESULTATEN

Resultaten Volume/Gewicht:

Boring	diepte t.o.v. [m-mv]	volume- gewicht nat [kN/m ³]	volume- gewicht droog [kN/m ³]	water- gehalte [%m/m d.s.]
B002-1	0,30	15,1	14,0	8
B002-2	0,75	15,4	14,2	8
B002-3	1,50	17,7	15,1	17
B002-4	3,80	15,7	9,5	66
B002-5	4,20	16,7	11,5	45
B002-6	5,70	18,2	14,8	23
B002-7	6,50	18,4	15,1	22
B002-8	7,50	17,1	14,1	22
B002-9	9,50	18,8	15,8	19
B002-10	11,50	18,6	15,6	19
B002-11	13,50	18,8	15,6	21
B002-12	15,50	17,7	14,8	19
B002-13	16,50	16,6	15,0	11
B002-14	18,50	16,0	14,4	12
B002-15	19,50	18,0	15,2	18
B002-16	20,50	19,1	16,0	19
B002-17	22,50	18,4	15,1	22
B002-18	24,50	18,7	15,5	21
B002-19	26,90	17,2	13,9	24
B002-20	27,90	18,2	15,1	21
B002-21	28,50	19,3	15,9	21
B002-22	30,50	19,1	16,0	20
B002-23	31,90	19,1	15,8	21
B002-24	32,10	20,1	16,4	22
B002-25	33,10	20,2	16,8	20
B002-26	33,70	19,4	16,1	20
B002-27	34,85	19,4	15,7	24
B002-28	35,05	19,7	15,9	24
B002-29	36,50	16,1	12,0	35
B002-30	37,80	17,8	13,7	29
B002-31	39,50	17,9	14,3	25
B002-32	41,50	17,3	13,9	25
B002-33	43,50	17,7	14,1	26



Resultaten min max proeven

B2

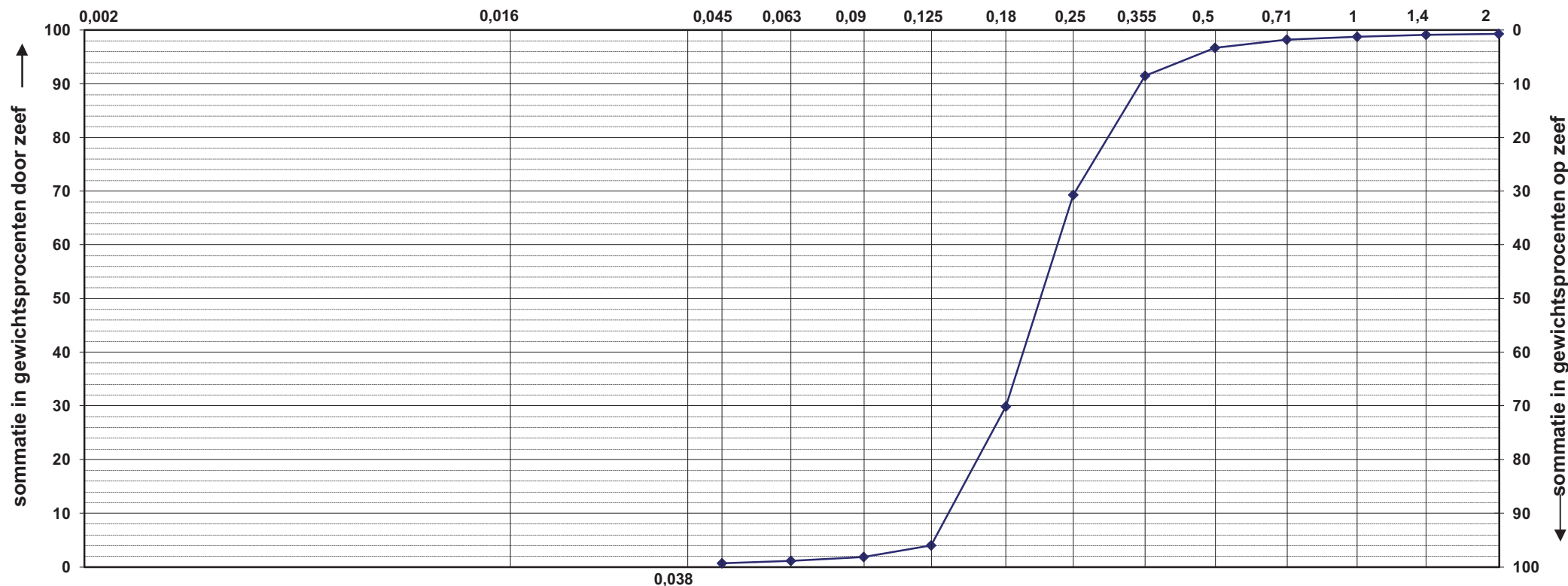
		12,0-13,0 m-mv	20,0-21,0 m-mv	38-0-39,0 m-mv
maximale dichtheid	Kg/m3	1718	1726	1642
minimale dichtheid	Kg/m3	1438	1421	1302

Resultaten atterbergse grenzen

B2

	4,6-4,8 m-mv	35,6-35,8 m-mv
Vloeigrens [%]	49,4	33,7
Uitrolgrens [%]	22,6	17,0
Plasticiteitsindex [%]	26,8	16,7
Erosiebestendigheid	klasse 1	weinig

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

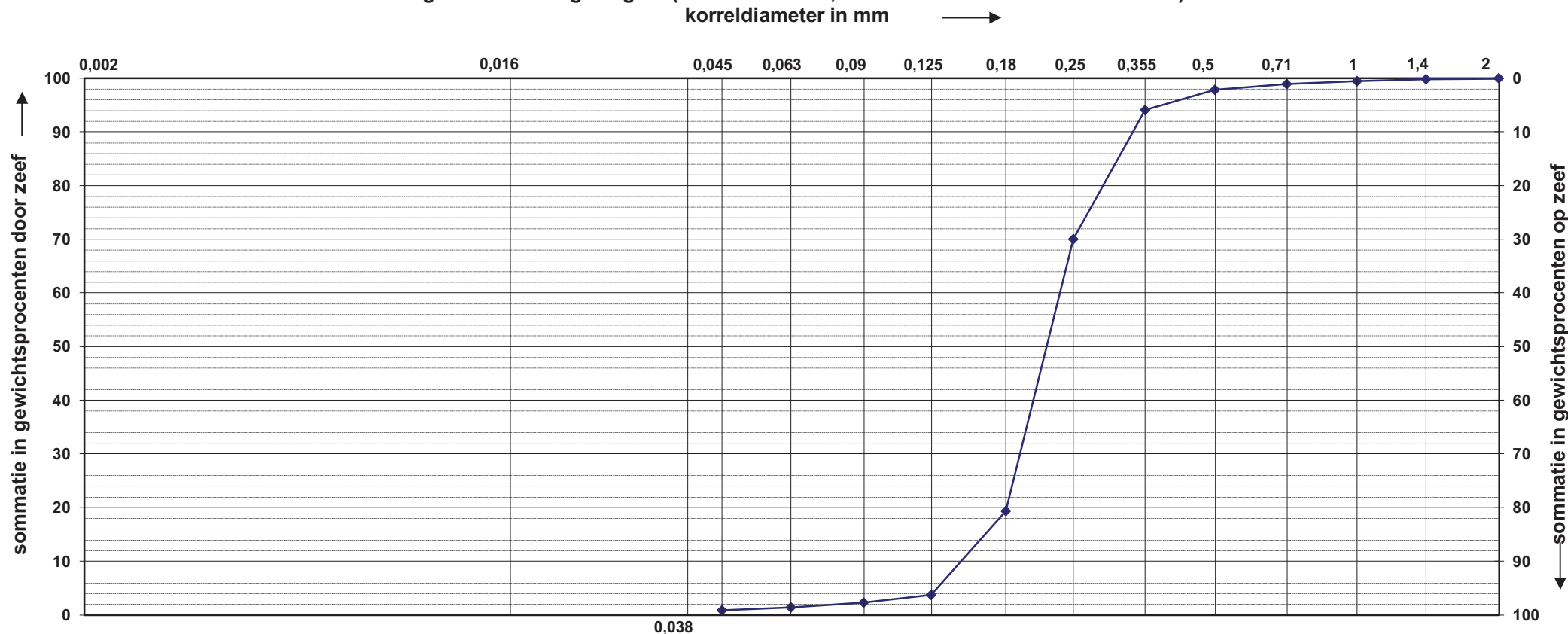
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
1-2 -m	0,7	98,2	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,253	0,213	1,7	0,213	1,68

Tabel uitgedrukt in massapercentages
van de stooftroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

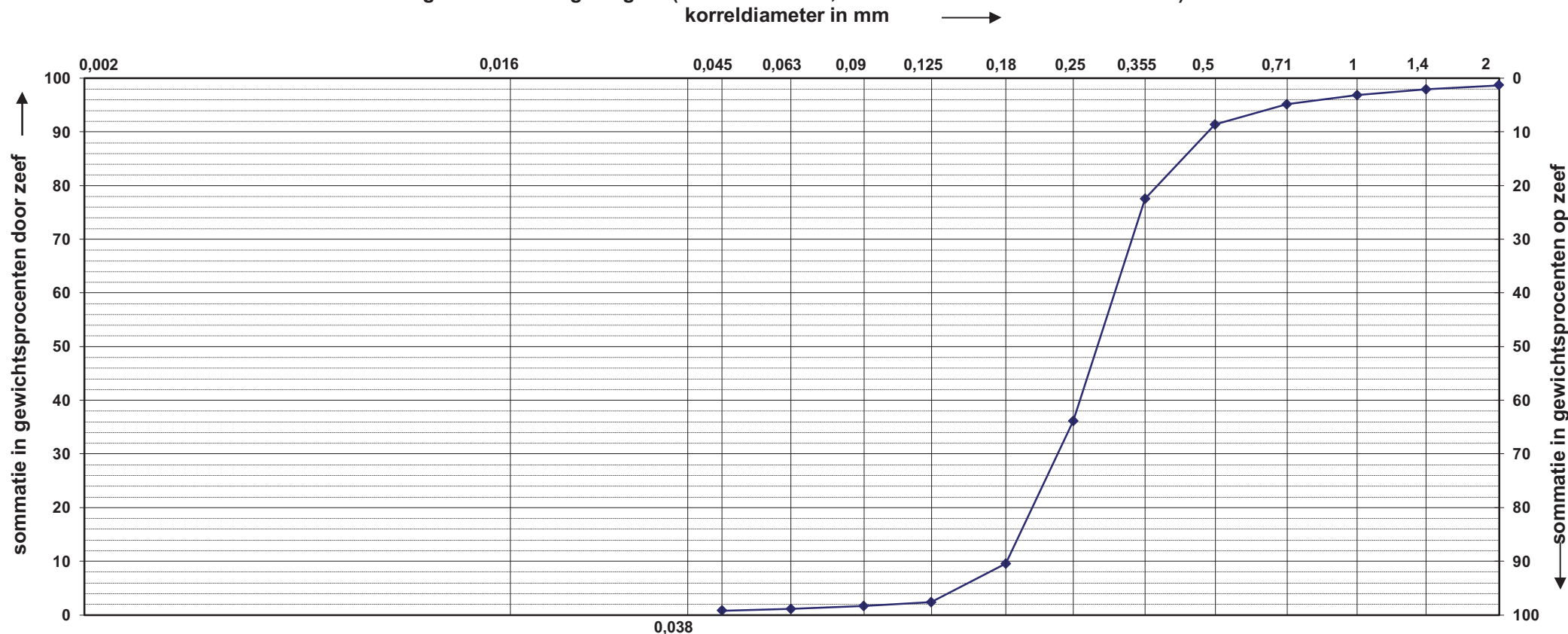
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
5,5-6,0 -m	0,0	98,5	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,250	0,220	1,6	0,221	1,58

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO3 en inclusief Fe2O3)



samenstelling monster (inclusief humus, CaCO3 en Fe2O3)

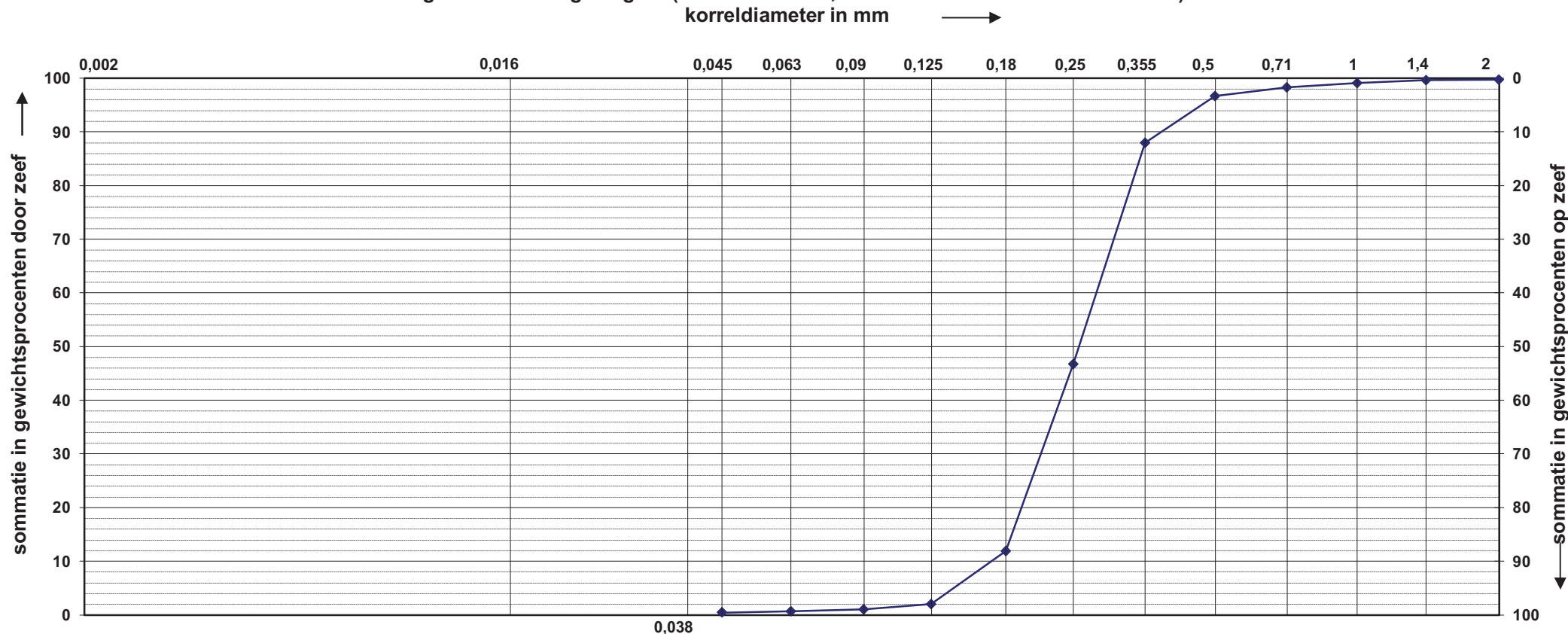
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
7,0-8,0 -m	1,3	97,5	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,333	0,281	1,7	0,281	1,67

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

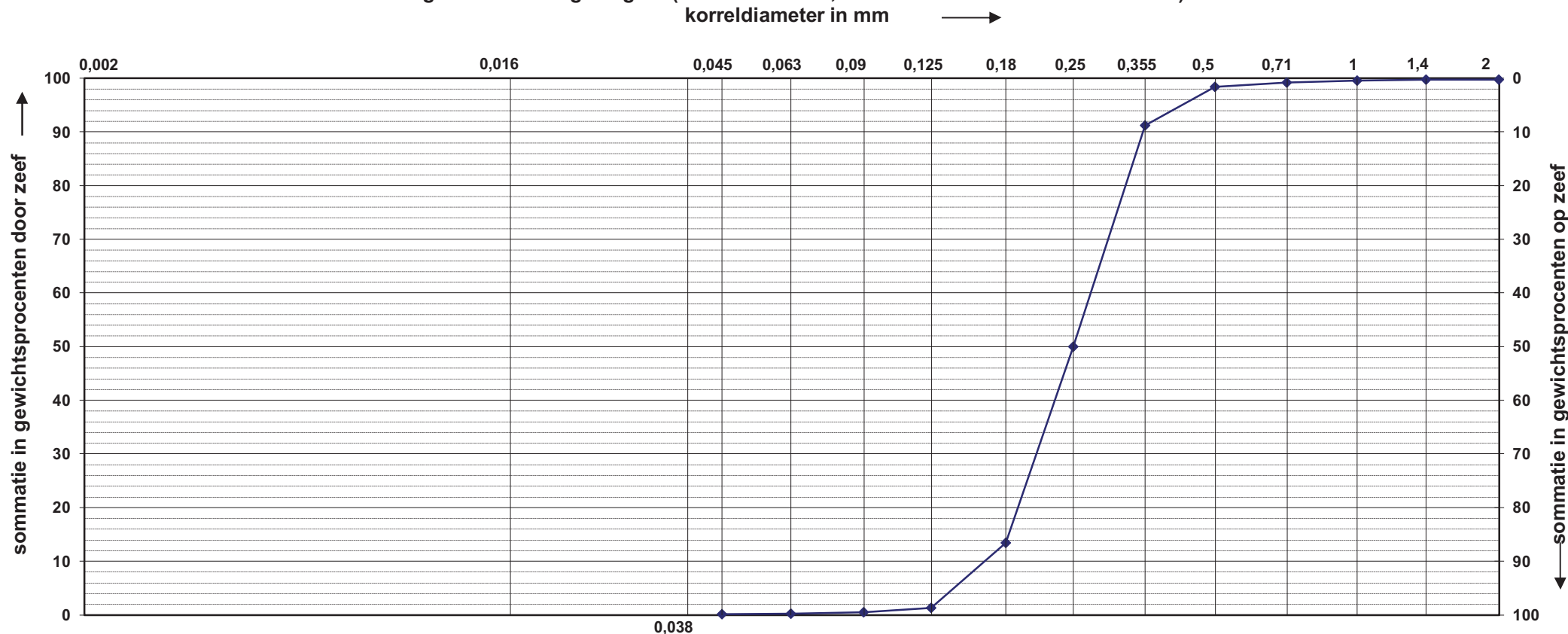
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
9,0-10,0 -m	0,3	99,1	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,305	0,257	1,7	0,257	1,63

Tabel uitgedrukt in massapercentages
van de stooftroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

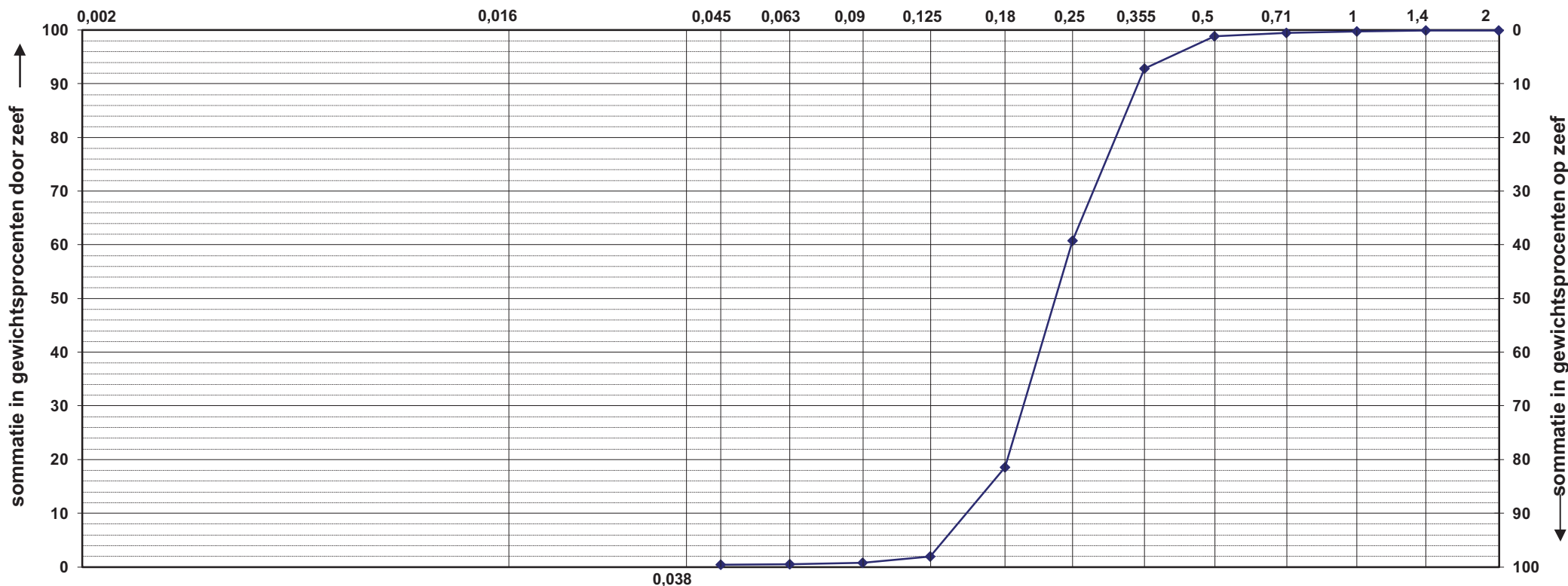
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
11,0-12,0 -m	0,2	99,5	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,296	0,250	1,7	0,250	1,67

Tabel uitgedrukt in massapercentages
van de stooftroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

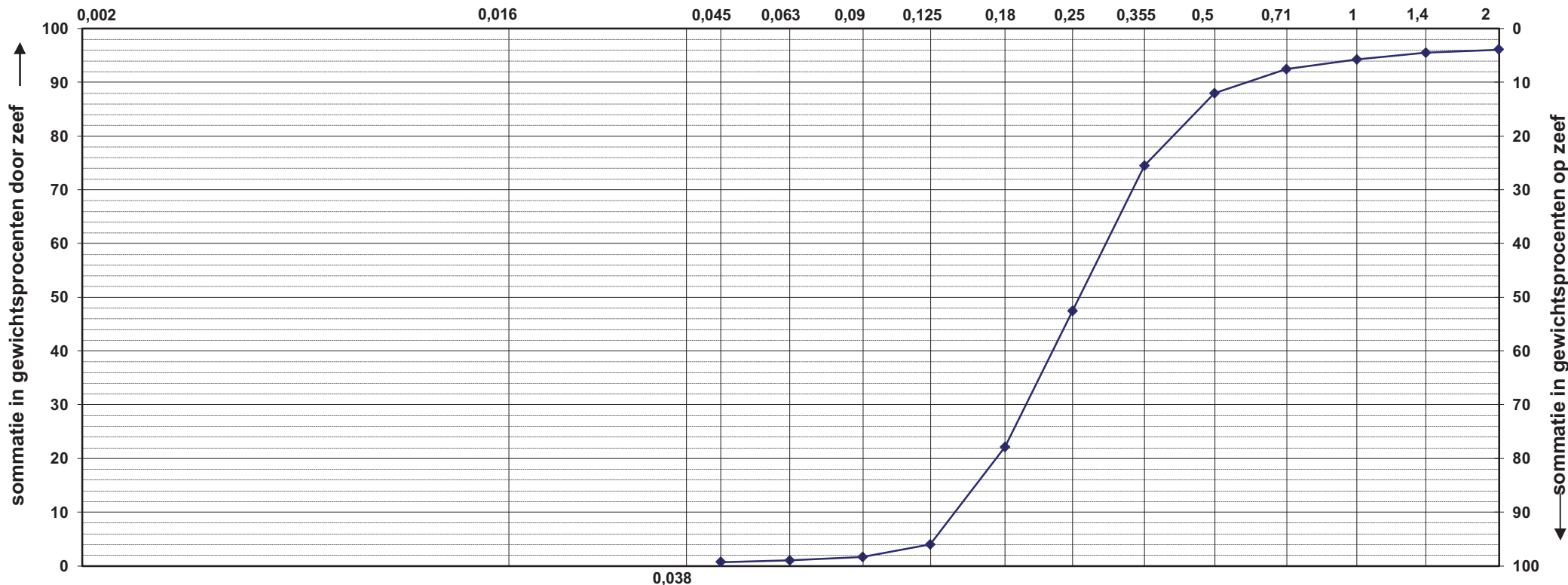
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
13,0-14,0 -m	0,1	99,4	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,277	0,230	1,7	0,230	1,65

Tabel uitgedrukt in massapercentages
 van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

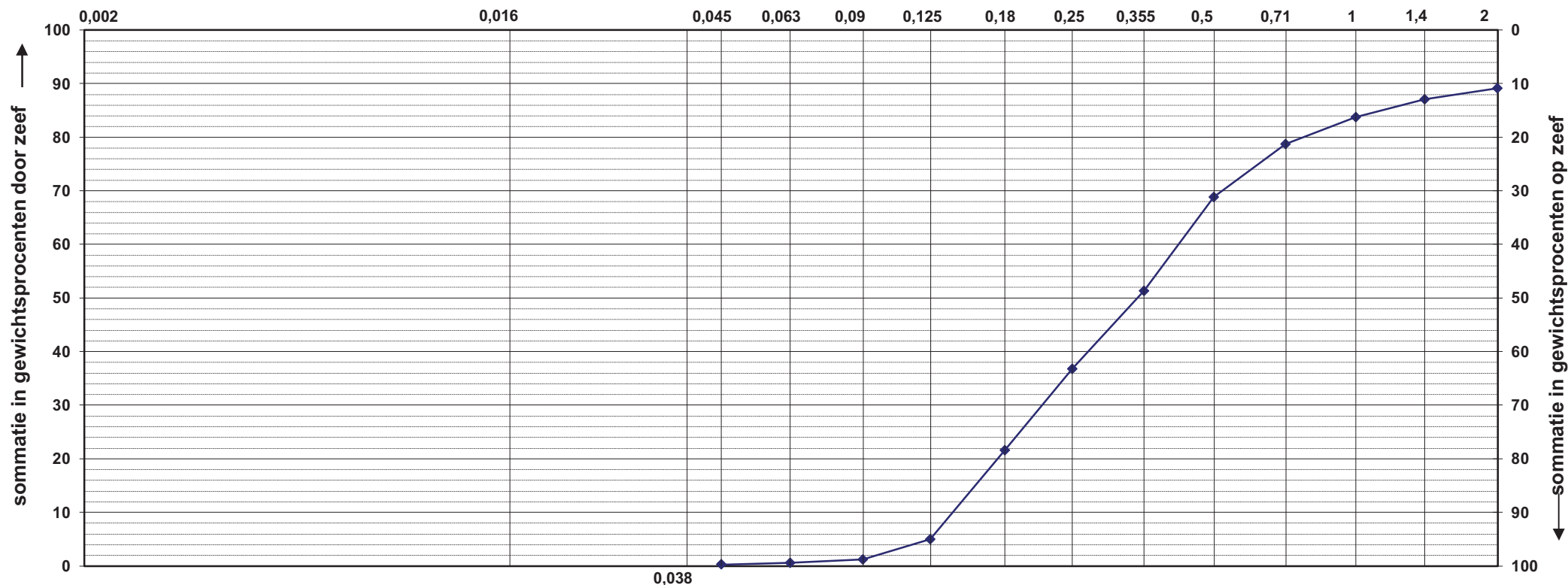
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
15,3-16,0 -m	3,9	95,1	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,335	0,258	2,1	0,254	2,01

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

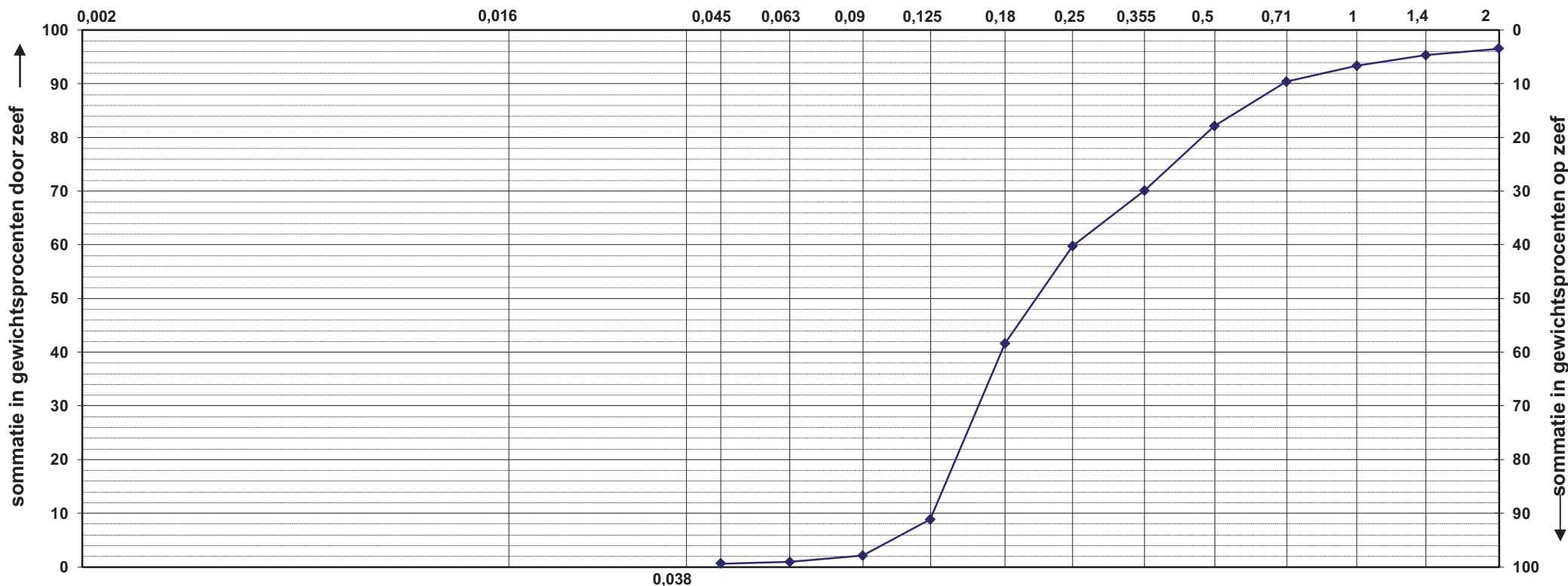
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0.002-0.063mm %	lutum <0.002mm %
17,0-18,0 -m	10,8	88,6	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,521	0,344	3,0	0,304	2,70

Tabel uitgedrukt in massapercentages
van de stooftroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

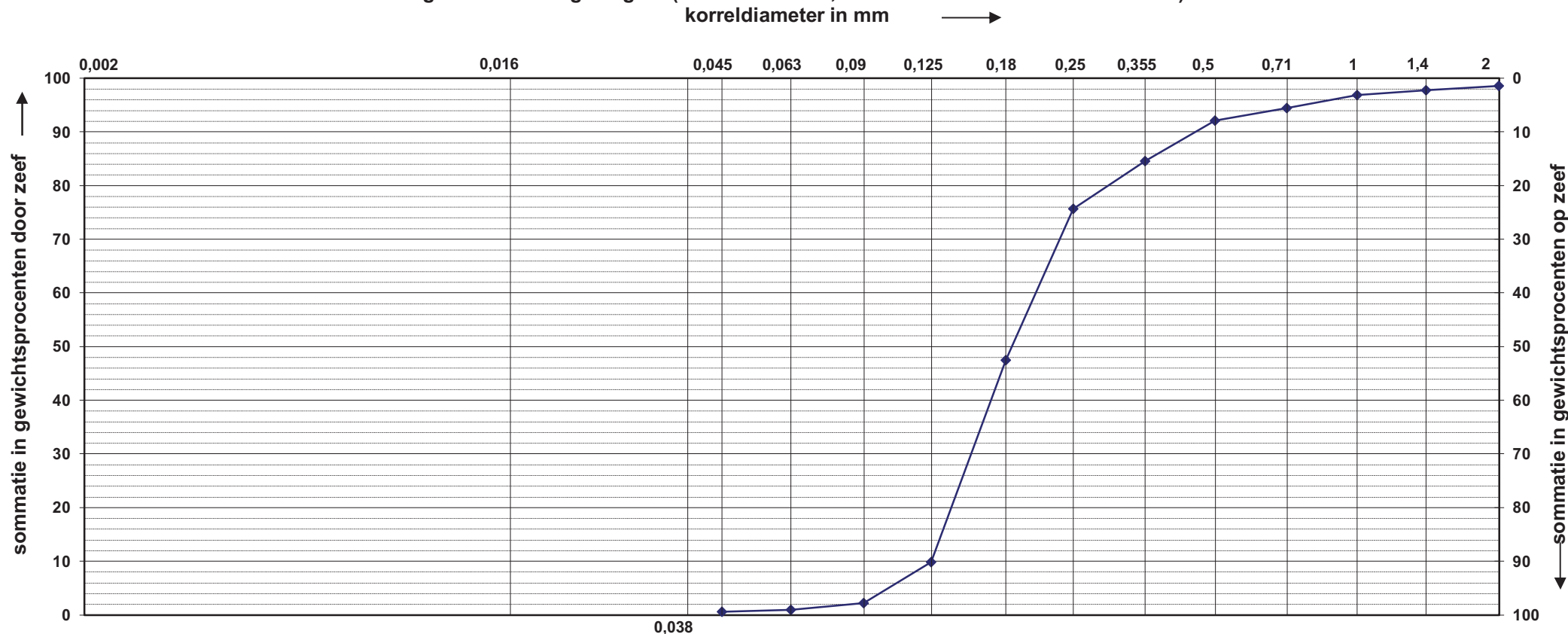
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
19,0-20,0 -m	3,4	95,6	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,354	0,209	2,0	0,205	1,91

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

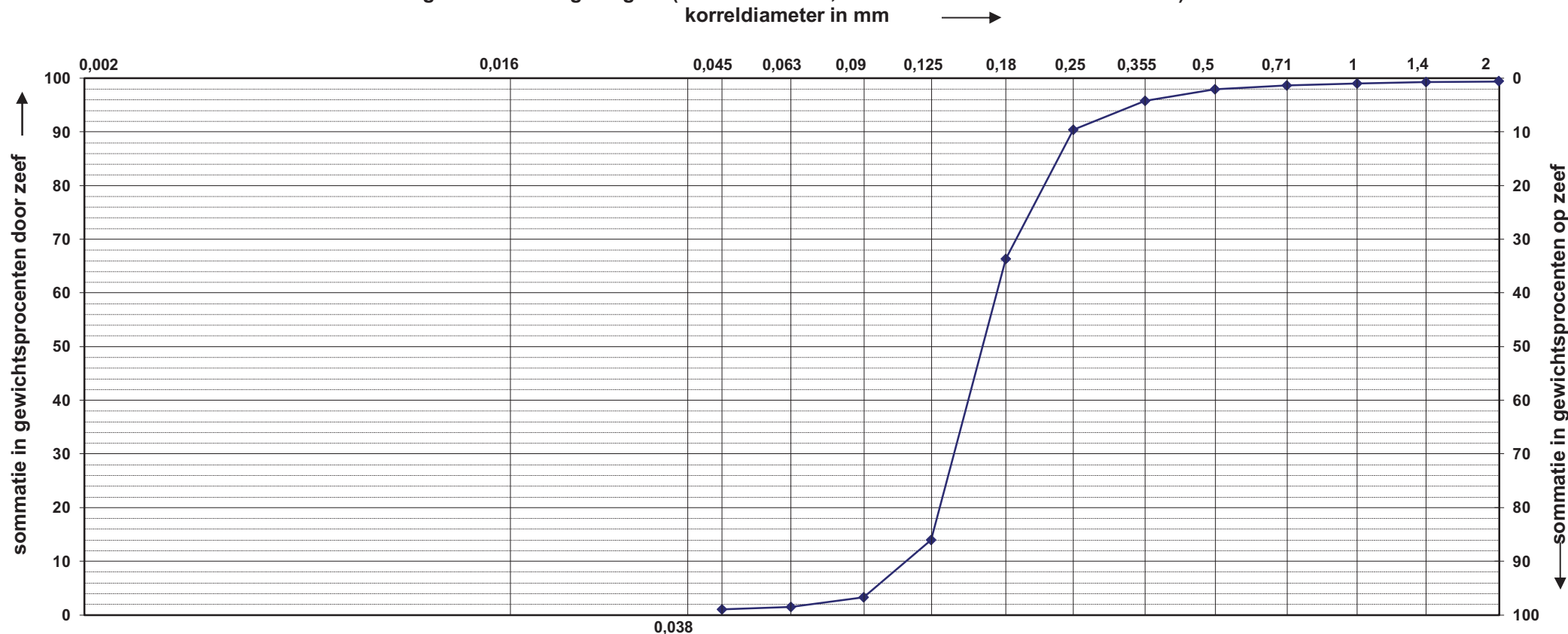
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
21,0-22,0 -m	1,4	97,6	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,234	0,185	1,7	0,185	1,64

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO3 en inclusief Fe2O3)



samenstelling monster (inclusief humus, CaCO3 en Fe2O3)

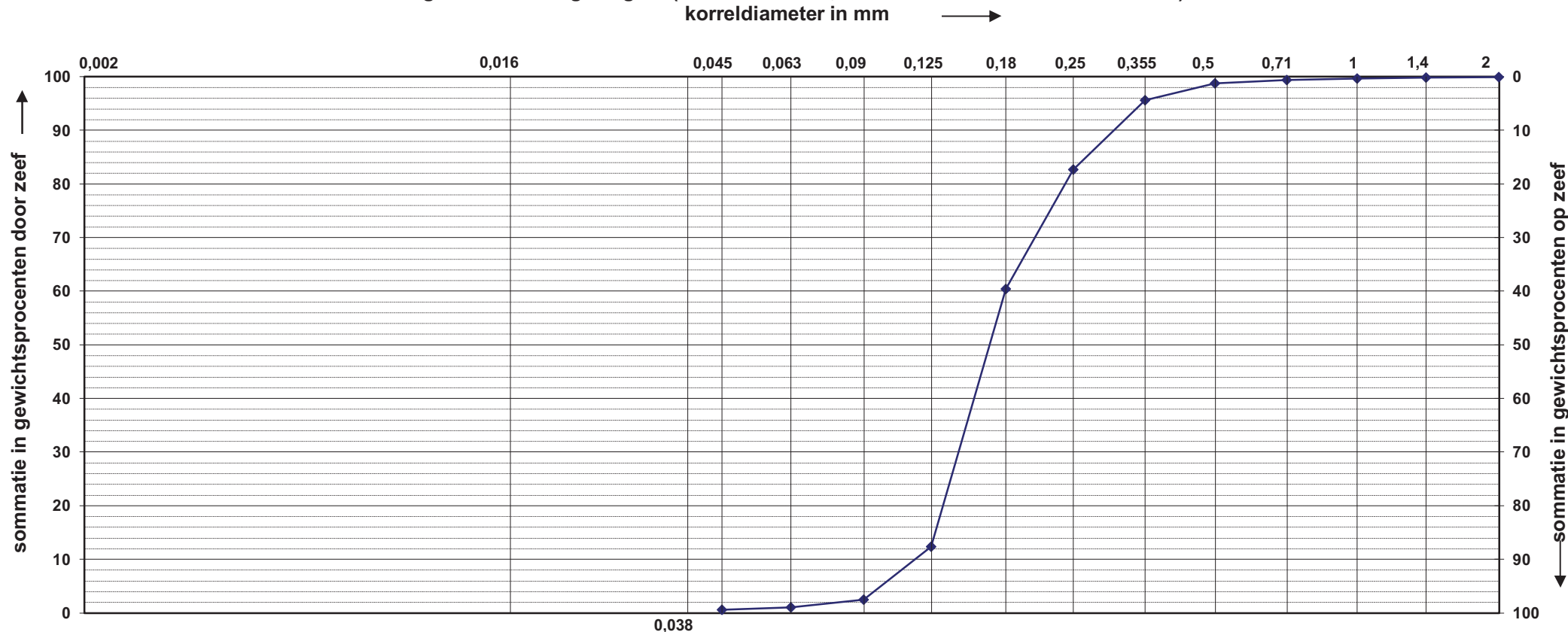
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
23,0-24,0 -m	0,6	98,0	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,189	0,161	1,6	0,161	1,50

Tabel uitgedrukt in massapercentages
van de stooftroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

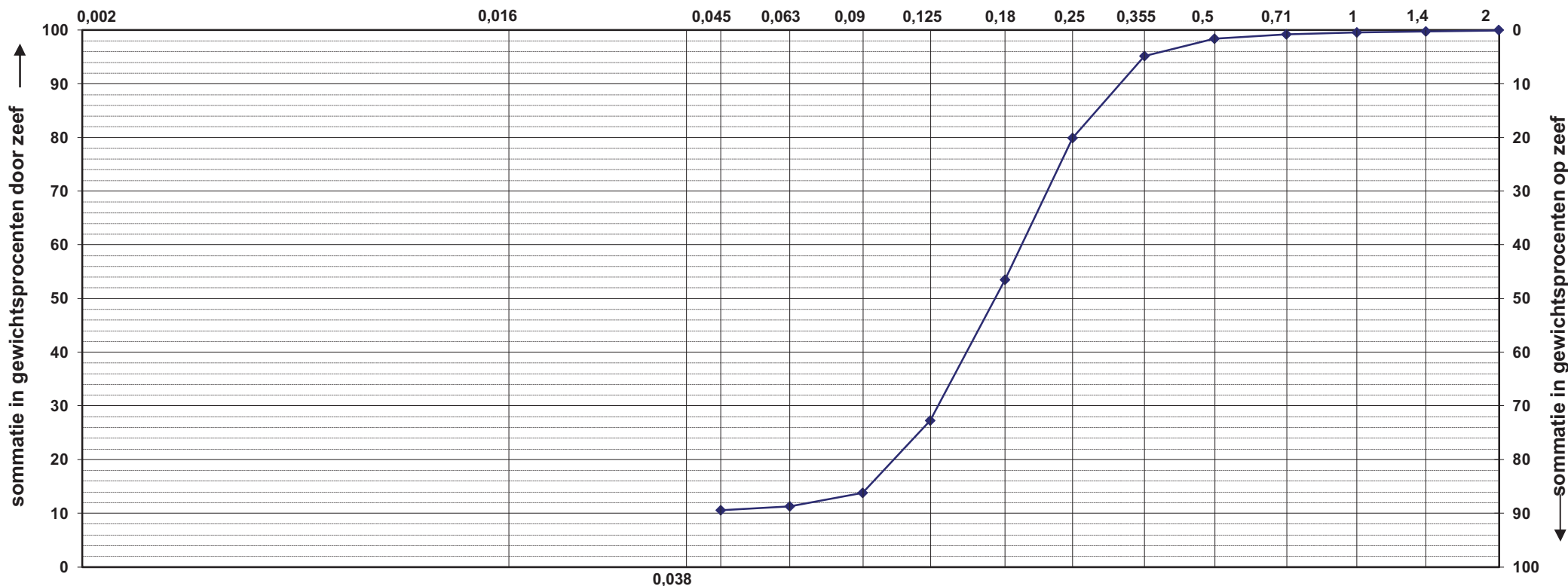
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
25,0-26,0 -m	0,1	98,9	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,207	0,166	1,6	0,167	1,51

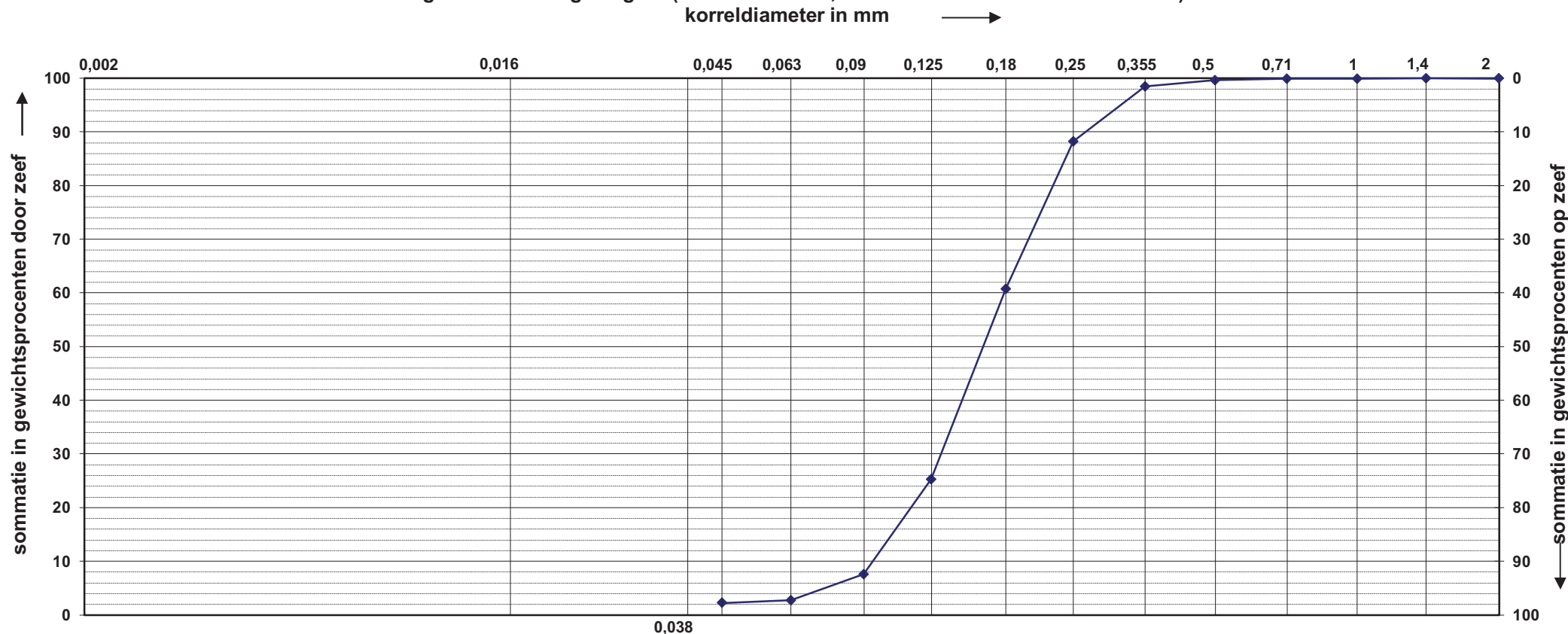
Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
 korreldiameter in mm →



korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

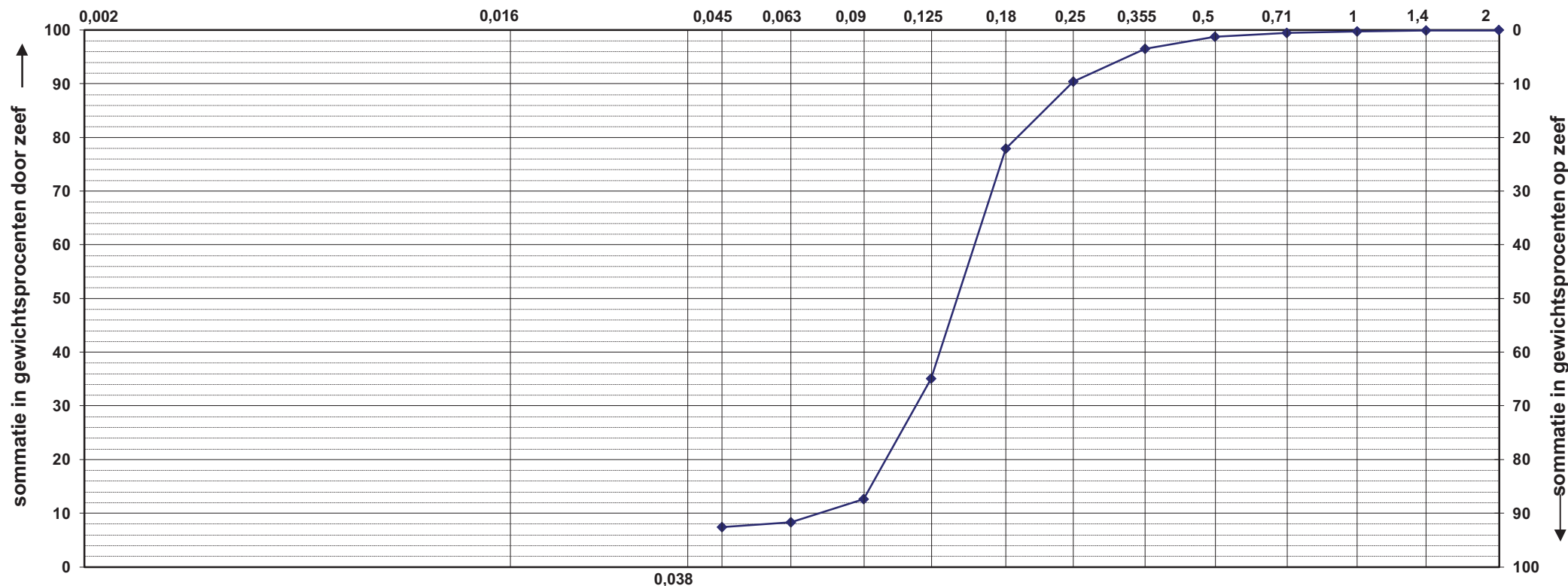
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
29,0-30,0 m-mv	0,0	97,2	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,201	0,161	1,9	0,163	1,83

Tabel uitgedrukt in massapercentages
van de stoffdroge grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)
korreldiameter in mm →



samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

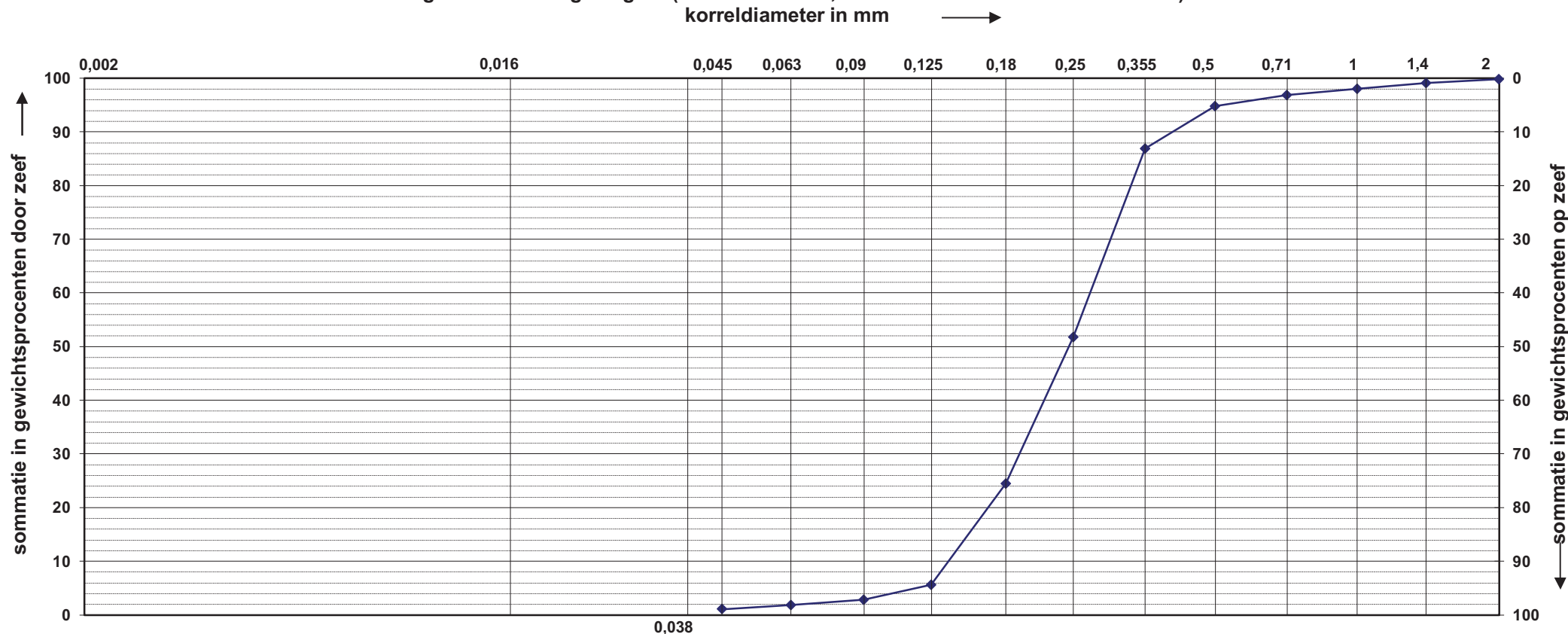
identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
33,45-34,0 m-mv	0,0	91,6	-	-

D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,168	0,142	2,1	0,147	1,65

Tabel uitgedrukt in massapercentages
van de stoofdroke grond

opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	

korrelgrootteverdelingsdiagram(inclusief humus, inclusief CaCO₃ en inclusief Fe₂O₃)



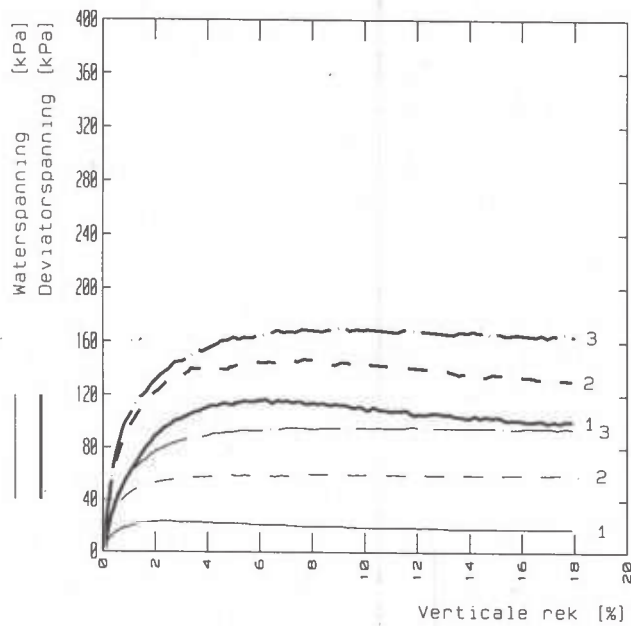
samenstelling monster (inclusief humus, CaCO₃ en Fe₂O₃)

identificatie monster	grind >2 mm %	zand 0.063-2mm %	silt 0,002-0,063mm %	lutum <0,002mm %
37,6-38,0 m-mv	0,2	98,0	-	-

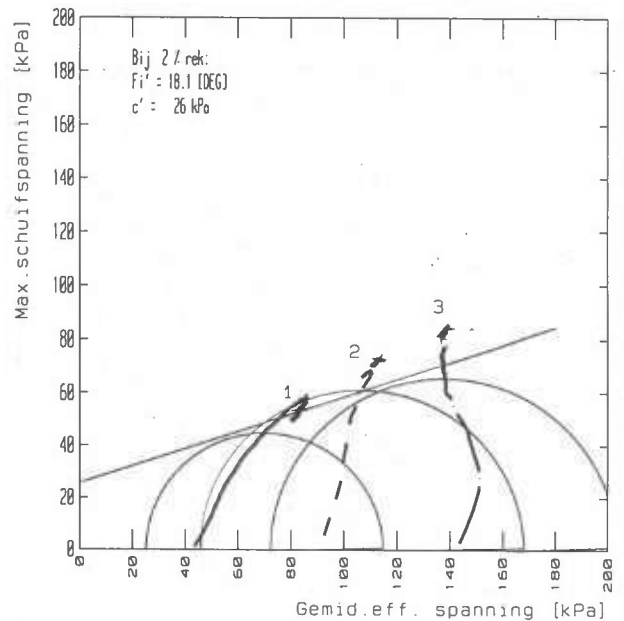
D70 [mm]	D50 [mm]	D60/D10	M50 (0.063-2mm) [mm]	D60/D10 (0.063-2mm)
0,300	0,245	2,0	0,247	1,94

Tabel uitgedrukt in massapercentages
van de stooftroge grond

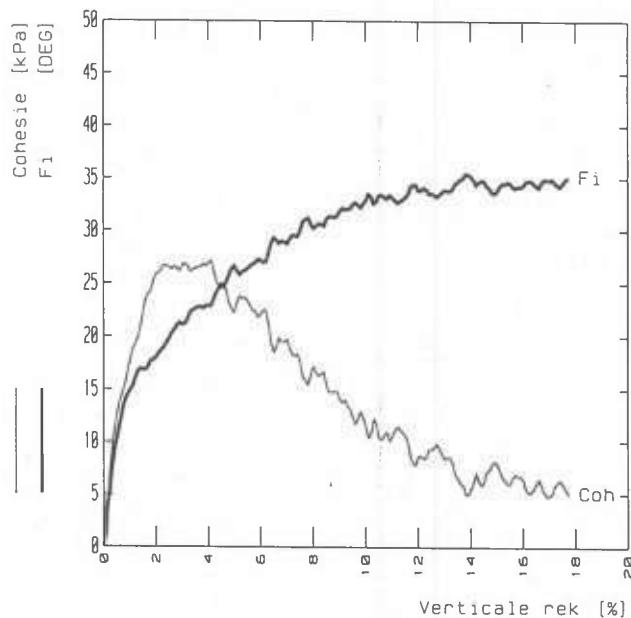
opdrachtgever Vander Straaten	monsterklasse : 3	datum: 2-3-2021	boringnummer: B002
laborant: ED	projectleider:	mapnr.: 2021-015	hoogteligging: MV tov NAP: 4,95m
GEMEENTE ROTTERDAM INGENIEURSBUREAU		project: MVJ21031 Vlissingen Oost	
Veld- en Laboratoriummetingen Gww		KORRELGROOTTEVERDELING	



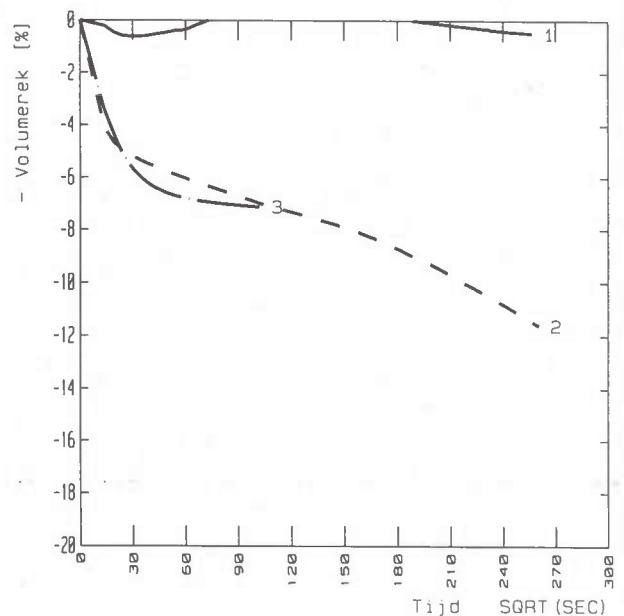
Verloop deviator- en waterspanning



Spanningspad



Mobilisatie curve



Verloop isotrope consolidatie

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50	E-50	B-waarde
	kN/m3	kN/m3	%	Celdr kPa	Backpr kPa	Tijd uren	dV/V %	
1	17.2	11.7	47.5	349	301	18.3	.5	+1.0 +57E+02 0.96
2	17.1	11.6	47.7	401	300	18.8	11.6	+0.7 +10E+03 0.97
3	17.3	12.1	42.7	449	300	2.9	7.1	+0.7 +12E+03 0.96

Type proef CU : Single stage
 Deformatie 5.4 %/uur
 Laborant E.Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2
 Monsterdiepte MV - 4.60 m
 Grondsoort Klei, z za., z hu.
 Monsterklasse 1
 Datum proef 16 Mar 2021

MV NAP +4.95 m
 NAP +.35 m

Print dd. 24 Mar 2021
 File: V02T4 F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2
 Diepte NAP : .35
 Terrein sp : 0
 Datum : 16 Mar 2021
 Grondcode : Kz1h1
 Grondsoort : Klei, z za., z hu.
 Gn-gem kN/m3 : 17.2
 Gdr-gem kN/m3 : 11.8
 W-gem % : 46.0
 Type proef : CU Uitvoering : S Cohesie 0 : N
 Deelproeven : 3 Monsterklasse : 1 Procedure : -
 Deformatie : 5.4 %/uur
 Bestand : VO2T4.A00

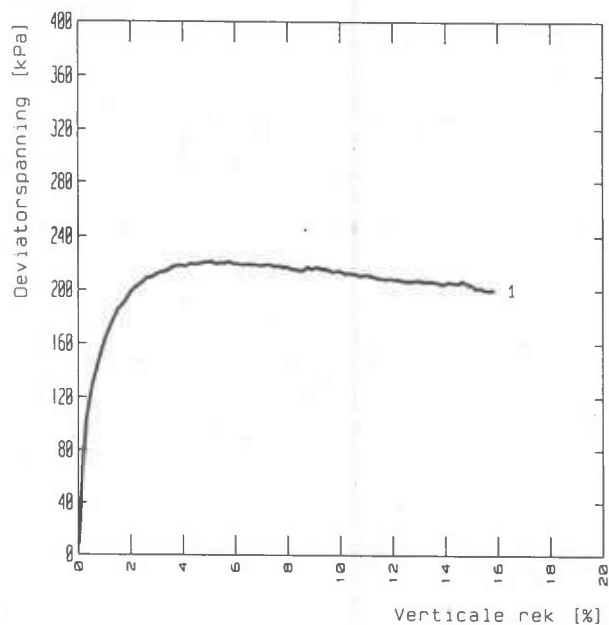
MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	48.0	0.0	0.00	101.0	0.0	0.00	149.0	0.0	0.00
.1	3.4	1.3	44.6	3.4	0.00	93.2	7.9	0.00	146.5	9.5	0.00
.2	5.3	6.5	48.0	9.5	0.00	96.5	18.2	0.00	149.8	19.0	0.00
.3	7.6	9.4	50.3	14.1	0.00	98.8	26.1	0.00	151.1	27.6	0.00
.4	9.3	11.2	51.6	17.3	0.00	99.4	31.1	0.00	150.2	33.4	0.00
.5	10.5	12.8	52.8	20.2	0.00	99.6	34.6	0.00	148.7	37.8	0.00
.6	11.7	13.9	54.0	22.6	0.00	100.2	37.9	0.00	147.5	41.6	0.00
.7	13.0	14.7	55.0	24.7	0.00	100.8	40.8	0.00	146.6	45.3	0.00
.8	14.0	15.5	56.2	26.8	0.00	101.3	43.4	0.00	145.2	48.3	0.00
.9	14.6	16.7	57.4	28.7	0.00	101.6	45.7	0.00	144.0	50.4	0.00
1.0	15.0	17.8	58.6	30.3	0.00	102.0	47.7	0.00	142.9	51.9	0.00
1.1	15.3	18.8	59.4	31.9	0.00	102.1	49.3	0.00	141.9	53.5	0.00
1.2	16.1	19.3	60.4	33.4	0.00	102.5	50.8	0.00	141.1	55.7	0.00
1.3	16.7	19.9	61.4	35.0	0.00	103.1	52.5	0.00	140.6	57.6	0.00
1.4	17.0	21.0	62.6	36.6	0.00	103.8	54.0	0.00	139.8	58.9	0.00
1.5	16.9	22.3	63.9	38.2	0.00	104.6	55.6	0.00	138.8	59.6	0.00
1.6	16.9	23.6	65.4	39.7	0.00	104.9	57.0	0.00	138.4	60.6	0.00
1.7	17.2	24.1	66.6	40.9	0.00	105.3	58.1	0.00	138.1	61.8	0.00
1.8	17.8	24.3	67.3	42.1	0.00	105.9	59.1	0.00	138.2	63.4	0.00
1.9	17.8	25.3	68.6	43.6	0.00	106.5	60.0	0.00	138.3	64.6	0.00
2.0	18.1	25.9	69.8	44.8	0.00	106.8	61.1	0.00	137.8	65.6	0.00
3.0	21.2	26.7	76.3	51.3	0.00	110.1	67.1	0.00	136.9	72.9	0.00
4.0	23.0	26.9	81.1	55.6	0.00	111.6	70.0	0.00	137.5	77.5	0.00
5.0	26.7	22.3	83.3	56.7	0.00	110.9	70.8	0.00	138.5	81.5	0.00
6.0	27.2	22.1	85.6	58.3	0.00	113.2	72.5	0.00	138.3	82.3	0.00
7.0	28.8	19.8	85.4	58.0	0.00	113.7	73.0	0.00	138.6	83.6	0.00
8.0	30.3	17.2	85.4	57.3	0.00	113.8	73.5	0.00	138.9	84.2	0.00
9.0	31.9	14.1	84.8	56.4	0.00	112.5	72.2	0.00	139.1	85.1	0.00
10.0	32.9	11.6	84.0	54.9	0.00	112.4	71.9	0.00	138.5	84.5	0.00
11.0	33.2	10.6	83.4	54.0	0.00	111.6	71.1	0.00	137.8	83.8	0.00
12.0	33.9	8.7	83.1	53.1	0.00	111.3	70.3	0.00	138.0	83.7	0.00
13.0	33.9	8.5	82.8	52.8	0.00	110.5	69.5	0.00	137.1	83.1	0.00
14.0	35.3	5.6	82.5	51.8	0.00	108.9	68.3	0.00	137.6	83.6	0.00
15.0	33.8	8.0	82.0	52.0	0.00	108.9	67.9	0.00	137.4	82.8	0.00

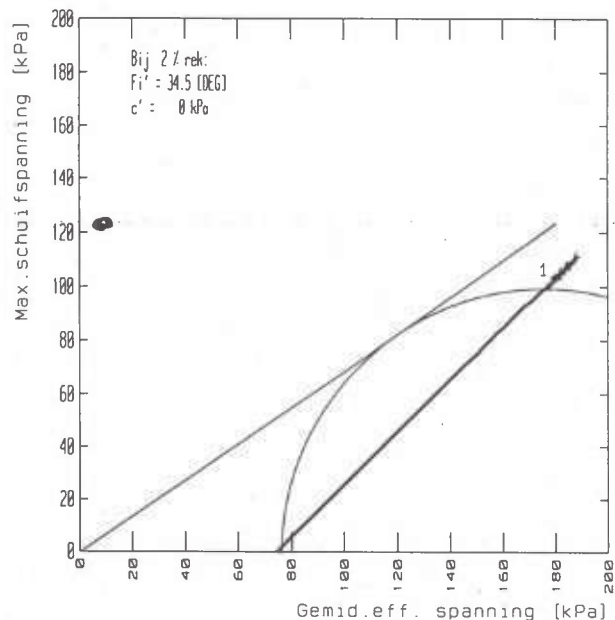
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
17.2	11.7	47.5	48	574.1E+1	1.0	.50	0.0
17.1	11.6	47.7	101	103.3E+2	.7	.50	0.0
17.3	12.1	42.7	149	115.3E+2	.7	.50	0.0

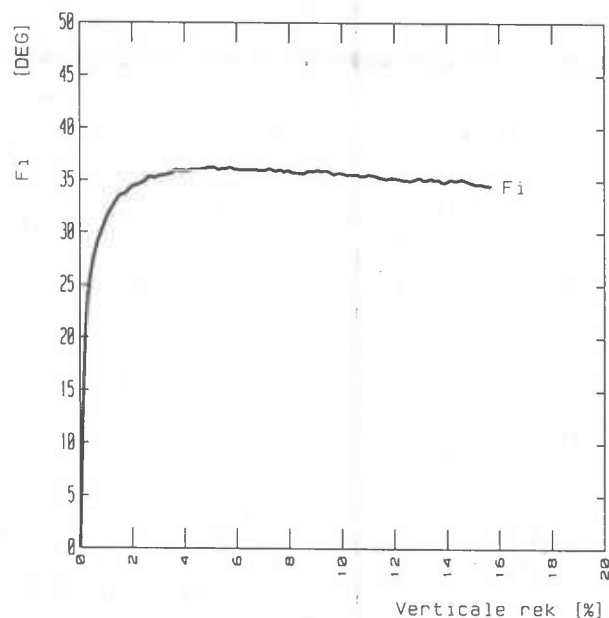
EINDE BESTAND



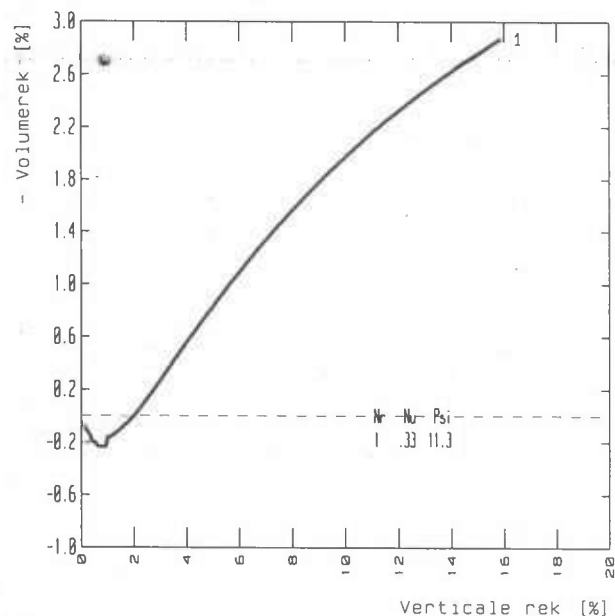
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50		E-50	B-waarde	
	kN/m ³	kN/m ³	%	Celldr kPa	Backpr kPa	Tijd uren	dV/V %	%	kPa	
1	19.2	15.1	27.1	374	300	1.6	1.2	+0.4	+29E+03	0.97

Type proef CD : Single stage
 Deformatie 5.3 %/uur
 Laborant E.Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 LOS
 Monsterdiepte MV -12.50 m
 Grondsoort Zand2, z si., z hu.
 Monsterklasse 3
 Datum proef 12 Mar 2021
 MV NAP +4.95 m
 NAP -7.55 m
 Print dd. 24 Mar 2021
 File: V02T1 F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIALPROEF

B2 LOS
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 LOS
 Diepte NAP : -7.55
 Terrein sp : 0
 Datum : 12 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 19.2
 Gdr-gem kN/m3 : 15.1
 W-gem % : 27.1
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.3 %/uur
 Bestand : VO2T1.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	74.0	0.0	0.00	299.0	0.0	0.00	449.0	0.0	0.00
.1	12.4	0.0	94.3	20.3	.08	0.0	0.0	0.00	0.0	0.0	0.00
.2	20.1	0.0	112.9	38.9	.11	0.0	0.0	0.00	0.0	0.0	0.00
.3	24.2	0.0	125.4	51.4	.13	0.0	0.0	0.00	0.0	0.0	0.00
.4	26.1	0.0	132.0	58.0	.19	0.0	0.0	0.00	0.0	0.0	0.00
.5	27.5	0.0	137.5	63.5	.20	0.0	0.0	0.00	0.0	0.0	0.00
.6	28.6	0.0	141.8	67.8	.22	0.0	0.0	0.00	0.0	0.0	0.00
.7	29.4	0.0	145.6	71.5	.23	0.0	0.0	0.00	0.0	0.0	0.00
.8	30.1	0.0	149.5	74.9	.23	0.0	0.0	0.00	0.0	0.0	0.00
.9	30.8	0.0	152.8	78.1	.23	0.0	0.0	0.00	0.0	0.0	0.00
1.0	31.4	0.0	155.9	81.2	.16	0.0	0.0	0.00	0.0	0.0	0.00
1.1	31.9	0.0	158.9	84.1	.15	0.0	0.0	0.00	0.0	0.0	0.00
1.2	32.3	0.0	161.3	86.3	.14	0.0	0.0	0.00	0.0	0.0	0.00
1.3	32.8	0.0	163.5	88.5	.12	0.0	0.0	0.00	0.0	0.0	0.00
1.4	33.2	0.0	165.6	90.6	.11	0.0	0.0	0.00	0.0	0.0	0.00
1.5	33.6	0.0	167.8	92.8	.09	0.0	0.0	0.00	0.0	0.0	0.00
1.6	33.7	0.0	169.2	93.8	.07	0.0	0.0	0.00	0.0	0.0	0.00
1.7	33.7	0.0	170.7	94.8	.05	0.0	0.0	0.00	0.0	0.0	0.00
1.8	34.0	0.0	172.3	96.3	.03	0.0	0.0	0.00	0.0	0.0	0.00
1.9	34.2	0.0	173.8	97.8	.01	0.0	0.0	0.00	0.0	0.0	0.00
2.0	34.5	0.0	175.7	99.4	-.01	0.0	0.0	0.00	0.0	0.0	0.00
3.0	35.4	0.0	183.3	106.3	-.28	0.0	0.0	0.00	0.0	0.0	0.00
4.0	35.9	0.0	186.2	109.2	-.57	0.0	0.0	0.00	0.0	0.0	0.00
5.0	36.2	0.0	187.3	110.7	-.84	0.0	0.0	0.00	0.0	0.0	0.00
6.0	36.0	0.0	186.9	109.9	-1.10	0.0	0.0	0.00	0.0	0.0	0.00
7.0	35.9	0.0	186.4	109.4	-1.34	0.0	0.0	0.00	0.0	0.0	0.00
8.0	35.9	0.0	185.3	108.6	-1.57	0.0	0.0	0.00	0.0	0.0	0.00
9.0	35.9	0.0	184.7	108.4	-1.78	0.0	0.0	0.00	0.0	0.0	0.00
10.0	35.7	0.0	183.7	107.1	-1.98	0.0	0.0	0.00	0.0	0.0	0.00
11.0	35.5	0.0	182.3	105.9	-2.17	0.0	0.0	0.00	0.0	0.0	0.00
12.0	35.2	0.0	180.8	104.2	-2.33	0.0	0.0	0.00	0.0	0.0	0.00
13.0	35.2	0.0	180.3	103.9	-2.49	0.0	0.0	0.00	0.0	0.0	0.00
14.0	34.9	0.0	179.8	102.8	-2.63	0.0	0.0	0.00	0.0	0.0	0.00
15.0	34.7	0.0	179.0	102.0	-2.76	0.0	0.0	0.00	0.0	0.0	0.00

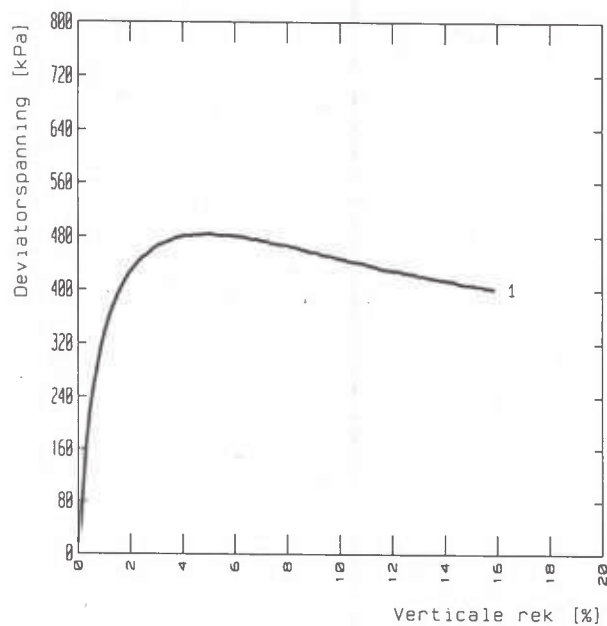
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
19.2	15.1	27.1	74	289.4E+2	.4	.33	11.3

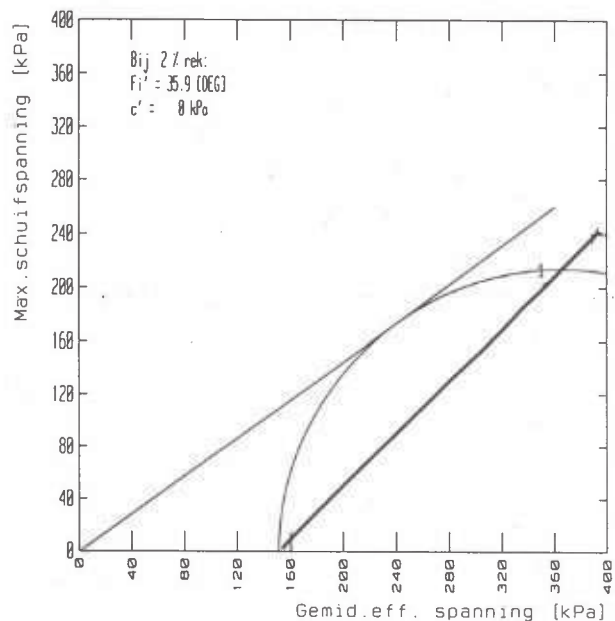
*

*

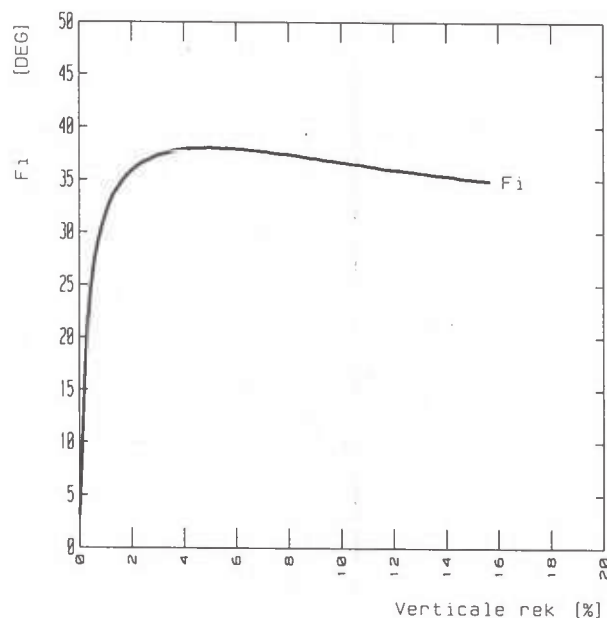
EINDE BESTAND



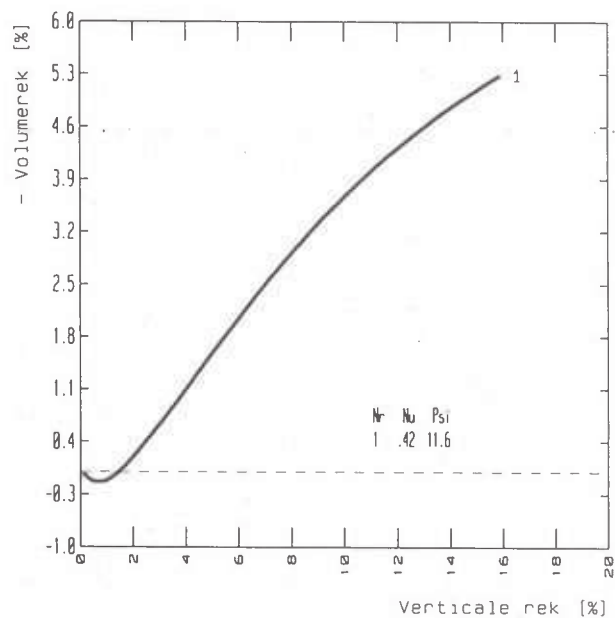
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50		E-50	B-waarde	
	kN/m3	kN/m3	%	Celldr kPa	Backpr kPa	Tijd uren	dV/V %	kPa		
1	19.5	15.6	25.0	449	299	.9	.5	+0.5	+45E+03	0.96

Type proef CD : Single stage
 Deformatie 5.1 %/uur
 Laborant E.Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 MATIG
 Monsterdiepte MV -12.50 m
 Grondsoort Zand2, z si., z hu.
 Monsterklasse 3
 Datum proef 15 Mar 2021
 MV NAP +4.95 m
 NAP -7.55 m
 Print dd: 24 Mar 2021
 File: V02T2.F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2 MATIG
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 MATIG
 Diepte NAP : -7.55
 Terrein sp : 0
 Datum : 15 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 19.5
 Gdr-gem kN/m3 : 15.6
 W-gem % : 25.0
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.1 %/uur
 Bestand : VO2T2.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	150.0	0.0	0.00	299.0	0.0	0.00	449.0	0.0	0.00
.1	9.4	0.0	178.3	29.1	.02	0.0	0.0	0.00	0.0	0.0	0.00
.2	16.3	0.0	207.3	58.3	.05	0.0	0.0	0.00	0.0	0.0	0.00
.3	21.3	0.0	233.9	84.9	.08	0.0	0.0	0.00	0.0	0.0	0.00
.4	24.2	0.0	252.5	103.5	.10	0.0	0.0	0.00	0.0	0.0	0.00
.5	26.3	0.0	267.8	118.8	.12	0.0	0.0	0.00	0.0	0.0	0.00
.6	27.9	0.0	280.3	131.3	.12	0.0	0.0	0.00	0.0	0.0	0.00
.7	29.1	0.0	291.2	141.7	.12	0.0	0.0	0.00	0.0	0.0	0.00
.8	30.2	0.0	302.4	152.0	.12	0.0	0.0	0.00	0.0	0.0	0.00
.9	31.0	0.0	311.8	160.8	.11	0.0	0.0	0.00	0.0	0.0	0.00
1.0	31.8	0.0	319.3	168.3	.10	0.0	0.0	0.00	0.0	0.0	0.00
1.1	32.5	0.0	326.0	175.2	.08	0.0	0.0	0.00	0.0	0.0	0.00
1.2	33.2	0.0	332.0	181.6	.06	0.0	0.0	0.00	0.0	0.0	0.00
1.3	33.7	0.0	337.0	186.9	.03	0.0	0.0	0.00	0.0	0.0	0.00
1.4	34.0	0.0	342.0	191.5	0.00	0.0	0.0	0.00	0.0	0.0	0.00
1.5	34.4	0.0	347.4	196.4	-.03	0.0	0.0	0.00	0.0	0.0	0.00
1.6	34.8	0.0	351.7	200.7	-.06	0.0	0.0	0.00	0.0	0.0	0.00
1.7	35.1	0.0	355.5	204.5	-.10	0.0	0.0	0.00	0.0	0.0	0.00
1.8	35.4	0.0	359.1	208.1	-.13	0.0	0.0	0.00	0.0	0.0	0.00
1.9	35.7	0.0	362.2	211.2	-.17	0.0	0.0	0.00	0.0	0.0	0.00
2.0	35.9	0.0	365.1	214.1	-.21	0.0	0.0	0.00	0.0	0.0	0.00
3.0	37.3	0.0	383.9	232.9	-.64	0.0	0.0	0.00	0.0	0.0	0.00
4.0	37.9	0.0	391.5	240.5	-1.11	0.0	0.0	0.00	0.0	0.0	0.00
5.0	38.0	0.0	393.1	242.1	-1.59	0.0	0.0	0.00	0.0	0.0	0.00
6.0	37.9	0.0	391.5	240.5	-2.06	0.0	0.0	0.00	0.0	0.0	0.00
7.0	37.6	0.0	387.9	236.9	-2.51	0.0	0.0	0.00	0.0	0.0	0.00
8.0	37.4	0.0	384.4	233.4	-2.93	0.0	0.0	0.00	0.0	0.0	0.00
9.0	37.0	0.0	379.5	228.5	-3.32	0.0	0.0	0.00	0.0	0.0	0.00
10.0	36.6	0.0	374.5	223.5	-3.68	0.0	0.0	0.00	0.0	0.0	0.00
11.0	36.3	0.0	370.2	219.2	-4.02	0.0	0.0	0.00	0.0	0.0	0.00
12.0	35.9	0.0	365.6	214.6	-4.32	0.0	0.0	0.00	0.0	0.0	0.00
13.0	35.6	0.0	361.8	210.8	-4.60	0.0	0.0	0.00	0.0	0.0	0.00
14.0	35.4	0.0	358.5	207.5	-4.86	0.0	0.0	0.00	0.0	0.0	0.00
15.0	35.1	0.0	355.0	204.0	-5.10	0.0	0.0	0.00	0.0	0.0	0.00

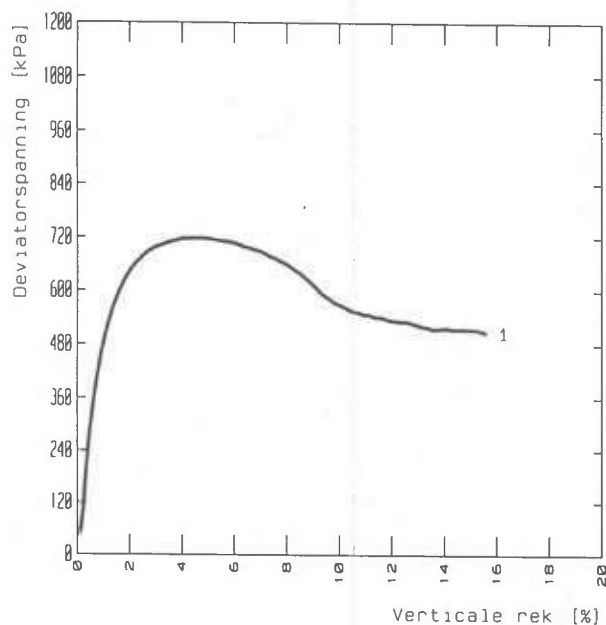
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
19.5	15.6	25.0	150	452.3E+2	.5	.42	11.6

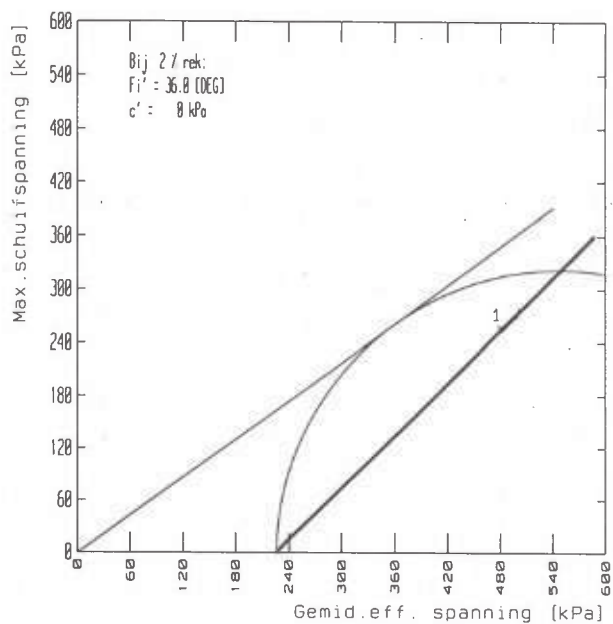
*

*

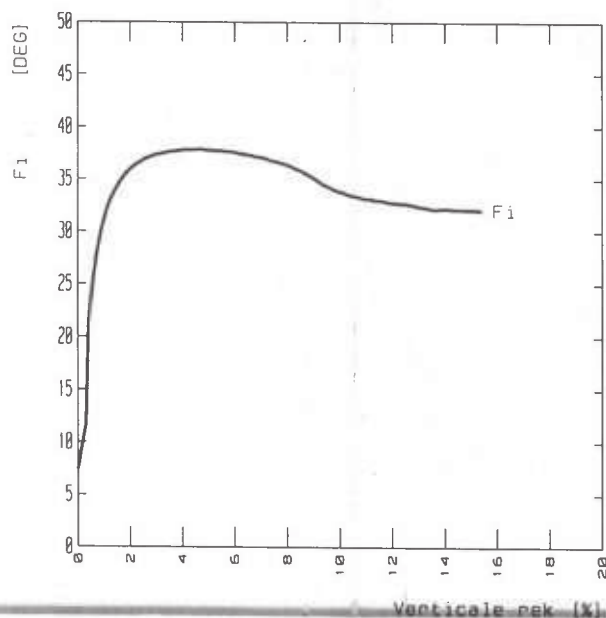
EINDE BESTAND



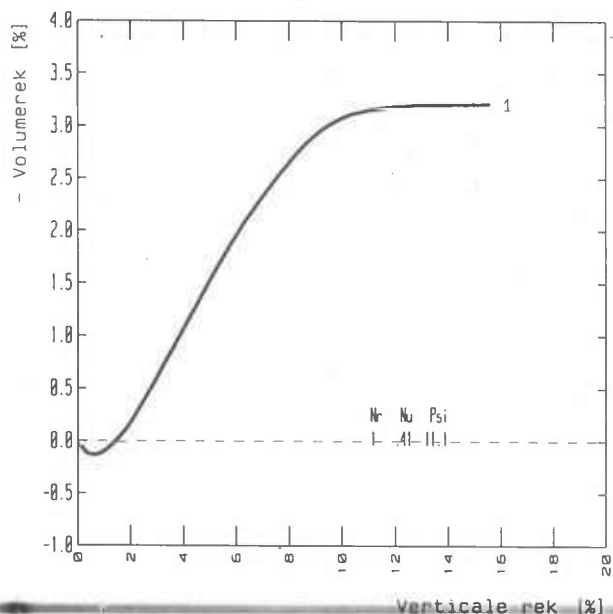
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50	E-50	B-waarde
	kN/m ³	kN/m ³	%	Celldr kPa	Backpr kPa	Tijd uren	dV/V %	
1	20.2	16.7	20.9	524	299	.4	2.0	+0.6 +55E+03 0.97

Type proef CD : Single stage
 Deformatie 5.3 %/uur
 Laborant E.Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 VAST
 Monsterdiepte MV -12.50 m
 Grondsoort Zand2, z si., z hu.
 Monsterklasse 3
 Datum proef 12 Mar 2021
 MV NAP +4.95 m
 NAP -7.55 m
 Print dd 24 Mar 2021
 File: V02T3 F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2 VAST
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 VAST
 Diepte NAP : -7.55
 Terrein sp : 0
 Datum : 12 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 20.2
 Gdr-gem kN/m3 : 16.7
 W-gem % : 20.9
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.3 %/uur
 Bestand : VO2T3.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	225.0	0.0	0.00	299.0	0.0	0.00	449.0	0.0	0.00
.1	8.9	0.0	260.5	40.3	.03	0.0	0.0	0.00	0.0	0.0	0.00
.2	10.4	0.0	267.3	48.0	.03	0.0	0.0	0.00	0.0	0.0	0.00
.3	11.7	0.0	274.0	55.8	.03	0.0	0.0	0.00	0.0	0.0	0.00
.4	21.0	0.0	351.1	126.1	.12	0.0	0.0	0.00	0.0	0.0	0.00
.5	23.9	0.0	378.4	153.1	.12	0.0	0.0	0.00	0.0	0.0	0.00
.6	26.1	0.0	401.5	176.5	.12	0.0	0.0	0.00	0.0	0.0	0.00
.7	27.9	0.0	422.3	197.3	.12	0.0	0.0	0.00	0.0	0.0	0.00
.8	29.2	0.0	439.3	214.3	.12	0.0	0.0	0.00	0.0	0.0	0.00
.9	30.4	0.0	455.2	230.2	.10	0.0	0.0	0.00	0.0	0.0	0.00
1.0	31.3	0.0	468.5	243.5	.09	0.0	0.0	0.00	0.0	0.0	0.00
1.1	32.2	0.0	481.5	256.5	.07	0.0	0.0	0.00	0.0	0.0	0.00
1.2	32.9	0.0	492.1	267.0	.05	0.0	0.0	0.00	0.0	0.0	0.00
1.3	33.4	0.0	502.3	276.8	.02	0.0	0.0	0.00	0.0	0.0	0.00
1.4	33.9	0.0	511.3	285.4	-0.00	0.0	0.0	0.00	0.0	0.0	0.00
1.5	34.4	0.0	518.9	292.9	-.03	0.0	0.0	0.00	0.0	0.0	0.00
1.6	34.8	0.0	526.2	300.2	-.06	0.0	0.0	0.00	0.0	0.0	0.00
1.7	35.2	0.0	532.7	306.7	-.08	0.0	0.0	0.00	0.0	0.0	0.00
1.8	35.5	0.0	539.0	313.0	-.12	0.0	0.0	0.00	0.0	0.0	0.00
1.9	35.8	0.0	543.7	317.7	-.15	0.0	0.0	0.00	0.0	0.0	0.00
2.0	36.0	0.0	548.4	322.4	-.19	0.0	0.0	0.00	0.0	0.0	0.00
3.0	37.4	0.0	575.5	349.5	-.62	0.0	0.0	0.00	0.0	0.0	0.00
4.0	37.8	0.0	584.6	358.6	-1.07	0.0	0.0	0.00	0.0	0.0	0.00
5.0	37.8	0.0	585.0	358.7	-1.53	0.0	0.0	0.00	0.0	0.0	0.00
6.0	37.6	0.0	579.7	353.7	-1.96	0.0	0.0	0.00	0.0	0.0	0.00
7.0	37.1	0.0	570.5	344.5	-2.33	0.0	0.0	0.00	0.0	0.0	0.00
8.0	36.4	0.0	555.6	329.6	-2.66	0.0	0.0	0.00	0.0	0.0	0.00
9.0	35.1	0.0	532.4	306.4	-2.92	0.0	0.0	0.00	0.0	0.0	0.00
10.0	33.9	0.0	510.7	284.7	-3.08	0.0	0.0	0.00	0.0	0.0	0.00
11.0	33.2	0.0	499.6	273.6	-3.15	0.0	0.0	0.00	0.0	0.0	0.00
12.0	32.8	0.0	493.5	267.5	-3.18	0.0	0.0	0.00	0.0	0.0	0.00
13.0	32.5	0.0	488.1	262.1	-3.20	0.0	0.0	0.00	0.0	0.0	0.00
14.0	32.3	0.0	485.1	259.1	-3.20	0.0	0.0	0.00	0.0	0.0	0.00
15.0	32.2	0.0	482.9	257.2	-3.20	0.0	0.0	0.00	0.0	0.0	0.00

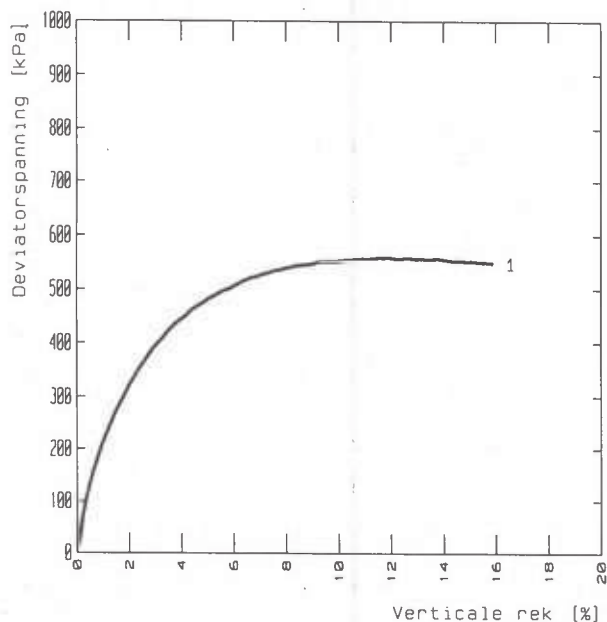
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
20.2	16.7	20.9	225	553.9E+2	.6	.41	11.1

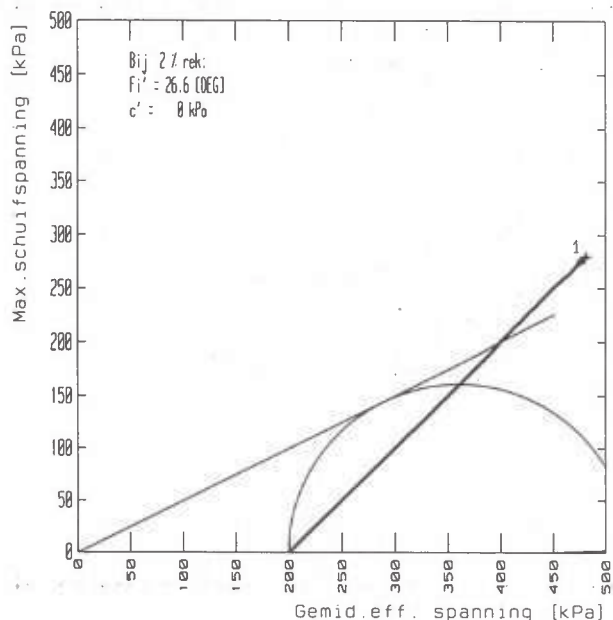
*

*

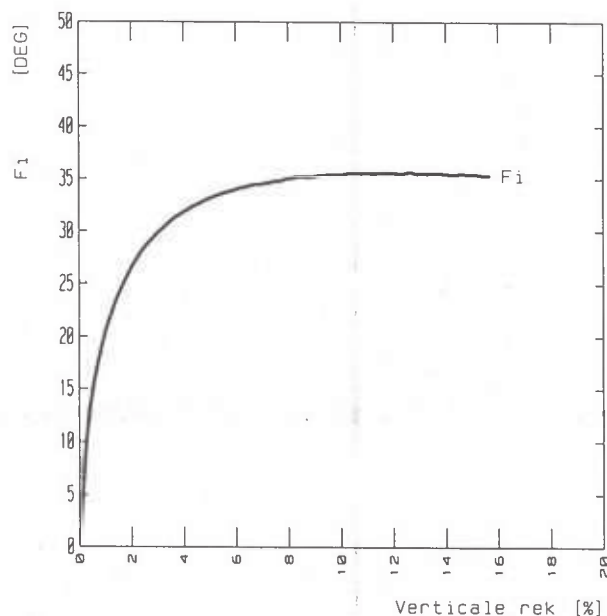
EINDE BESTAND



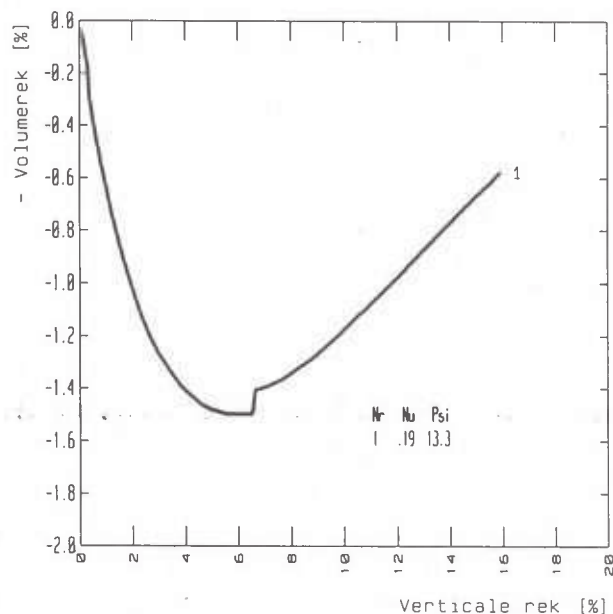
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50		E-50	B-waarde	
	kN/m ³	kN/m ³	%	Celldr kPa	Backpr kPa	Tijd uren	dV/V %	kPa		
1	18.6	14.2	31.4	399	200	1.1	1.9	+1.6	+18E+03	0.96

Type proef CD : Single stage
 Deformatie 5.4 %/uur
 Laborant E.Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 LOS
 Monsterdiepte MV -38.50 m
 Grondsoort Zand2, z si., z hu.
 Monsterklasse 3
 Datum proef 19 Mar 2021
 MV NAP +4.95 m
 NAP -33.55 m
 Print dd 24 Mar 2021
 File: V02TS.F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2 LOS
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 LOS
 Diepte NAP : -33.55
 Terrein sp : 0
 Datum : 19 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 18.6
 Gdr-gem kN/m3 : 14.2
 W-gem % : 31.4
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.4 %/uur
 Bestand : VO2T5.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	199.0	0.0	0.00	101.0	0.0	0.00	149.0	0.0	0.00
.1	4.5	0.0	215.4	16.7	.05	0.0	0.0	0.00	0.0	0.0	0.00
.2	8.6	0.0	233.7	35.0	.12	0.0	0.0	0.00	0.0	0.0	0.00
.3	11.4	0.0	247.7	49.1	.19	0.0	0.0	0.00	0.0	0.0	0.00
.4	13.4	0.0	258.3	59.7	.32	0.0	0.0	0.00	0.0	0.0	0.00
.5	15.0	0.0	268.2	69.3	.38	0.0	0.0	0.00	0.0	0.0	0.00
.6	16.3	0.0	276.8	77.8	.44	0.0	0.0	0.00	0.0	0.0	0.00
.7	17.5	0.0	284.9	85.9	.49	0.0	0.0	0.00	0.0	0.0	0.00
.8	18.6	0.0	292.5	93.5	.55	0.0	0.0	0.00	0.0	0.0	0.00
.9	19.7	0.0	300.3	101.4	.60	0.0	0.0	0.00	0.0	0.0	0.00
1.0	20.6	0.0	306.8	108.2	.64	0.0	0.0	0.00	0.0	0.0	0.00
1.1	21.4	0.0	312.8	114.2	.69	0.0	0.0	0.00	0.0	0.0	0.00
1.2	22.1	0.0	319.5	120.2	.73	0.0	0.0	0.00	0.0	0.0	0.00
1.3	22.8	0.0	325.5	126.2	.78	0.0	0.0	0.00	0.0	0.0	0.00
1.4	23.5	0.0	331.3	132.2	.82	0.0	0.0	0.00	0.0	0.0	0.00
1.5	24.1	0.0	336.3	137.3	.86	0.0	0.0	0.00	0.0	0.0	0.00
1.6	24.7	0.0	341.4	142.4	.89	0.0	0.0	0.00	0.0	0.0	0.00
1.7	25.1	0.0	346.0	147.0	.93	0.0	0.0	0.00	0.0	0.0	0.00
1.8	25.6	0.0	350.8	151.8	.96	0.0	0.0	0.00	0.0	0.0	0.00
1.9	26.1	0.0	355.7	156.7	.99	0.0	0.0	0.00	0.0	0.0	0.00
2.0	26.6	0.0	360.6	161.6	1.03	0.0	0.0	0.00	0.0	0.0	0.00
3.0	29.9	0.0	397.1	197.7	1.27	0.0	0.0	0.00	0.0	0.0	0.00
4.0	31.9	0.0	421.8	222.8	1.41	0.0	0.0	0.00	0.0	0.0	0.00
5.0	33.2	0.0	439.9	240.9	1.48	0.0	0.0	0.00	0.0	0.0	0.00
6.0	34.0	0.0	452.2	253.2	1.50	0.0	0.0	0.00	0.0	0.0	0.00
7.0	34.6	0.0	464.4	263.4	1.39	0.0	0.0	0.00	0.0	0.0	0.00
8.0	35.1	0.0	470.2	270.2	1.34	0.0	0.0	0.00	0.0	0.0	0.00
9.0	35.2	0.0	475.3	274.3	1.26	0.0	0.0	0.00	0.0	0.0	0.00
10.0	35.4	0.0	477.4	276.4	1.17	0.0	0.0	0.00	0.0	0.0	0.00
11.0	35.5	0.0	478.4	278.1	1.07	0.0	0.0	0.00	0.0	0.0	0.00
12.0	35.6	0.0	480.2	279.2	.98	0.0	0.0	0.00	0.0	0.0	0.00
13.0	35.5	0.0	479.0	278.2	.87	0.0	0.0	0.00	0.0	0.0	0.00
14.0	35.5	0.0	478.8	277.8	.77	0.0	0.0	0.00	0.0	0.0	0.00
15.0	35.4	0.0	476.2	276.2	.66	0.0	0.0	0.00	0.0	0.0	0.00

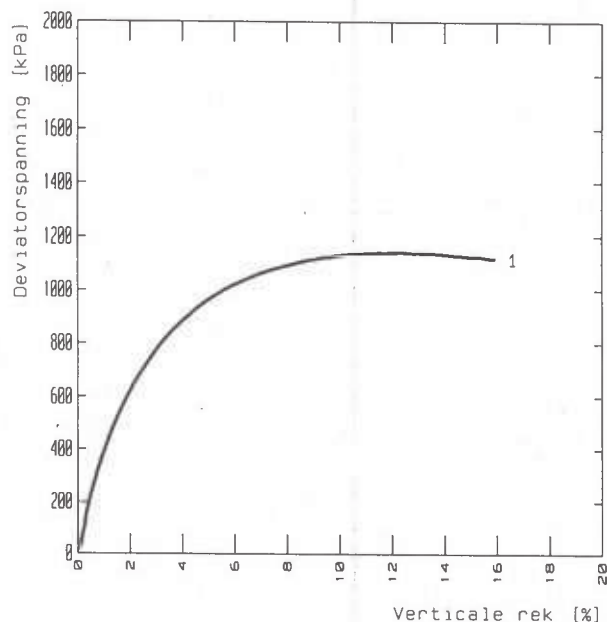
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
18.6	14.2	31.4	199	177.8E+2	1.6	.19	13.3

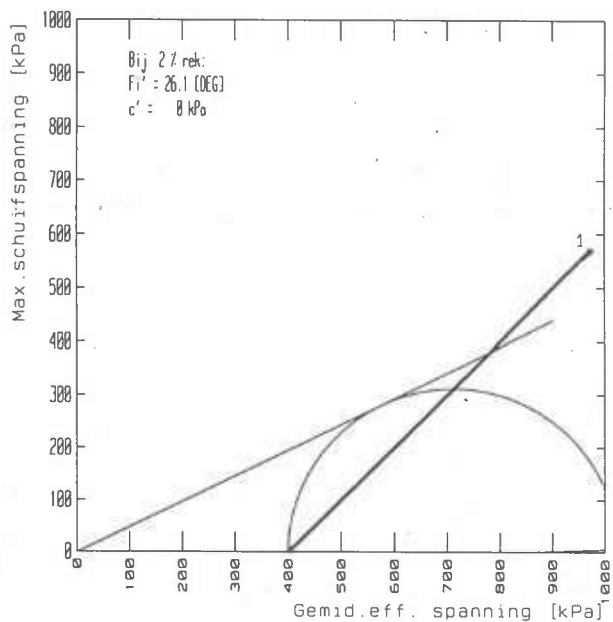
*

*

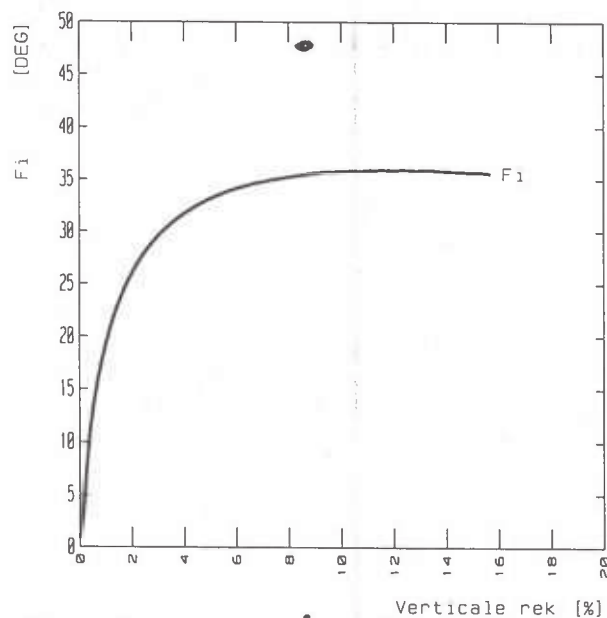
EINDE BESTAND



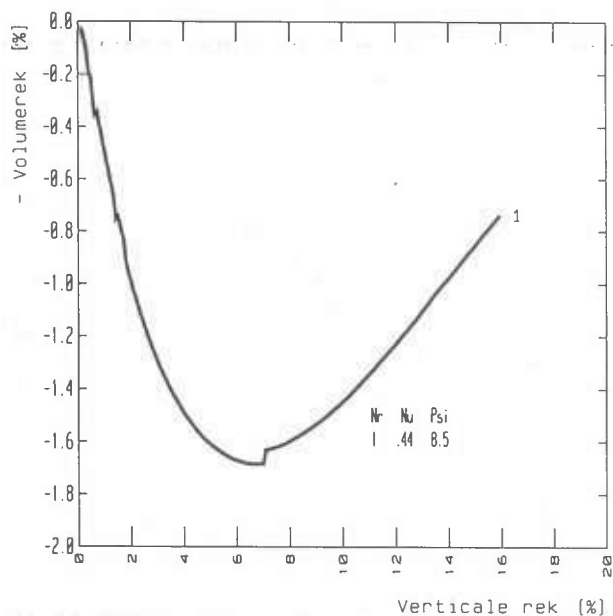
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens				Eps50	E-50	B-waarde
	kN/m ³	kN/m ³	%	Celldr kPa	Backpr kPa	Tijd uren	dV/V %	%	kPa	
1	19.2	15.1	27.0	599	200	1.1	2.9	+1.7	+33E+03	0.97

Type proef CD : Single stage
 Deformatie 5.2 %/uur
 Laborant E. Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 MATIG
 Monsterdiepte MV -38.50 m
 Grondsoort Zand2, z si., z hu.
 Monsterklasse 3
 Datum proef 19 Mar 2021
 MV NAP +4.95 m
 NAP -33.55 m
 Print op 24 Mar 2021
 File: V02T6 F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2 MATIG
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 MATIG
 Diepte NAP : -33.55
 Terrein sp : 0
 Datum : 19 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 19.2
 Gdr-gem kN/m3 : 15.1
 W-gem % : 27.0
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.2 %/uur
 Bestand : VO2T6.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	399.0	0.0	0.00	101.0	0.0	0.00	149.0	0.0	0.00
.1	2.8	0.0	419.3	20.3	.03	0.0	0.0	0.00	0.0	0.0	0.00
.2	6.0	0.0	445.3	46.3	.06	0.0	0.0	0.00	0.0	0.0	0.00
.3	9.2	0.0	474.6	75.9	.11	0.0	0.0	0.00	0.0	0.0	0.00
.4	11.4	0.0	497.3	98.6	.20	0.0	0.0	0.00	0.0	0.0	0.00
.5	13.3	0.0	517.8	118.7	.25	0.0	0.0	0.00	0.0	0.0	0.00
.6	14.7	0.0	535.4	136.1	.34	0.0	0.0	0.00	0.0	0.0	0.00
.7	16.1	0.0	552.6	153.5	.34	0.0	0.0	0.00	0.0	0.0	0.00
.8	17.3	0.0	567.7	168.7	.40	0.0	0.0	0.00	0.0	0.0	0.00
.9	18.4	0.0	583.3	184.3	.45	0.0	0.0	0.00	0.0	0.0	0.00
1.0	19.4	0.0	597.8	198.6	.50	0.0	0.0	0.00	0.0	0.0	0.00
1.1	20.3	0.0	611.2	211.8	.55	0.0	0.0	0.00	0.0	0.0	0.00
1.2	21.1	0.0	624.6	225.3	.60	0.0	0.0	0.00	0.0	0.0	0.00
1.3	21.9	0.0	637.0	238.0	.65	0.0	0.0	0.00	0.0	0.0	0.00
1.4	22.7	0.0	649.5	250.3	.74	0.0	0.0	0.00	0.0	0.0	0.00
1.5	23.3	0.0	660.4	261.1	.74	0.0	0.0	0.00	0.0	0.0	0.00
1.6	23.9	0.0	671.5	272.4	.79	0.0	0.0	0.00	0.0	0.0	0.00
1.7	24.5	0.0	681.7	283.0	.83	0.0	0.0	0.00	0.0	0.0	0.00
1.8	25.1	0.0	691.8	293.1	.92	0.0	0.0	0.00	0.0	0.0	0.00
1.9	25.6	0.0	702.4	303.4	.96	0.0	0.0	0.00	0.0	0.0	0.00
2.0	26.1	0.0	711.6	312.6	1.00	0.0	0.0	0.00	0.0	0.0	0.00
3.0	29.6	0.0	788.4	389.4	1.30	0.0	0.0	0.00	0.0	0.0	0.00
4.0	31.7	0.0	842.0	443.0	1.49	0.0	0.0	0.00	0.0	0.0	0.00
5.0	33.2	0.0	881.4	482.4	1.61	0.0	0.0	0.00	0.0	0.0	0.00
6.0	34.2	0.0	910.1	511.1	1.67	0.0	0.0	0.00	0.0	0.0	0.00
7.0	34.8	0.0	932.7	532.7	1.67	0.0	0.0	0.00	0.0	0.0	0.00
8.0	35.3	0.0	947.3	547.3	1.59	0.0	0.0	0.00	0.0	0.0	0.00
9.0	35.6	0.0	957.9	557.9	1.53	0.0	0.0	0.00	0.0	0.0	0.00
10.0	35.8	0.0	966.9	565.3	1.44	0.0	0.0	0.00	0.0	0.0	0.00
11.0	35.9	0.0	970.7	569.0	1.34	0.0	0.0	0.00	0.0	0.0	0.00
12.0	35.9	0.0	972.2	570.2	1.22	0.0	0.0	0.00	0.0	0.0	0.00
13.0	35.9	0.0	970.8	569.3	1.10	0.0	0.0	0.00	0.0	0.0	0.00
14.0	35.8	0.0	968.7	566.7	.97	0.0	0.0	0.00	0.0	0.0	0.00
15.0	35.7	0.0	964.4	562.4	.85	0.0	0.0	0.00	0.0	0.0	0.00

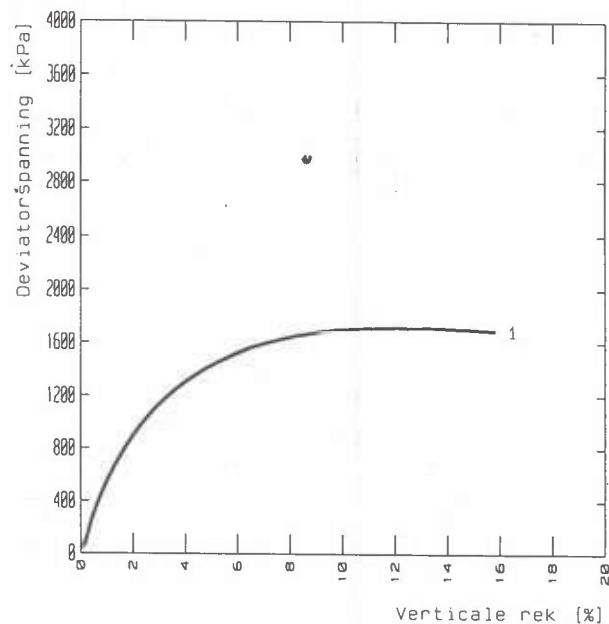
PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
19.2	15.1	27.0	399	330.1E+2	1.7	.44	8.5

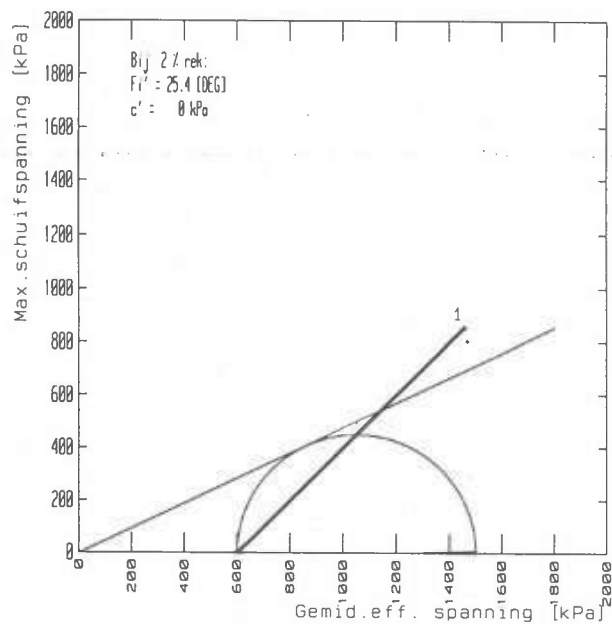
*

*

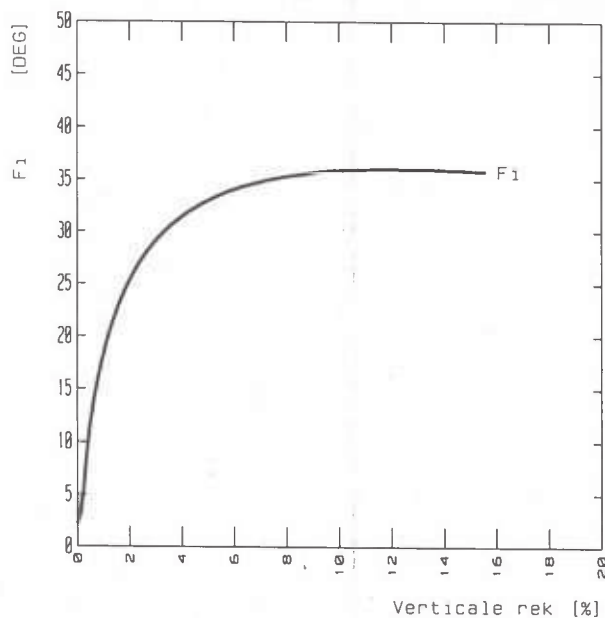
EINDE BESTAND



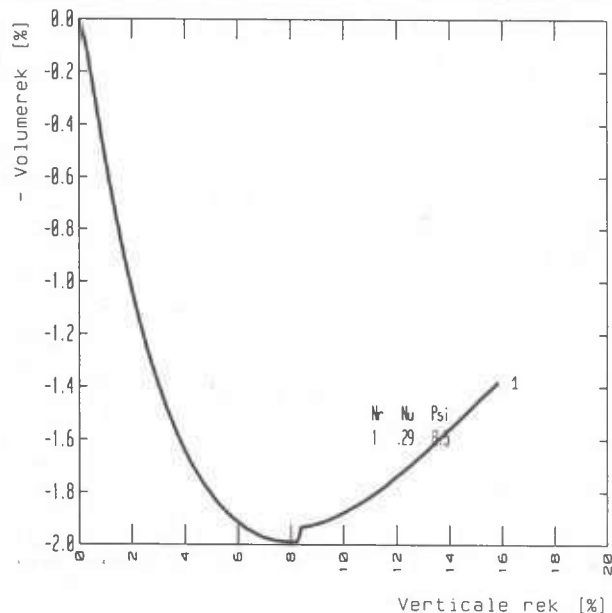
Verloop deviatorspanning



Spanningspad



Mobilisatie curve



Volumerek bij belasten

Monster	VG-nat	VG-droog	w	Consolidatie gegevens		Eps50		E-50	B-waarde	
	kN/m ³	kN/m ³	%	Celdr kPa	Backpr kPa	Tijd uren	dV/V %	%	kPa	
1	19.8	16.1	23.3	799	200	.4	3.1	+1.9	+45E+03	0.97

Type proef CD : Single stage
 Deformatie 5.1 %/uur
 Laborant E. Middelburg
 Adviseur vd Straaten
 Teamleider

Boring B2 VAST
 Monsterdiepte MV -38.50 m
 Grondsoort Zand2, z sl., z hu.
 Monsterklasse 3
 Datum proef 18 Mar 2021

Print op 24 Mar 2021
 F118 V02T7 F00 L

Gemeentewerken Rotterdam
 Ingenieursbureau
 Veld en Laboratorium Groep

Project : VLISSINGEN OOST
 Quarleshaven mvj21031
 TRIAXIAALPROEF

B2 VAST
 2021-015
 Bijlage

BISGEO_TRIAX : 1
 Boring : B2 VAST
 Diepte NAP : -33.55
 Terrein sp : 0
 Datum : 18 Mar 2021
 Grondcode : Z(2)slh1
 Grondsoort : Zand2, z si., z hu.
 Gn-gem kN/m3 : 19.8
 Gdr-gem kN/m3 : 16.1
 W-gem % : 23.3
 Type proef : CD Uitvoering : S Cohesie 0 : J
 Deelproeven : 1 Monsterklasse : 3 Procedure : -
 Deformatie : 5.1 %/uur
 Bestand : VO2T7.A00

MOBILISATIE GEGEVENS

EA	FI	Coh	P1	Q1	dV1	P2	Q2	dV2	P3	Q3	dV3
%	Deg	kPa	kPa	kPa	%	kPa	kPa	%	kPa	kPa	%
0.0	0.0	0.0	599.0	0.0	0.00	101.0	0.0	0.00	149.0	0.0	0.00
.1	3.3	0.0	639.2	36.6	.03	0.0	0.0	0.00	0.0	0.0	0.00
.2	5.2	0.0	659.3	59.9	.08	0.0	0.0	0.00	0.0	0.0	0.00
.3	7.9	0.0	695.3	96.0	.13	0.0	0.0	0.00	0.0	0.0	0.00
.4	10.3	0.0	730.1	131.1	.18	0.0	0.0	0.00	0.0	0.0	0.00
.5	12.1	0.0	758.1	159.1	.25	0.0	0.0	0.00	0.0	0.0	0.00
.6	13.8	0.0	785.8	186.8	.31	0.0	0.0	0.00	0.0	0.0	0.00
.7	15.1	0.0	809.9	211.1	.37	0.0	0.0	0.00	0.0	0.0	0.00
.8	16.3	0.0	833.1	234.5	.43	0.0	0.0	0.00	0.0	0.0	0.00
.9	17.5	0.0	856.1	257.4	.48	0.0	0.0	0.00	0.0	0.0	0.00
1.0	18.5	0.0	876.9	277.9	.54	0.0	0.0	0.00	0.0	0.0	0.00
1.1	19.5	0.0	898.3	299.3	.60	0.0	0.0	0.00	0.0	0.0	0.00
1.2	20.3	0.0	917.3	318.3	.65	0.0	0.0	0.00	0.0	0.0	0.00
1.3	21.1	0.0	936.6	337.6	.71	0.0	0.0	0.00	0.0	0.0	0.00
1.4	21.8	0.0	954.1	355.1	.76	0.0	0.0	0.00	0.0	0.0	0.00
1.5	22.5	0.0	971.5	372.5	.81	0.0	0.0	0.00	0.0	0.0	0.00
1.6	23.2	0.0	989.2	390.2	.86	0.0	0.0	0.00	0.0	0.0	0.00
1.7	23.8	0.0	1004.4	405.4	.91	0.0	0.0	0.00	0.0	0.0	0.00
1.8	24.4	0.0	1019.9	420.9	.95	0.0	0.0	0.00	0.0	0.0	0.00
1.9	24.9	0.0	1034.9	435.9	1.00	0.0	0.0	0.00	0.0	0.0	0.00
2.0	25.4	0.0	1049.5	450.5	1.04	0.0	0.0	0.00	0.0	0.0	0.00
3.0	29.2	0.0	1168.8	569.8	1.39	0.0	0.0	0.00	0.0	0.0	0.00
4.0	31.5	0.0	1253.7	654.7	1.64	0.0	0.0	0.00	0.0	0.0	0.00
5.0	33.0	0.0	1316.1	717.1	1.80	0.0	0.0	0.00	0.0	0.0	0.00
6.0	34.1	0.0	1363.0	764.0	1.91	0.0	0.0	0.00	0.0	0.0	0.00
7.0	34.8	0.0	1396.9	797.9	1.97	0.0	0.0	0.00	0.0	0.0	0.00
8.0	35.4	0.0	1422.6	823.2	1.99	0.0	0.0	0.00	0.0	0.0	0.00
9.0	35.7	0.0	1440.3	840.3	1.92	0.0	0.0	0.00	0.0	0.0	0.00
10.0	35.9	0.0	1450.9	850.9	1.87	0.0	0.0	0.00	0.0	0.0	0.00
11.0	36.0	0.0	1455.2	854.9	1.81	0.0	0.0	0.00	0.0	0.0	0.00
12.0	36.1	0.0	1458.2	858.2	1.73	0.0	0.0	0.00	0.0	0.0	0.00
13.0	36.0	0.0	1458.3	857.3	1.65	0.0	0.0	0.00	0.0	0.0	0.00
14.0	35.9	0.0	1455.9	854.6	1.56	0.0	0.0	0.00	0.0	0.0	0.00
15.0	35.8	0.0	1451.6	849.9	1.46	0.0	0.0	0.00	0.0	0.0	0.00

PARAMETERS PER DEELPROEF

Gnat	Gdrg	W	Peff	E50	Eps50	nu	Psi
kN/m3	kN/m3	%	kPa	kPa	%	-	Deg
19.8	16.1	23.3	599	448.8E+2	1.9	.29	8.5

*

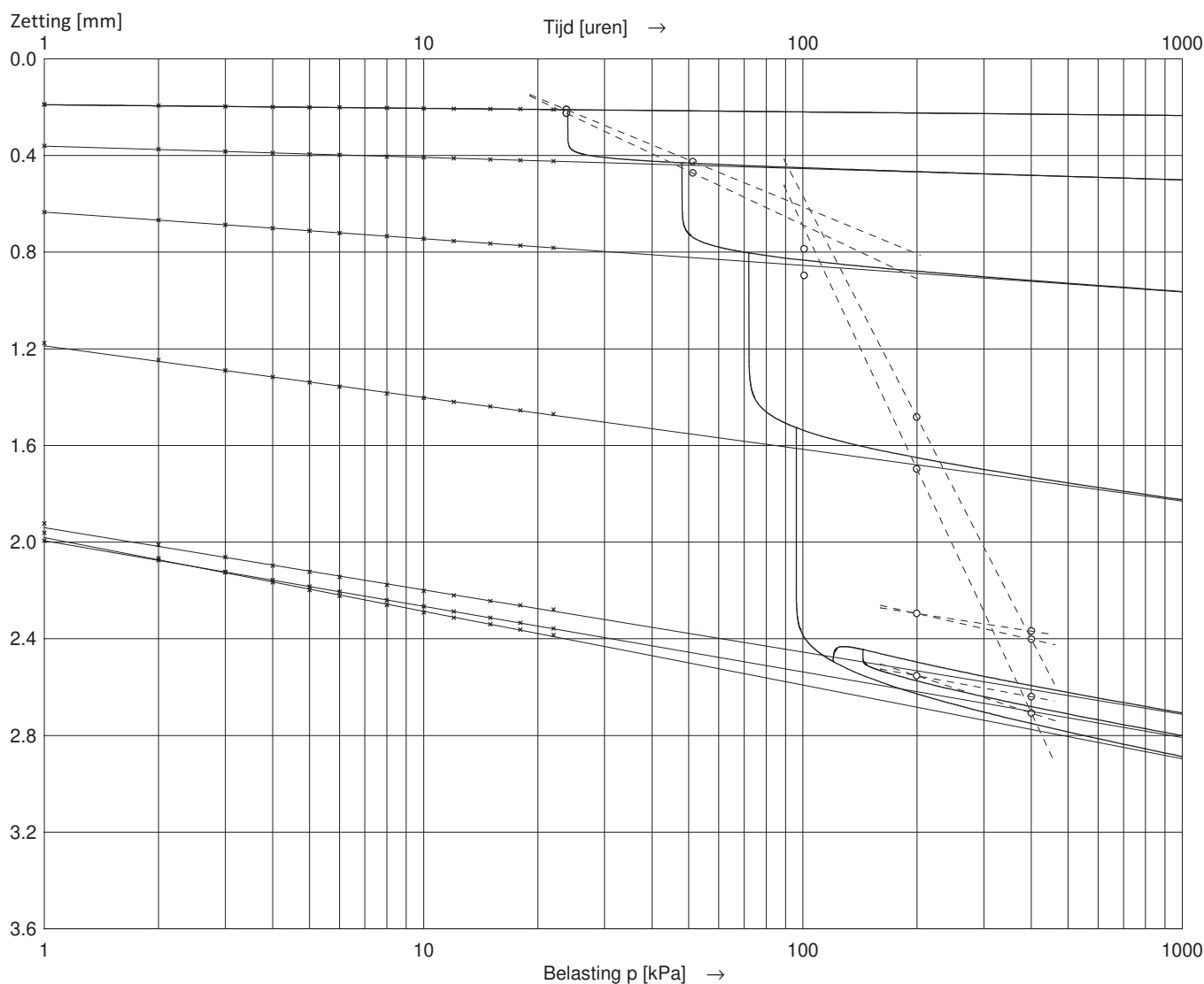
*

EINDE BESTAND

Boring : B2	Startdatum : 15-03-2021	Grondsoort: Klei, zwak zandig, zwak humeus
Monster : 6	Einddatum : 22-03-2021	Diepte : 0.25 - 0.20 m. +NAP
Bus : .	Hoogte monster : 20.00 mm	Initieel vol. gewicht γ : 17.54 kN/m ³
Apparaat : 2	Zetting (24u) : 0.211 mm	Droog vol. gewicht γ_{dr} : 12.75 kN/m ³
Soort monster : Ongeroerd	h (24u) : 19.789 mm	Watergehalte W : 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting [kN/m ²]	23.8	51.28	100.74	199.66	400.26	199.66	400.26
C _p	70.2	36.9	19.4	14.9	128.3	187.9	
C _s	478.4	208.8	129.8	150.5	289.7	998.7	
C _{10⁴}	44.2	21.6	12.1	10.7	46.3	107.2	

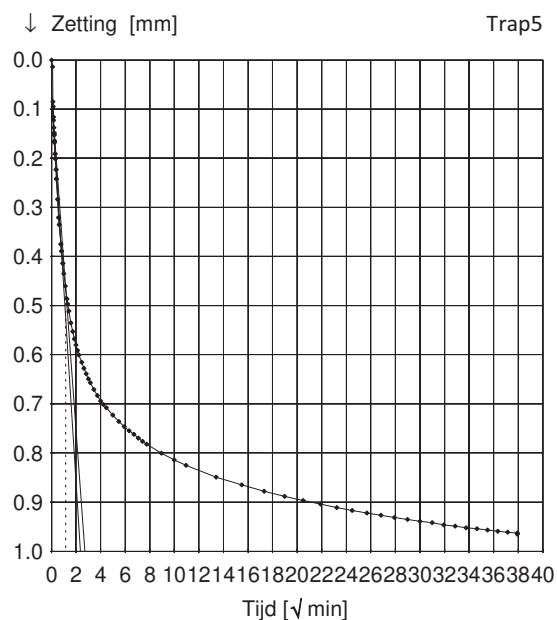
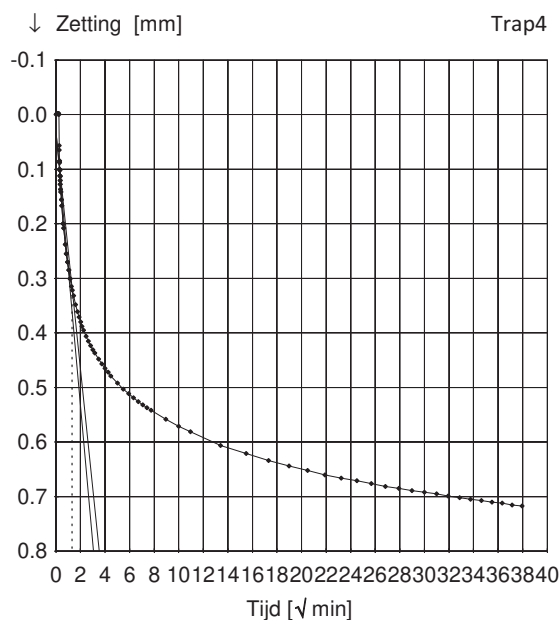
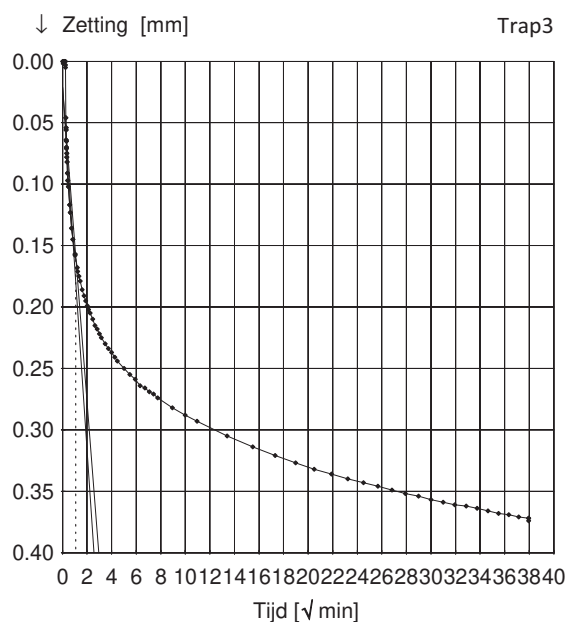
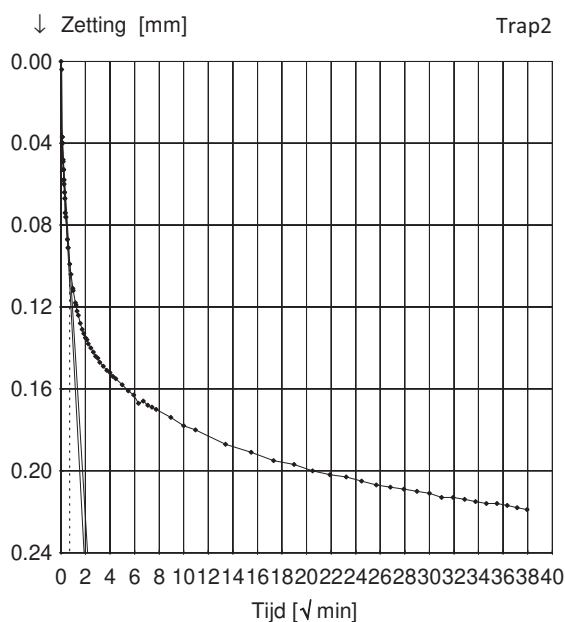
Grensspanning p _g	Voor p _g	Na p _g	Ontlasten	Herbelasten	Ontlasten(2)	Herbelasten(2)
102 [kN/m ²]	C _p = 70.2	C _p ' = 14.9	C _p = 128.3	C _p = 187.9		
	C _s = 478.4	C _s ' = 150.5	C _s = 289.7	C _s = 998.7		
	C _{10⁴} = 44.2	C _{10⁴} ' = 10.7	C _{10⁴} = 46.3	C _{10⁴} = 107.2		



Asymptoot tijdinterval : 2 - 48 uur.

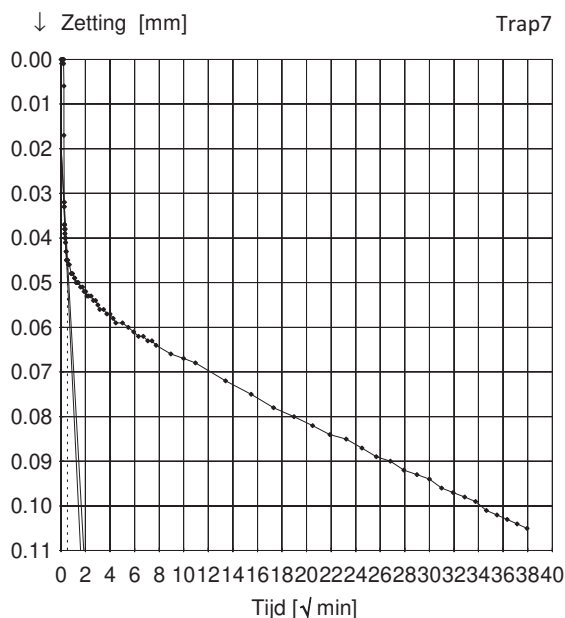
Boring : B2	Startdatum : 15-03-2021	Grondsoort: Klei, zwak zandig, zwak humeus
Monster : 6	Einddatum : 22-03-2021	Diepte : 0.25 - 0.20 m. +NAP
Bus : .	Hoogte monster : 20.00 mm	Initieel vol. gewicht γ : 17.54 kN/m ³
Apparaat : 2	Zetting (24u) : 0.211 mm	Droog vol. gewicht γ_{dr} : 12.75 kN/m ³
Soort monster : Ongeroerd	h (24u) : 19.789 mm	Watergehalte W : 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting [kN/m ²]	23.8	51.28	100.74	199.66	400.26	199.66	400.26
Δp [kN/m ²]	23.8	27.48	49.46	98.92	200.6	-200.6	200.6
c_v [10^{-8} m ² /s] (wortel-t)		208.12	84.56	54.75	65.40		295.96
m_v [1/MPa]		0.14	0.16	0.17	0.12		0.01
k_{10} [10^{-11} m/s]		285.71	133.54	90.30	75.86		23.55
c_v [10^{-8} m ² /s] (log-t)		961.19	321.01	68.00	34.95		307.00
C_α [10^{-3}]		1.477	3.320	6.692	6.863		0.3560



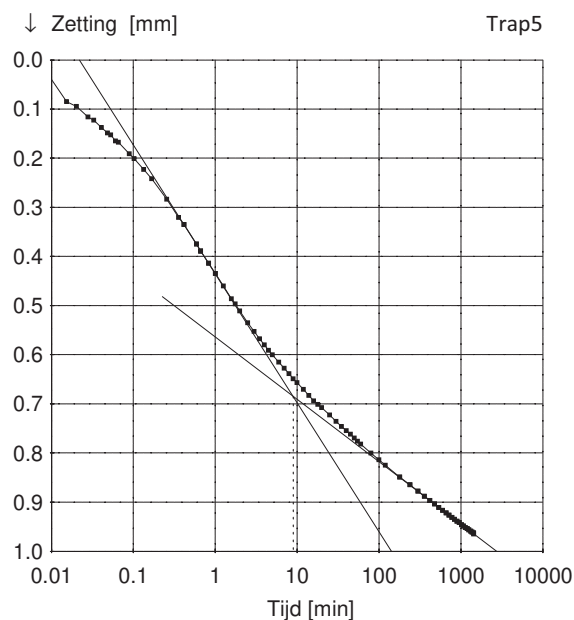
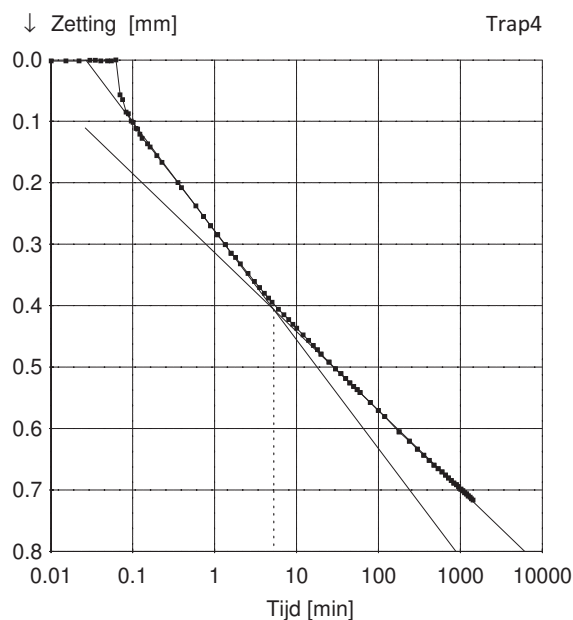
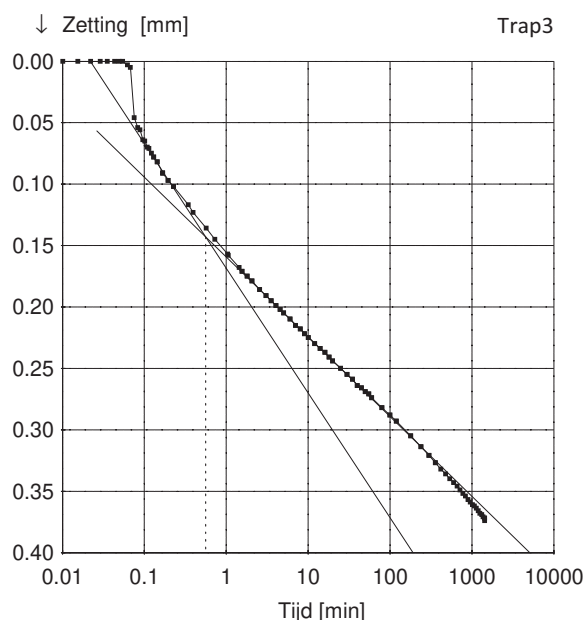
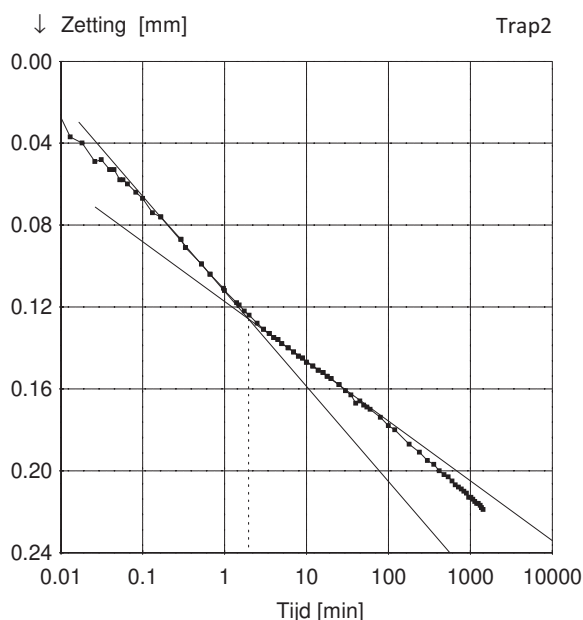
Boring	: B2	Startdatum	: 15-03-2021	Grondsoort:	Klei, zwak zandig, zwak humeus
Monster	: 6	Einddatum	: 22-03-2021	Diepte	: 0.25 - 0.20 m. +NAP
Bus	: .	Hoogte monster	: 20.00 mm	Initieel vol. gewicht γ	: 17.54 kN/m ³
Apparaat	: 2	Zetting (24u)	: 0.211 mm	Droog vol. gewicht γ_{dr}	: 12.75 kN/m ³
Soort monster	: Ongeroid	h (24u)	: 19.789 mm	Watergehalte W	: 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting [kN/m ²]	23.8	51.28	100.74	199.66	400.26	199.66	400.26
Δp [kN/m ²]	23.8	27.48	49.46	98.92	200.6	-200.6	200.6
c_v [10 ⁻⁸ m ² /s] (wortel-t)		208.12	84.56	54.75	65.40		295.96
m_v [1/MPa]		0.14	0.16	0.17	0.12		0.01
k_{10} [10 ⁻¹¹ m/s]		285.71	133.54	90.30	75.86		23.55
c_v [10 ⁻⁸ m ² /s] (log-t)		961.19	321.01	68.00	34.95		307.00
C_α [10 ⁻³]		1.477	3.320	6.692	6.863		0.3560



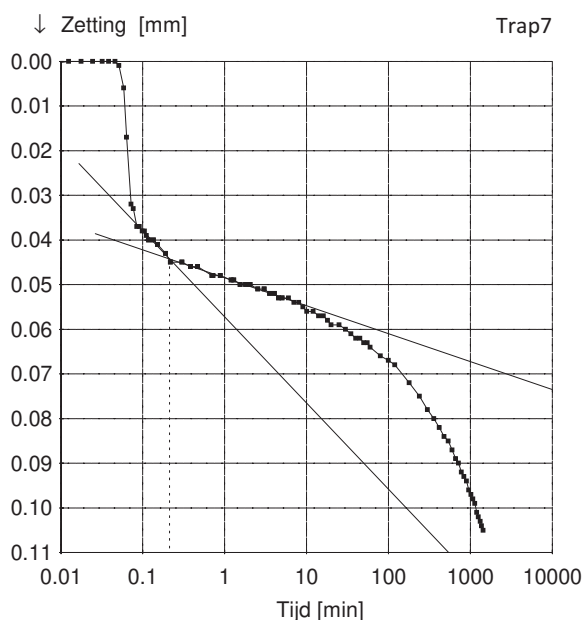
Boring : B2	Startdatum : 15-03-2021	Grondsoort: Klei, zwak zandig, zwak humeus
Monster : 6	Einddatum : 22-03-2021	Diepte : 0.25 - 0.20 m. +NAP
Bus : .	Hoogte monster : 20.00 mm	Initieel vol. gewicht γ : 17.54 kN/m ³
Apparaat : 2	Zetting (24u) : 0.211 mm	Droog vol. gewicht γ_{dr} : 12.75 kN/m ³
Soort monster : Ongeroid	h (24u) : 19.789 mm	Watergehalte W : 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting [kN/m ²]	23.8	51.28	100.74	199.66	400.26	199.66	400.26
Δp [kN/m ²]	23.8	27.48	49.46	98.92	200.6	-200.6	200.6
c_v [10 ⁻⁸ m ² /s] (wortel-t)		208.12	84.56	54.75	65.40		295.96
m_v [1/MPa]		0.14	0.16	0.17	0.12		0.01
k_{10} [10 ⁻¹¹ m/s]		285.71	133.54	90.30	75.86		23.55
c_v [10 ⁻⁸ m ² /s] (log-t)		961.19	321.01	68.00	34.95		307.00
C_α [10 ⁻³]		1.477	3.320	6.692	6.863		0.3560



Boring	: B2	Startdatum	: 15-03-2021	Grondsoort:	Klei, zwak zandig, zwak humeus
Monster	: 6	Einddatum	: 22-03-2021	Diepte	: 0.25 - 0.20 m. +NAP
Bus	: .	Hoogte monster	: 20.00 mm	Initieel vol. gewicht γ	: 17.54 kN/m ³
Apparaat	: 2	Zetting (24u)	: 0.211 mm	Droog vol. gewicht γ_{dr}	: 12.75 kN/m ³
Soort monster	: Ongeroid	h (24u)	: 19.789 mm	Watergehalte W	: 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting [kN/m ²]	23.8	51.28	100.74	199.66	400.26	199.66	400.26
Δp [kN/m ²]	23.8	27.48	49.46	98.92	200.6	-200.6	200.6
c_v [10 ⁻⁸ m ² /s] (wortel-t)		208.12	84.56	54.75	65.40		295.96
m_v [1/MPa]		0.14	0.16	0.17	0.12		0.01
k_{10} [10 ⁻¹¹ m/s]		285.71	133.54	90.30	75.86		23.55
c_v [10 ⁻⁸ m ² /s] (log-t)		961.19	321.01	68.00	34.95		307.00
C_α [10 ⁻³]		1.477	3.320	6.692	6.863		0.3560



Opdracht : 2021-015
Plaats : Vlissingen Oost
Project : mvj21031

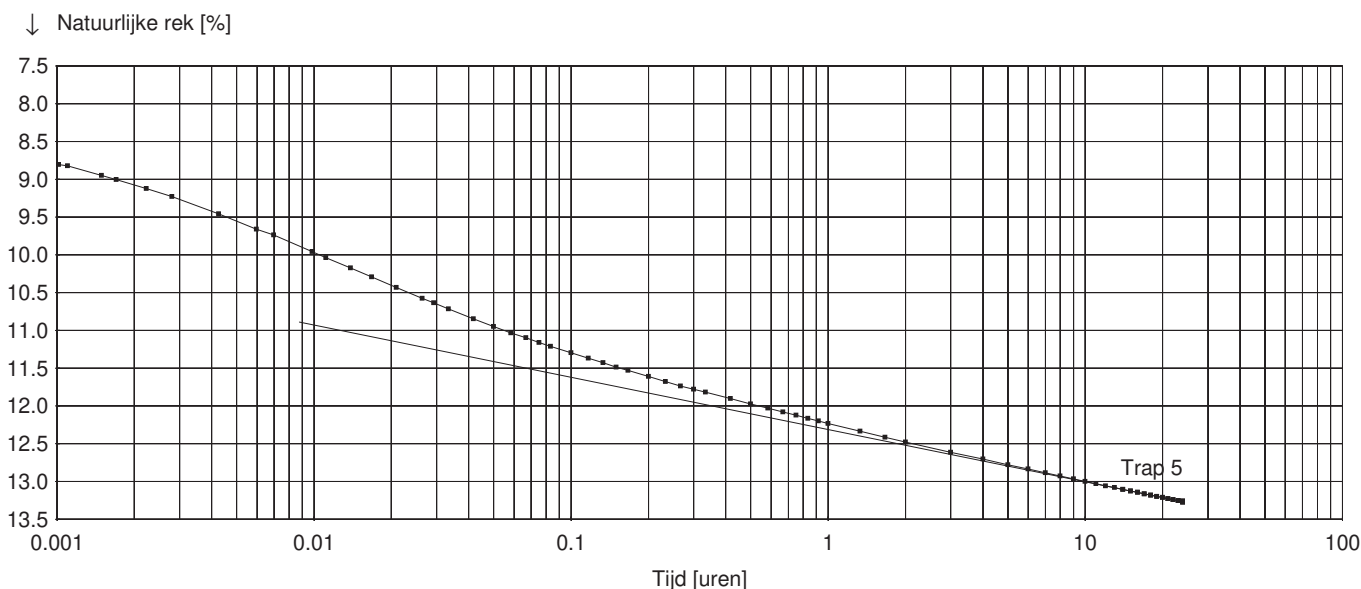
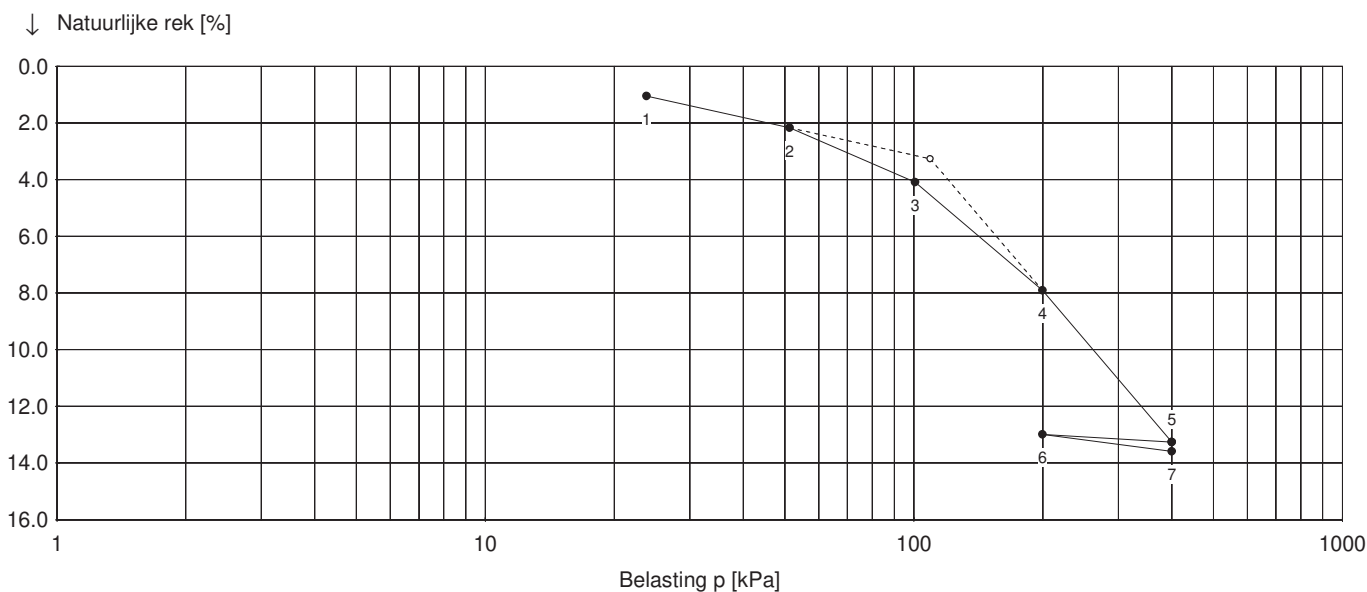
SAMENDRUKKINGSPROEF

Isotachen

Boring : B2	Startdatum : 15-03-2021	Grondsoort: Klei, zwak zandig, zwak humeus
Monster : 6	Einddatum : 22-03-2021	Diepte : 0.25 - 0.20 m. +NAP
Bus : .	Hoogte monster : 20.00 mm	Initieel vol. gewicht γ : 17.54 kN/m ³
Apparaat : 2	Zetting (24u) : 0.211 mm	Droog vol. gewicht γ_{dr} : 12.75 kN/m ³
Soort monster : Ongeroerd	h (24u) : 19.789 mm	Watergehalte W : 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting	23.8	51.28	100.74	199.66	400.26	199.66	400.26
a, b	0.0145	0.0284	0.0556	0.0770	0.0039	0.0086	
c			0.0028	0.0030			

Grensspanning P_g =	kPa	a = 0.0086	b = 0.0770	c = 0.00301
		Trap 6 - 7	Trap 4 - 5	Trap 5



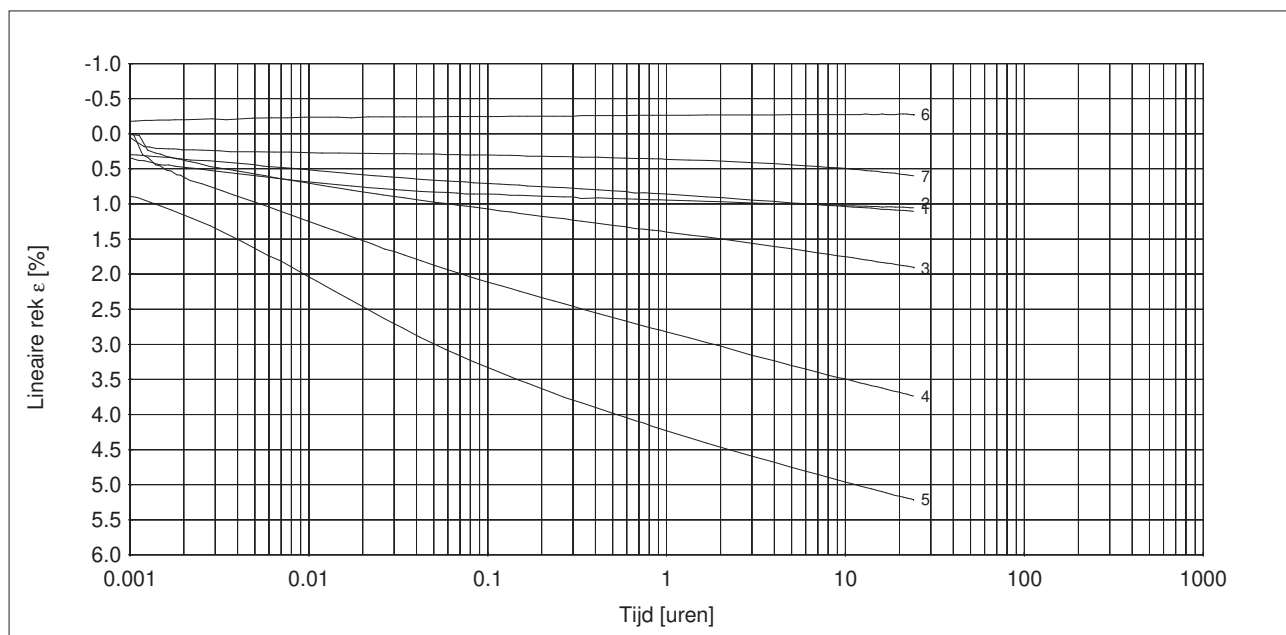
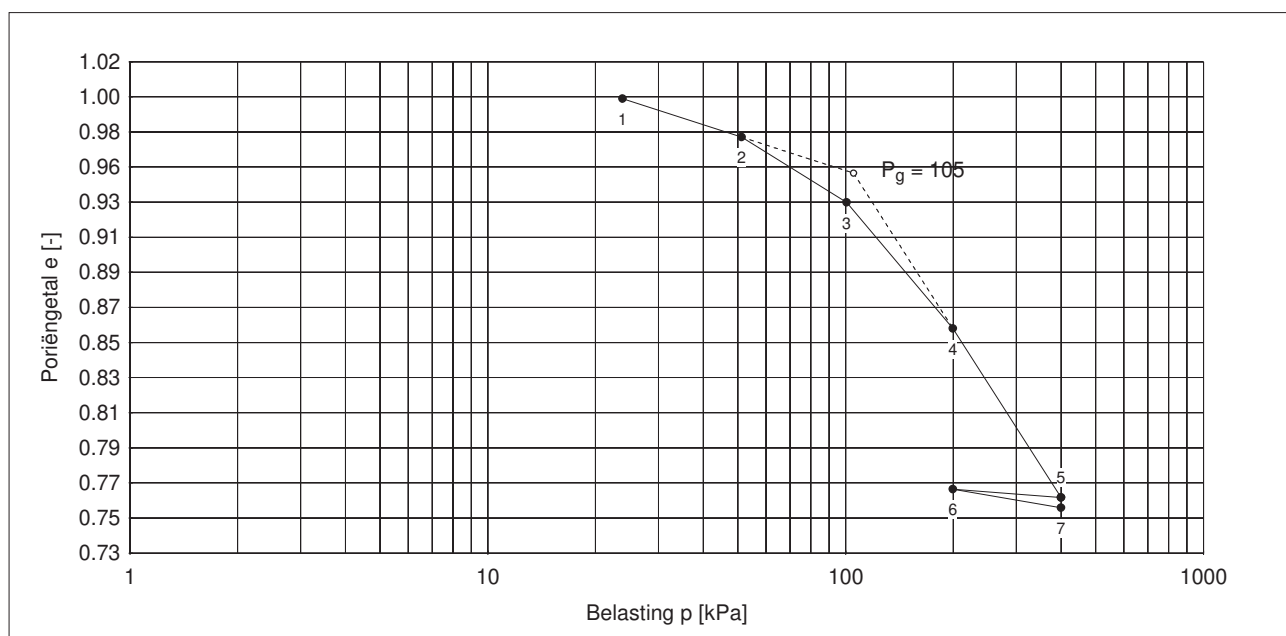
Boring	: B2	Startdatum	: 15-03-2021	Grondsoort:	Klei, zwak zandig, zwak humeus
Monster	: 6	Einddatum	: 22-03-2021	Diepte	: 0.25 - 0.20 m. +NAP
Bus	: .	Hoogte monster	: 20.00 mm	Initieel vol. gewicht γ	: 17.54 kN/m ³
Apparaat	: 2	Zetting (24u)	: 0.211 mm	Droog vol. gewicht γ_{dr}	: 12.75 kN/m ³
Soort monster	: Ongeroid	e_0	: 1.02	Watergehalte W	: 38 %

Belastingtrappen:	Trap1	Trap2	Trap3	Trap4	Trap5	Trap6	Trap7
Belasting	23.8	51.28	100.74	199.66	400.26	199.66	400.26
$C_{c/r/sw} = \Delta e / \Delta \log p$	0.066	0.128	0.243	0.321	0.016	0.035	
$C_{\alpha}^* = \Delta \epsilon / \Delta \log t$		0.0015	0.0033	0.0067	0.0069		0.0004

* Berekening C_{α} gebaseerd op de proefstukhoogte aan het begin van de trap

$C_r = 0.035$	$C_c = 0.321$	$C_{sw} = 0.016$
Trap 6 - 7	Trap 4 - 5	Trap 5 - 6

$C_{\alpha} = 0.0068$
Trap 4 - 5



* Lineaire rek berekend t.o.v. proefstukhoogte aan het begin van iedere trap

Opdracht : 2021-015
Plaats : Vlissingen Oost
Project : mvj21031

SAMENDRUKKINGSPROEF

Totaaloverzicht proefresultaten

Boring	: B2	Startdatum	: 15-03-2021	Grondsoort:	Klei, zwak zandig, zwak humeus
Monster	: 6	Einddatum	: 22-03-2021	Diepte	: 0.25 - 0.20 m. +NAP
Bus	: .	Hoogte monster	: 20.00 mm	Initieel vol. gewicht γ	: 17.54 kN/m ³
Apparaat	: 2	Zetting (24u)	: 0.211 mm	Droog vol. gewicht γ_{dr}	: 12.75 kN/m ³
Soort monster	: Ongeroerd	e_0	: 1.02	Watergehalte W	: 38 %

Bepaling parameters per trap

Belasting p [kPa]	24	51	101	200	400	200	400
NEN / Bjerrum	Trap 1	2	3	4	5	6	7
$C_{c/r/sw} = \Delta e / \Delta \log p$	0.0662	0.1278	0.2432	0.3213	0.0160	0.0350	
$C_{\alpha} = \Delta e / \Delta \log t$	0.0015	0.0033	0.0067	0.0069		0.0004	
KoppeJan	Trap 1	2	3	4	5	6	7
C_p	70.2	36.9	19.4	14.9	128.3	187.9	
C_s	478.4	208.8	129.8	150.5	289.7	998.7	
C_{10^4}	44.2	21.6	12.1	10.7	46.3	107.2	
Taylor / Casagrande	Trap 1	2	3	4	5	6	7
$c_v [10^{-8} m^2/s]$ (Taylor)	208.12	84.56	54.75	65.40		295.96	
$m_v [1/MPa]$	0.14	0.16	0.17	0.12		0.01	
$k_{10} [10^{-11} m/s]$	285.71	133.54	90.30	75.86		23.55	
$c_v [10^{-8} m^2/s]$ (Casagrande)	961.19	321.01	68.00	34.95		307.00	
Isotachen	Trap 1	2	3	4	5	6	7
a, b	0.0145	0.0284	0.0556	0.0770	0.0039	0.0086	
c				0.0028	0.0030		

Bepaling P_g en parameters op basis van geselecteerde trappen

NEN / Bjerrum	Trap 6 - 7	Trap 4 - 5	Trap 5 - 6	Trap 4, 5
$P_g = 105.3$	$C_r = 0.0350$	$C_c = 0.3213$	$C_{sw} = 0.0160$	$C_{\alpha} = 0.0068$
KoppeJan	Trap 1 - 2	Trap 4 - 5	Trap 5 - 6	Trap 6 - 7
$P_g = 101.9$	$C_p = 70.2$ $C_s = 478.4$ $C_{10^4} = 44.2$	$C_p' = 14.9$ $C_s' = 150.5$ $C_{10^4}' = 10.7$	$A_p = 128.3$ $A_s = 289.7$ $A_{10^4} = 46.3$	$C_{p(r)} = 187.9$ $C_{s(r)} = 998.7$ $C_{10^4(r)} = 107.2$
Isotachen	Trap 6 - 7	Trap 4 - 5	Trap 5	
$P_g = --$	a = 0.0086	b = 0.0770	c = 0.0030	