

Verbetering leefomstandigheden Egel & Tekhoorn

Bijlagen deel II

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Opleiding:	Industrieel Product Ontwerpen (IPO)
Instituut:	Fontys Hogeschool Techniek en Logistiek Venlo
Afgerond op:	Venray, 1 juni 2018

Informatieblad

Bijlagen eindrapport afstudeerstage

Afstudeerperiode: 5 februari 2018 t/m 6 juli 2018

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Studentnummer: 2548224
Opleiding: Industrieel Product Ontwerpen (IPO)

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Land: Nederland



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Land: Nederland
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Docentbegeleider: Jean-Paul Favié
Examinator: Joost Wever

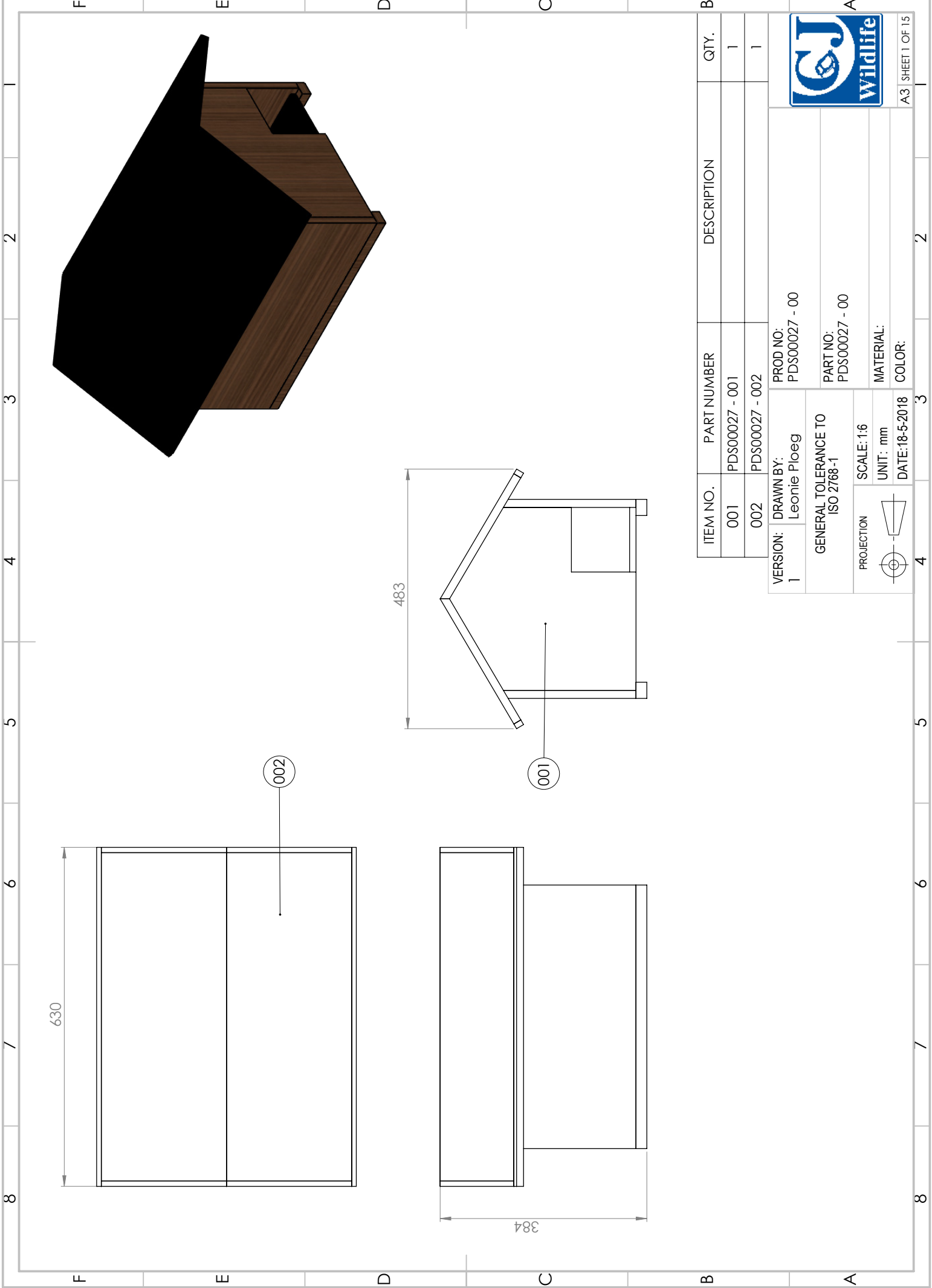
Geheimhouding: Nee

Inleverdatum: 12 juni 2018

Inhoud

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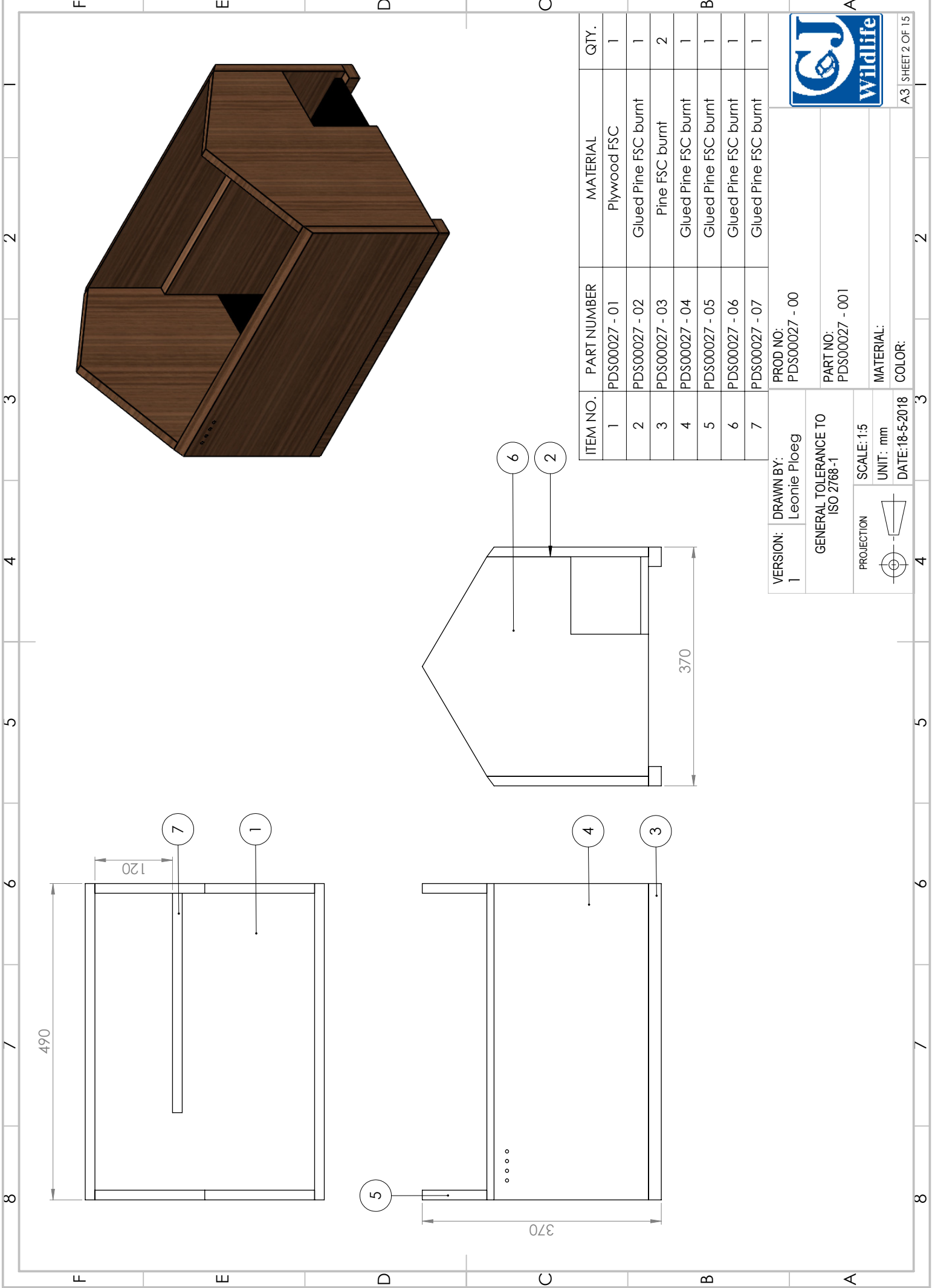
Bijlage O: Technische tekeningen



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
001	PDS00027 - 001		1
002	PDS00027 - 002		1

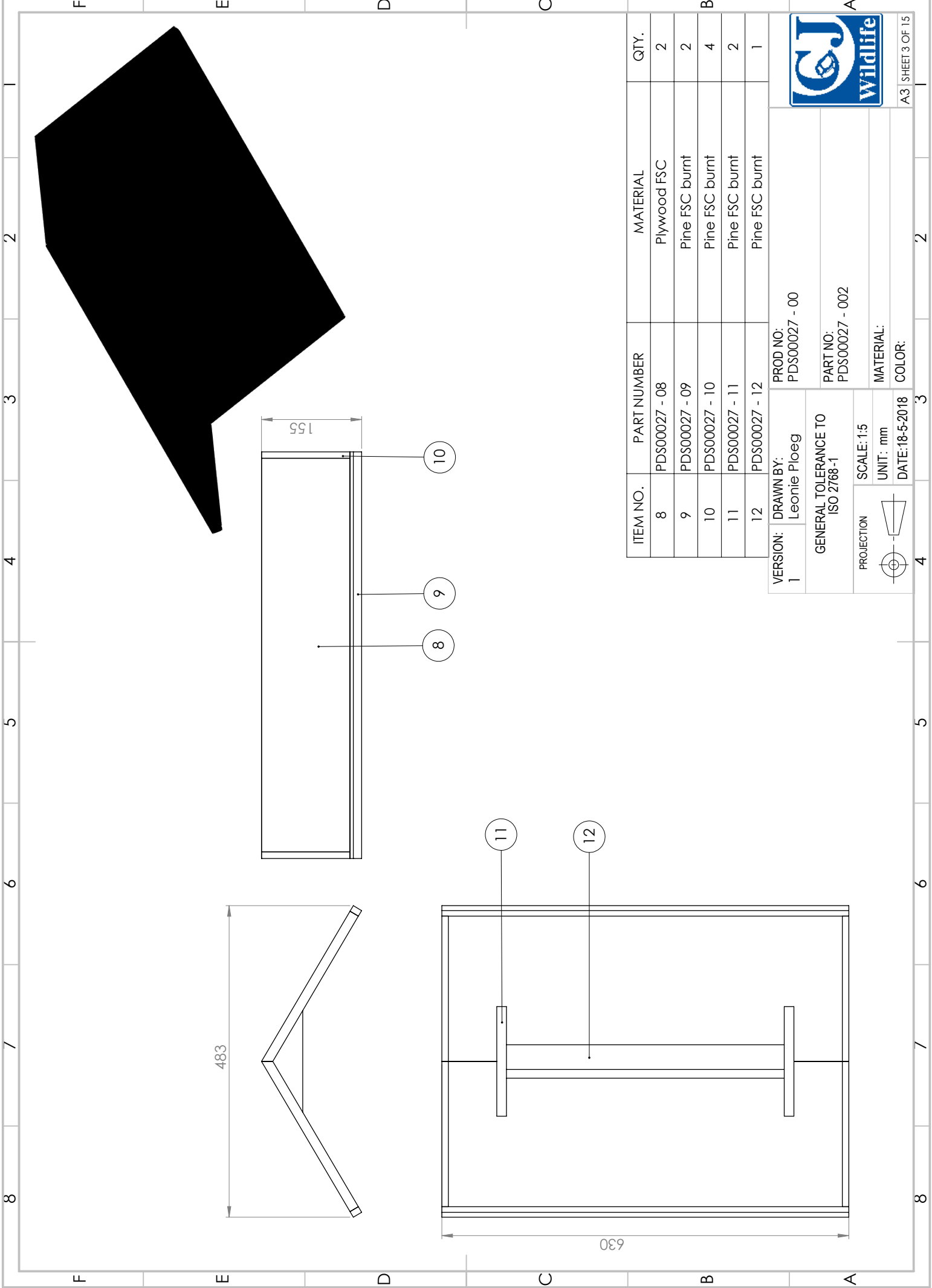
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PROJECTION		SCALE: 1:6		MATERIAL:	
		UNIT: mm		COLOR:	
		DATE: 18-5-2018			





ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00027 - 01	Plywood FSC	1
2	PDS00027 - 02	Glued Pine FSC burnt	1
3	PDS00027 - 03	Pine FSC burnt	2
4	PDS00027 - 04	Glued Pine FSC burnt	1
5	PDS00027 - 05	Glued Pine FSC burnt	1
6	PDS00027 - 06	Glued Pine FSC burnt	1
7	PDS00027 - 07	Glued Pine FSC burnt	1

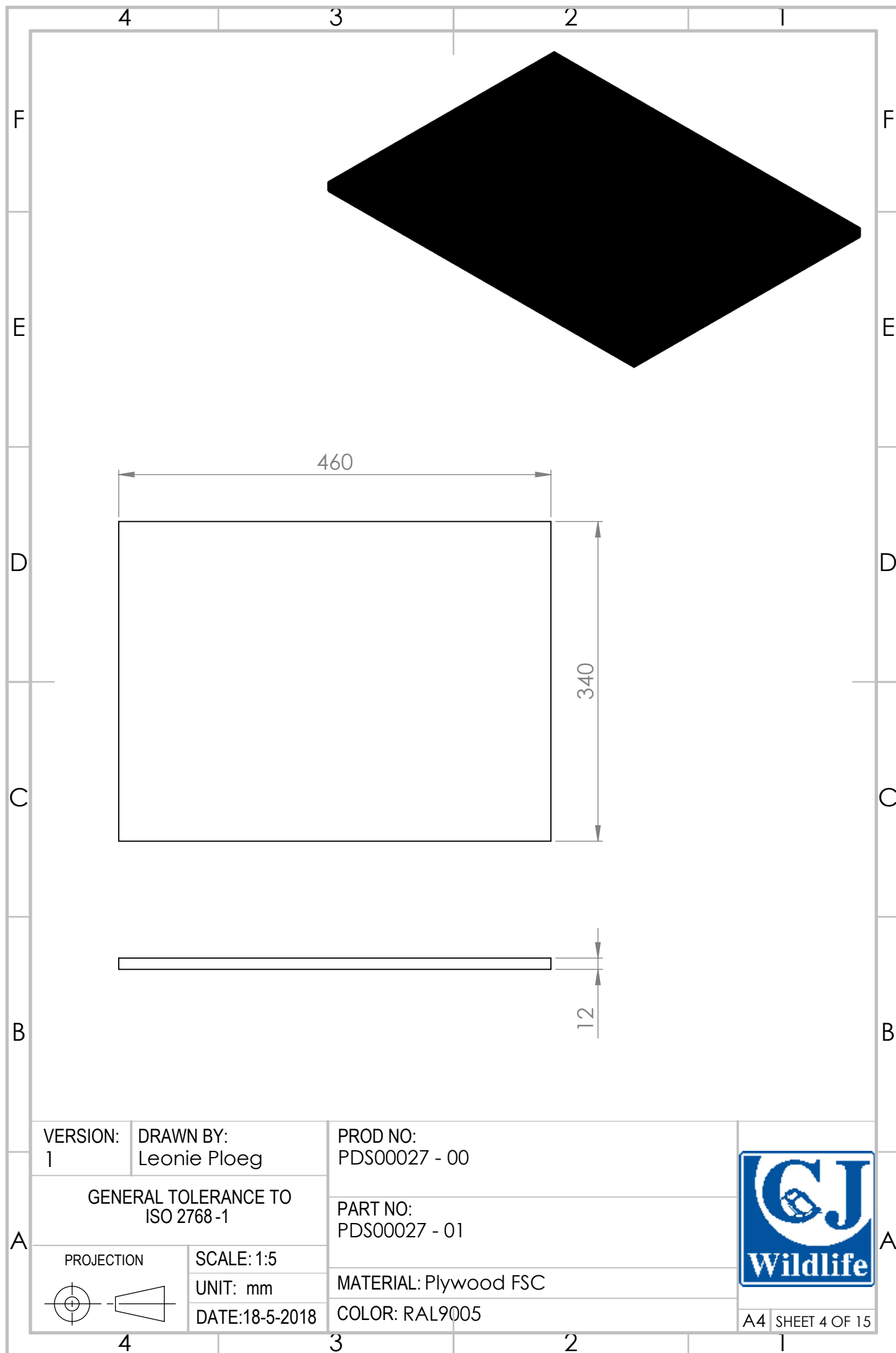
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GENERAL TOLERANCE TO ISO 2768-1		
PROJECTION	SCALE: 1:5	PART NO: PDS00027 - 001
	UNIT: mm	MATERIAL:
DATE: 18-5-2018		COLOR:

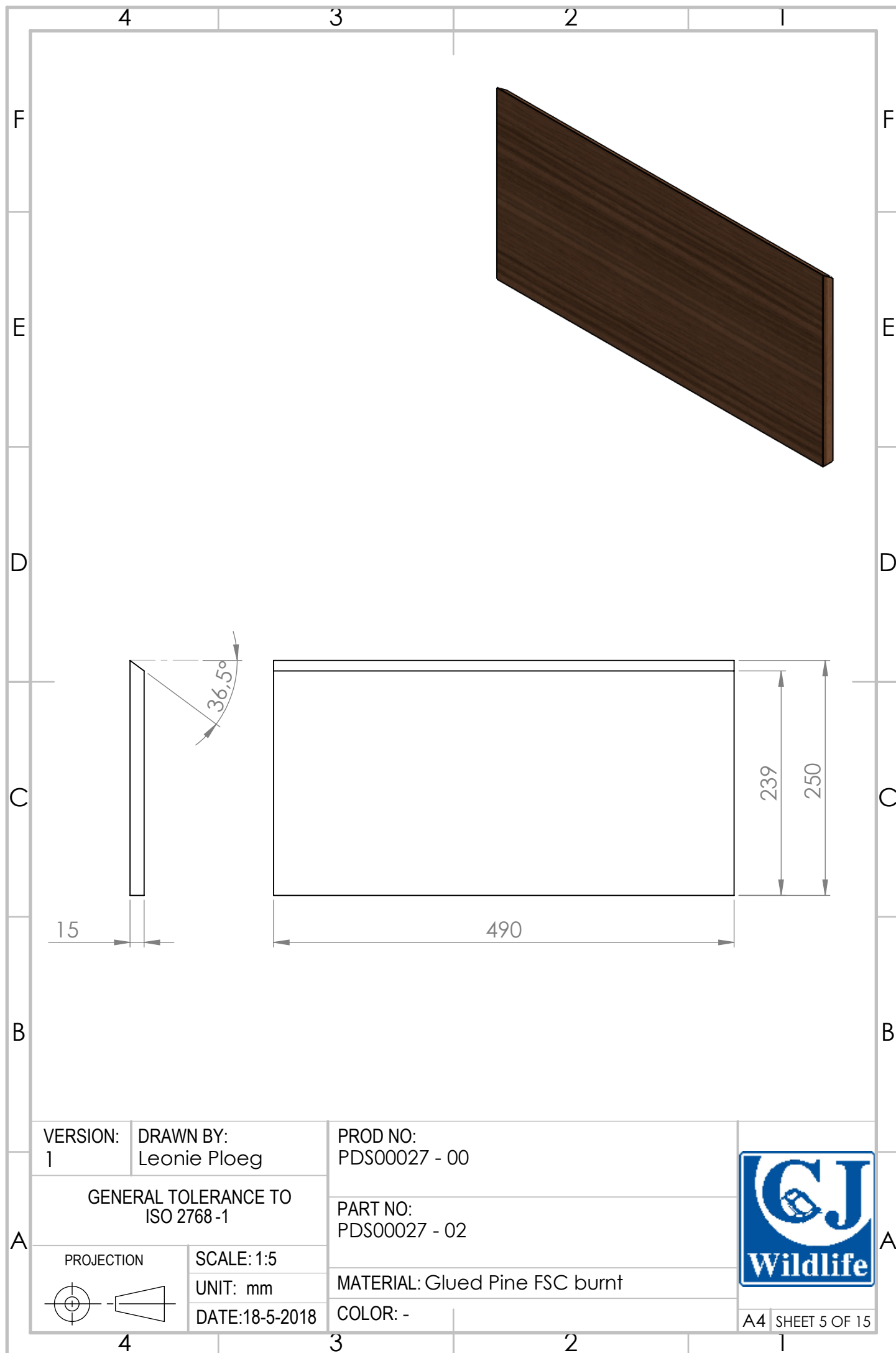


ITEM NO.	PART NUMBER	MATERIAL	QTY.
8	PDS00027 - 08	Plywood FSC	2
9	PDS00027 - 09	Pine FSC burnt	2
10	PDS00027 - 10	Pine FSC burnt	4
11	PDS00027 - 11	Pine FSC burnt	2
12	PDS00027 - 12	Pine FSC burnt	1

VERSION: 1	DRAWN BY: Leonie Ploeg	PROD NO: PDS00027 - 00
GENERAL TOLERANCE TO ISO 2768-1		PART NO: PDS00027 - 002
PROJECTION	SCALE: 1:5	MATERIAL:
	UNIT: mm	COLOR:
DATE: 18-5-2018		







VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00027 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00027 - 02

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt

COLOR: -



A4 SHEET 5 OF 15

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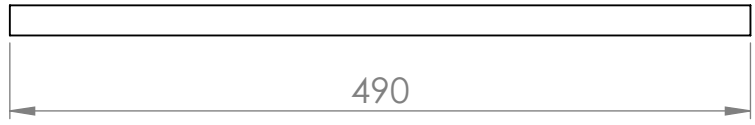
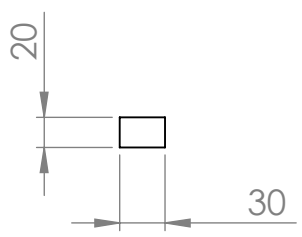
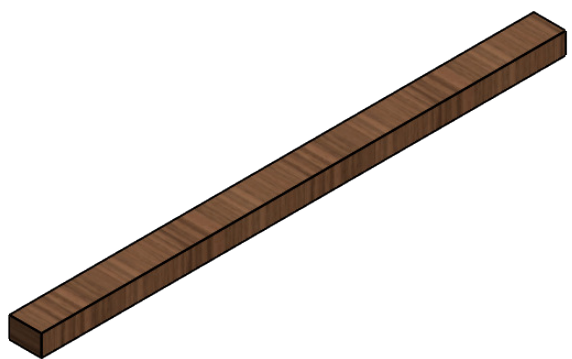
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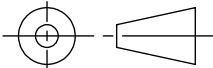
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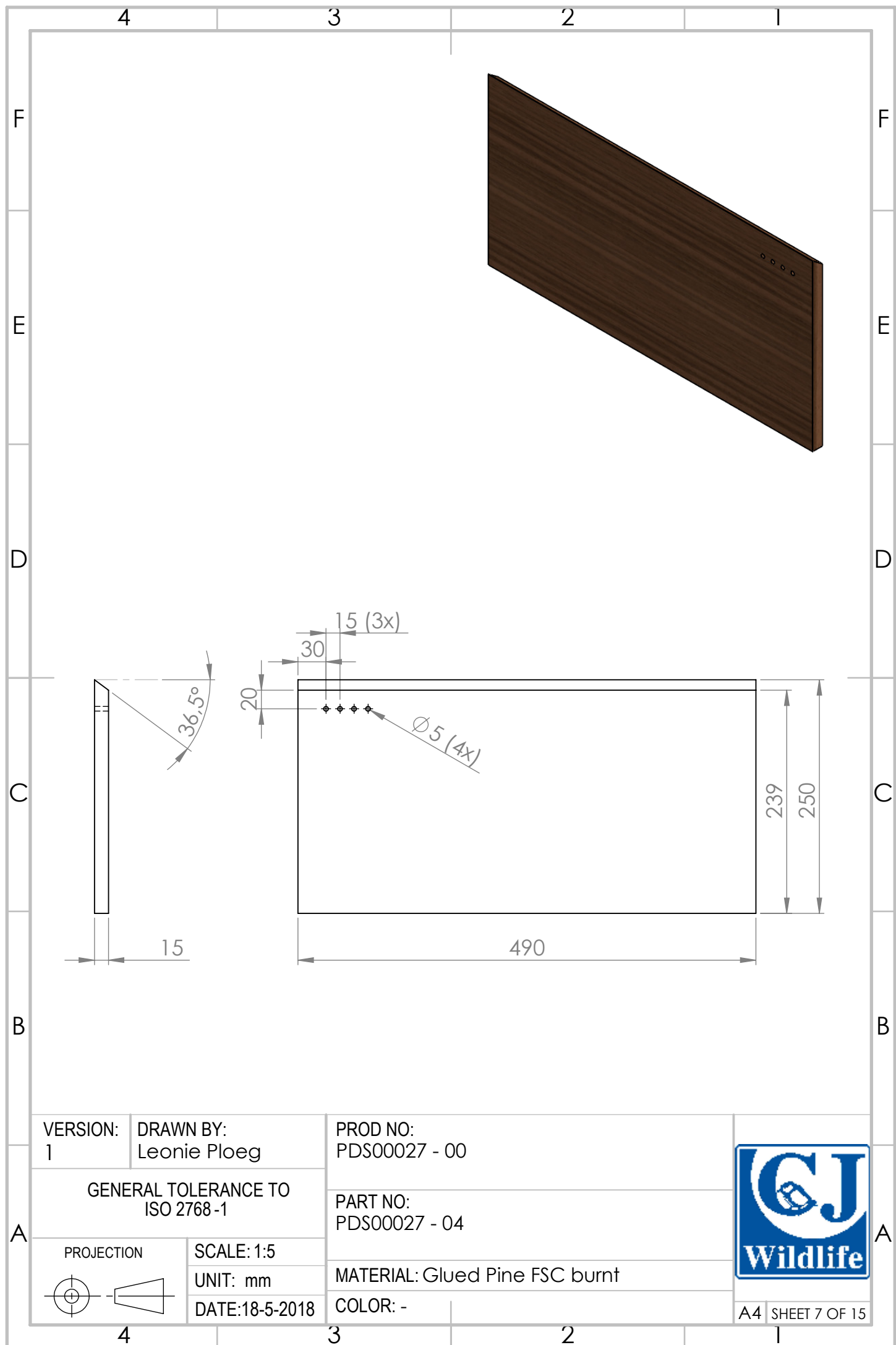
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VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00027 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00027 - 03		
				MATERIAL: Pine FSC burnt		
				COLOR: -		
PROJECTION 		SCALE: 1:5				A4
		UNIT: mm				
		DATE:18-5-2018				

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4 3 2 1

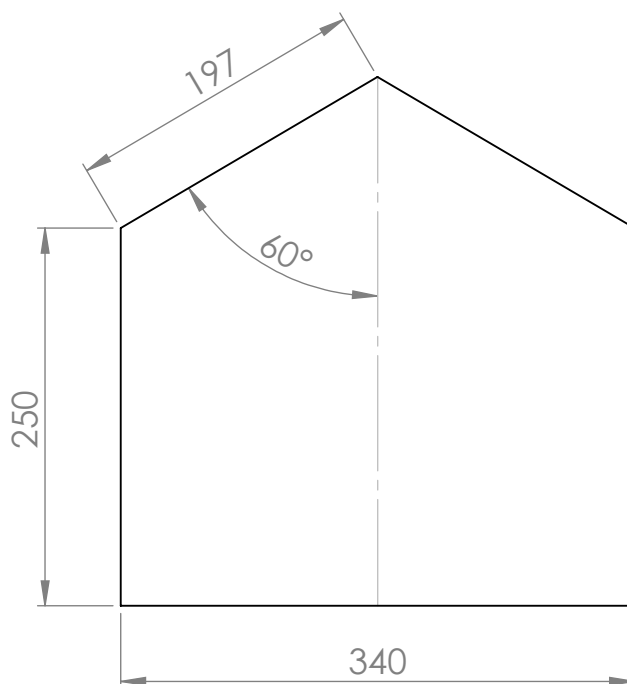
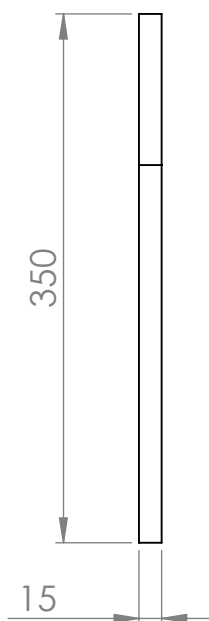
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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00027 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00027 - 05

PROJECTION

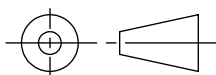
SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt

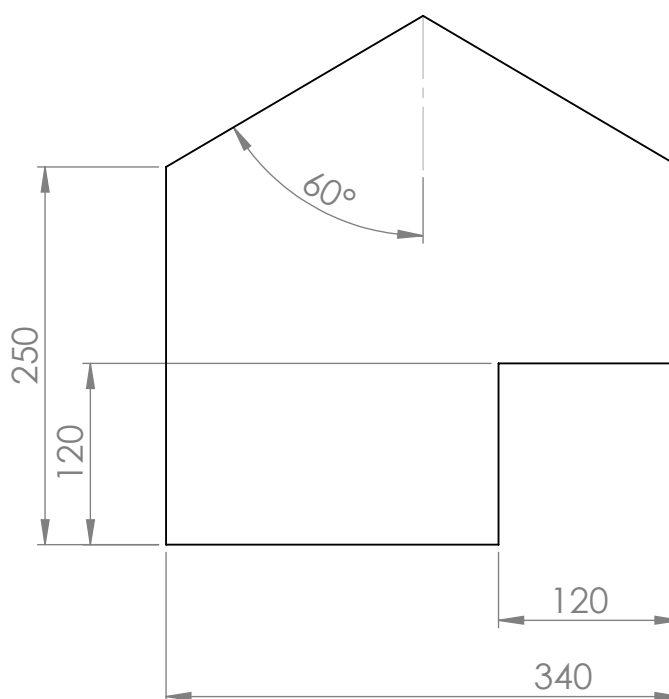
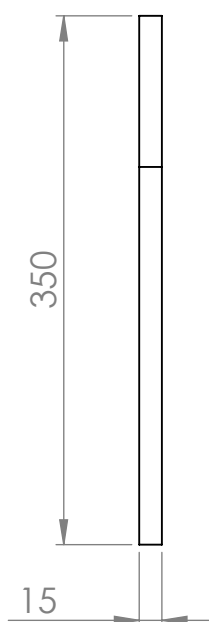
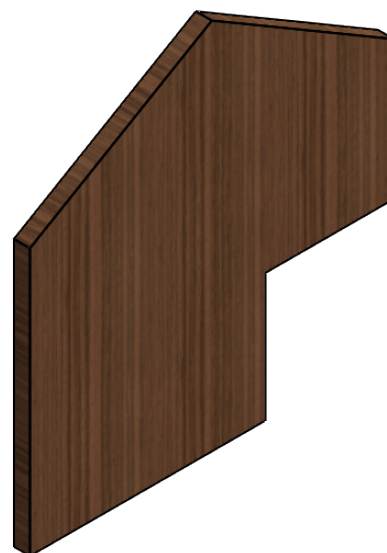
COLOR: -



A4 SHEET 8 OF 15

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VERSION:
1

DRAWN BY:
Leonie Ploeg

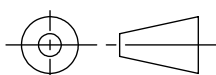
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GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00027 - 06

PROJECTION

SCALE: 1:5



UNIT: mm

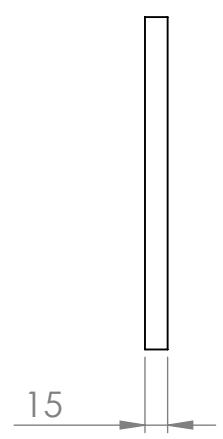
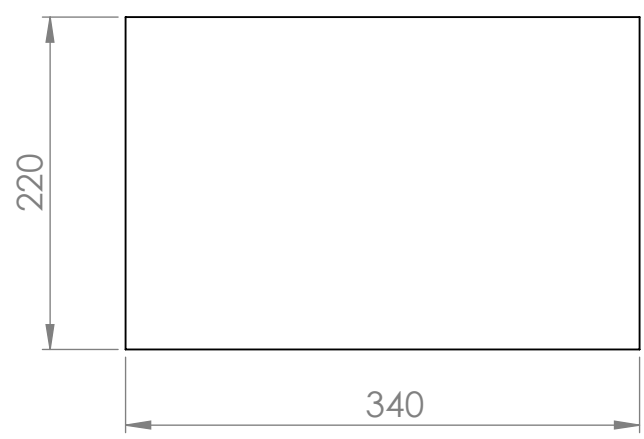
DATE: 18-5-2018

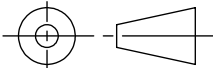
MATERIAL: Glued Pine FSC burnt

COLOR: -

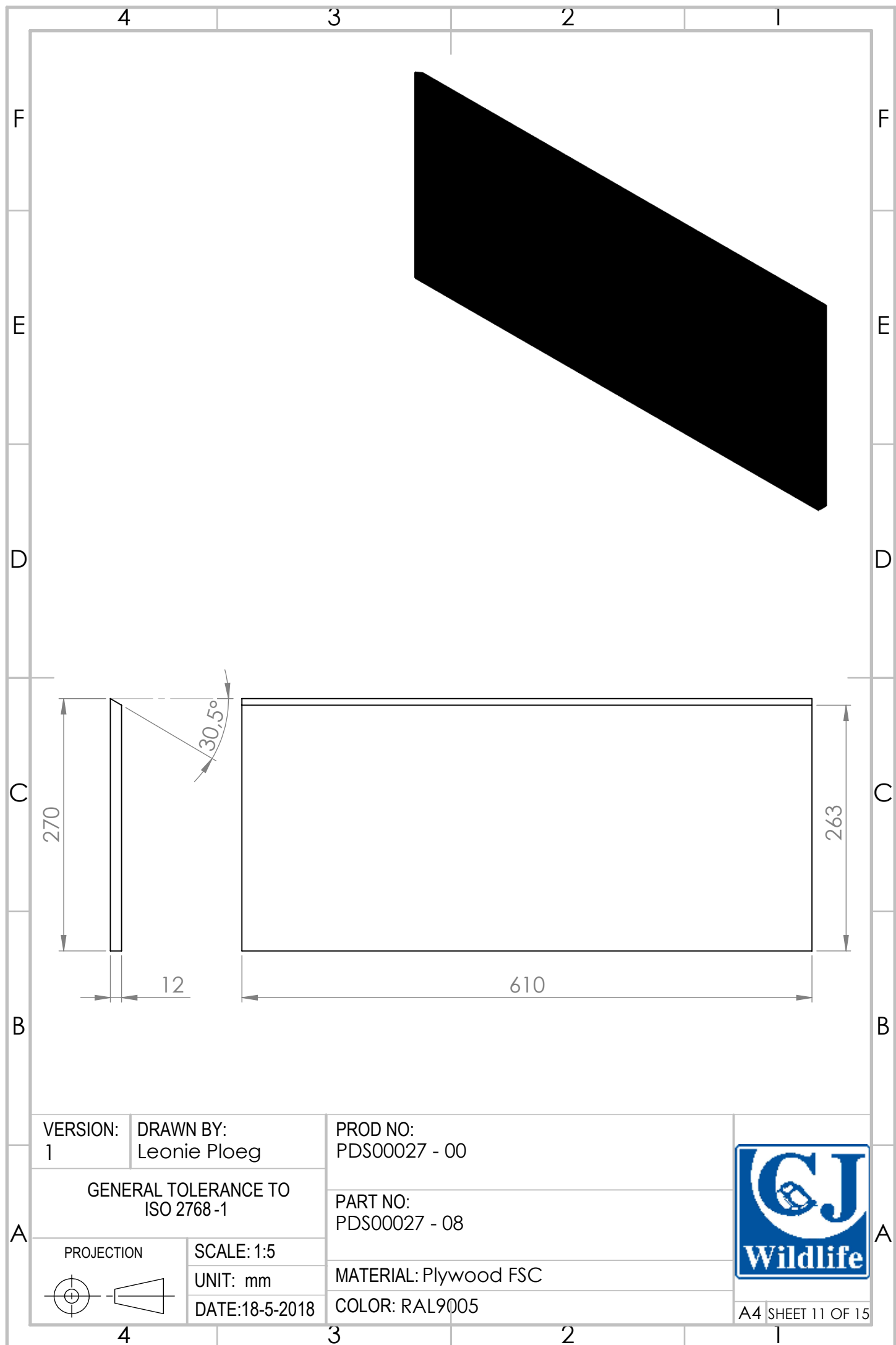


A4 SHEET 9 OF 15



VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00027 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00027 - 07		
		SCALE: 1:5		MATERIAL: Glued Pine FSC burnt		
		UNIT: mm		COLOR: -		
		DATE:18-5-2018				
1		2		3		A4 SHEET 10 OF 15





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00027 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00027 - 08

PROJECTION

SCALE: 1:5

UNIT: mm

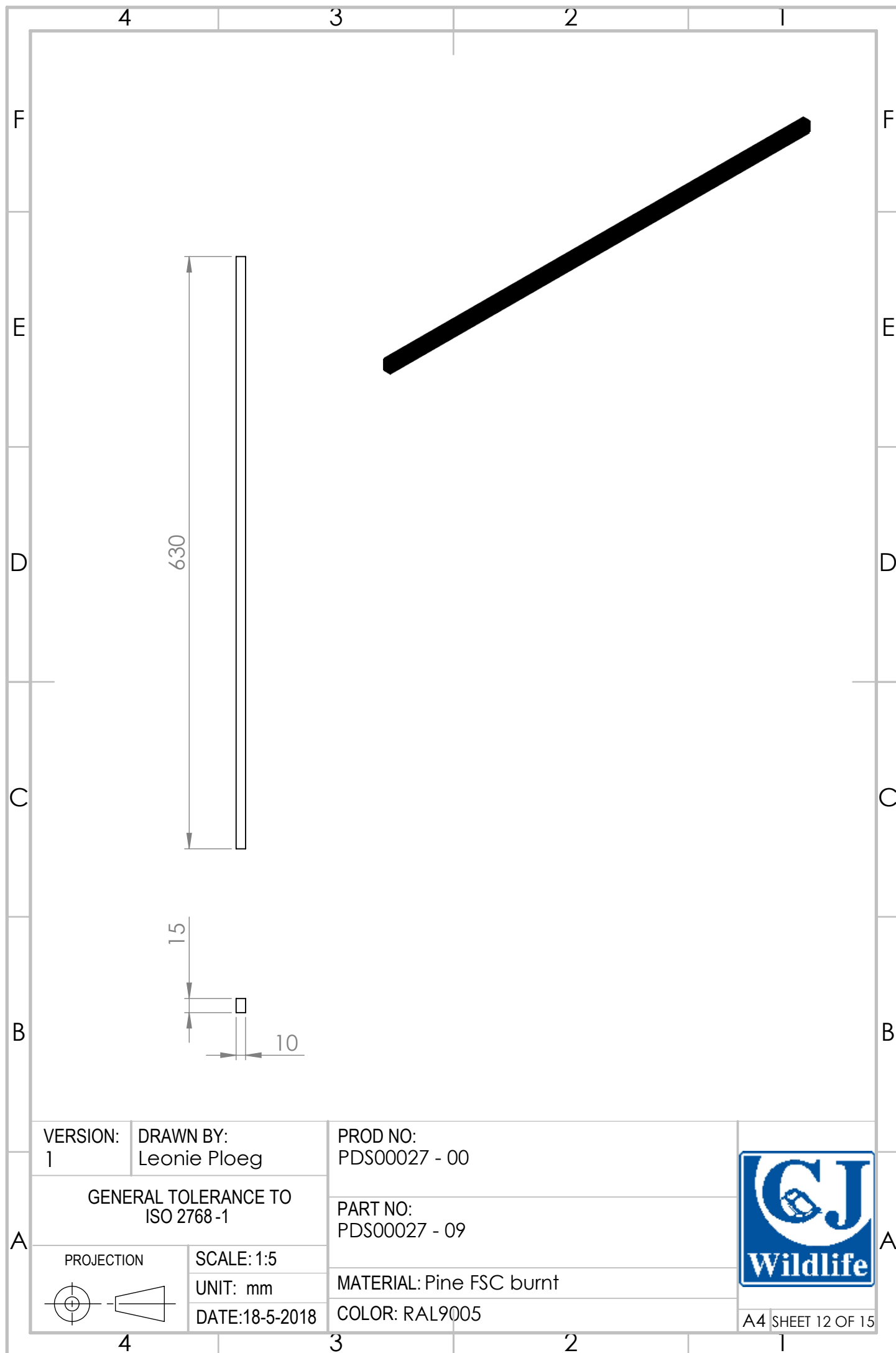
DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005



A4 SHEET 11 OF 15



VERSION: 1
DRAWN BY: Leonie Ploeg

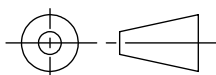
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GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00027 - 09

PROJECTION

SCALE: 1:5



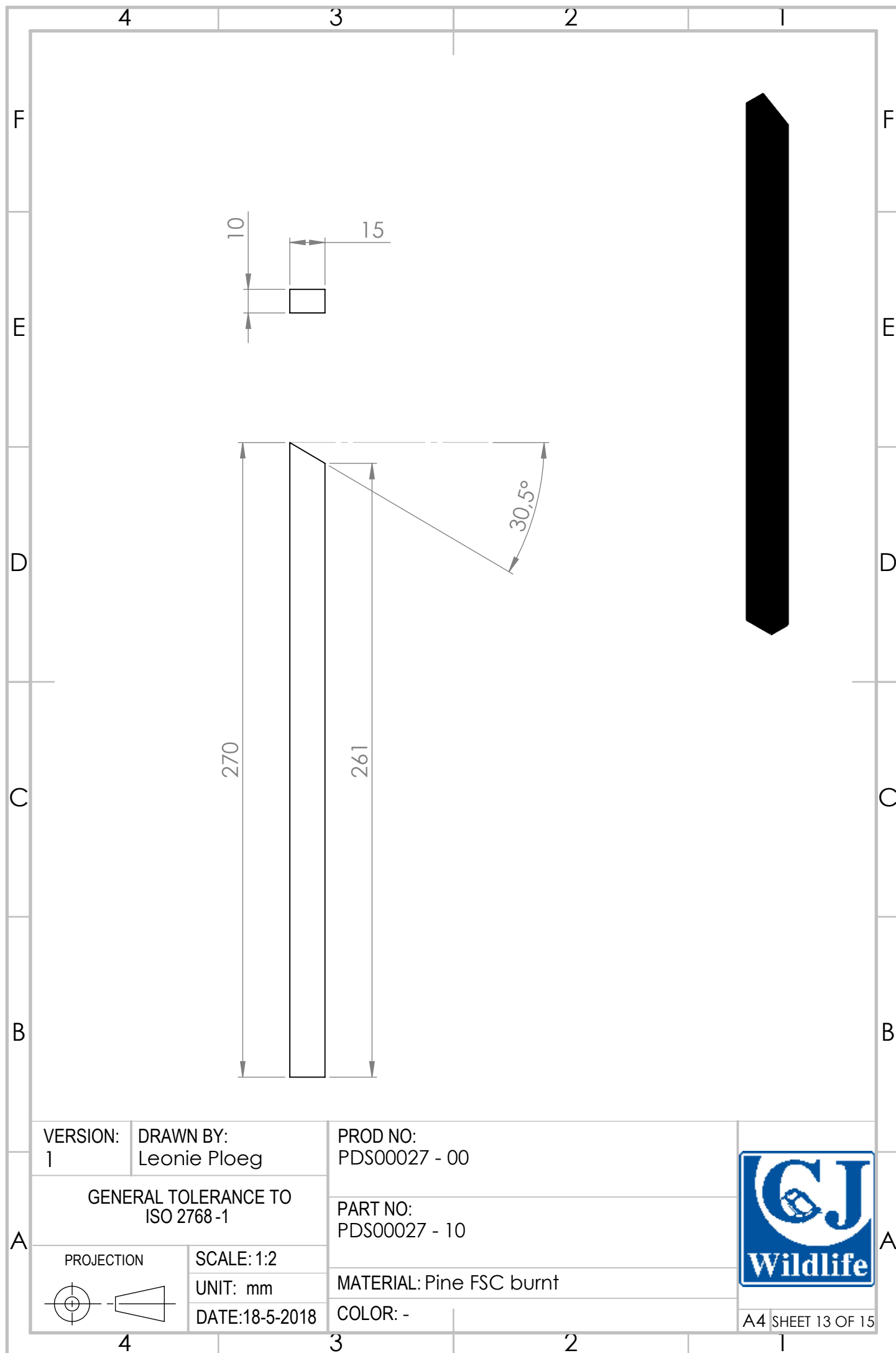
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00027 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00027 - 10

PROJECTION

SCALE: 1:2

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



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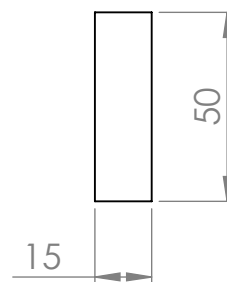
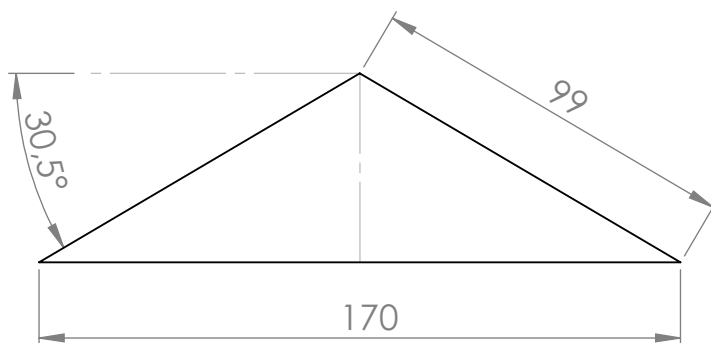
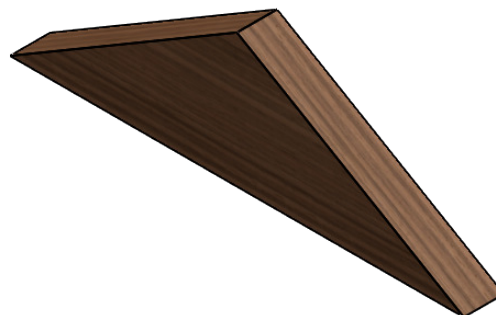
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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00027 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00027 - 11

PROJECTION

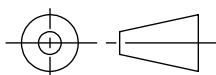
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UNIT: mm

DATE: 18-5-2018

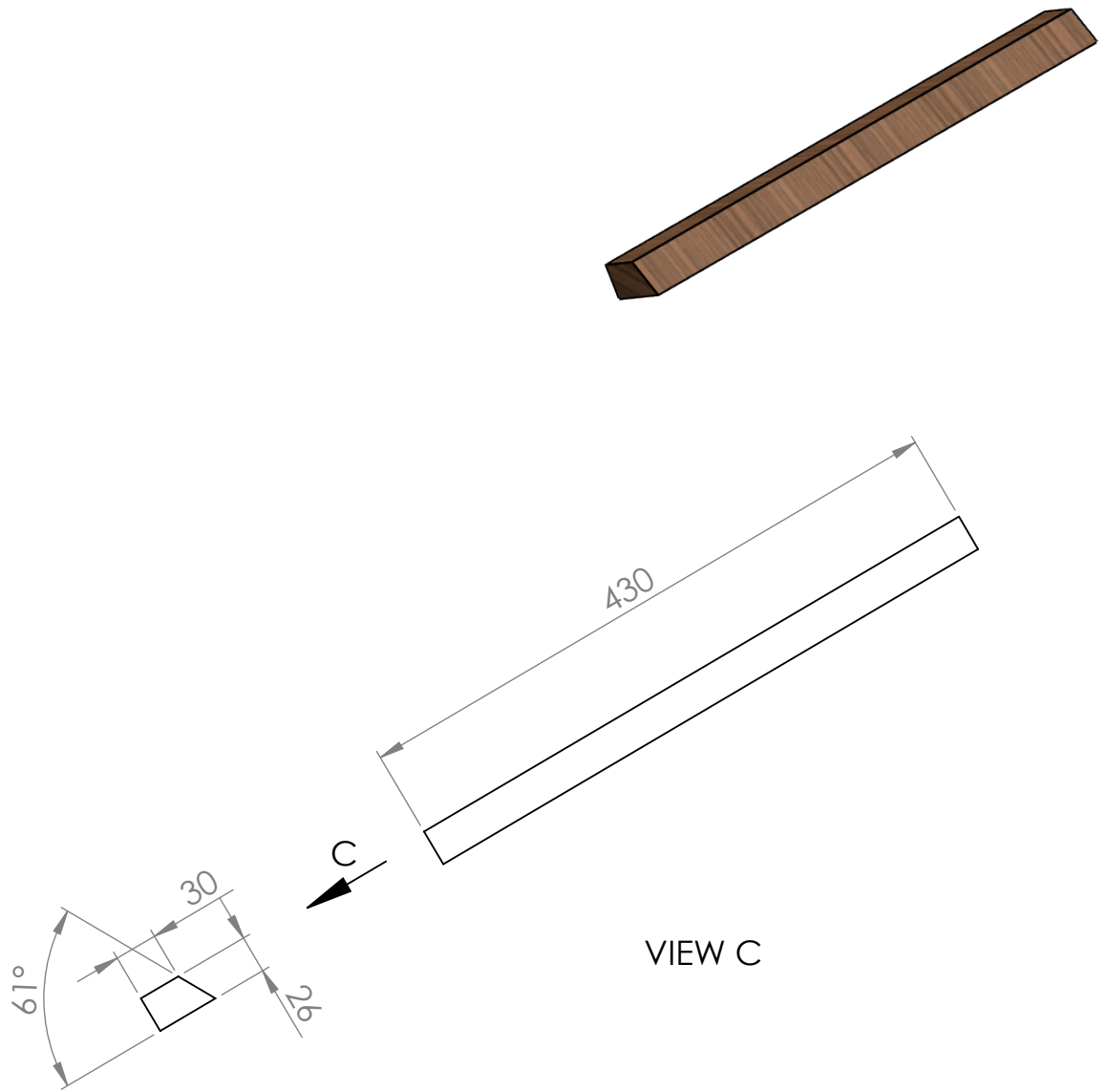
MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 14 OF 15

4 3 2 1



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00027 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00027 - 12

PROJECTION

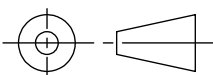
SCALE: 1:5

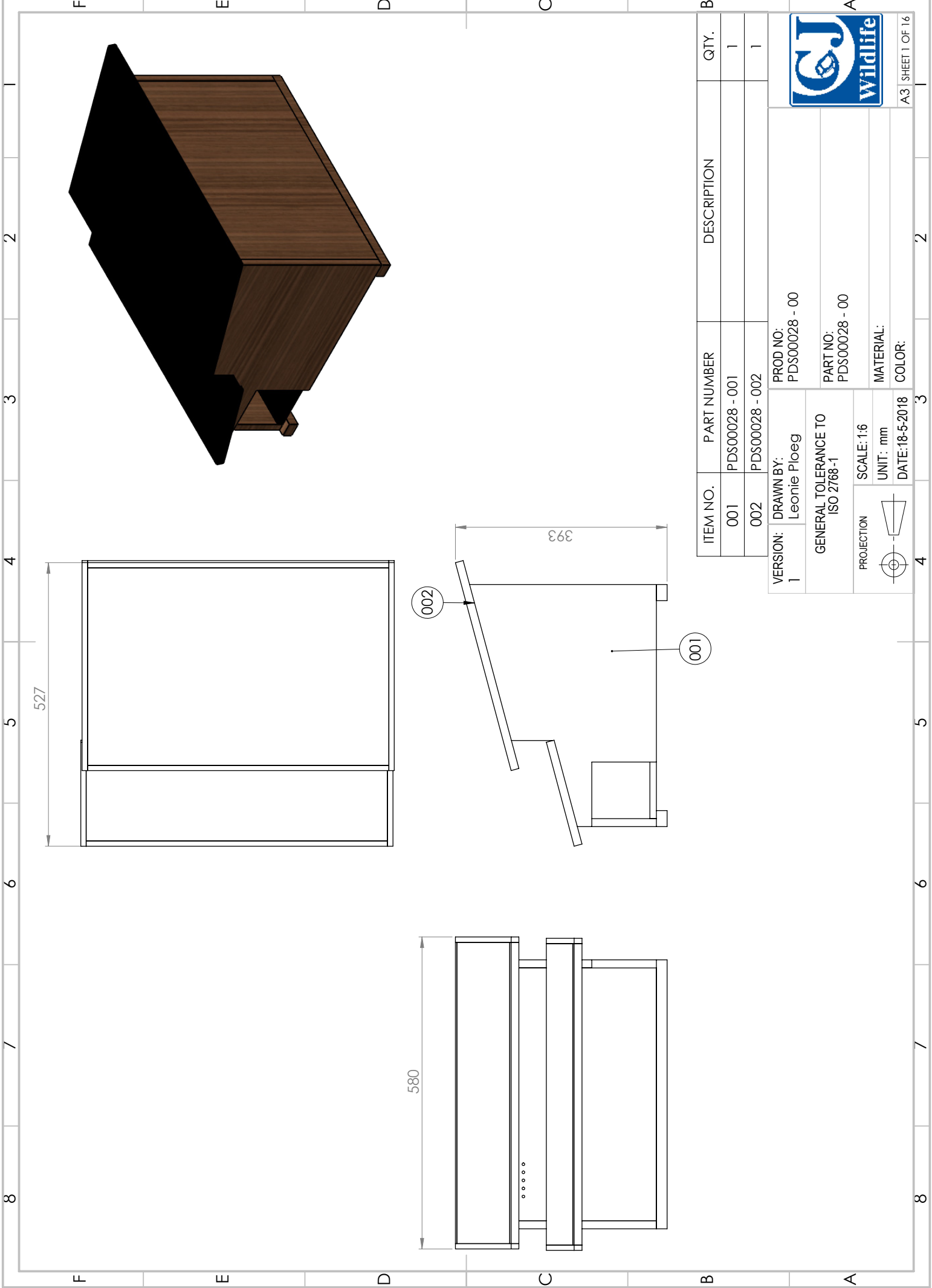
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -





VERSION: 1

DRAWN BY: Leonie Ploeg

GENERAL TOLERANCE TO ISO 2768-1

PROJECTION

SCALE: 1:6

UNIT: mm

DATE: 18-5-2018

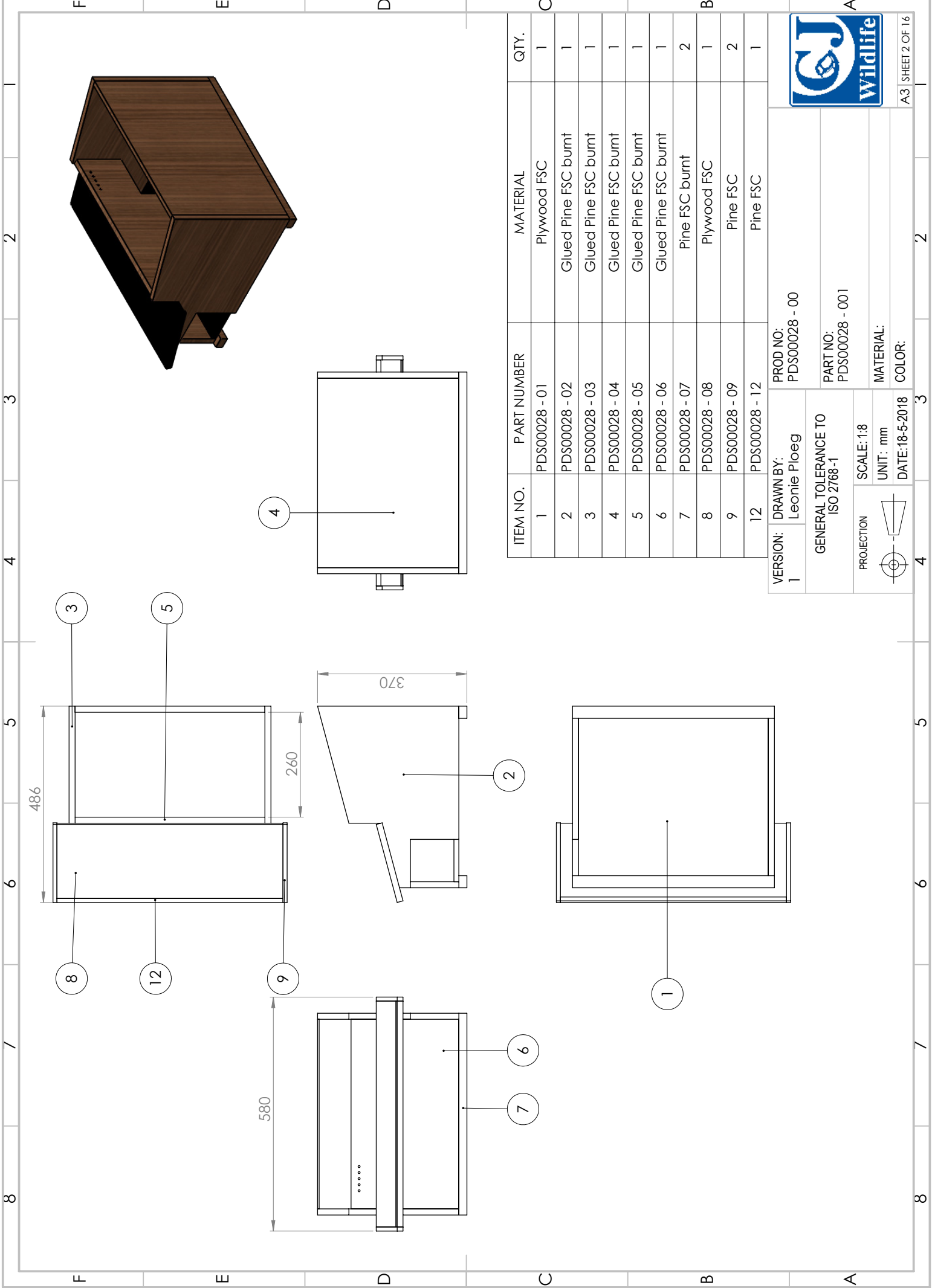
PROD NO: PDS00028 - 00

PART NO: PDS00028 - 00

MATERIAL:

COLOR:

A3 SHEET 1 OF 16



ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00028 - 01	Plywood FSC	1
2	PDS00028 - 02	Glued Pine FSC burnt	1
3	PDS00028 - 03	Glued Pine FSC burnt	1
4	PDS00028 - 04	Glued Pine FSC burnt	1
5	PDS00028 - 05	Glued Pine FSC burnt	1
6	PDS00028 - 06	Glued Pine FSC burnt	1
7	PDS00028 - 07	Pine FSC burnt	2
8	PDS00028 - 08	Plywood FSC	1
9	PDS00028 - 09	Pine FSC	2
12	PDS00028 - 12	Pine FSC	1

VERSION: 1

DRAWN BY: Leonie Ploeg

PROD NO: PDS00028 - 00

GENERAL TOLERANCE TO ISO 2768-1

PROJECTION

SCALE: 1:8

UNIT: mm

DATE: 18-5-2018

MATERIAL:

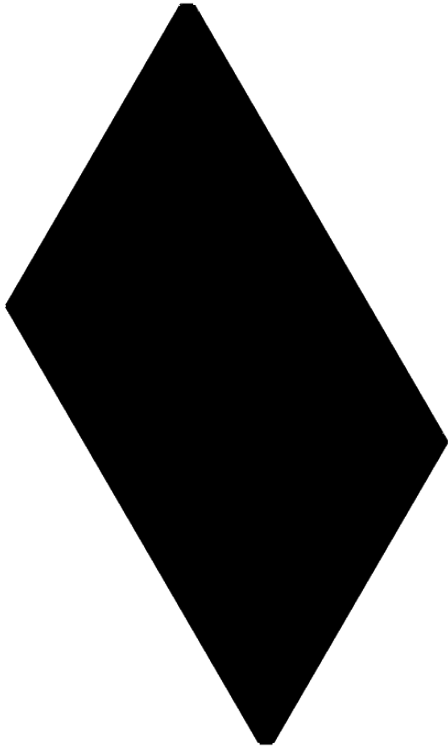
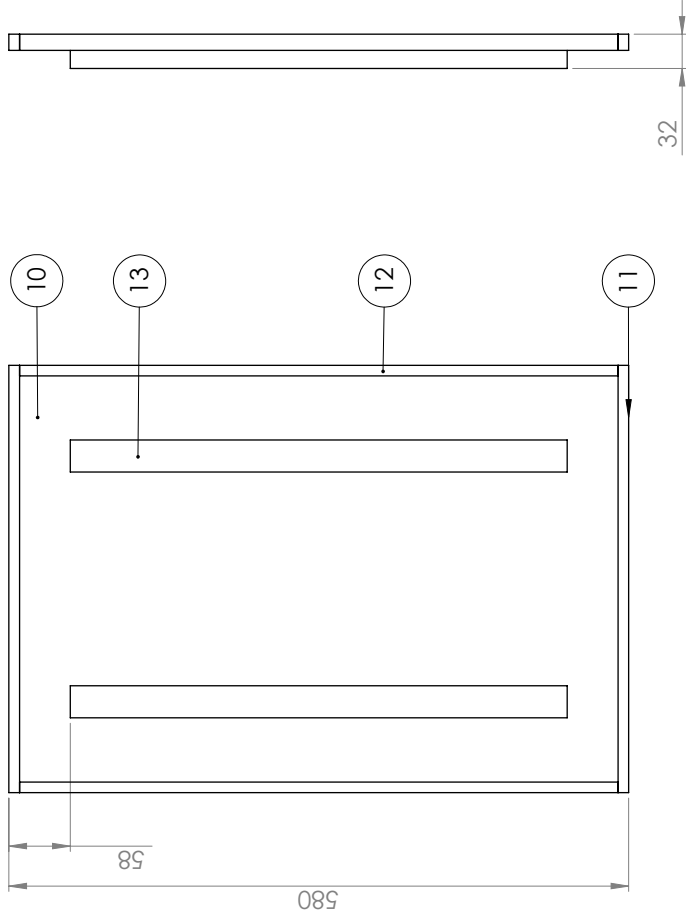
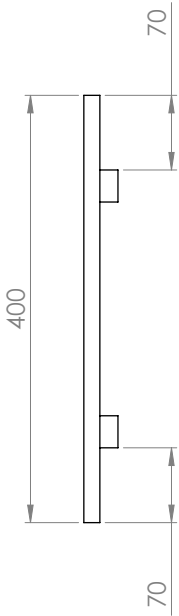
COLOR:

PART NO: PDS00028 - 001

PROJ NO: PDS00028 - 00

A3 SHEET 2 OF 16





ITEM NO.	PART NUMBER	MATERIAL	QTY.
10	PDS00028 - 10	Plywood FSC	1
11	PDS00028 - 11	Pine FSC	2
12	PDS00028 - 12	Pine FSC	2
13	PDS00028 - 13	Pine FSC	2

VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00028 - 00	
GENERAL TOLERANCE TO ISO 2768-1		SCALE: 1:5		PART NO: PDS00028 - 002	
PROJECTION		UNIT: mm		MATERIAL:	
		DATE: 18-5-2018		COLOR:	



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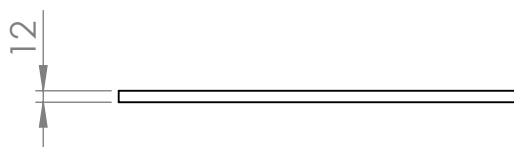
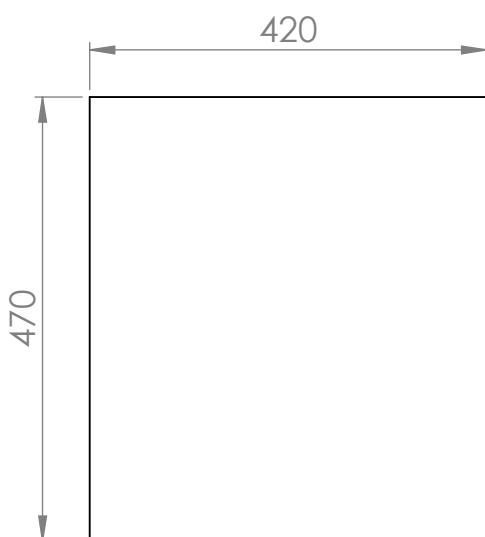
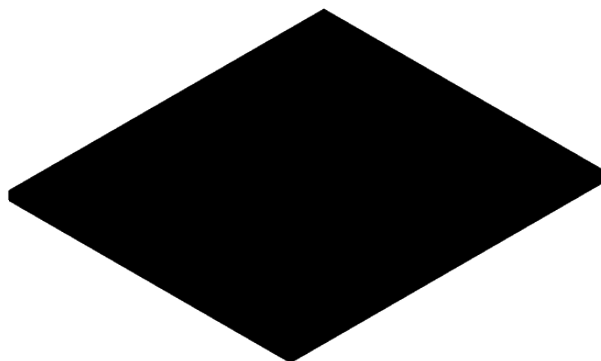
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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00028 - 00

GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00028 - 01

PROJECTION

SCALE: 1:8

UNIT: mm

DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005



A4 SHEET 4 OF 16

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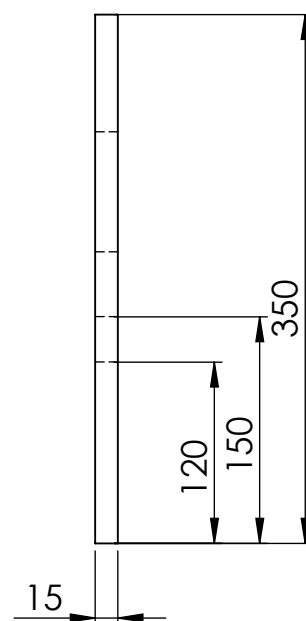
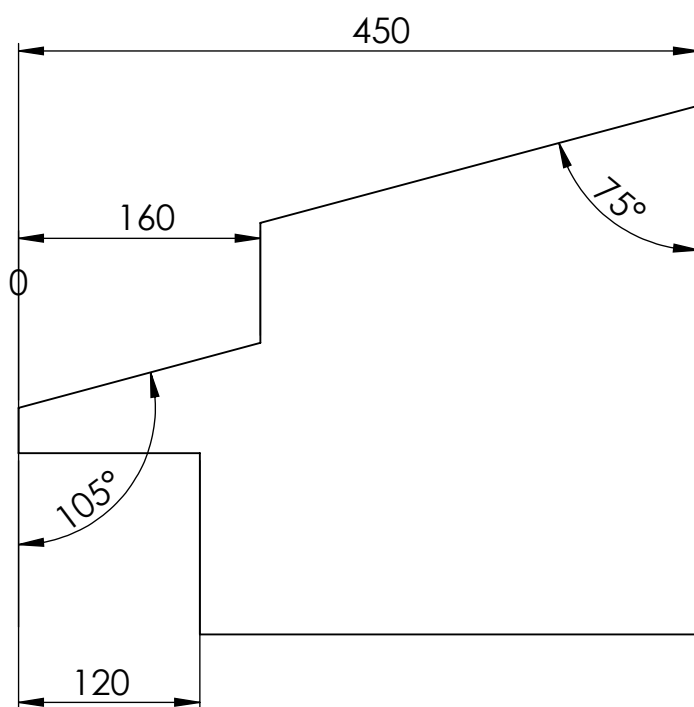
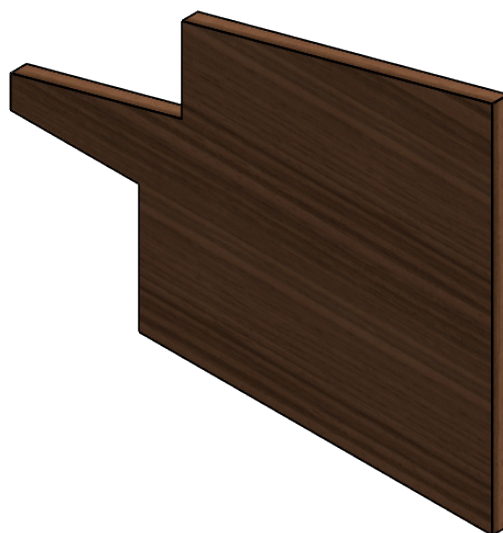
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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00028 - 02

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt

COLOR: -



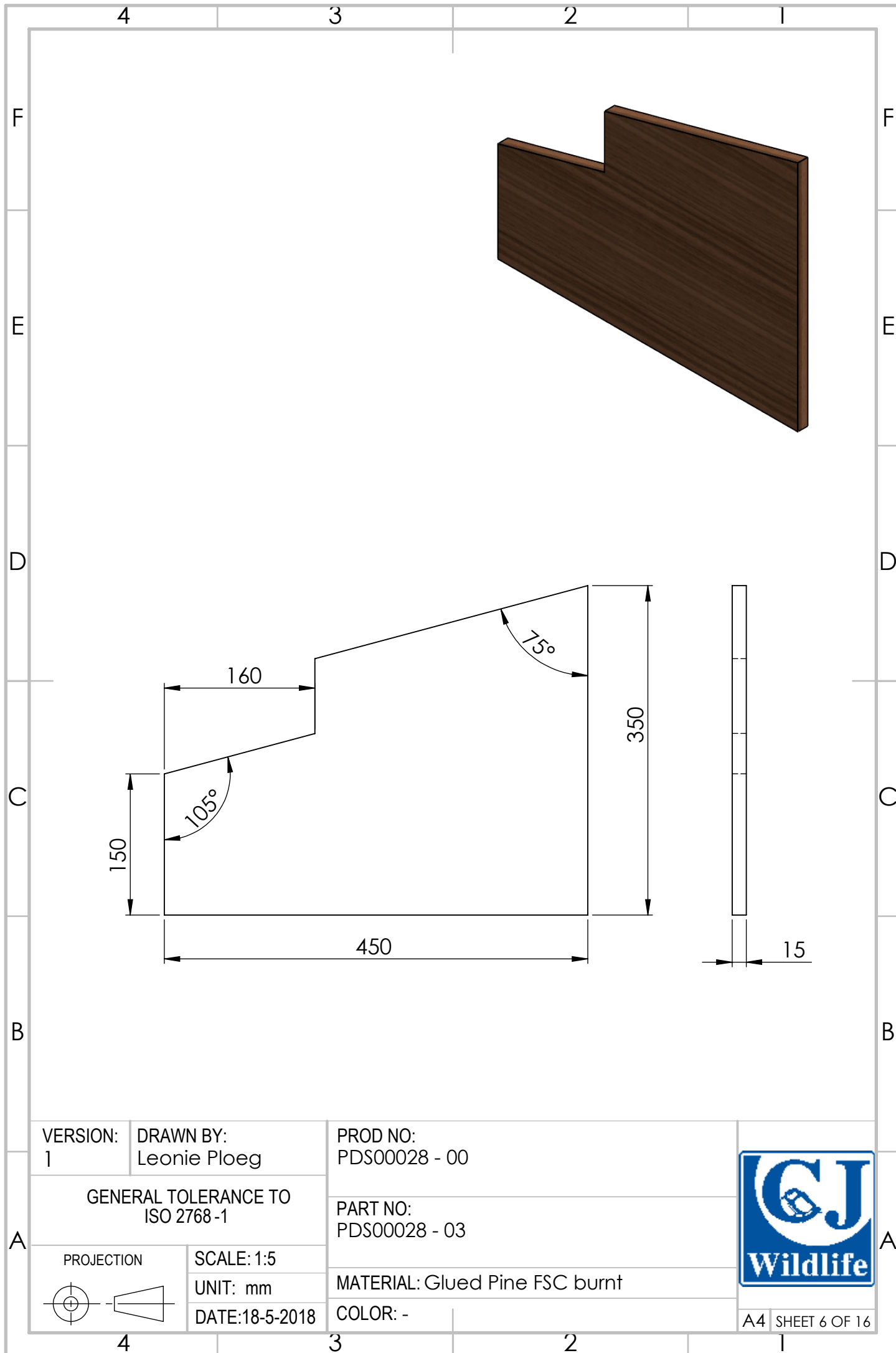
A4 SHEET 5 OF 16

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00028 - 03

PROJECTION

SCALE: 1:5

UNIT: mm

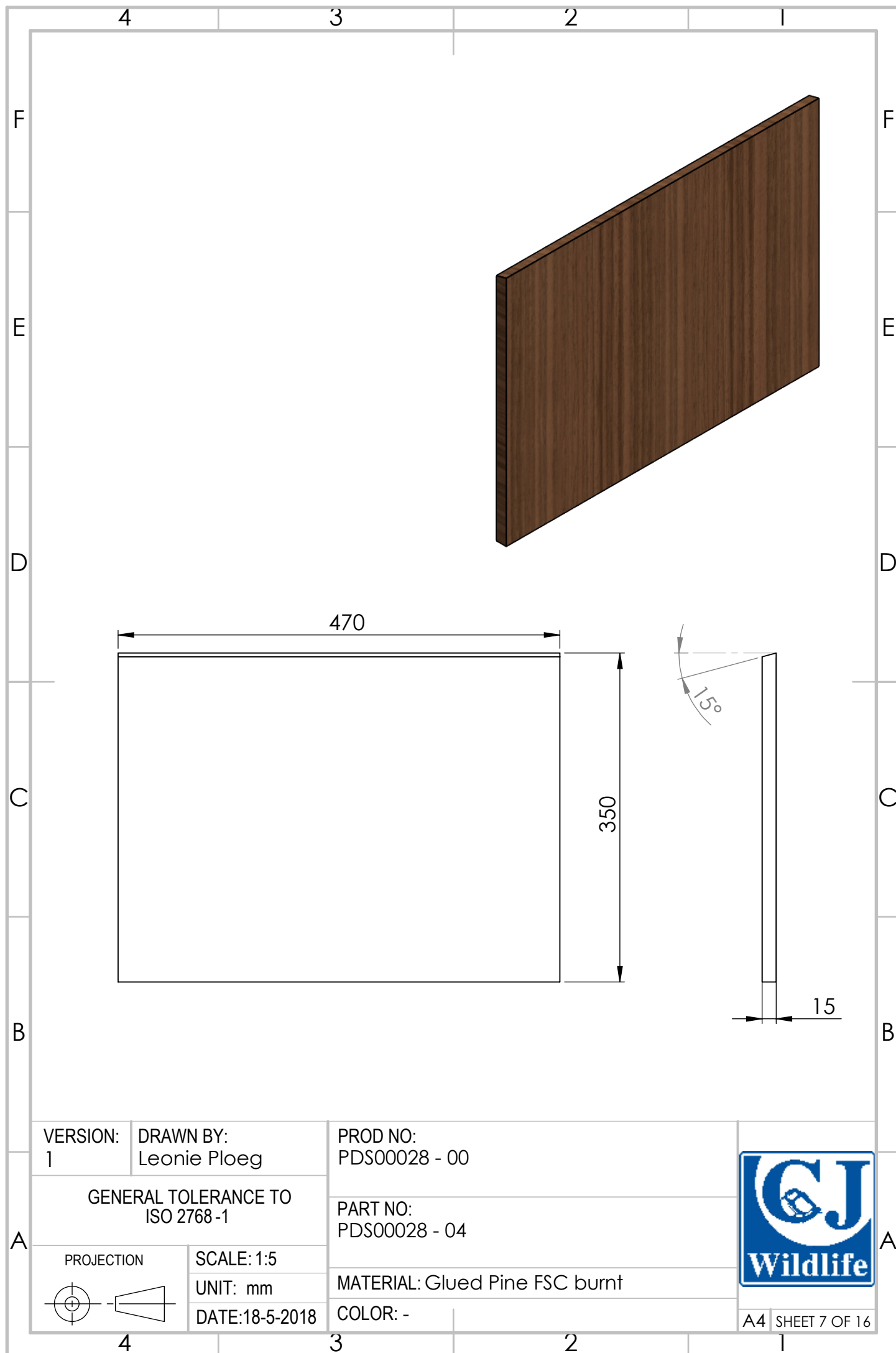
DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt

COLOR: -



A4 SHEET 6 OF 16



VERSION: 1
DRAWN BY: Leonie Ploeg

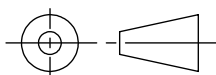
PROD NO: PDS00028 - 00

GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00028 - 04

PROJECTION

SCALE: 1:5



UNIT: mm

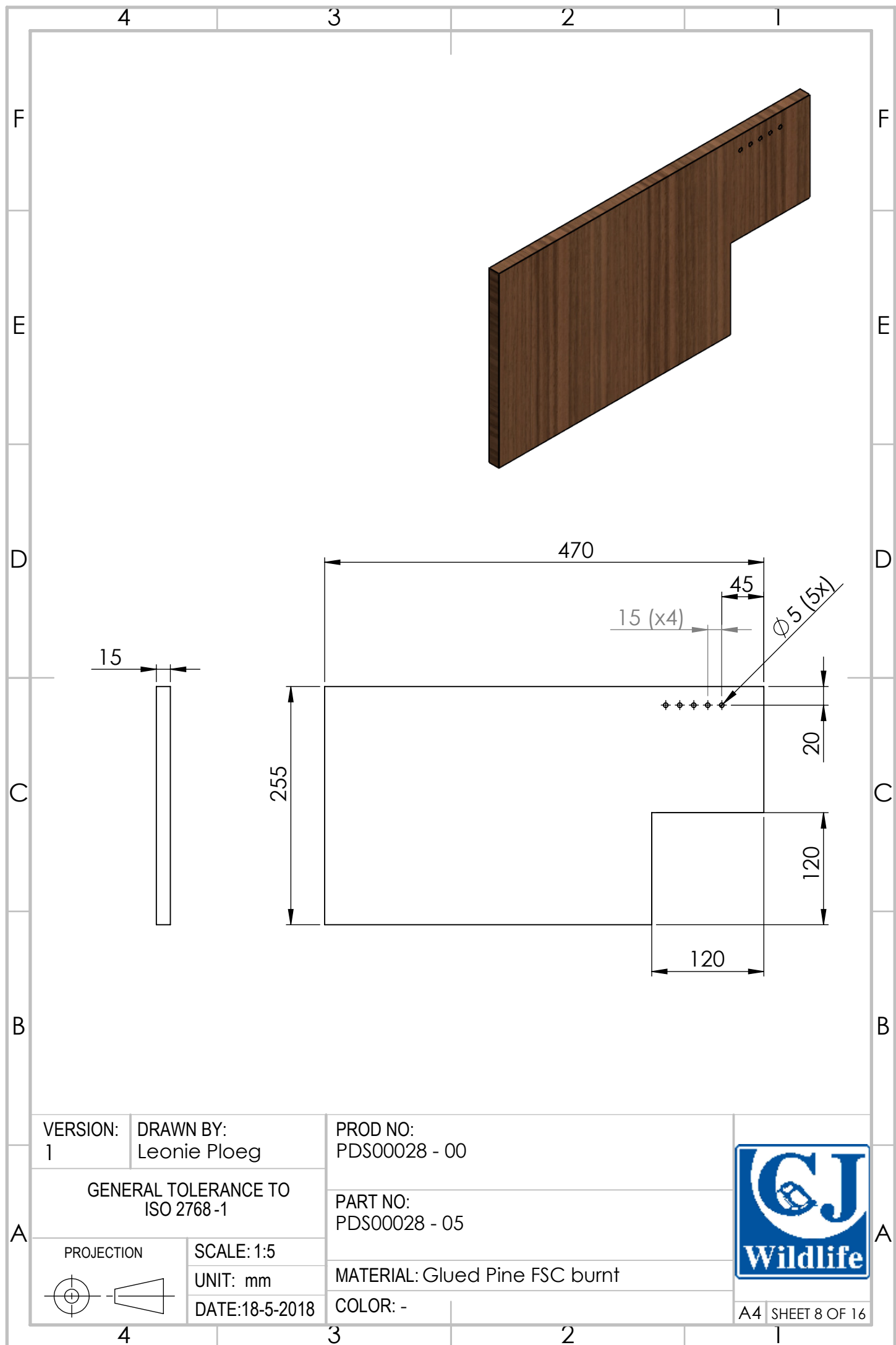
DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt

COLOR: -



A4 SHEET 7 OF 16



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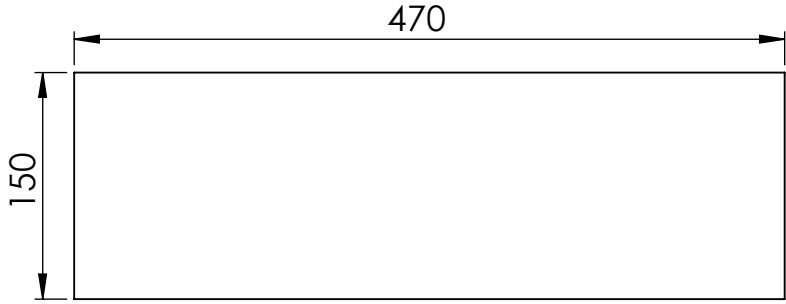
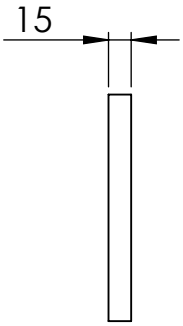
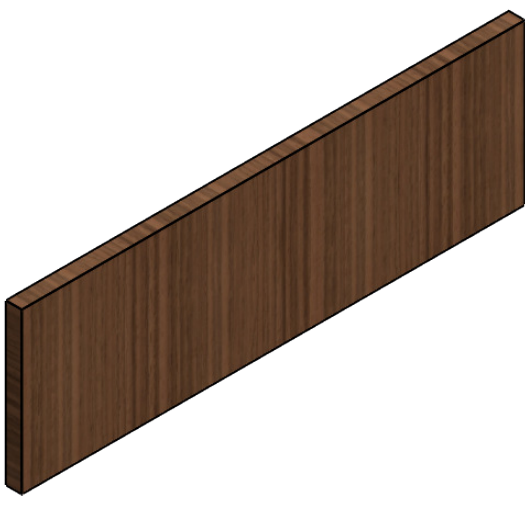
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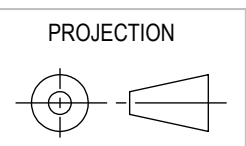


VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00028 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00028 - 06



SCALE: 1:5
UNIT: mm
DATE: 18-5-2018

MATERIAL: Glued Pine FSC burnt
COLOR: -



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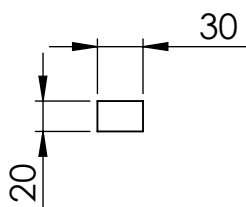
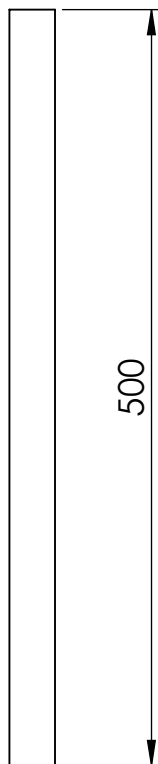
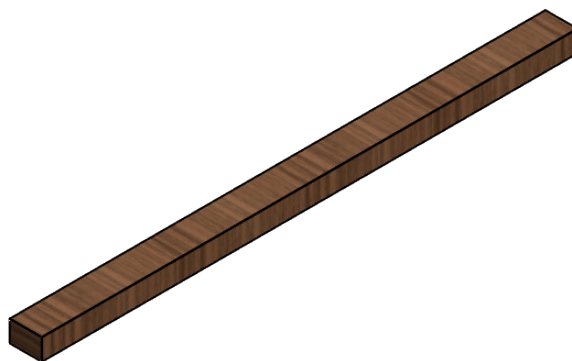
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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00028 - 07

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



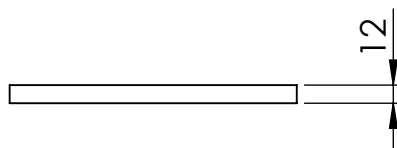
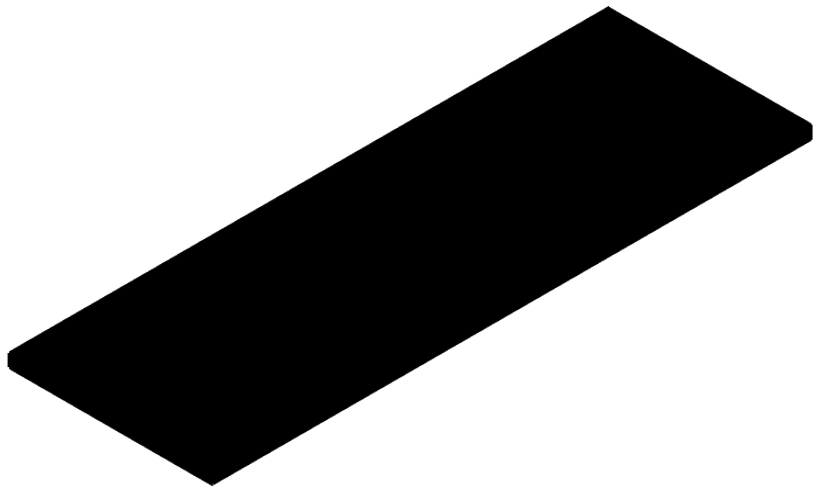
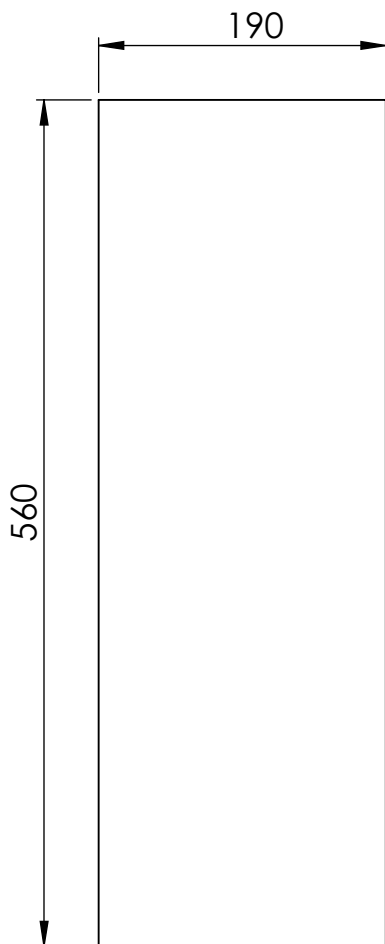
A4 SHEET 10 OF 16

4

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1



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00028 - 08

PROJECTION

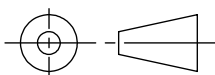
SCALE: 1:5

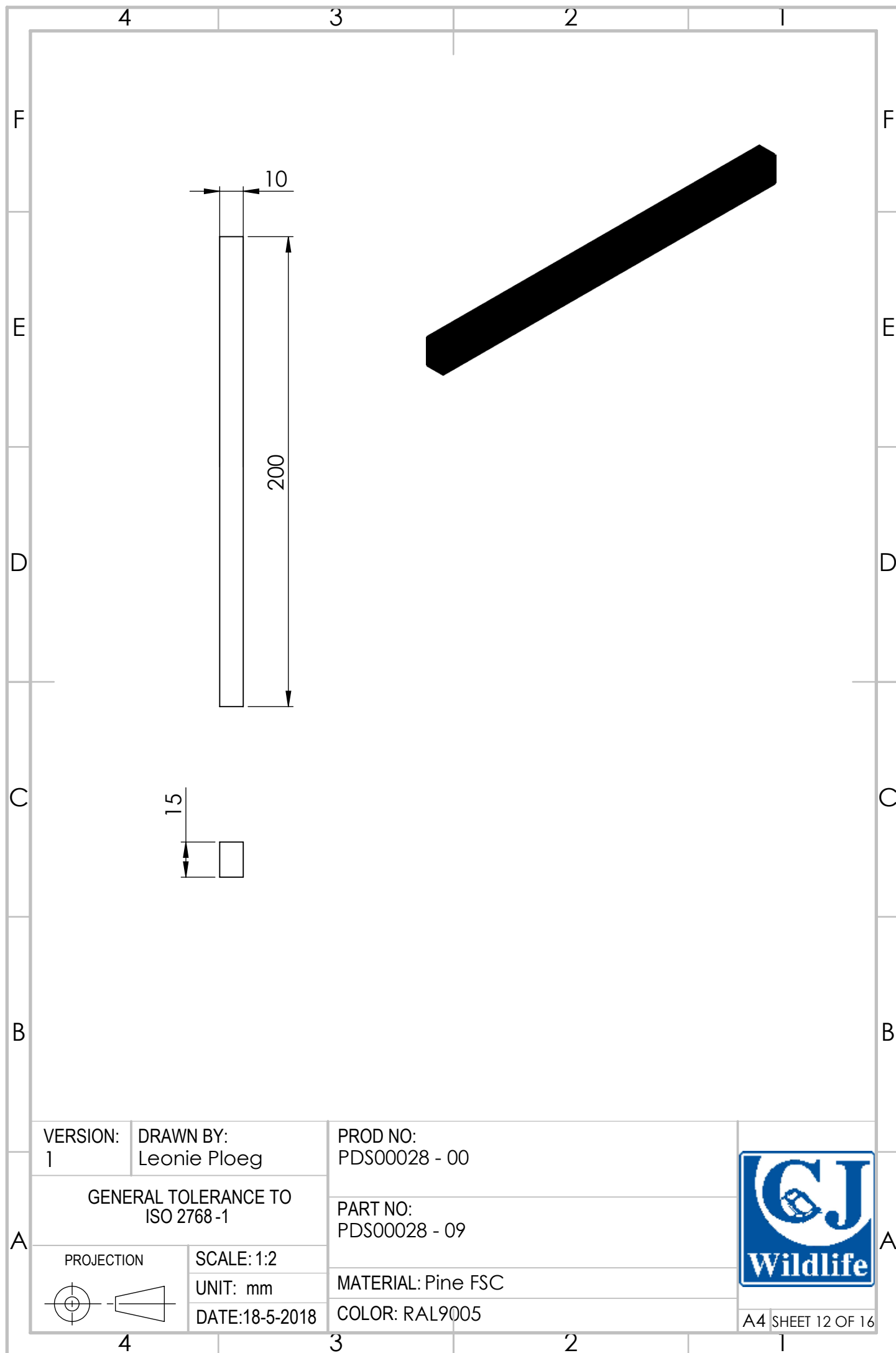
UNIT: mm

DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00028 - 09

PROJECTION

SCALE: 1:2

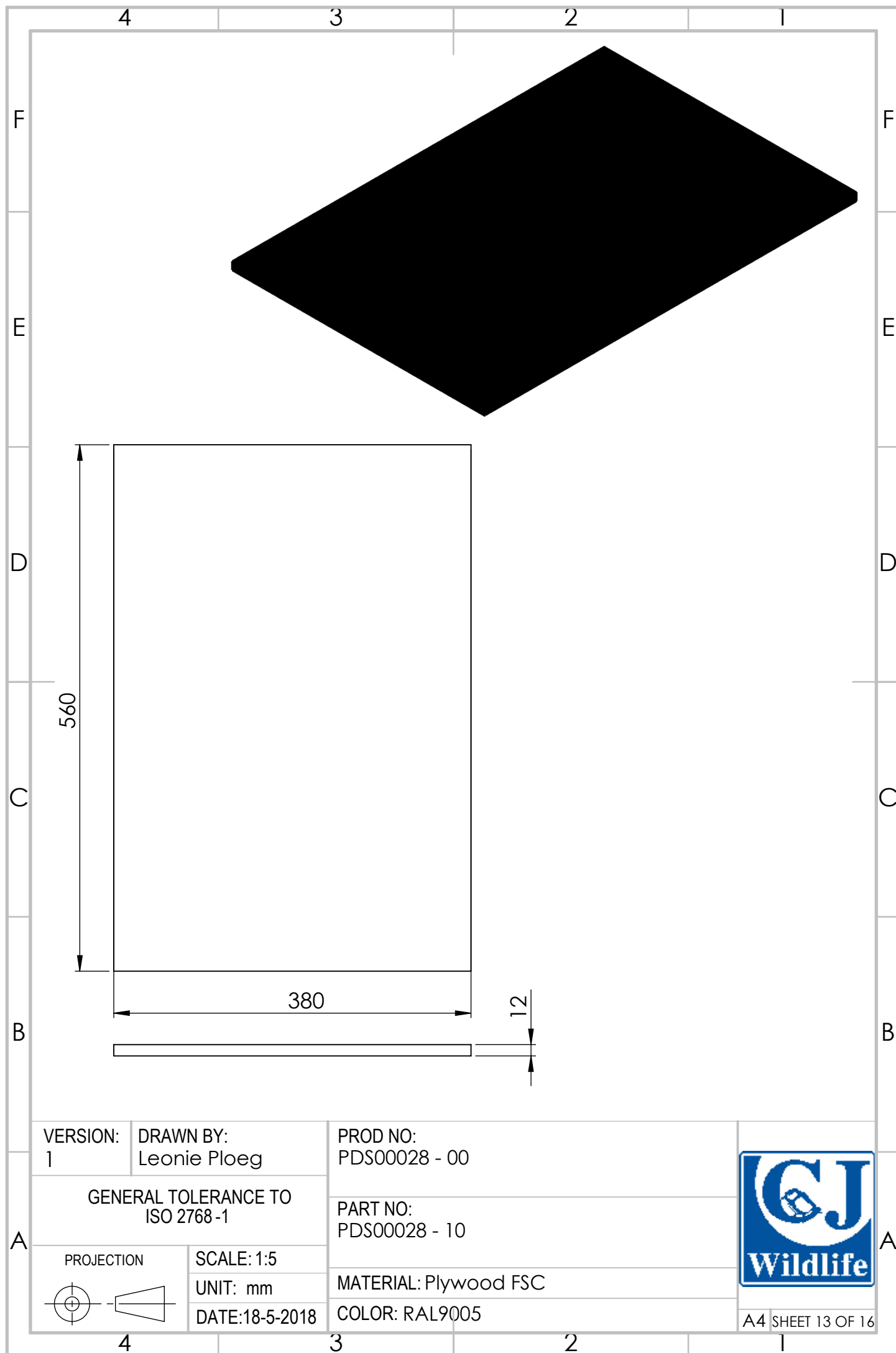
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC

COLOR: RAL9005





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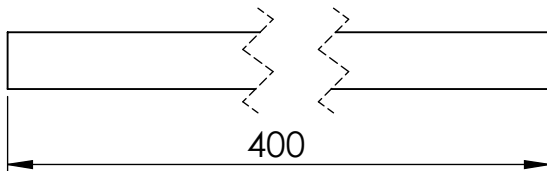
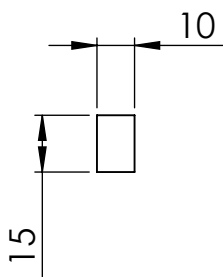
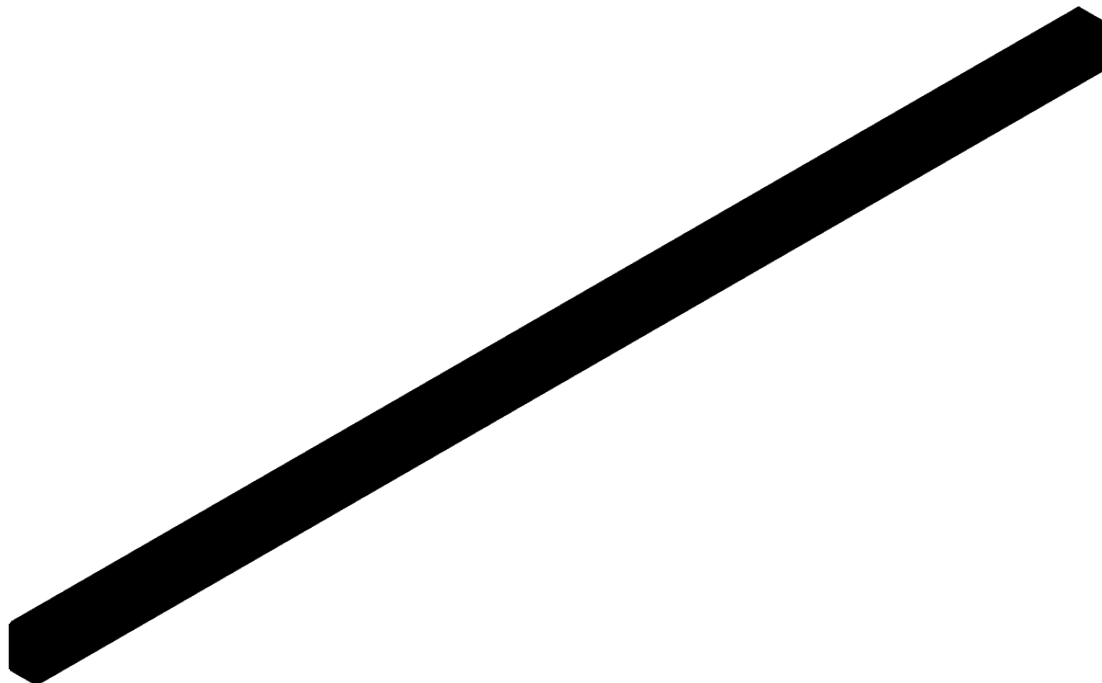
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VERSION: 1
DRAWN BY: Leonie Ploeg

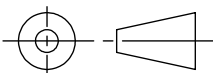
PROD NO: PDS00028 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00028 - 11

PROJECTION

SCALE: 1:2



UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC

COLOR: RAL9005



4 3 2 1

4 3 2 1

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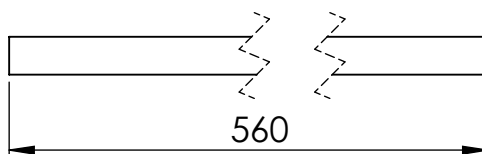
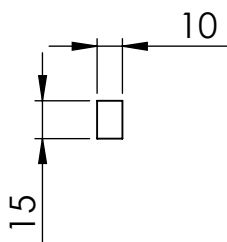
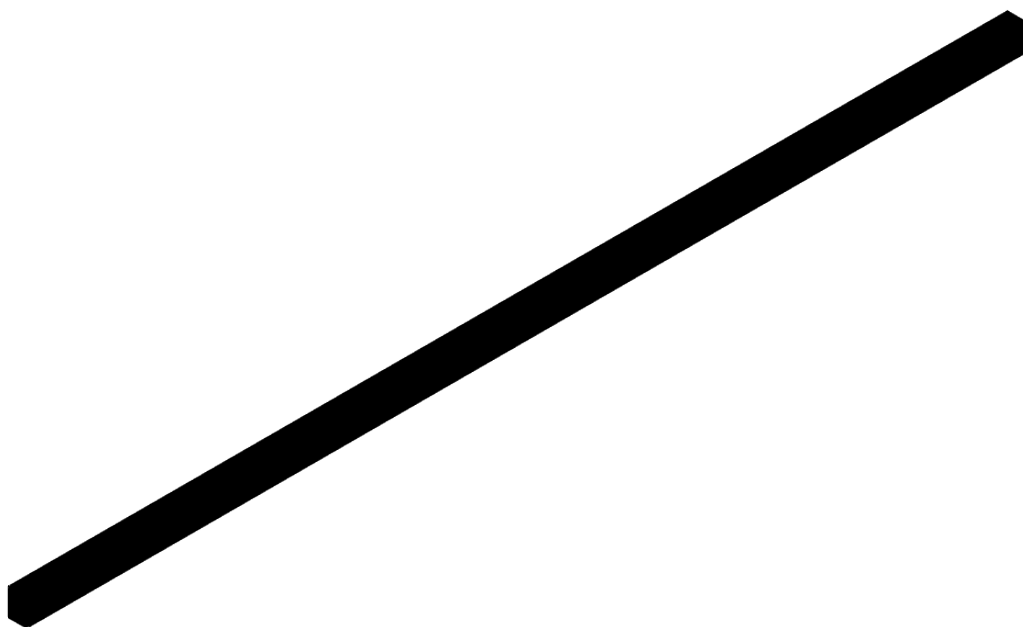
C

B

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A



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00028 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00028 - 12

PROJECTION

SCALE: 1:3

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC

COLOR: RAL9005



A4 SHEET 15 OF 16

4 3 2 1

4 3 2 1

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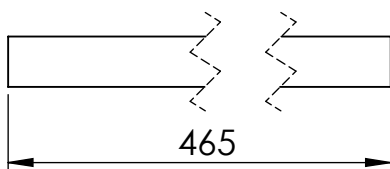
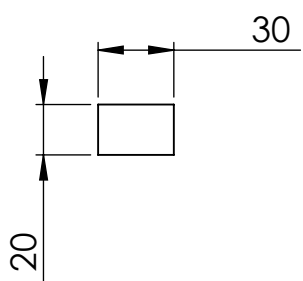
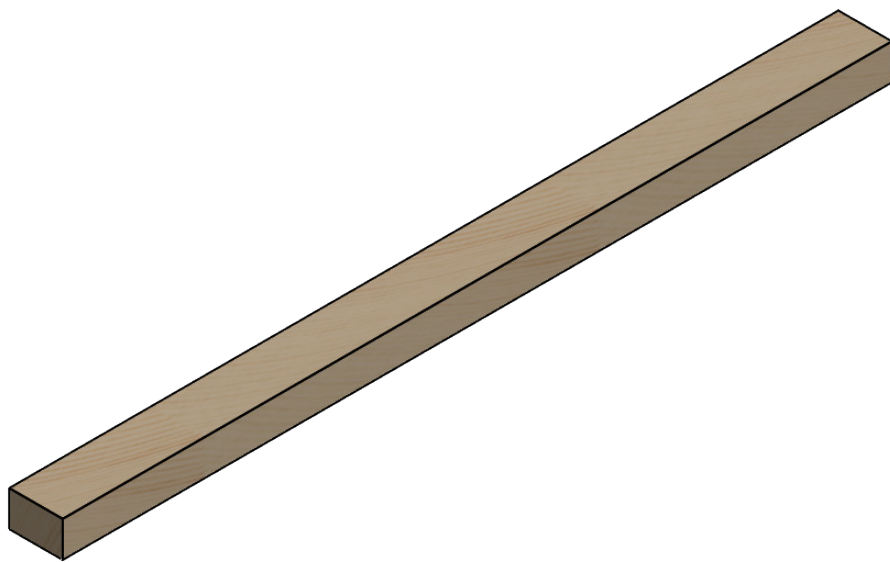
C

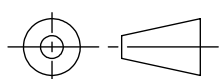
B

B

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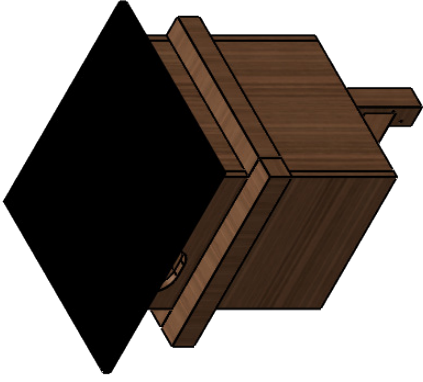
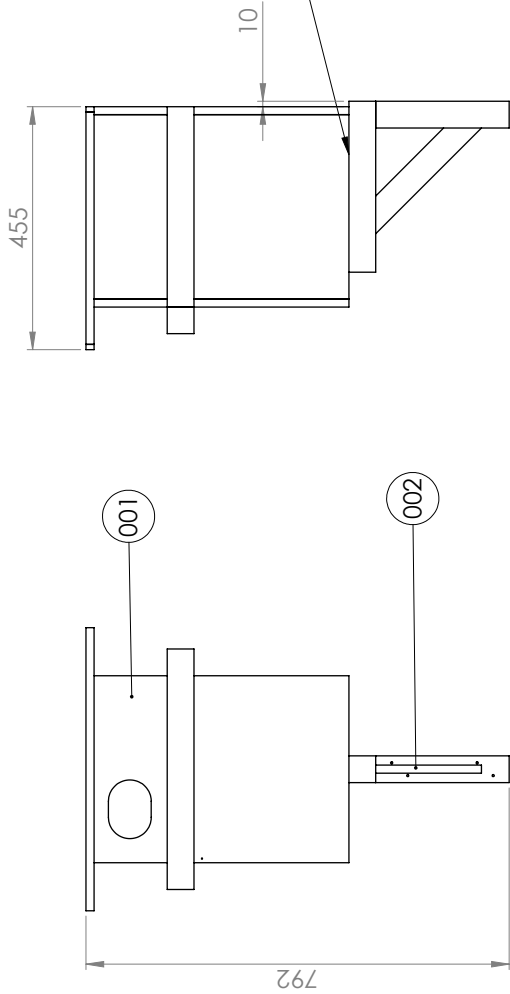
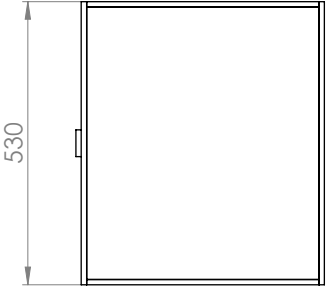
A



VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00028 - 00	
GENERAL TOLERANCE TO ISO 2768-1		SCALE: 1:3		PART NO: PDS00028 - 13	
		UNIT: mm		MATERIAL: Pine FSC	
PROJECTION		DATE: 18-5-2018		COLOR: -	
					



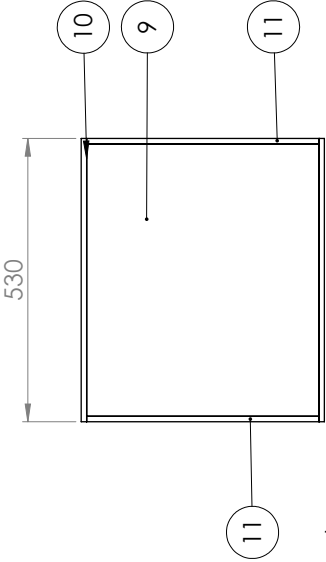
4 3 2 1



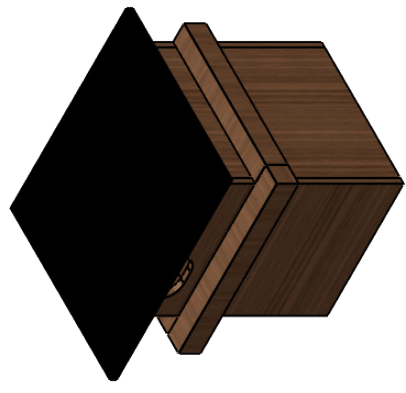
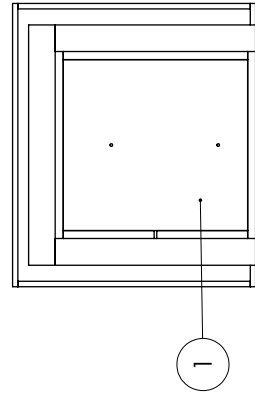
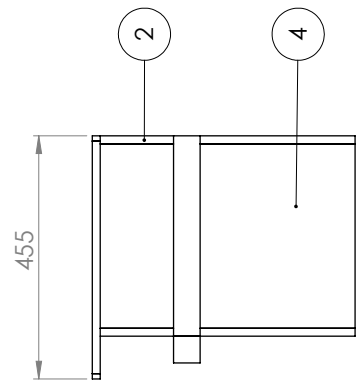
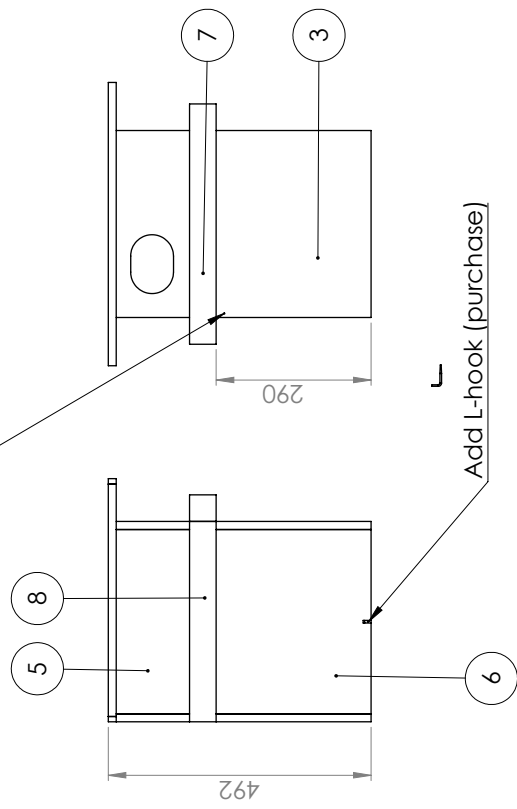
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
001	PDS00023 - 001		1
002	PDS00023 - 002		1

VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00023 - 00	
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00023 - 00	
PROJECTION		SCALE: 1:10		MATERIAL:	
		UNIT: mm		COLOR:	
		DATE: 18-5-2018			





Add roundhead screw and washer as a hinge (2x)



ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00023 - 01	Plywood FSC	1
2	PDS00023 - 02	Glued pine FSC burnt	1
3	PDS00023 - 03	Glued pine FSC burnt	1
4	PDS00023 - 04	Glued pine FSC burnt	1
5	PDS00023 - 05	Glued pine FSC burnt	1
6	PDS00023 - 06	Glued pine FSC burnt	1
7	PDS00023 - 07	Pine FSC burnt	1
8	PDS00023 - 08	Pine FSC burnt	2
9	PDS00023 - 09	Plywood FSC	1
10	PDS00023 - 10	Pine FSC	2
11	PDS00023 - 11	Pine FSC	2

VERSION: 1

DRAWN BY: Leonie Ploeg

GENERAL TOLERANCE TO ISO 2768 -1

PROJECTION

SCALE: 1:10

UNIT: mm

DATE: 18-5-2018

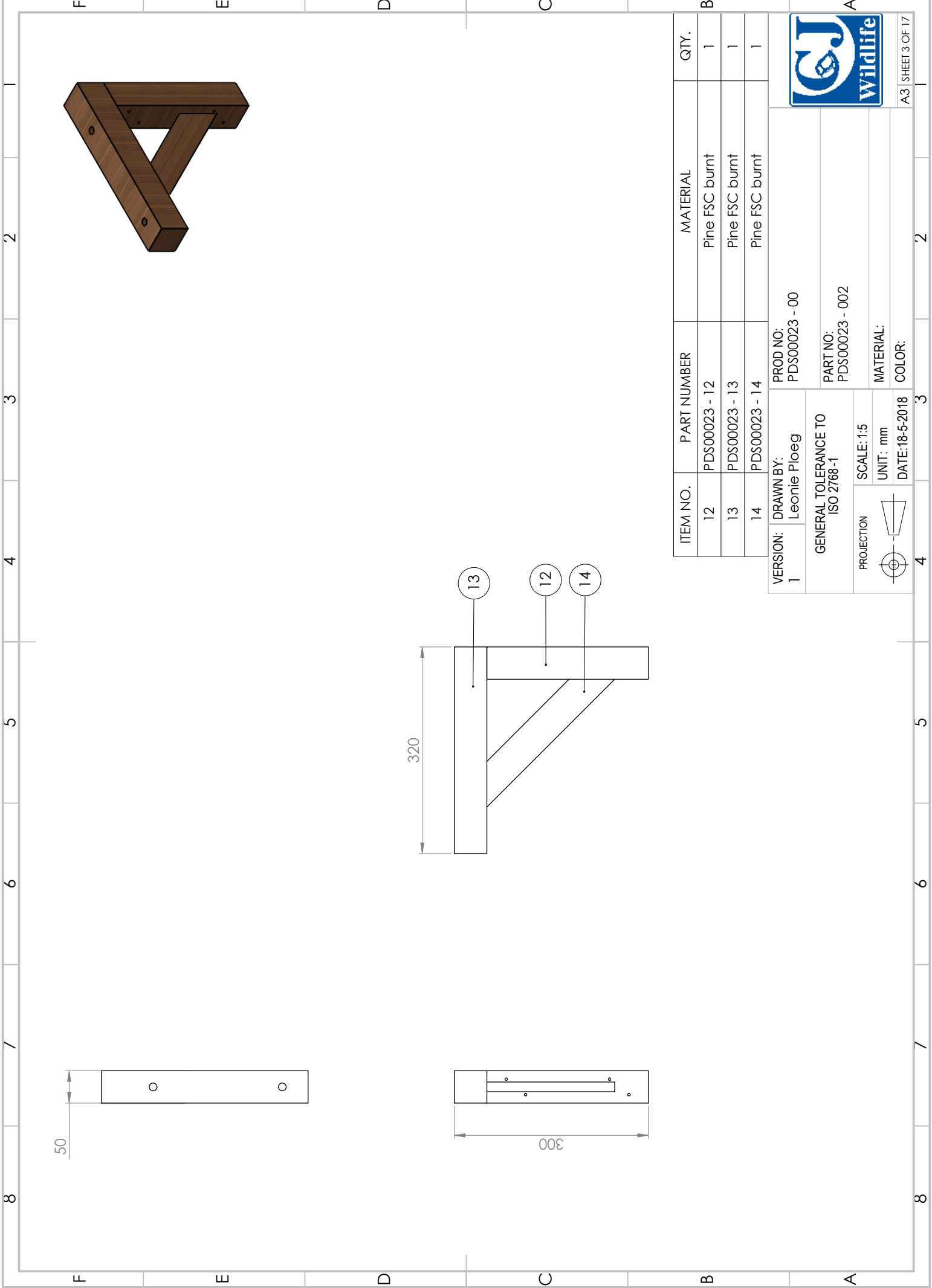
PROD NO: PDS00023 - 00

PART NO: PDS00023 - 001

MATERIAL:

COLOR:

A3 SHEET 2 OF 17



ITEM NO.	PART NUMBER	MATERIAL	QTY.
12	PDS00023 - 12	Pine FSC burnt	1
13	PDS00023 - 13	Pine FSC burnt	1
14	PDS00023 - 14	Pine FSC burnt	1

VERSION: 1

DRAWN BY: Leonie Ploeg

PROD NO: PDS00023 - 00

GENERAL TOLERANCE TO ISO 2768 -1

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

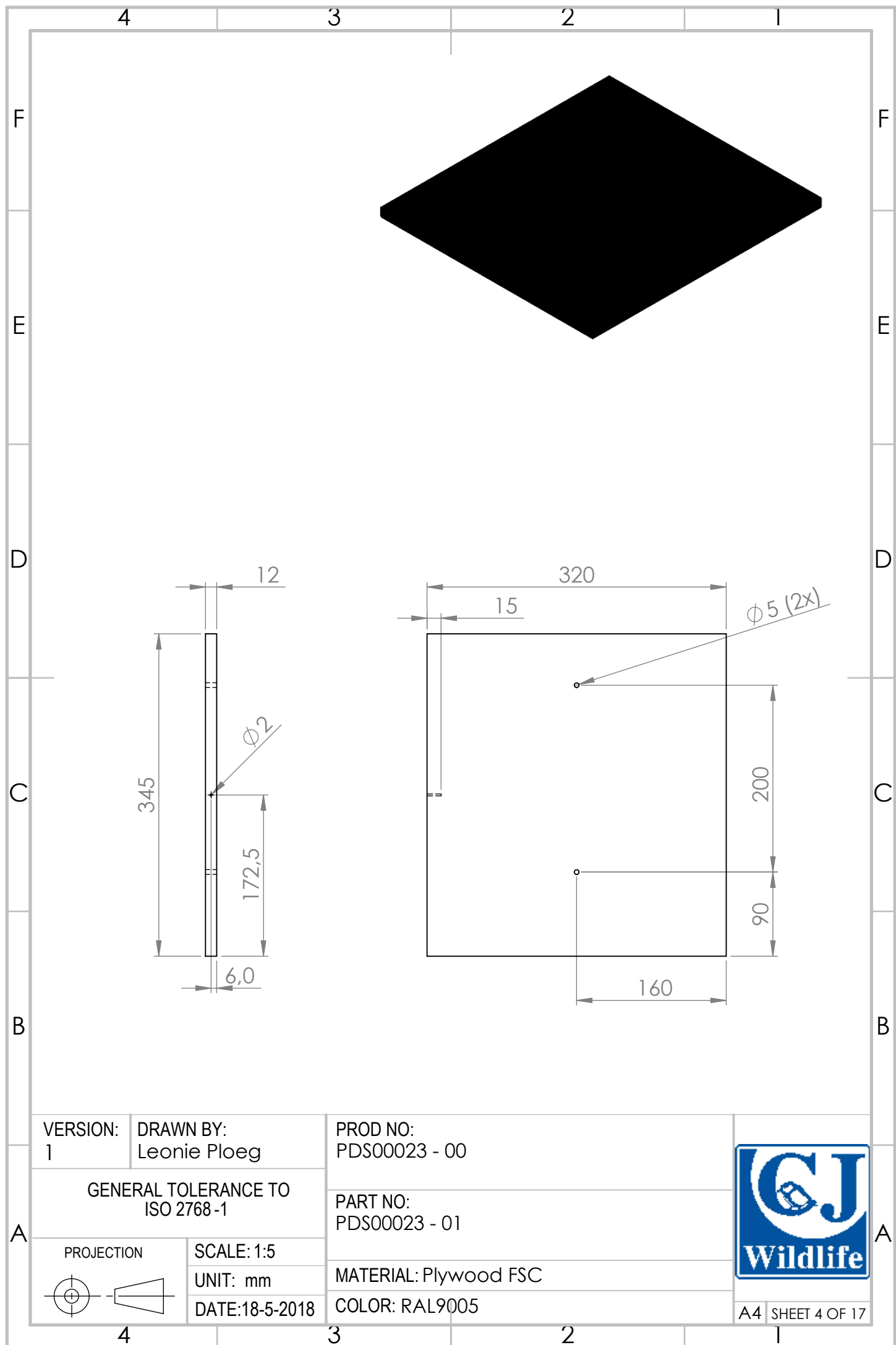
PROJECTION

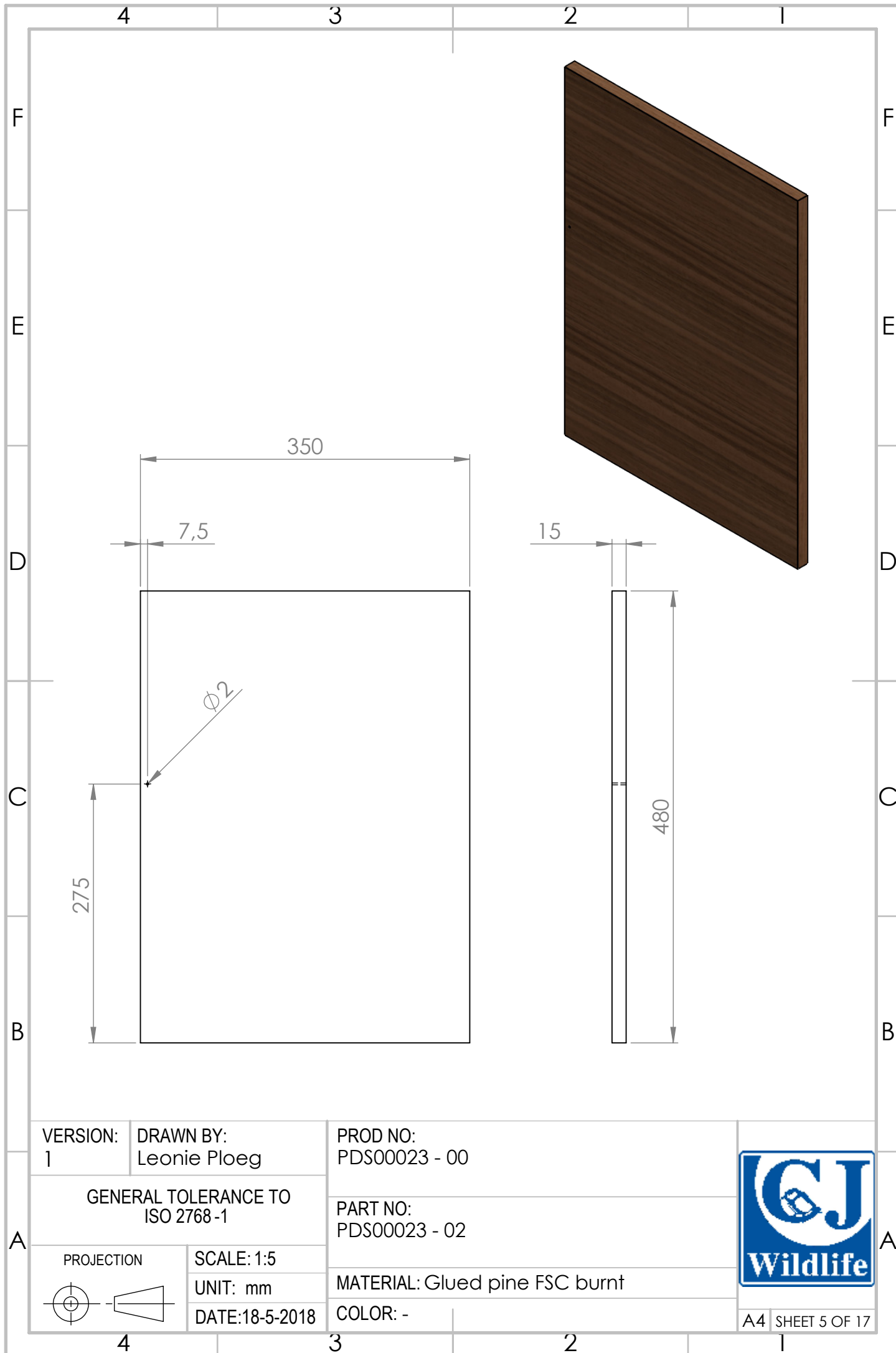
MATERIAL:

COLOR:

PART NO: PDS00023 - 002

WILDLIFE logo





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00023 - 02

PROJECTION

SCALE: 1:5

UNIT: mm

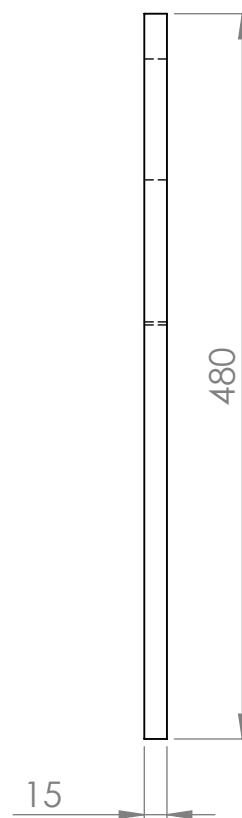
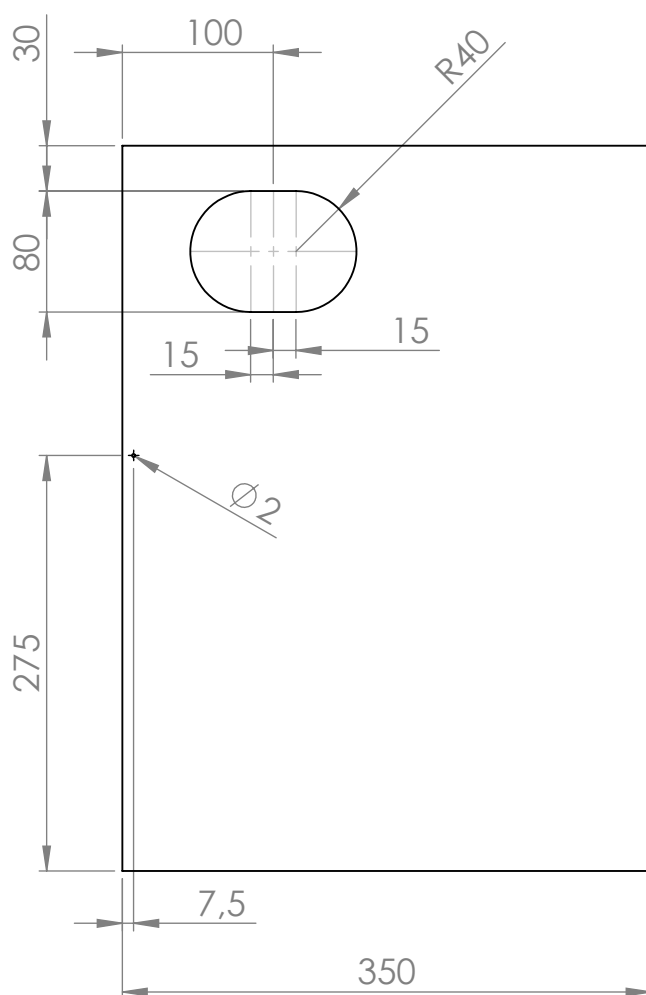
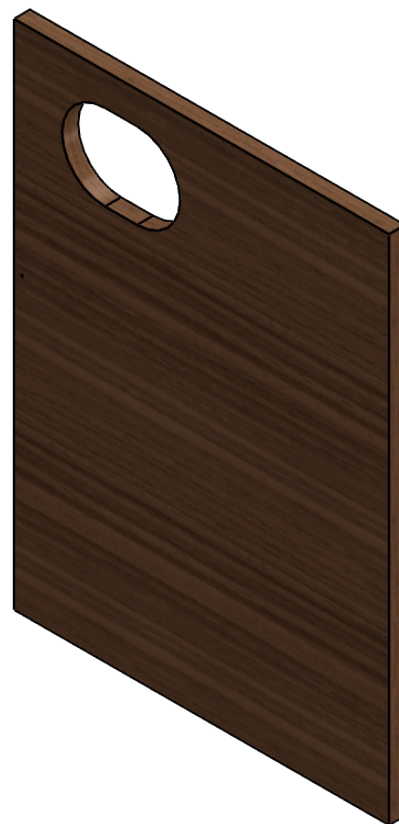
DATE: 18-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



A4 SHEET 5 OF 17



VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00023 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00023 - 03

PROJECTION

SCALE: 1:5

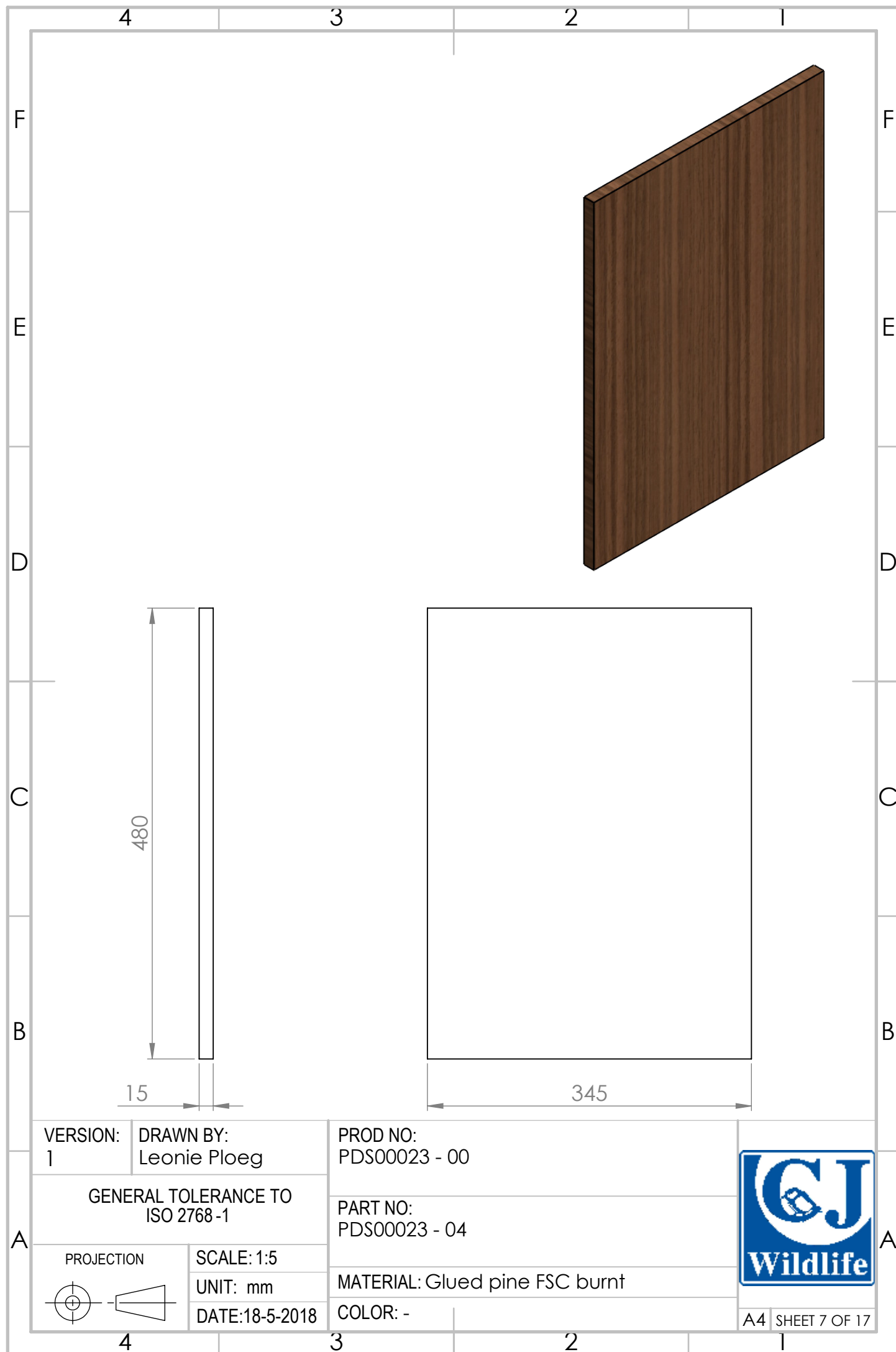
UNIT: mm

DATE: 18-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00023 - 04

PROJECTION

SCALE: 1:5

UNIT: mm

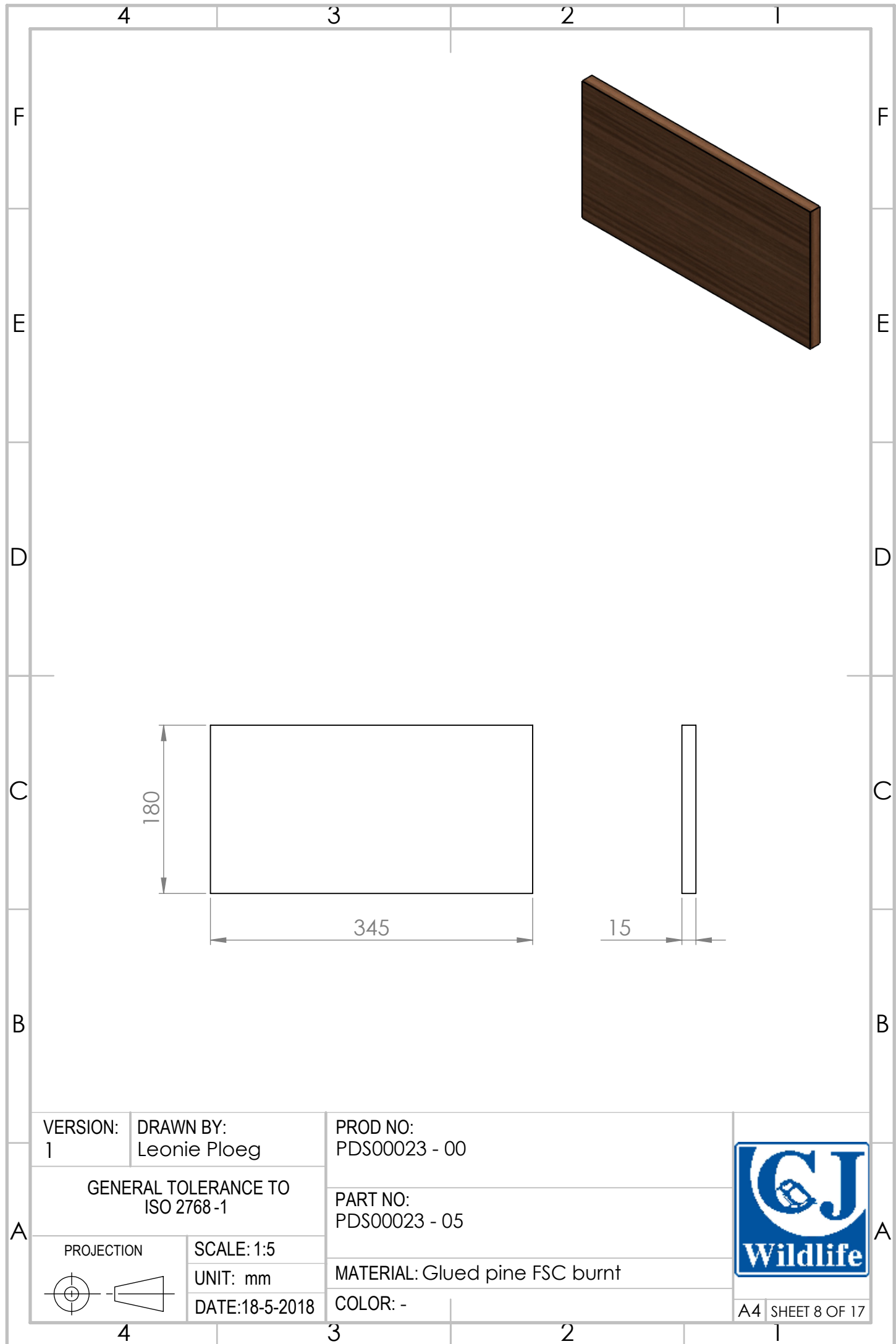
DATE:18-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



A4 SHEET 7 OF 17



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00023 - 05

PROJECTION

SCALE: 1:5

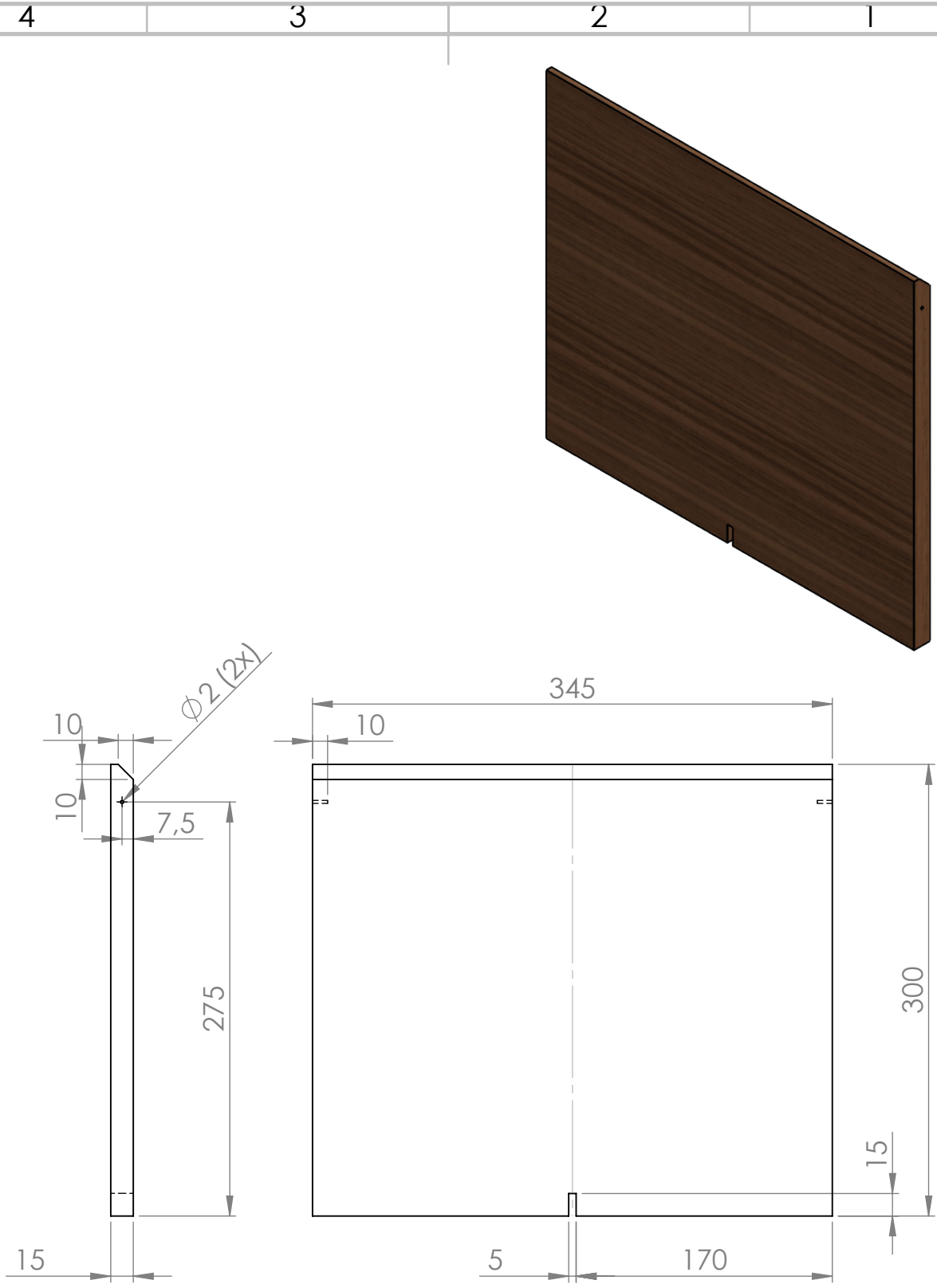
UNIT: mm

DATE:18-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00023 - 06

PROJECTION

SCALE: 1:4

UNIT: mm

DATE: 18-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



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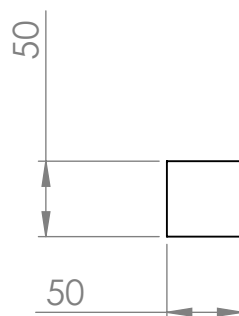
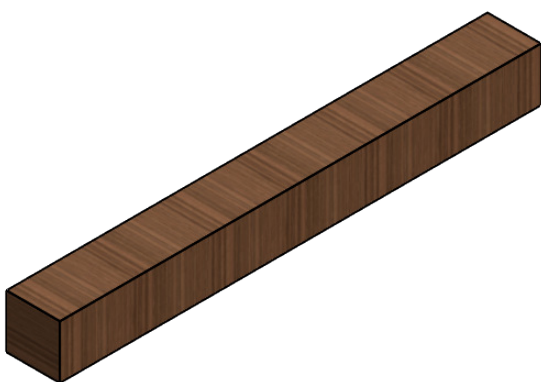
C

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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00023 - 00

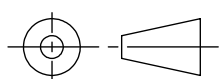
GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00023 - 07

PROJECTION

SCALE: 1:5

MATERIAL: Pine FSC burnt



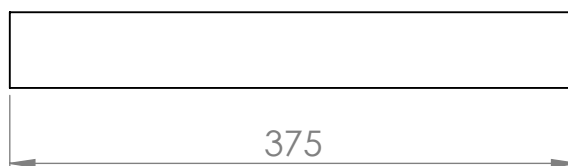
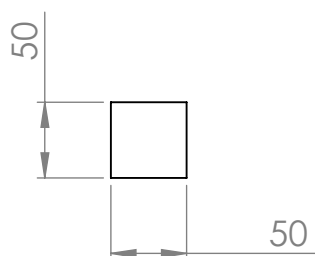
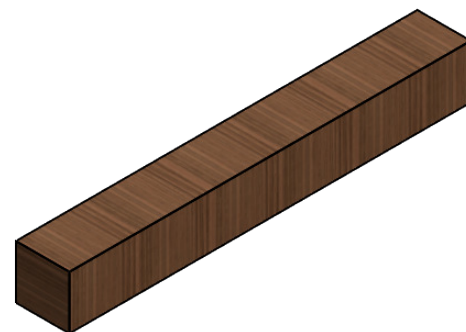
UNIT: mm

DATE: 18-5-2018

COLOR: -



4 3 2 1



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00023 - 08

PROJECTION

SCALE: 1:5

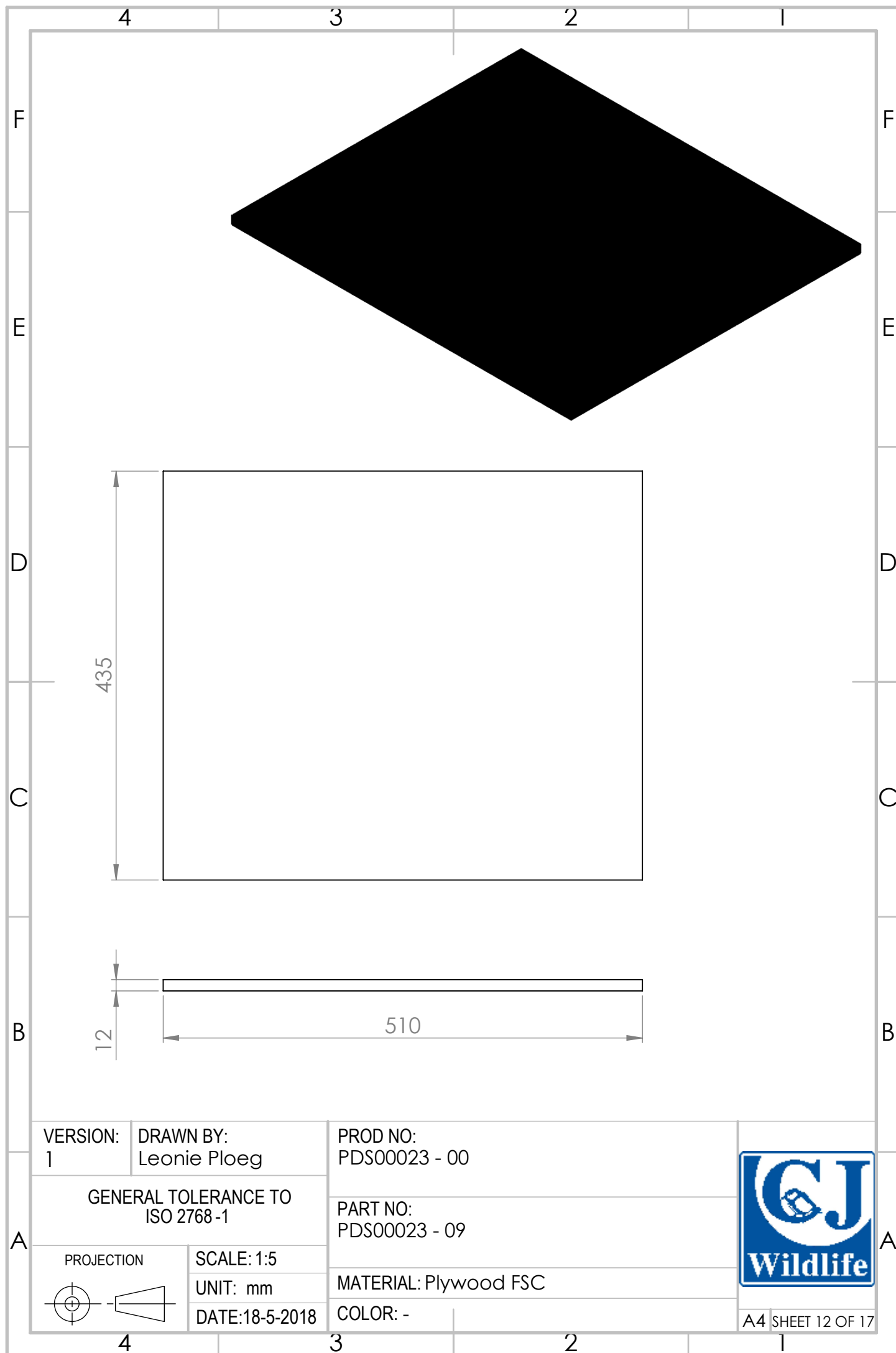
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -





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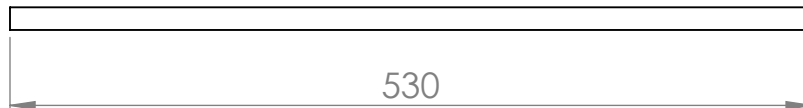
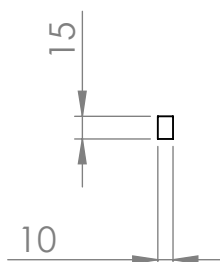
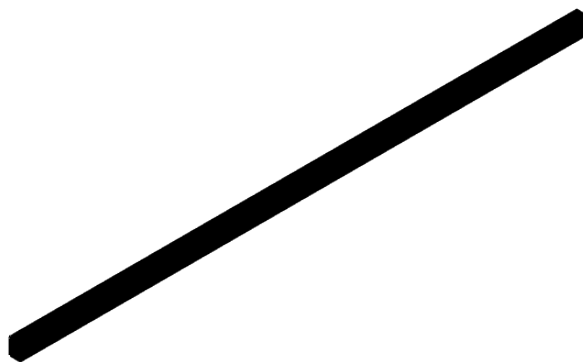
C

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00023 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00023 - 10

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC

COLOR: RAL9005



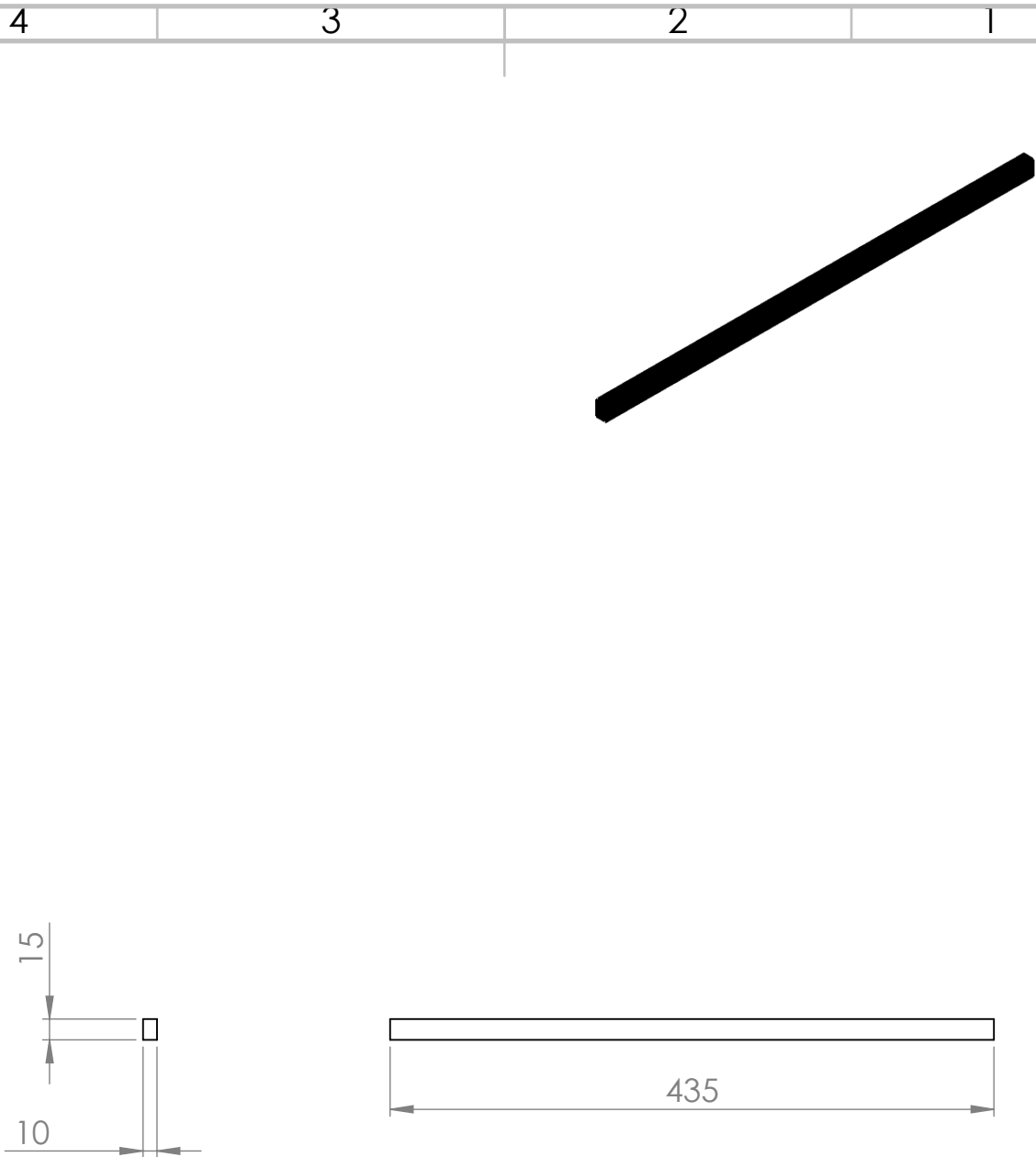
A4 SHEET 13 OF 17

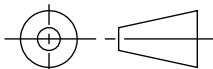
4

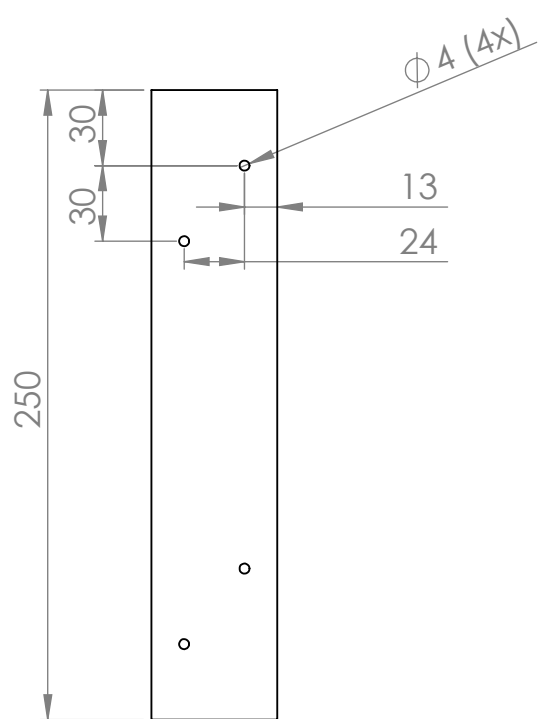
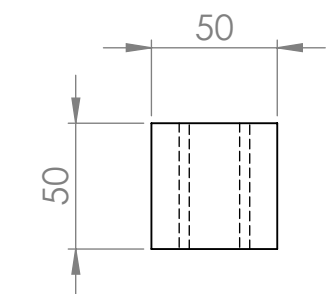
3

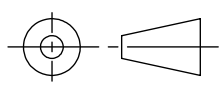
2

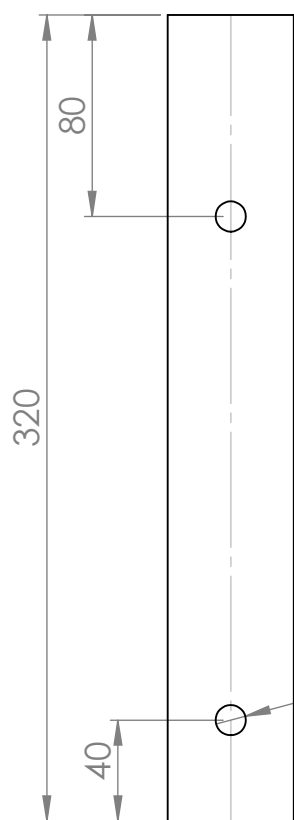
1



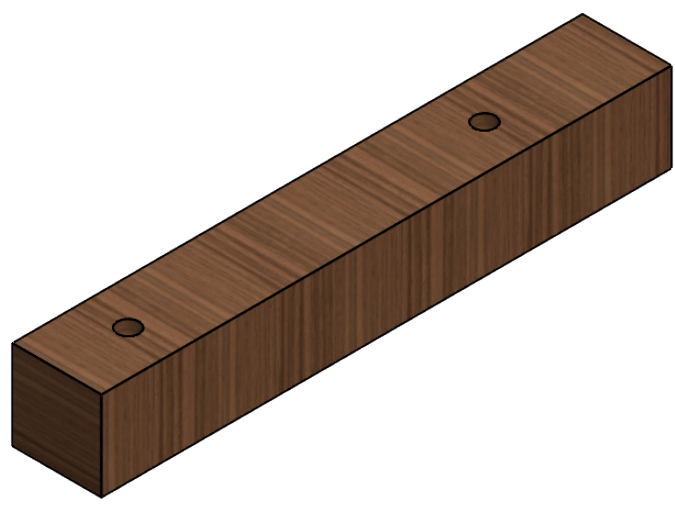
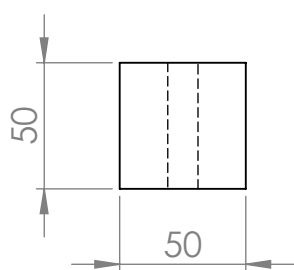
VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00023 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00023 - 11		
				MATERIAL: Pine FSC		
				COLOR: RAL9005		
PROJECTION 		SCALE: 1:5				A4 SHEET 14 OF 17
		UNIT: mm				
		DATE:18-5-2018				

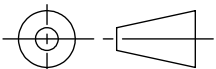


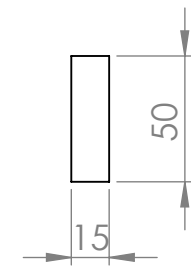
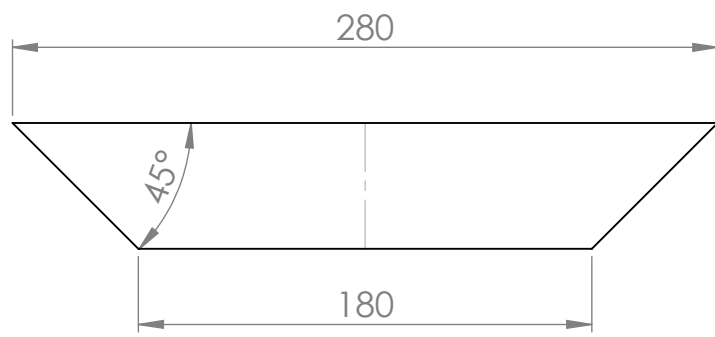
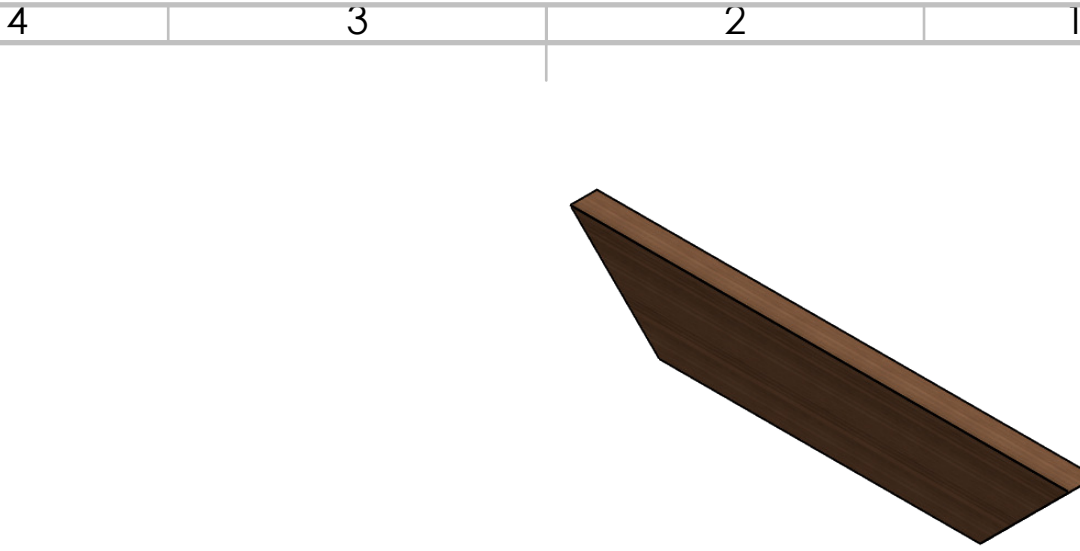
VERSION: 1	DRAWN BY: Leonie Ploeg	PROD NO: PDS00023 - 00	
GENERAL TOLERANCE TO ISO 2768-1		PART NO: PDS00023 - 12	
PROJECTION	SCALE: 1:3	MATERIAL: Pine FSC burnt	
	UNIT: mm	COLOR: -	
	DATE: 18-5-2018		A4 SHEET 15 OF 17

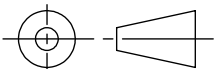


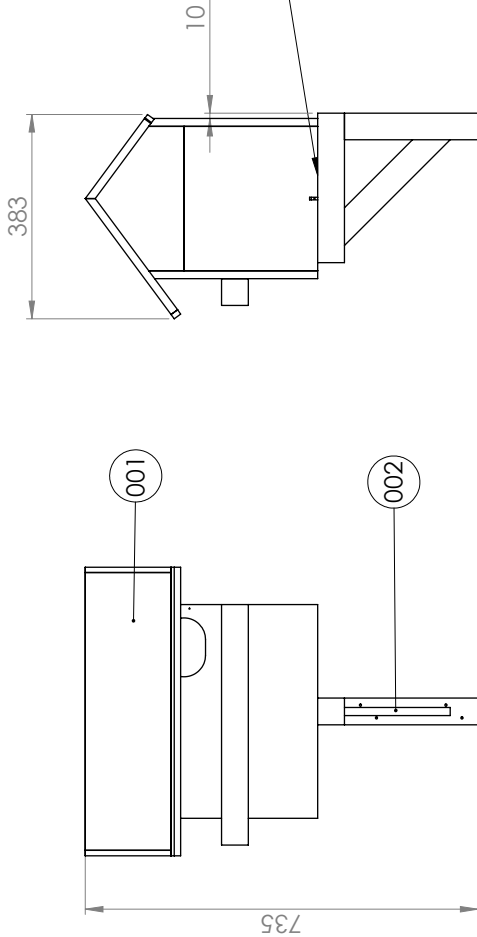
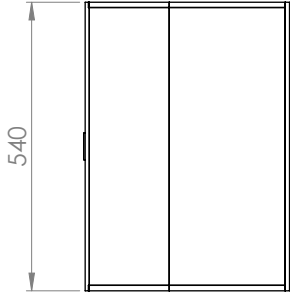
Ø 12 (2x)



VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00023 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00023 - 13		
PROJECTION		SCALE: 1:3		MATERIAL: Pine FSC burnt		
		UNIT: mm		COLOR: -		
		DATE:18-5-2018				A4 SHEET 16 OF 17



VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00023 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00023 - 14		
PROJECTION 		SCALE: 1:3		MATERIAL: Pine FSC burnt		
		UNIT: mm		COLOR: -		
		DATE:18-5-2018				A4 SHEET 17 OF 17



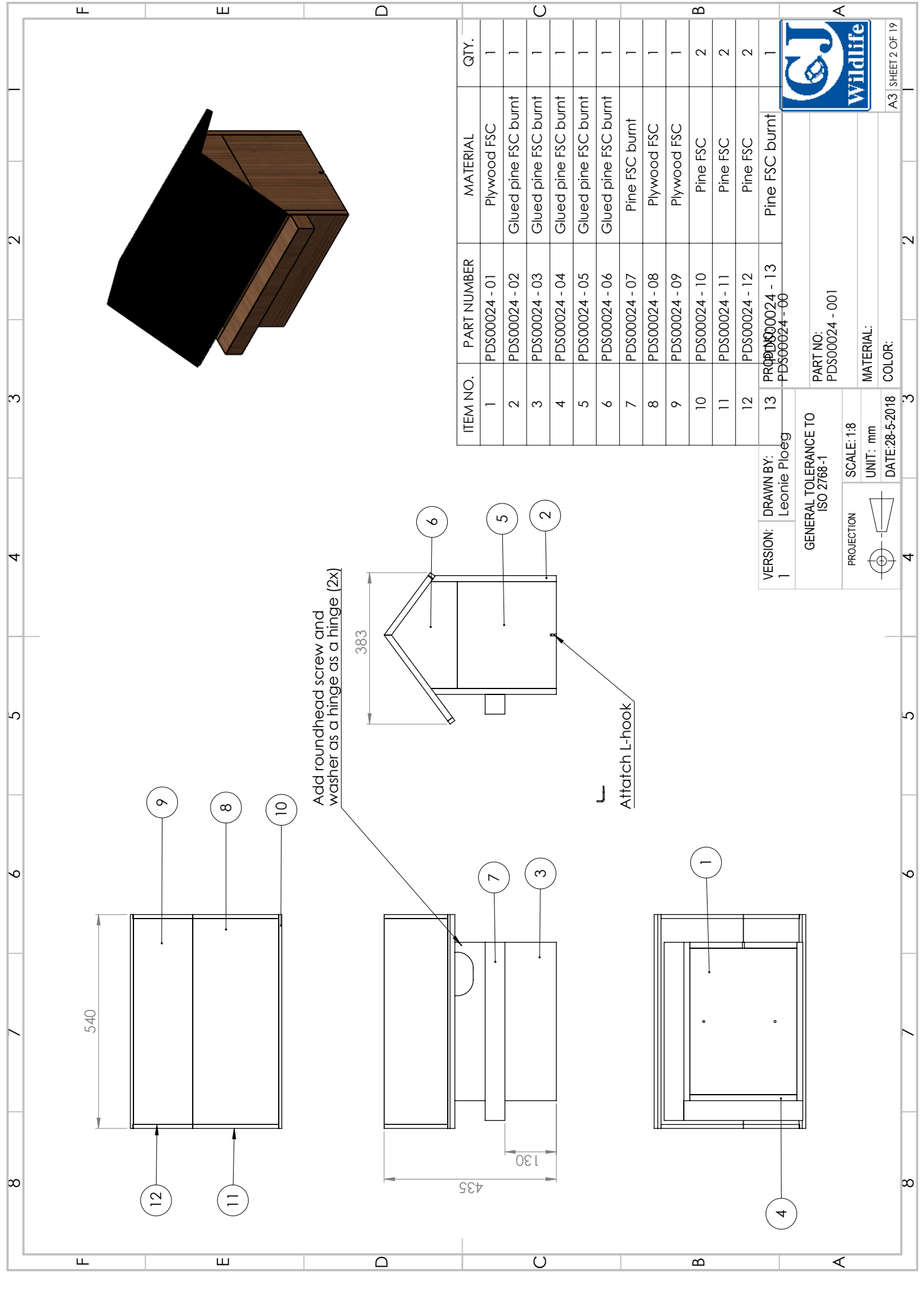
Add bolt M10 x 70 and wing nut (2x)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
001	PDS00024 - 001		1
002	PDS00024 - 002		1

VERSION: 1		DRAWN BY: Leonie Ploeg	PROD NO: PDS00024 - 00	
GENERAL TOLERANCE TO ISO 2768-1			PART NO: PDS00024 - 00	
PROJECTION			MATERIAL:	
SCALE: 1:10			COLOR:	
UNIT: mm				
DATE: 28-5-2018				
				





ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00024 - 01	Plywood FSC	1
2	PDS00024 - 02	Glued pine FSC burnt	1
3	PDS00024 - 03	Glued pine FSC burnt	1
4	PDS00024 - 04	Glued pine FSC burnt	1
5	PDS00024 - 05	Glued pine FSC burnt	1
6	PDS00024 - 06	Glued pine FSC burnt	1
7	PDS00024 - 07	Pine FSC burnt	1
8	PDS00024 - 08	Plywood FSC	1
9	PDS00024 - 09	Plywood FSC	1
10	PDS00024 - 10	Pine FSC	2
11	PDS00024 - 11	Pine FSC	2
12	PDS00024 - 12	Pine FSC	2

VERSION: 1

DRAWN BY: Leonie Ploeg

GENERAL TOLERANCE TO ISO 2768-1

SCALE: 1:8

UNIT: mm

DATE: 28-5-2018

PROJECTION

PART NO: PDS00024 - 001

MATERIAL:

COLOR:

13

PDS00024 - 13

PDS00024 - 00

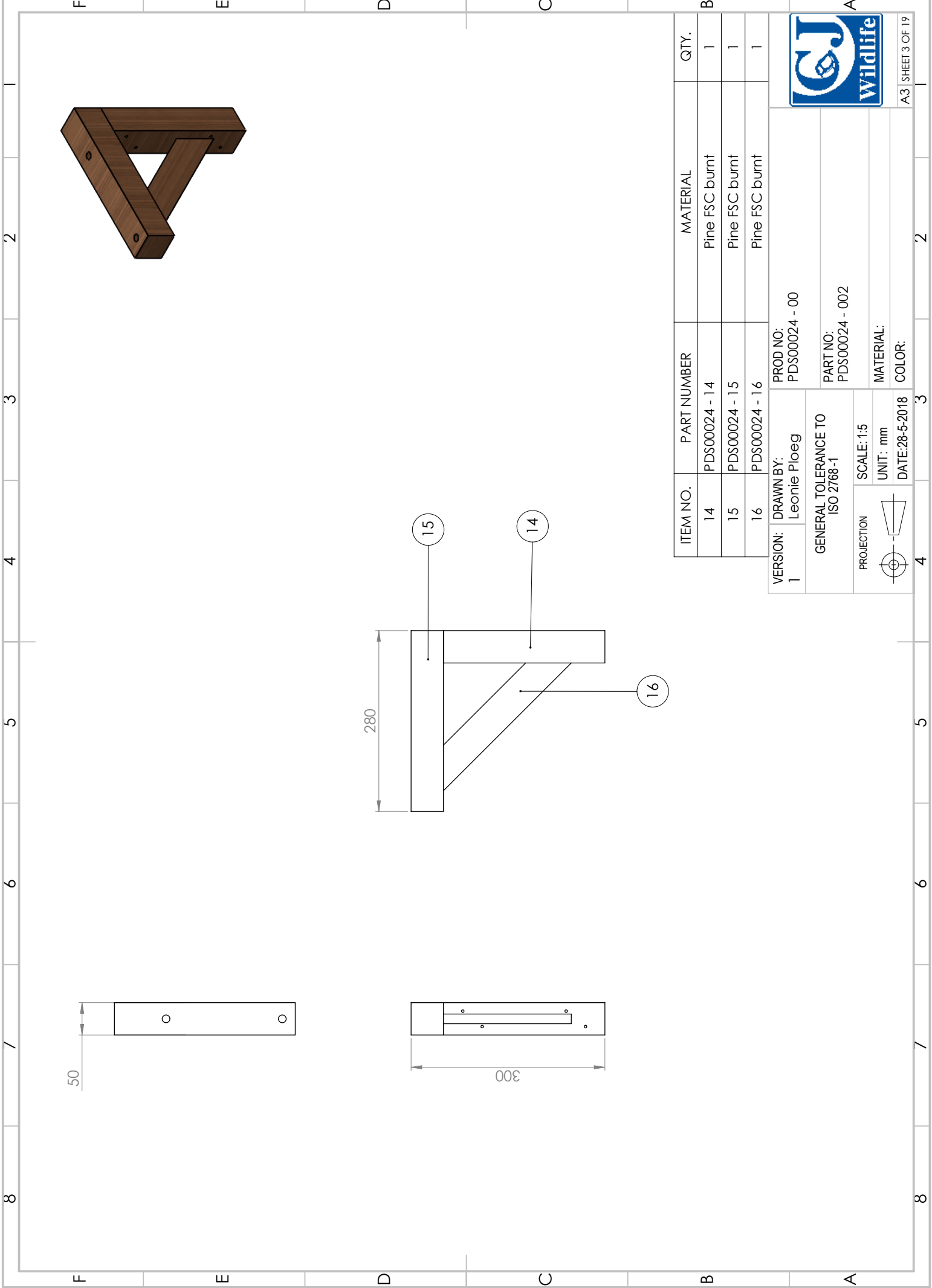
Pine FSC burnt

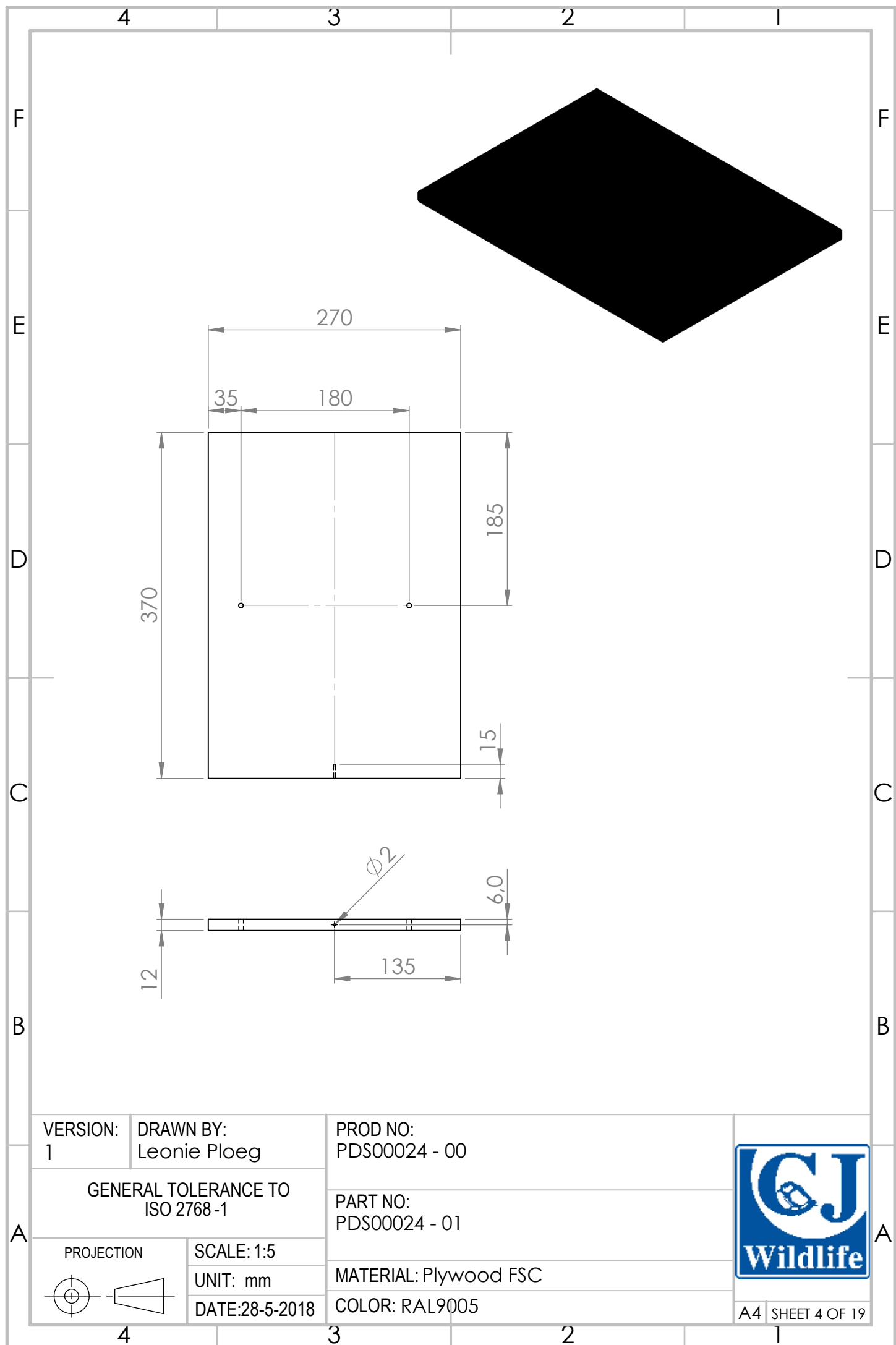
1

QTY.

1







VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 01

PROJECTION

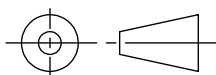
SCALE: 1:5

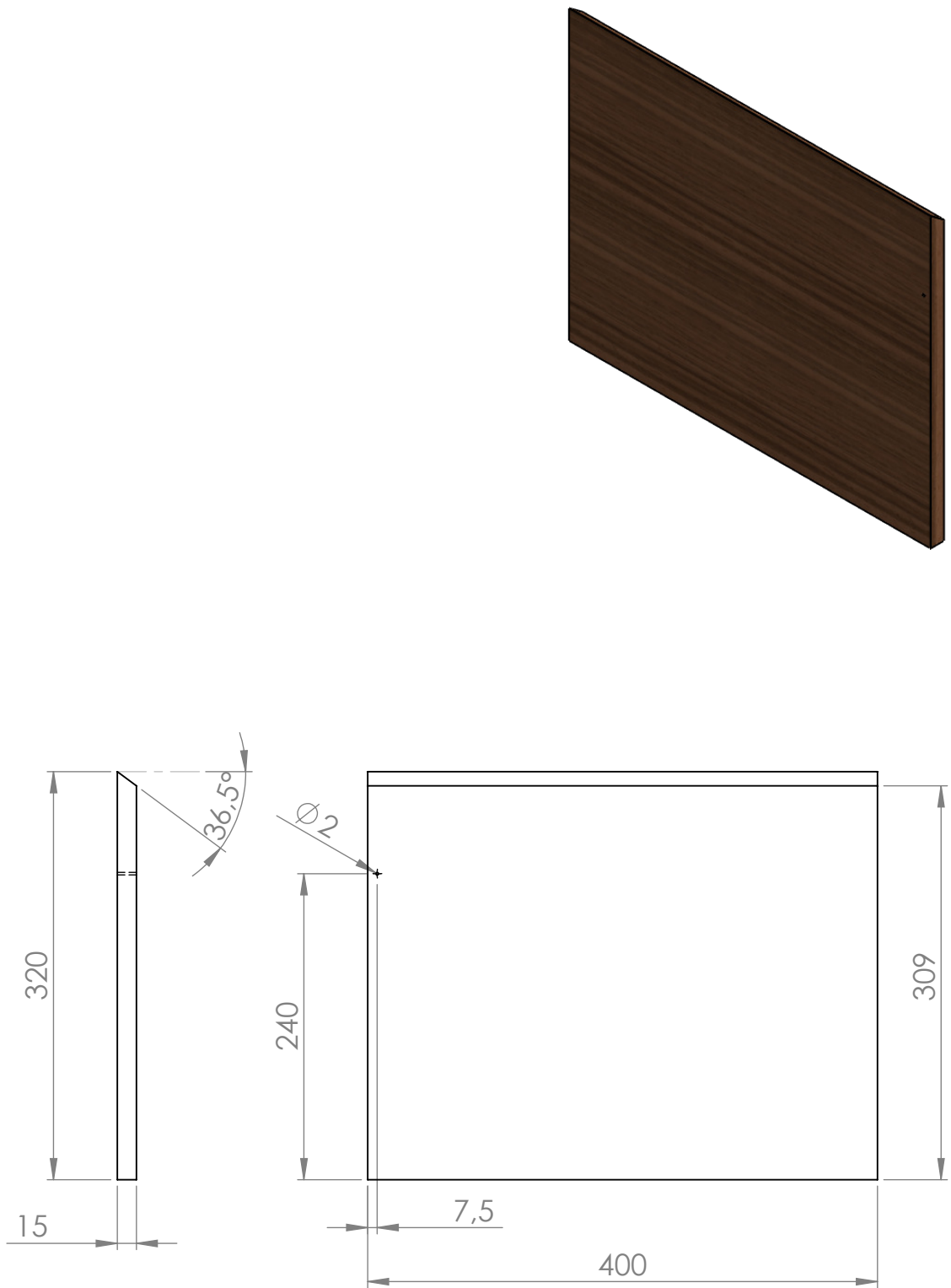
UNIT: mm

DATE: 28-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 02

PROJECTION

SCALE: 1:5

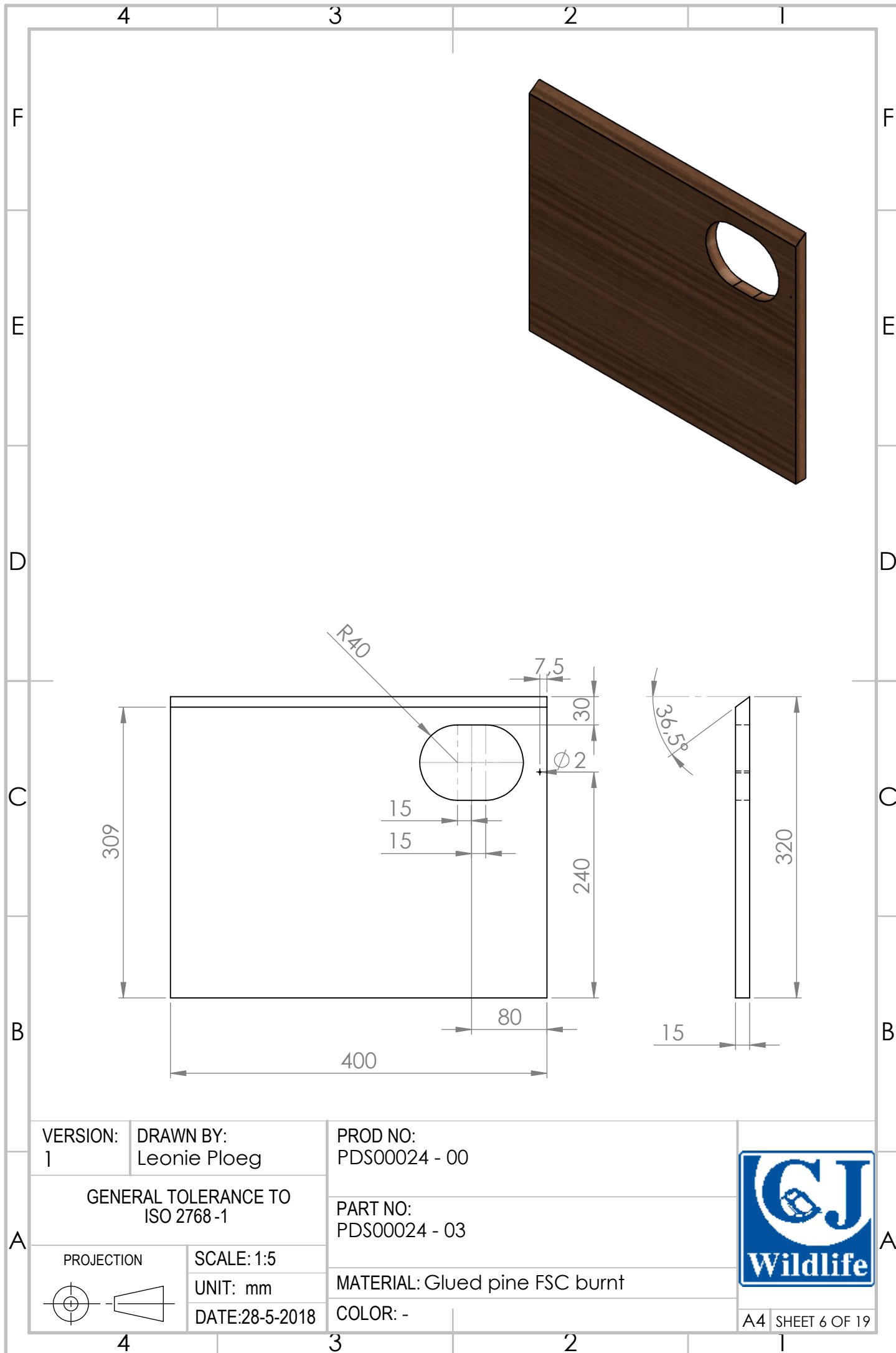
UNIT: mm

DATE: 28-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 03

PROJECTION

SCALE: 1:5

UNIT: mm

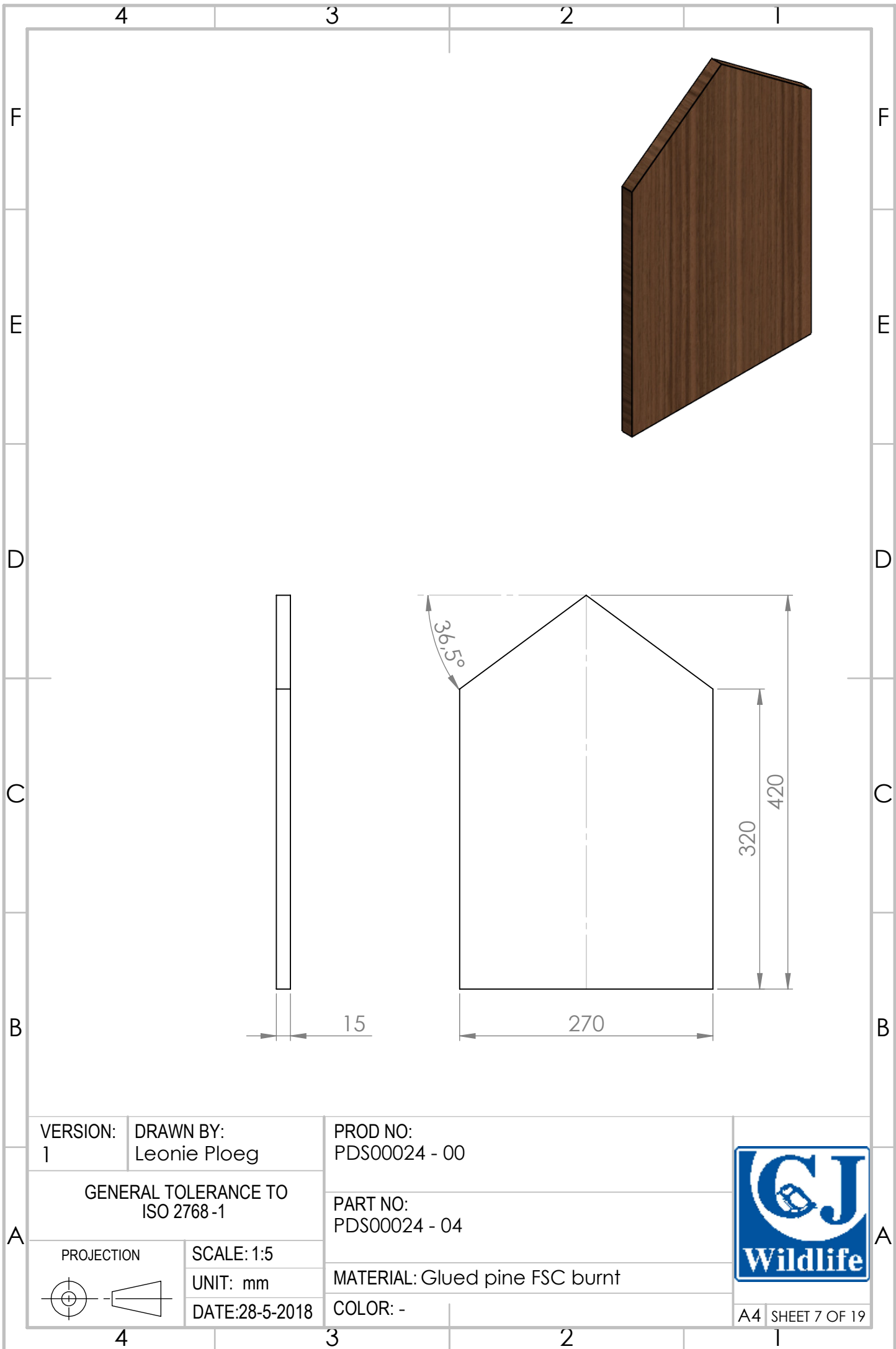
DATE: 28-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



A4 SHEET 6 OF 19

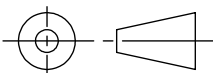


VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00024 - 00

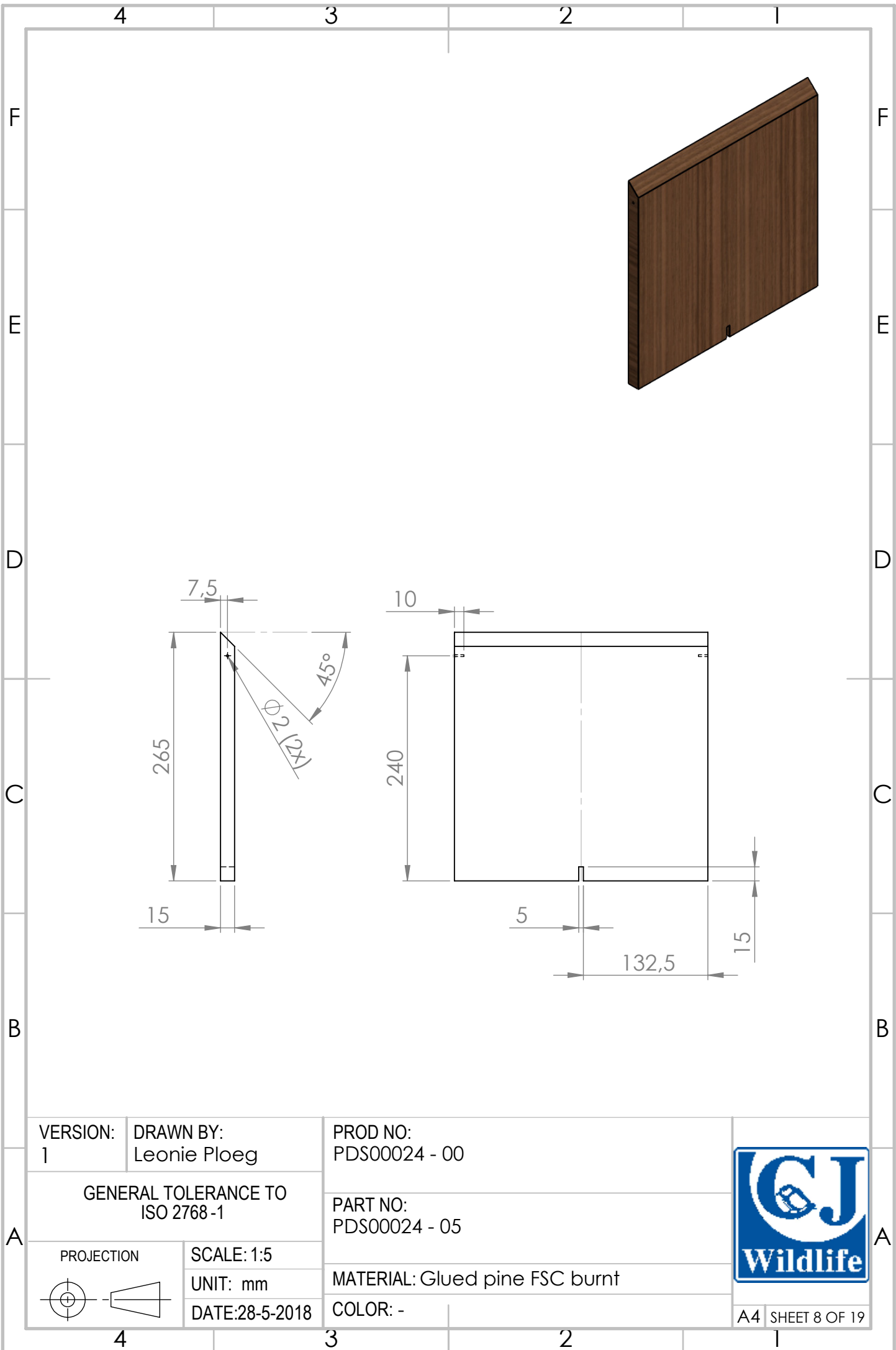
GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00024 - 04

PROJECTION 	SCALE: 1:5
	UNIT: mm
	DATE: 28-5-2018

MATERIAL: Glued pine FSC burnt
COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 05

PROJECTION

SCALE: 1:5

UNIT: mm

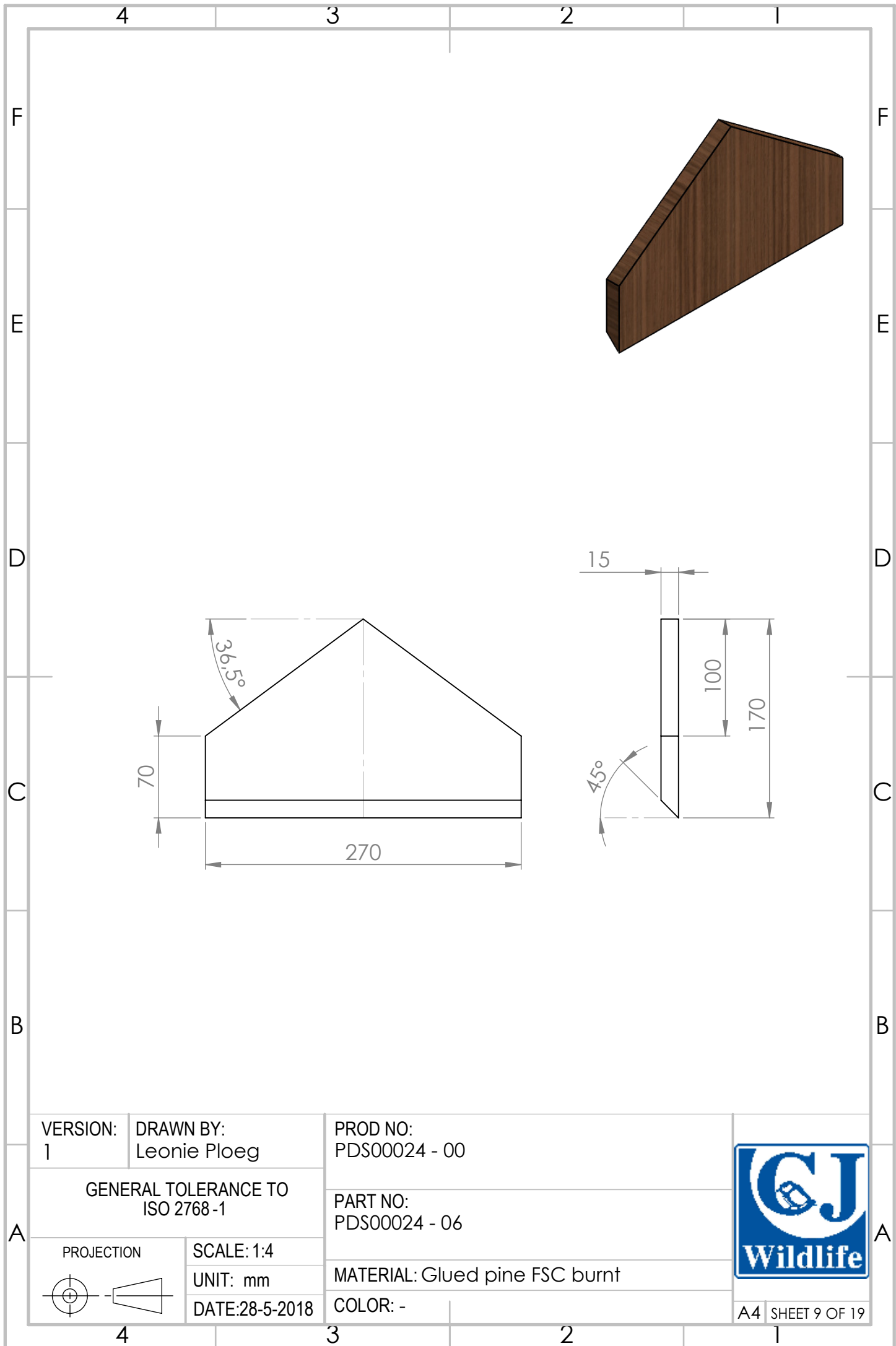
DATE: 28-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



A4 SHEET 8 OF 19



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 06

PROJECTION

SCALE: 1:4

UNIT: mm

DATE: 28-5-2018

MATERIAL: Glued pine FSC burnt

COLOR: -



4 3 2 1

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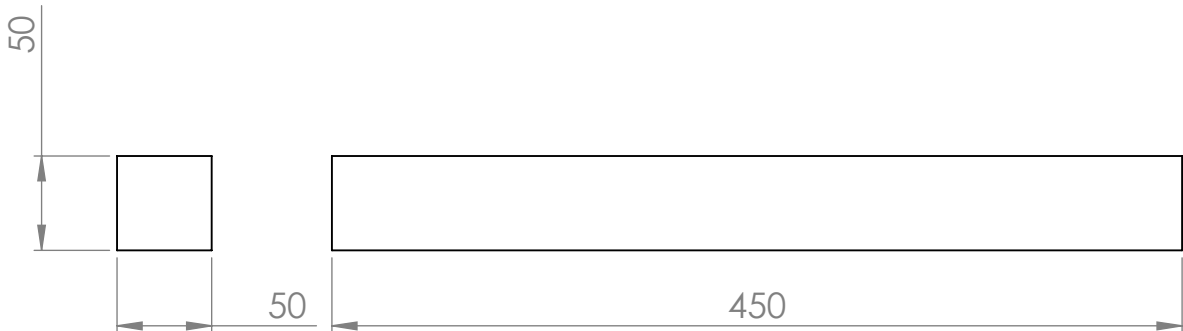
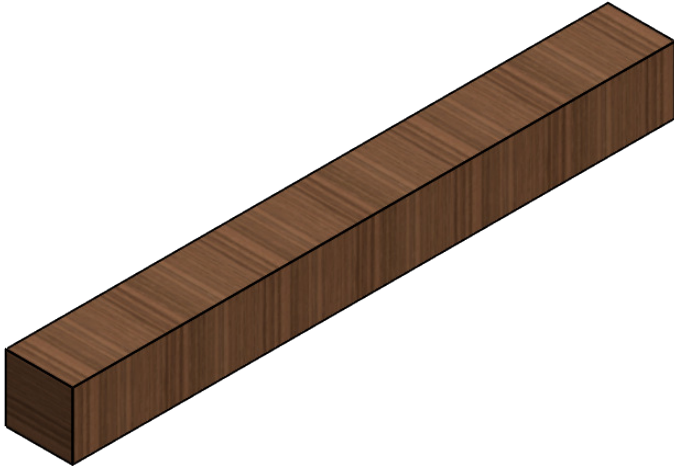
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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00024 - 00

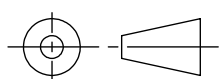
GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00024 - 07

PROJECTION

SCALE: 1:4

MATERIAL: Pine FSC burnt



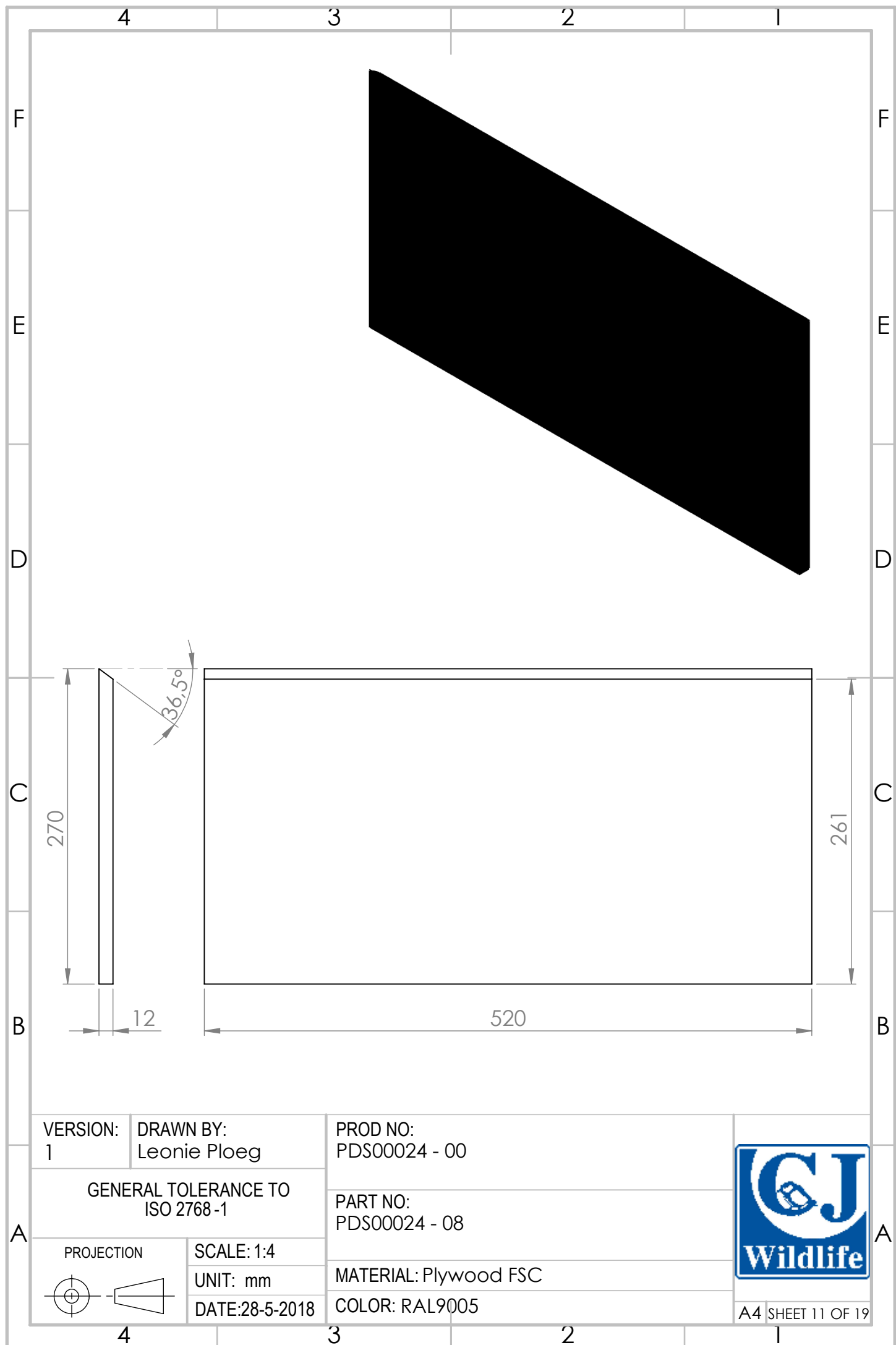
UNIT: mm

COLOR: -

DATE:28-5-2018



4 3 2 1



VERSION: 1
DRAWN BY: Leonie Ploeg

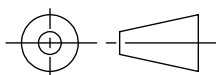
PROD NO: PDS00024 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00024 - 08

PROJECTION

SCALE: 1:4



UNIT: mm

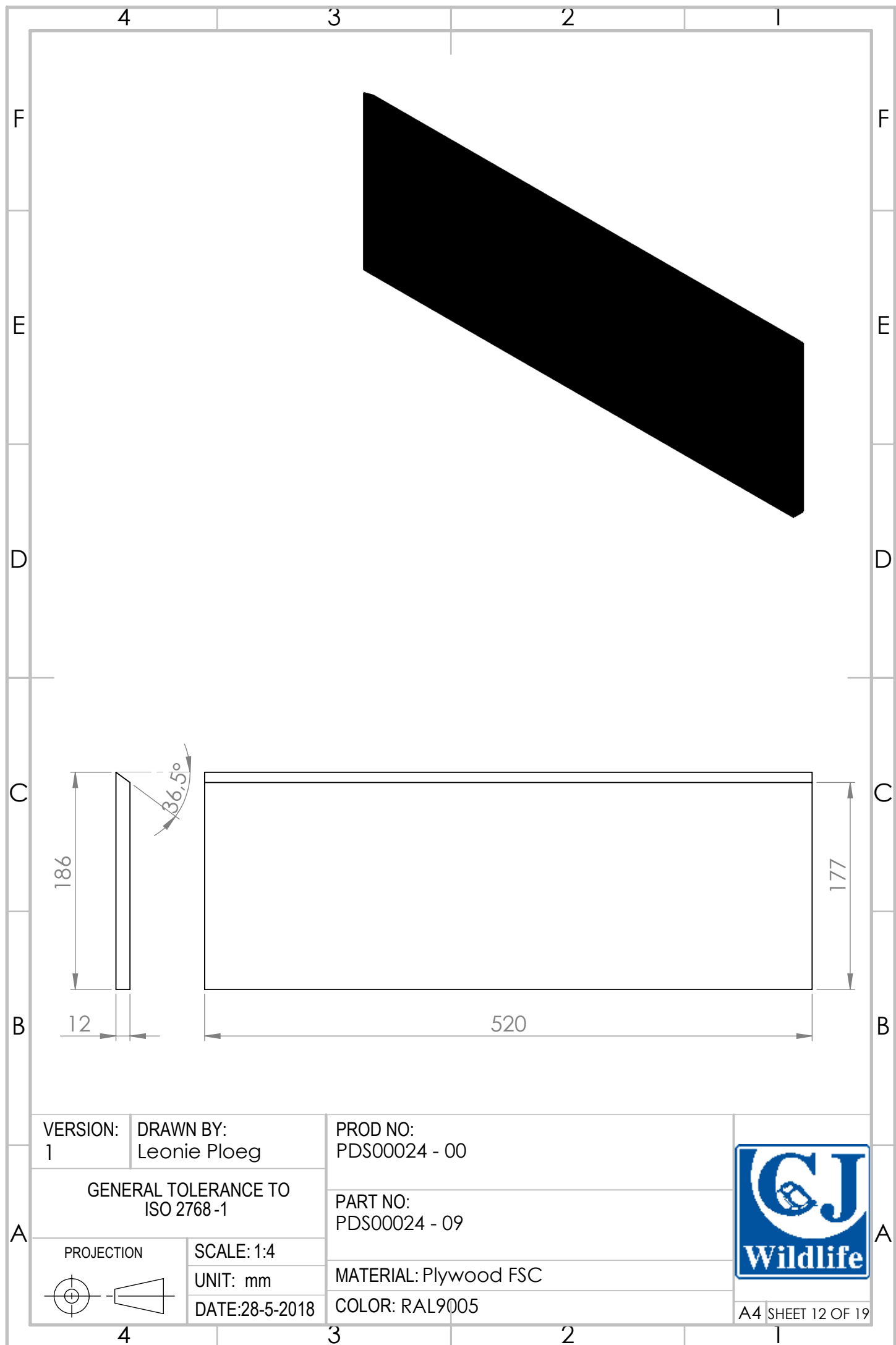
DATE: 28-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005



A4 SHEET 11 OF 19



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00024 - 09

PROJECTION

SCALE: 1:4

UNIT: mm

DATE: 28-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005



A4 SHEET 12 OF 19

4 3 2 1

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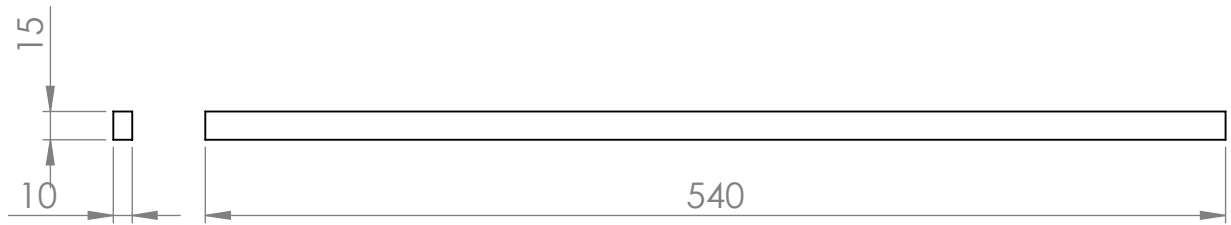
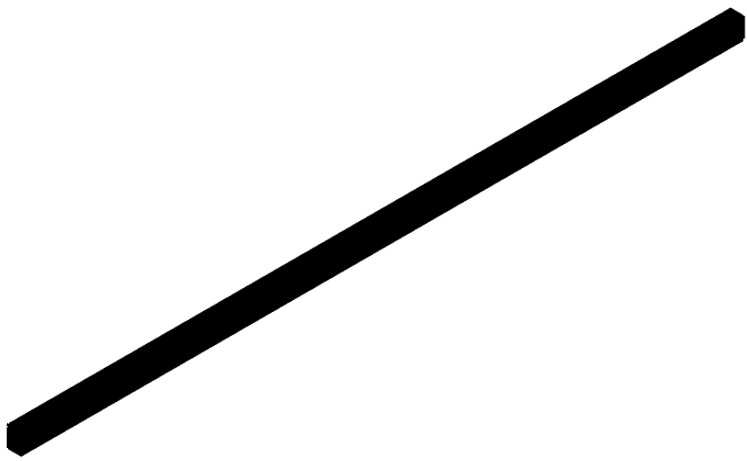
C

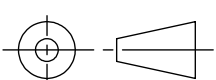
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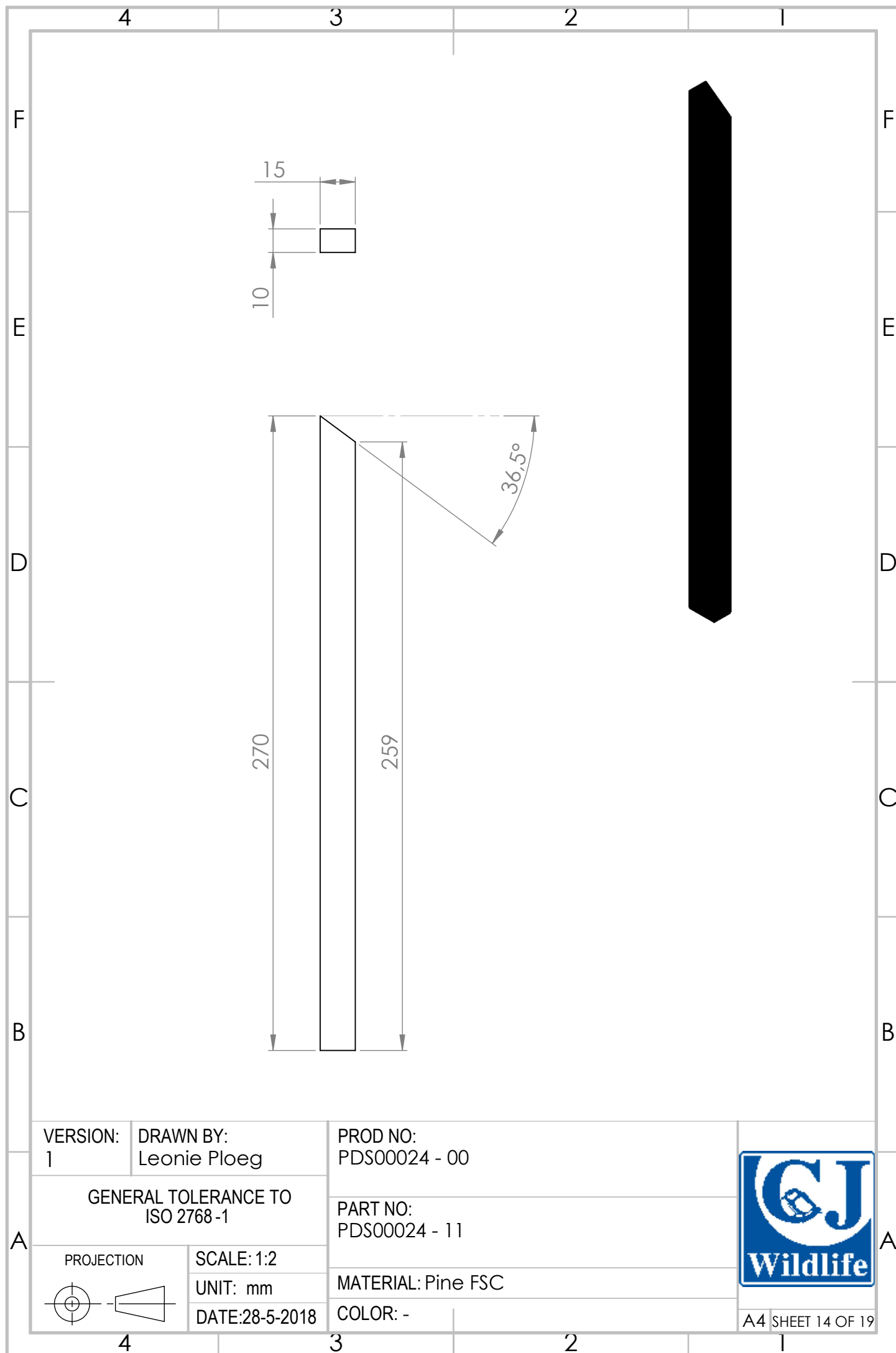
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VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00024 - 00		
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00024 - 10		
				MATERIAL: Pine FSC		
				COLOR: RAL9005		
PROJECTION 		SCALE: 1:4				A4 SHEET 13 OF 19
		UNIT: mm				
		DATE:28-5-2018				

4 3 2 1



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 11

PROJECTION

SCALE: 1:2

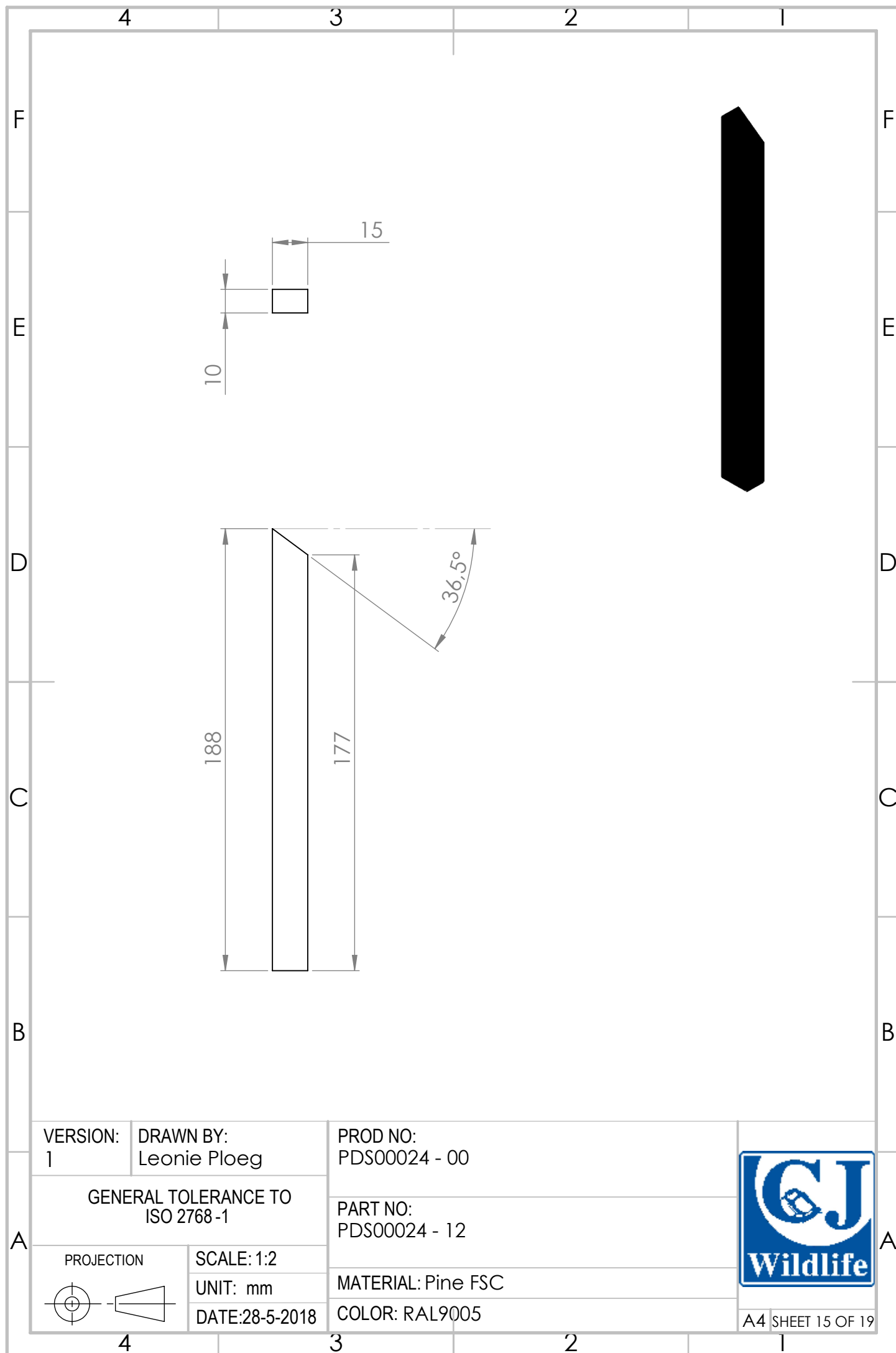
UNIT: mm

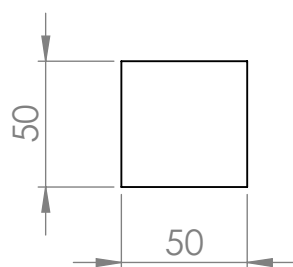
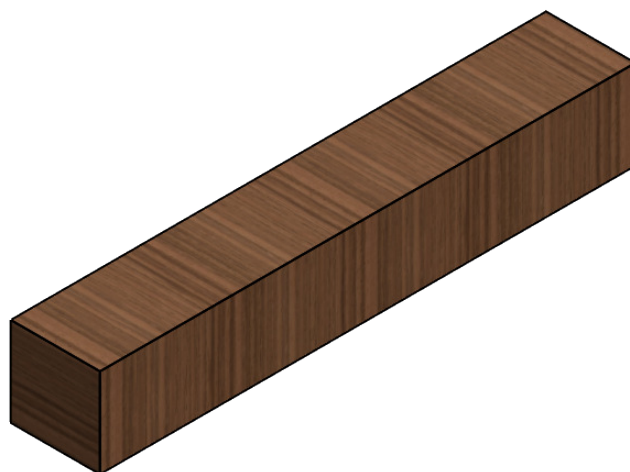
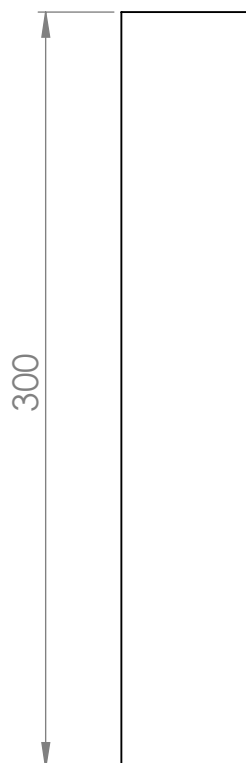
DATE: 28-5-2018

MATERIAL: Pine FSC

COLOR: -







VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00024 - 13

PROJECTION

SCALE: 1:3

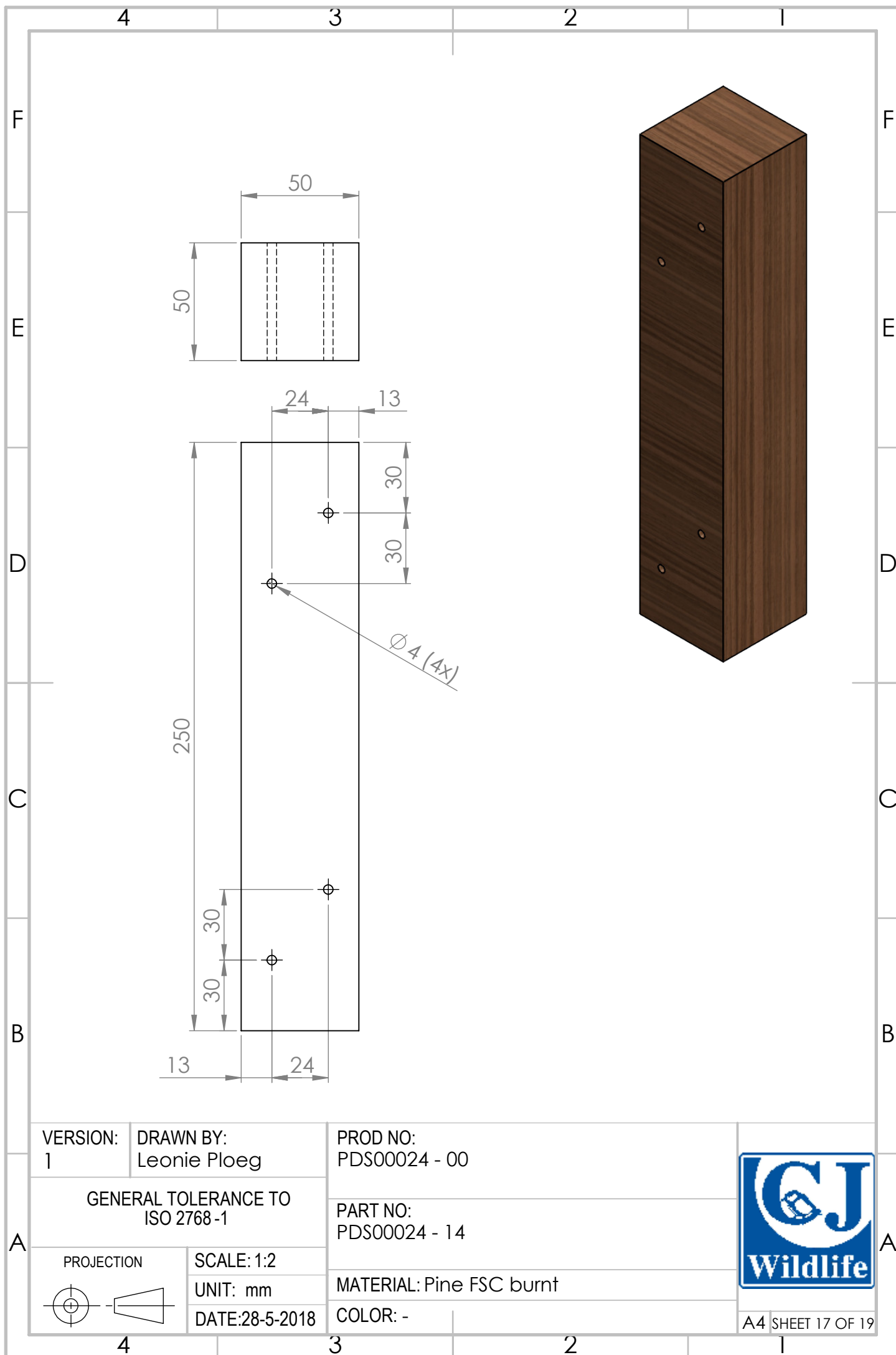
UNIT: mm

DATE:28-5-2018

MATERIAL: Pine FSC burnt

COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 14

PROJECTION

SCALE: 1:2

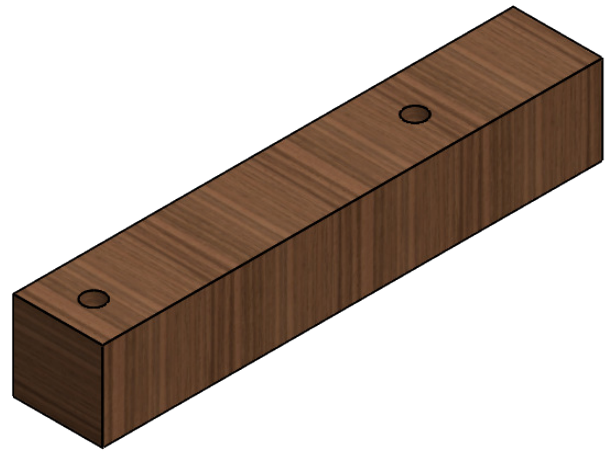
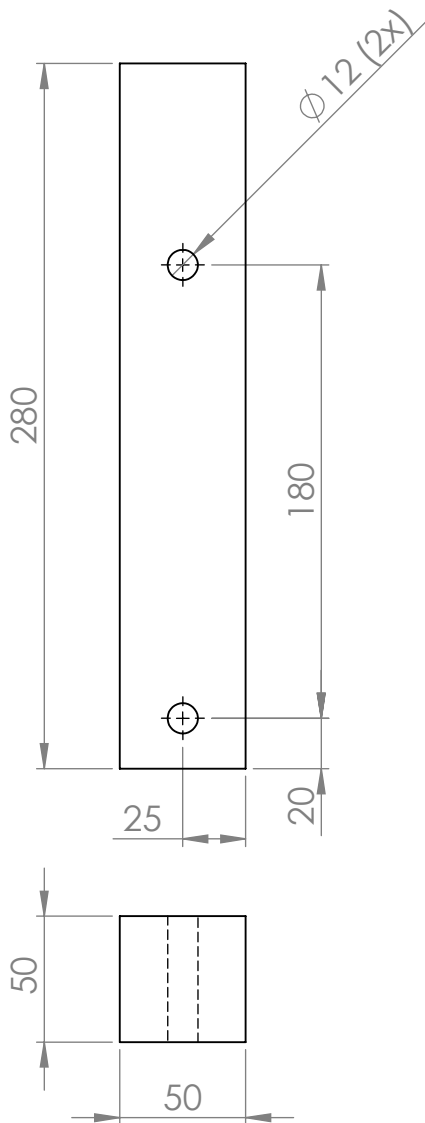
UNIT: mm

DATE: 28-5-2018

MATERIAL: Pine FSC burnt

COLOR: -





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00024 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00024 - 15

PROJECTION

SCALE: 1:3

UNIT: mm

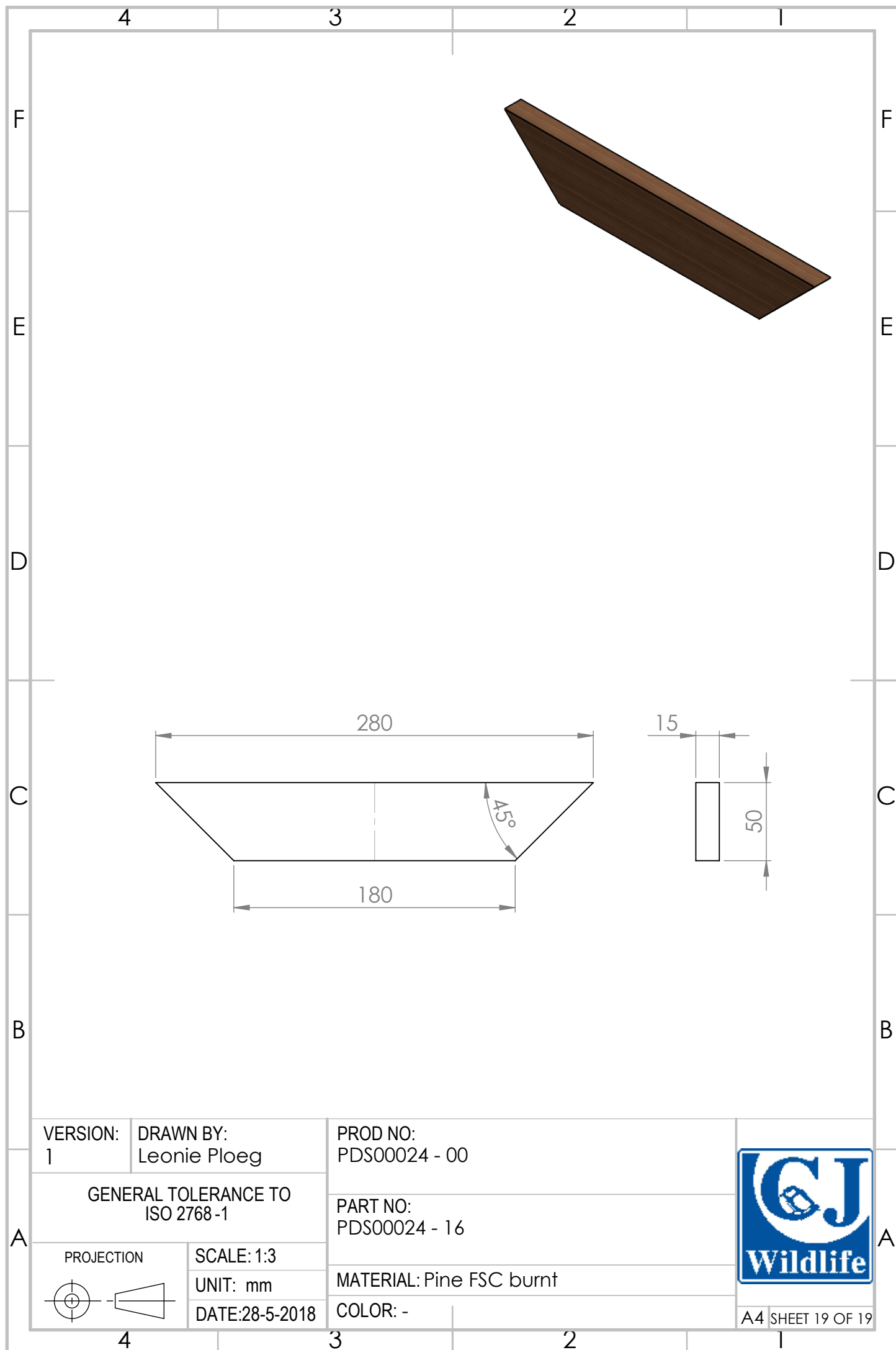
DATE: 28-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 18 OF 19



VERSION: 1
DRAWN BY: Leonie Ploeg

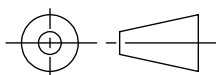
PROD NO: PDS00024 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00024 - 16

PROJECTION

SCALE: 1:3



UNIT: mm

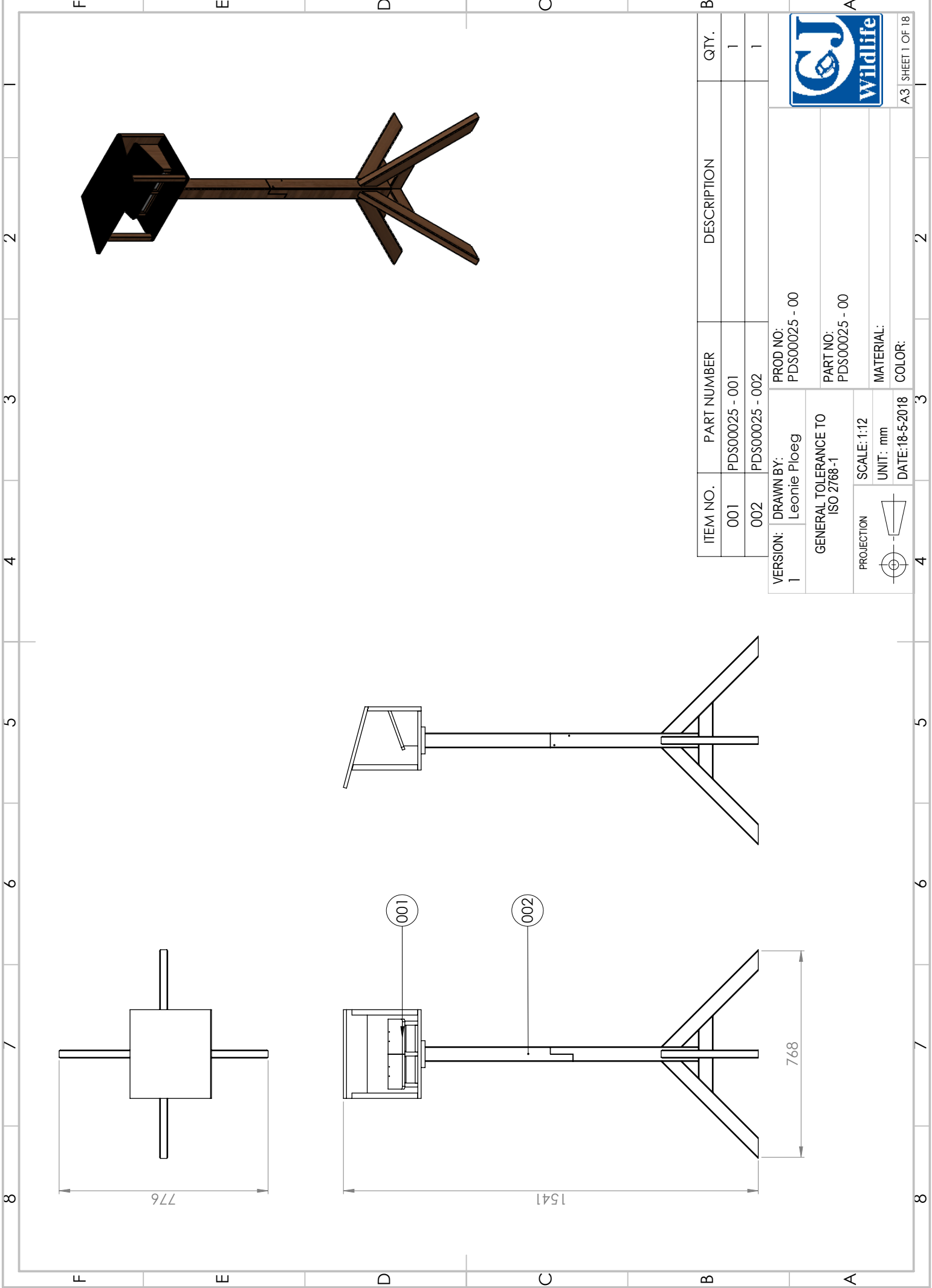
DATE: 28-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 19 OF 19



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
001	PDS00025 - 001		1
002	PDS00025 - 002		1

VERSION: 1

DRAWN BY: Leonie Ploeg

PROD NO: PDS00025 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00025 - 00

PROJECTION

SCALE: 1:12

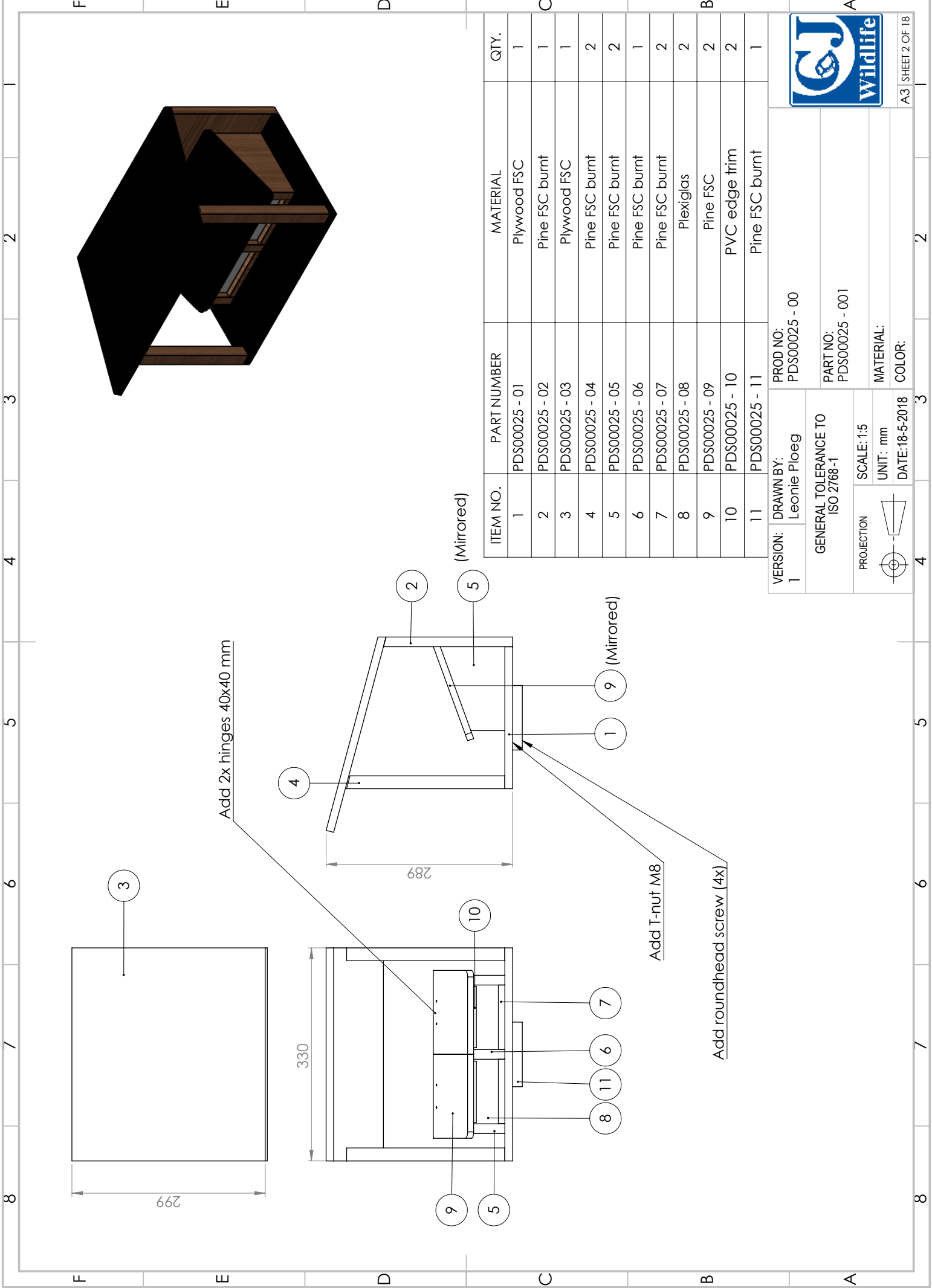
UNIT: mm

DATE: 18-5-2018

MATERIAL:

COLOR:

A3 SHEET 1 OF 18



(Mirrored)

9 (Mirrored)

Add roundhead screw (4x)

Add T-nut M8

Add 2x hinges 40x40 mm

ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00025 - 01	Plywood FSC	1
2	PDS00025 - 02	Pine FSC burnt	1
3	PDS00025 - 03	Plywood FSC	1
4	PDS00025 - 04	Pine FSC burnt	2
5	PDS00025 - 05	Pine FSC burnt	2
6	PDS00025 - 06	Pine FSC burnt	1
7	PDS00025 - 07	Pine FSC burnt	2
8	PDS00025 - 08	Plexiglas	2
9	PDS00025 - 09	Pine FSC	2
10	PDS00025 - 10	PVC edge trim	2
11	PDS00025 - 11	Pine FSC burnt	1

VERSION: 1

DRAWN BY: Leonie Ploeg

GENERAL TOLERANCE TO ISO 2768-1

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

PROD NO: PDS00025 - 00

PART NO: PDS00025 - 001

MATERIAL:

COLOR:



A3 SHEET 2 OF 18

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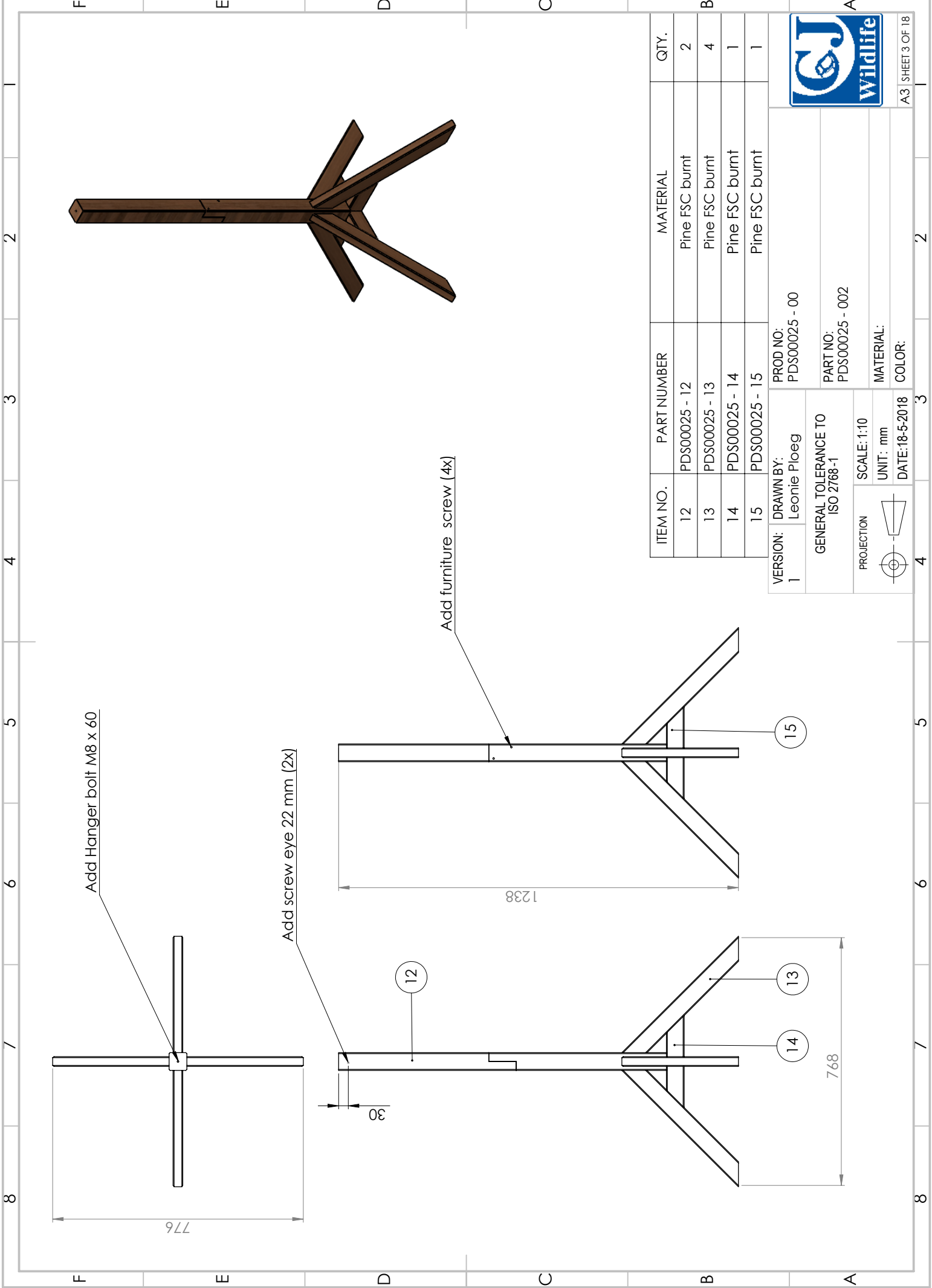
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ITEM NO.	PART NUMBER	MATERIAL	QTY.
12	PDS00025 - 12	Pine FSC burnt	2
13	PDS00025 - 13	Pine FSC burnt	4
14	PDS00025 - 14	Pine FSC burnt	1
15	PDS00025 - 15	Pine FSC burnt	1

VERSION: 1

DRAWN BY: Leonie Ploeg

PROD NO: PDS00025 - 00

GENERAL TOLERANCE TO ISO 2768-1

SCALE: 1:10

UNIT: mm

DATE: 18-5-2018

MATERIAL:

COLOR:

PROJECTION

A3 SHEET 3 OF 18



4 3 2 1

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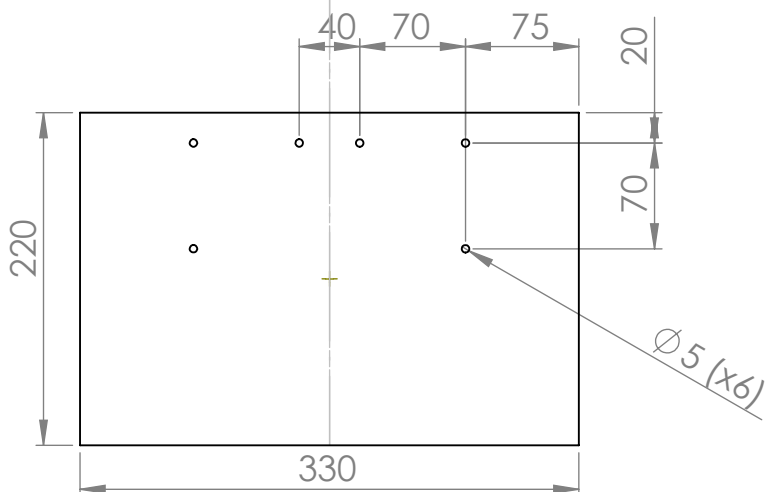
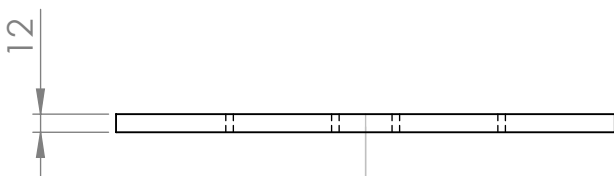
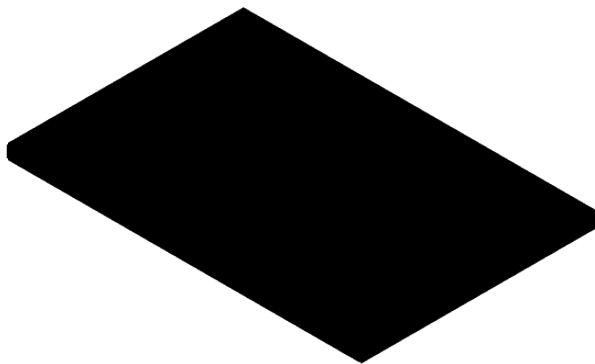
C

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00025 - 01

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

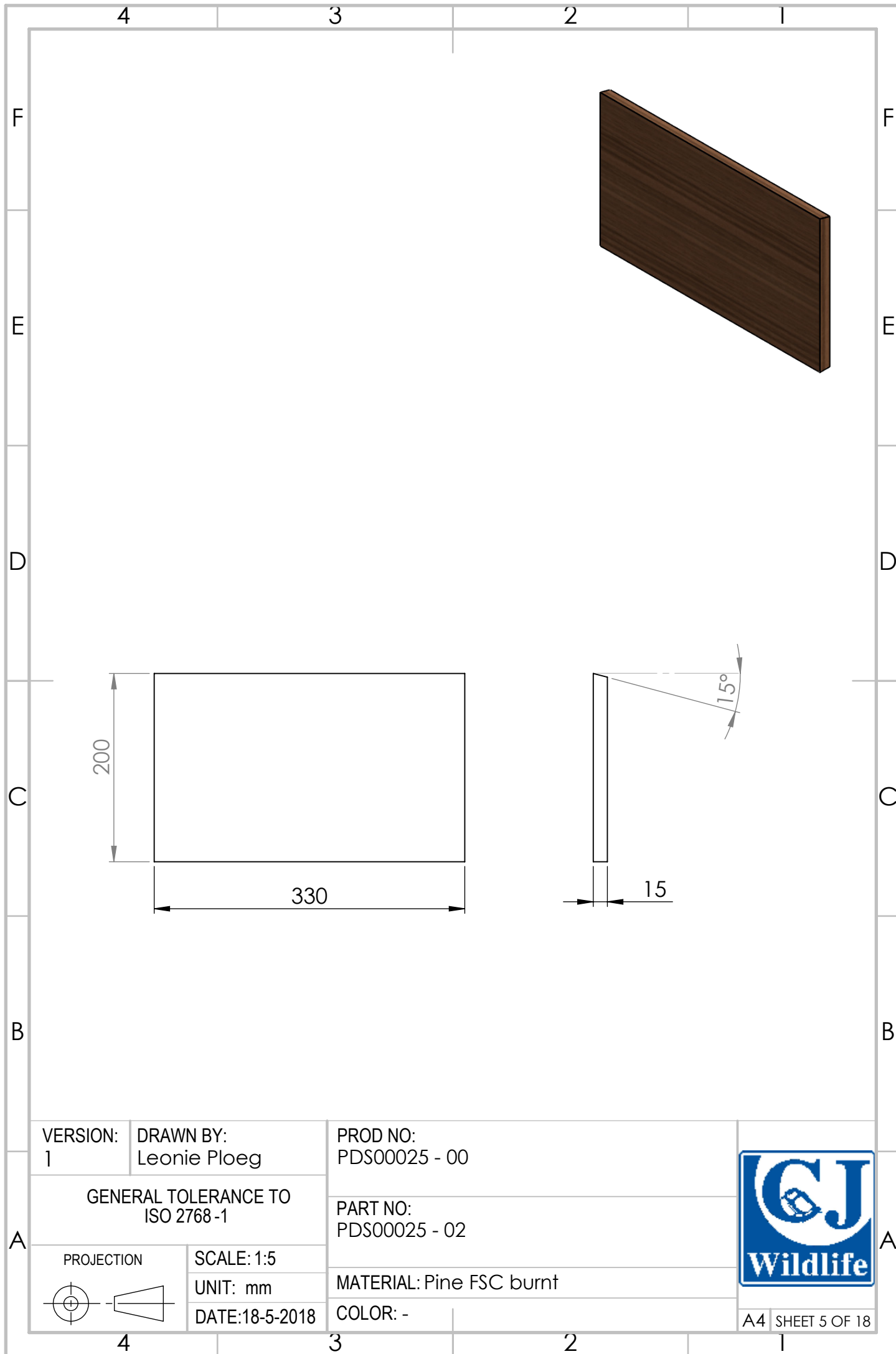
MATERIAL: Plywood FSC

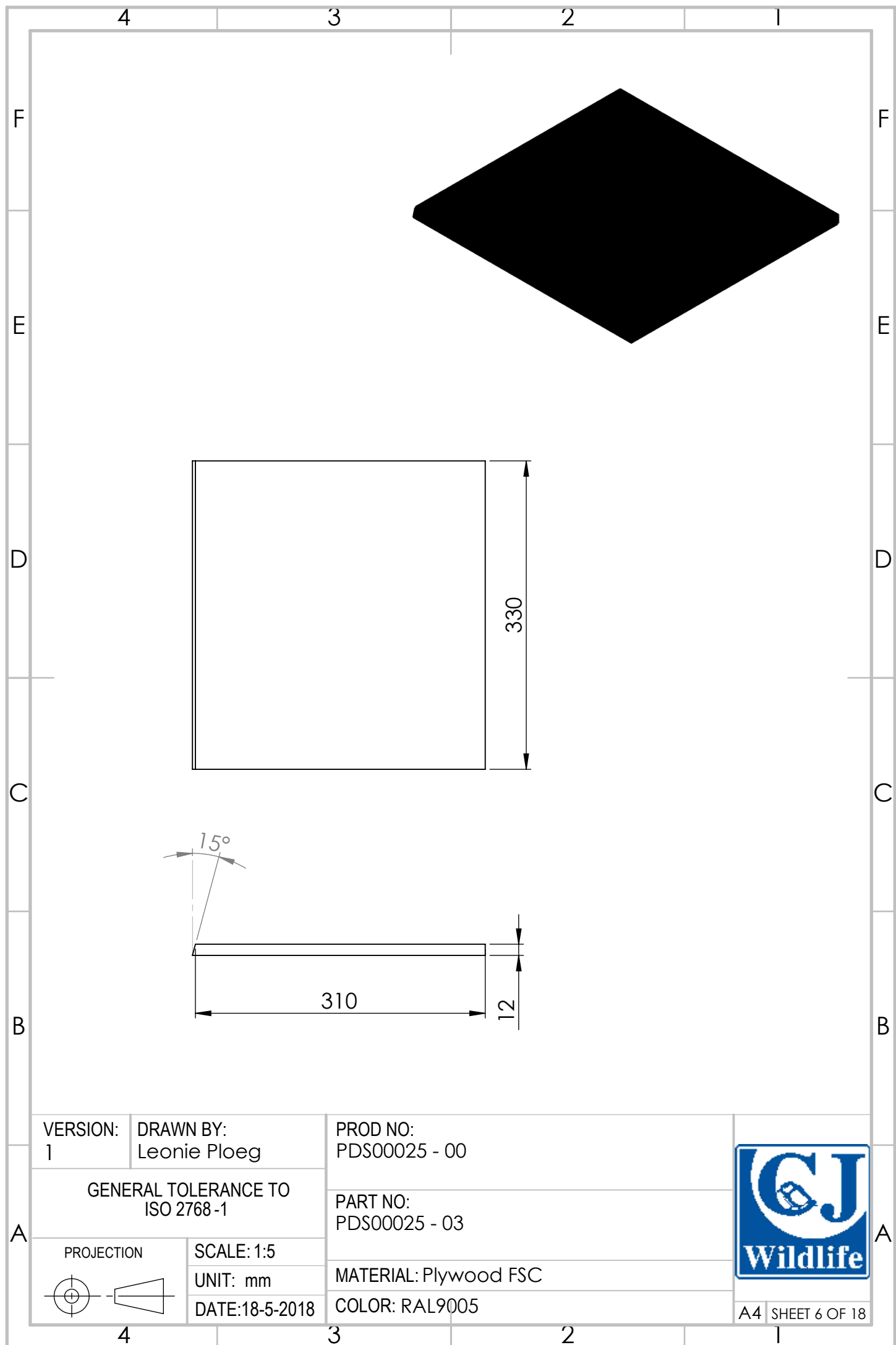
COLOR: RAL9005



A4 SHEET 4 OF 18

4 3 2 1





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00025 - 03

PROJECTION

SCALE: 1:5

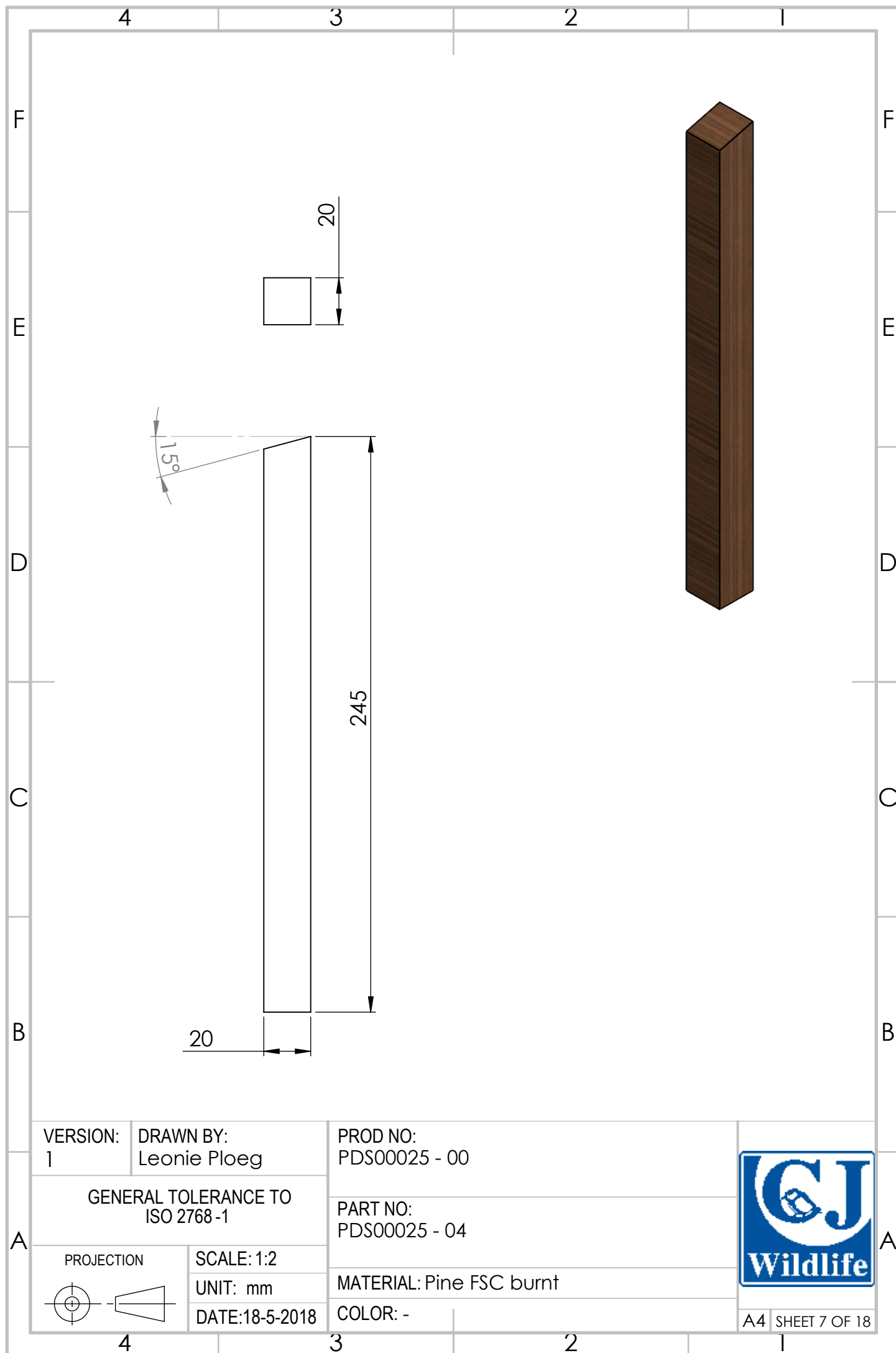
UNIT: mm

DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00025 - 04

PROJECTION

SCALE: 1:2

UNIT: mm

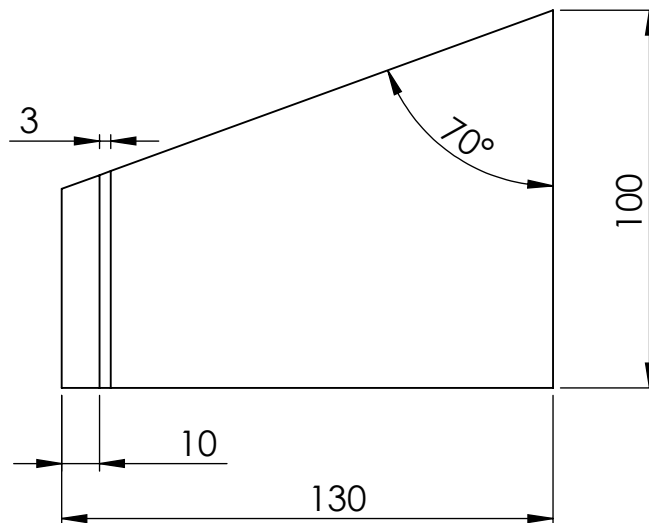
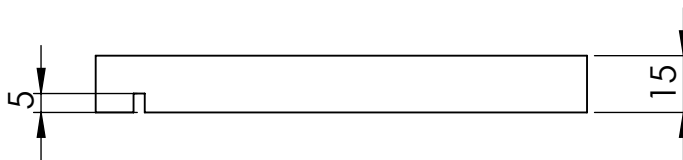
DATE:18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 7 OF 18



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00025 - 05

PROJECTION

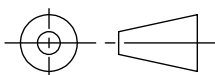
SCALE: 1:2

UNIT: mm

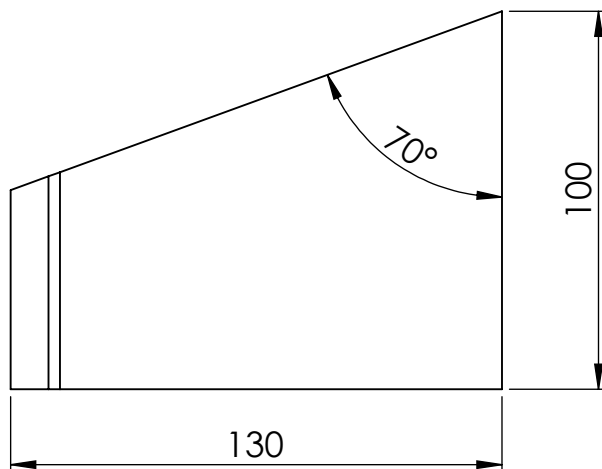
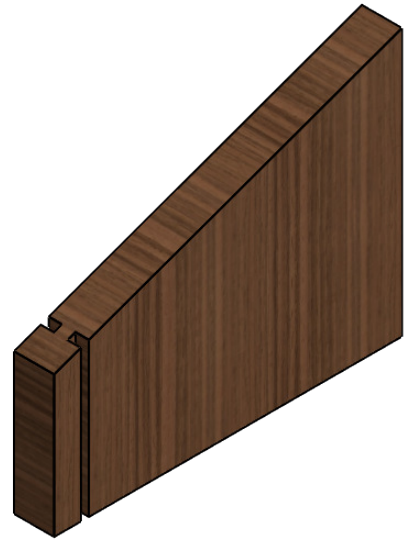
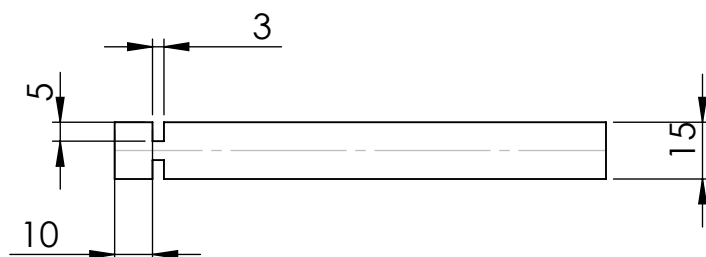
DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR:



A4 SHEET 8 OF 18



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00025 - 06

PROJECTION

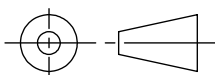
SCALE: 1:2

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR:



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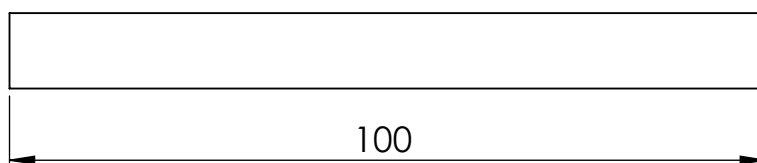
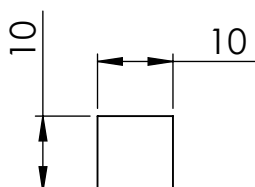
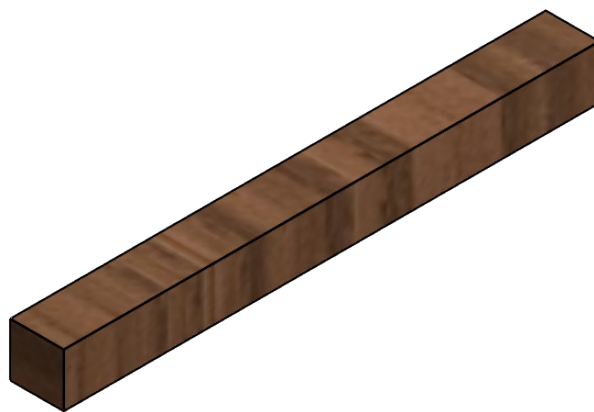
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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00025 - 07

PROJECTION

SCALE: 1:1

UNIT: mm

DATE:18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



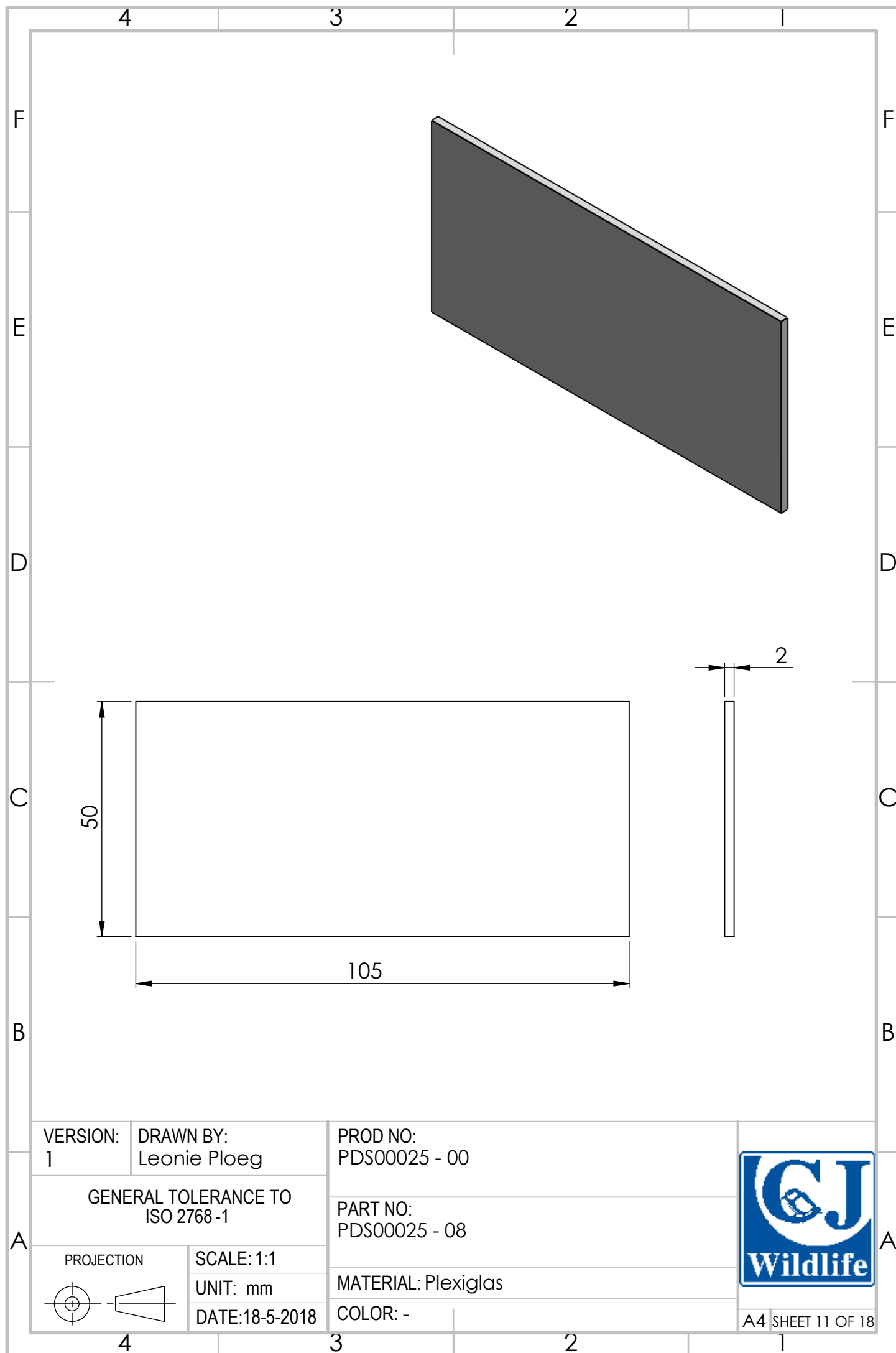
A4 SHEET 10 OF 18

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00025 - 08

PROJECTION

SCALE: 1:1

UNIT: mm

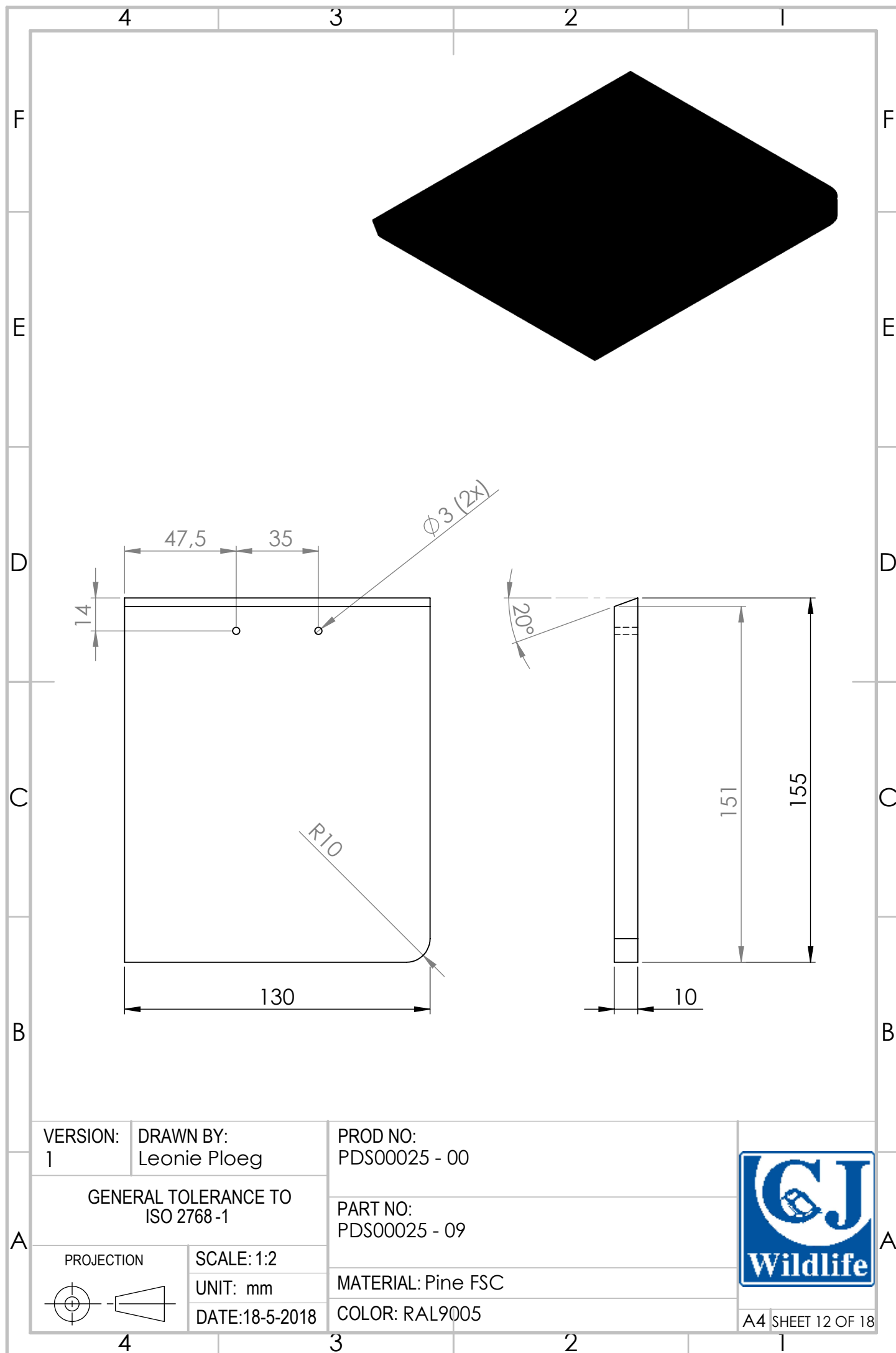
DATE:18-5-2018

MATERIAL: Plexiglas

COLOR: -



A4 SHEET 11 OF 18



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00025 - 09

PROJECTION

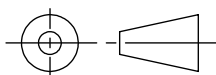
SCALE: 1:2

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC

COLOR: RAL9005



A4 SHEET 12 OF 18

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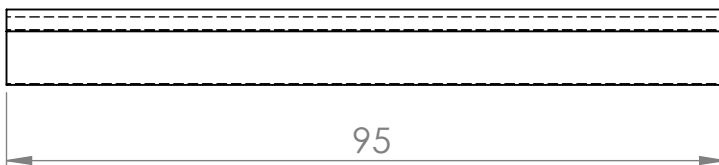
C

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00025 - 10

PROJECTION

SCALE: 1:1

UNIT: mm

DATE:18-5-2018

MATERIAL: PVC edge trim

COLOR:



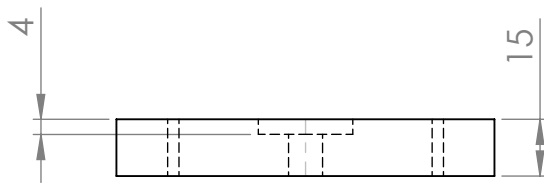
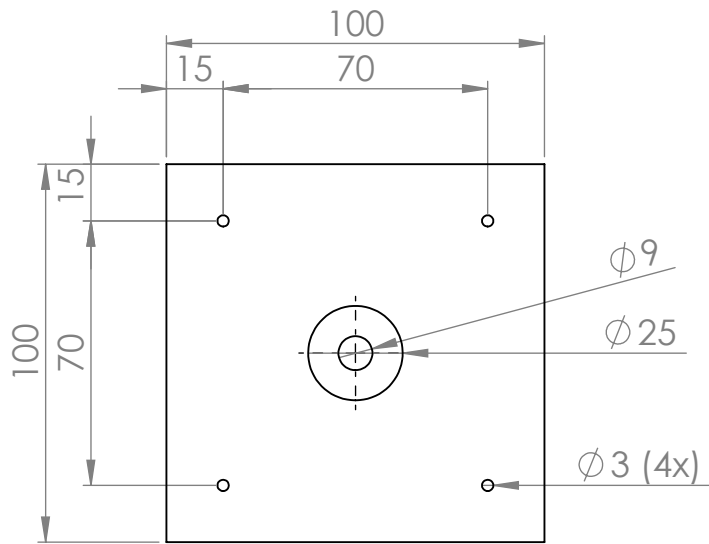
A4 SHEET 13 OF 18

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VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00025 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00025 - 11

PROJECTION

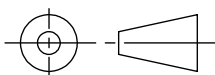
SCALE: 1:2

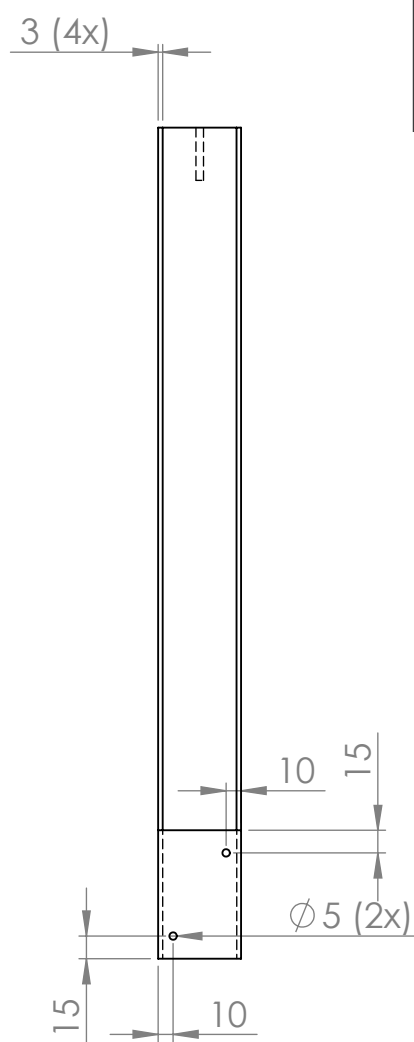
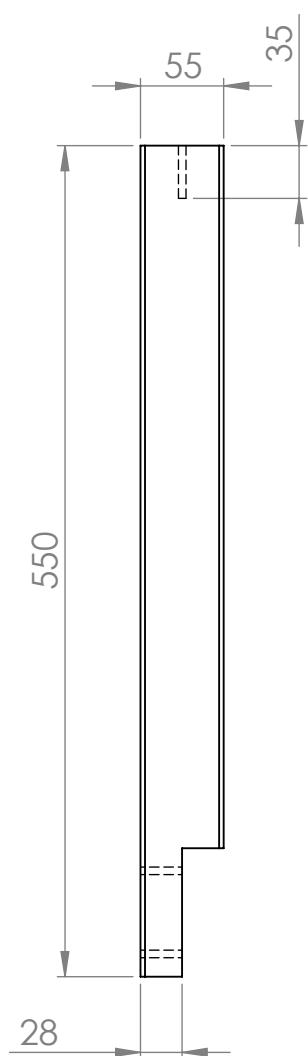
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR:

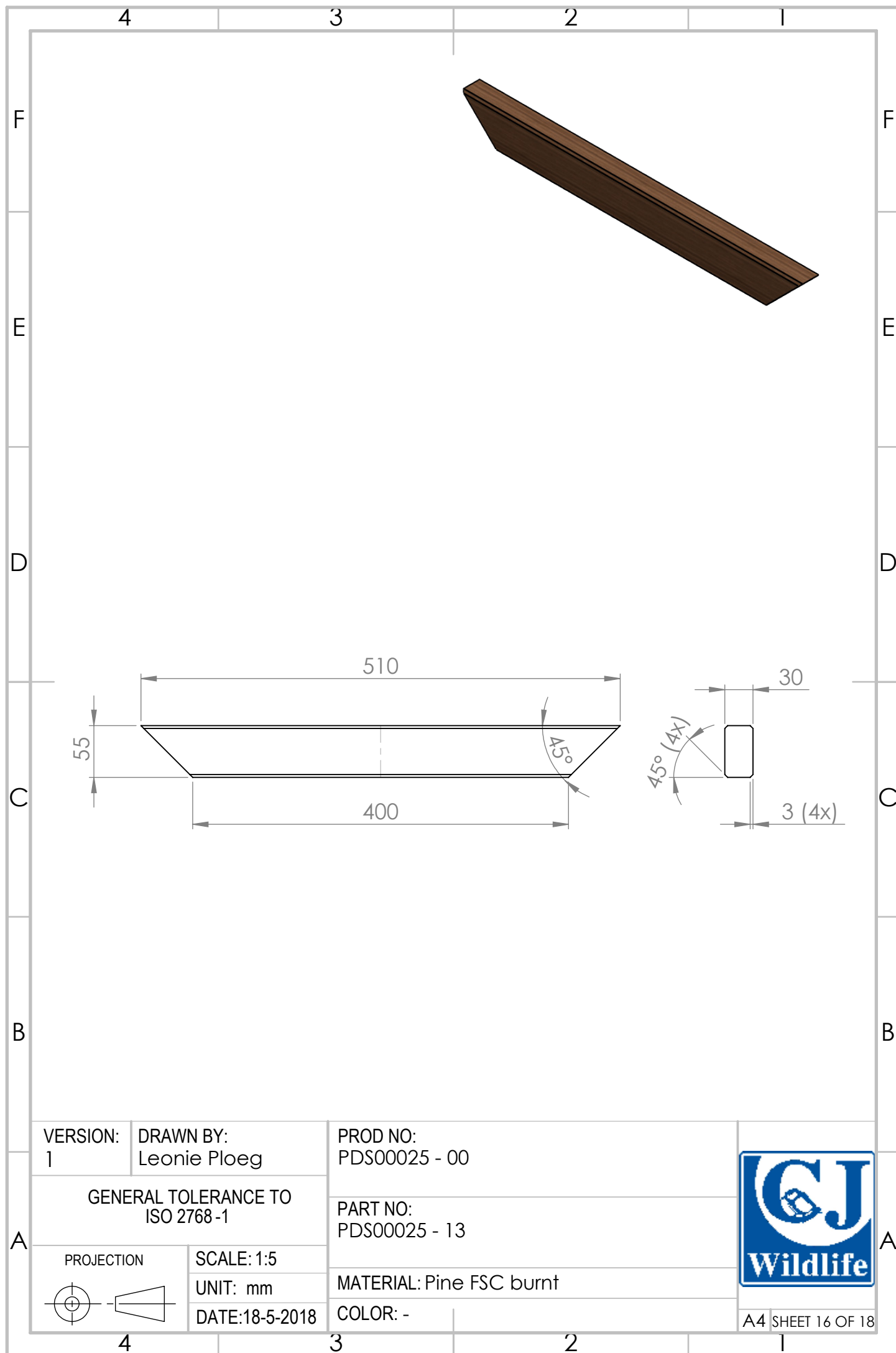


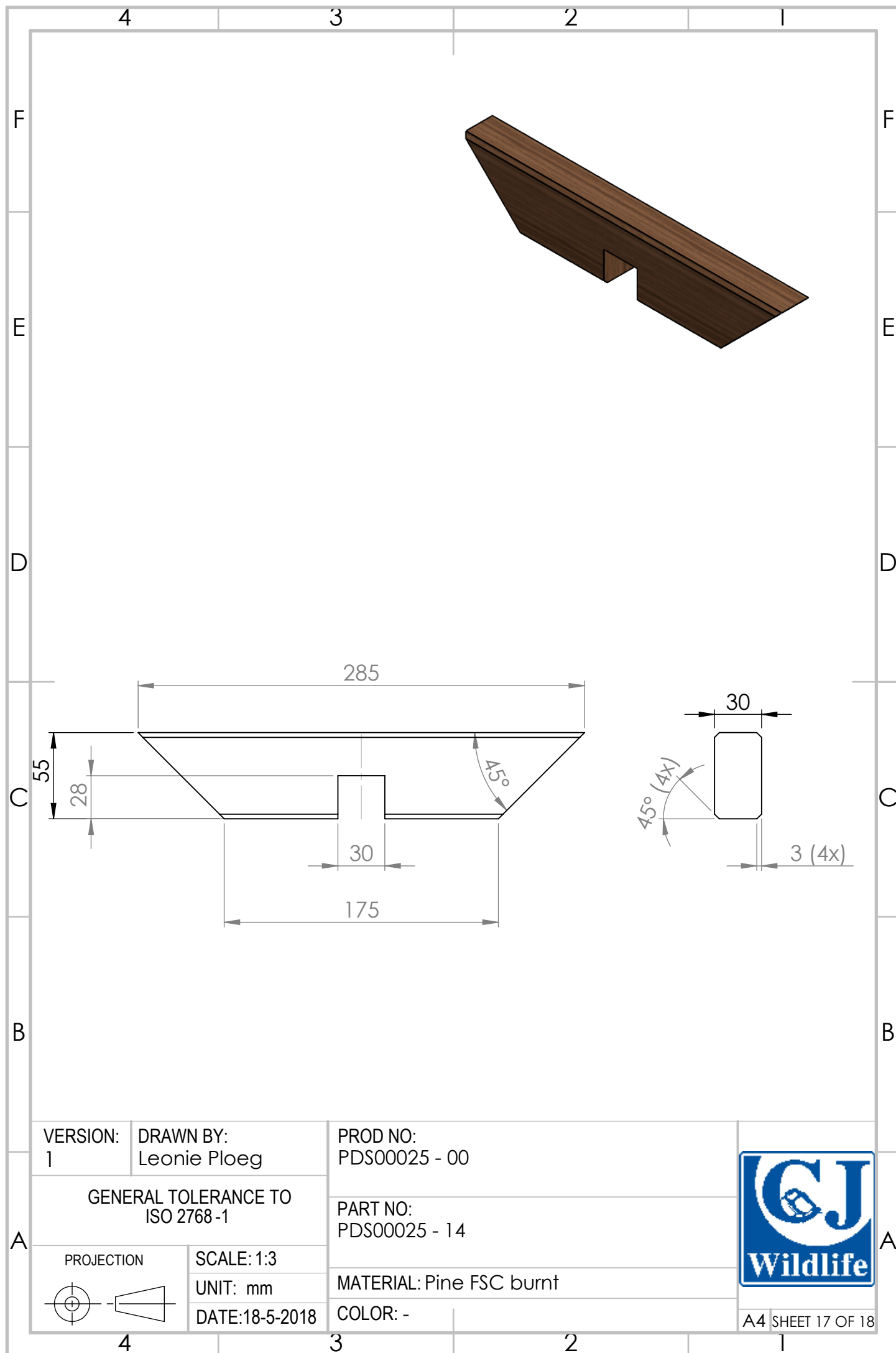


The diagram shows the orthographic projection of a cone. The front view on the right is a triangle with a horizontal base and a vertical apex, representing the cone's profile. The top view on the left is a circle with a smaller concentric circle inside, representing the cone's base and top surface. A horizontal line connects the two views, indicating they are aligned.



A4 SHEET 15 OF 18





4

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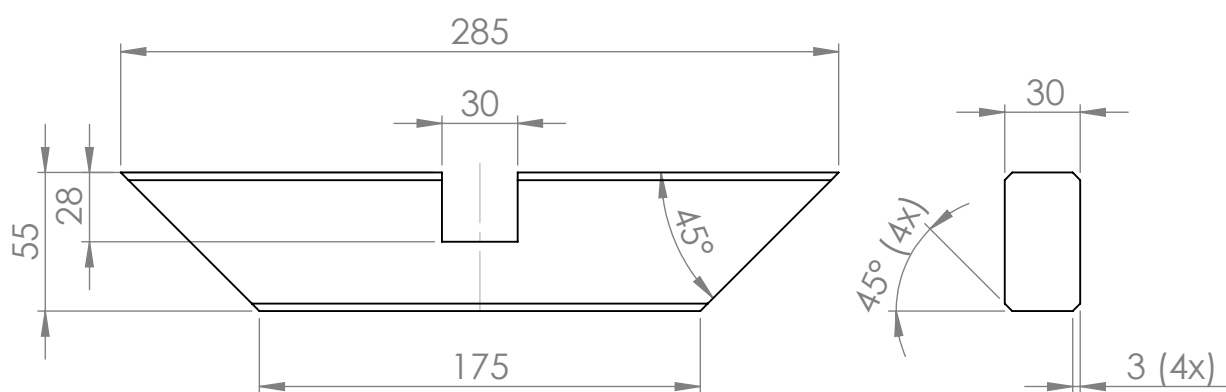
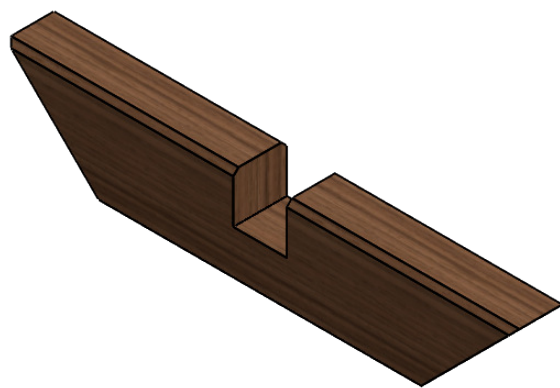
C

B

B

A

A



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00025 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00025 - 15

PROJECTION

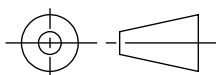
SCALE: 1:3

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



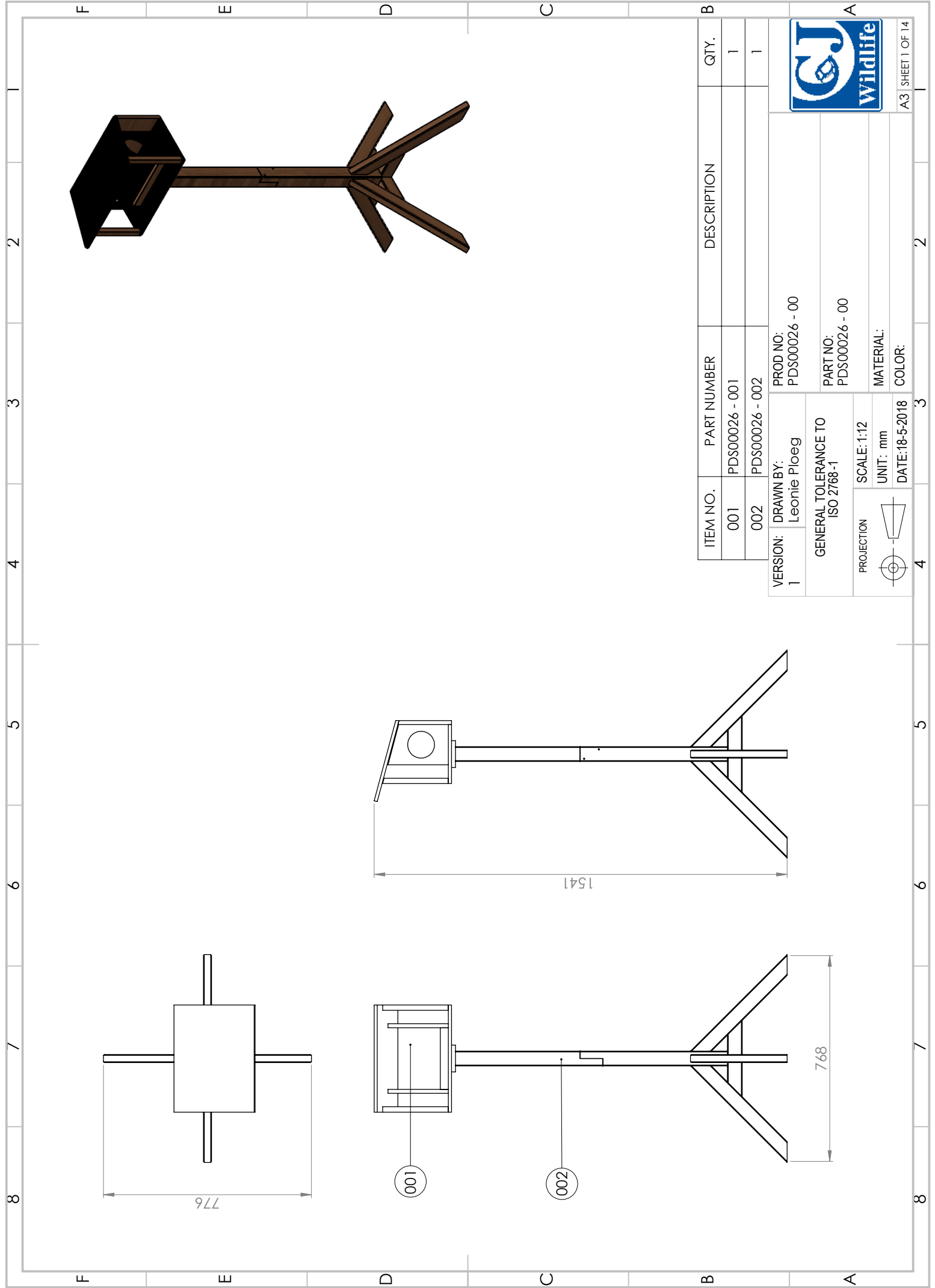
A4 SHEET 18 OF 18

4

3

2

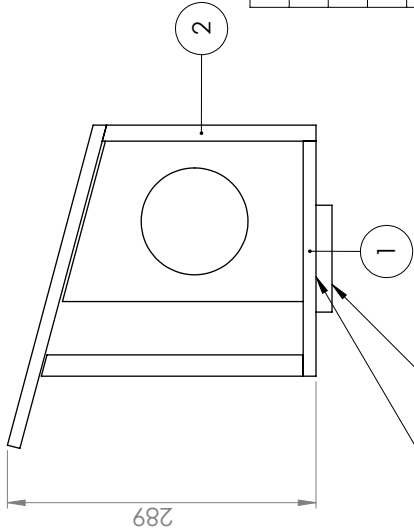
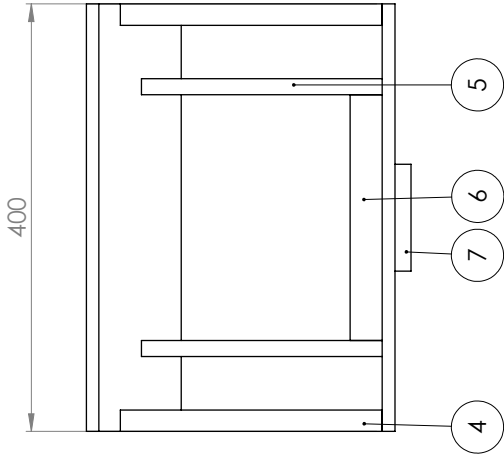
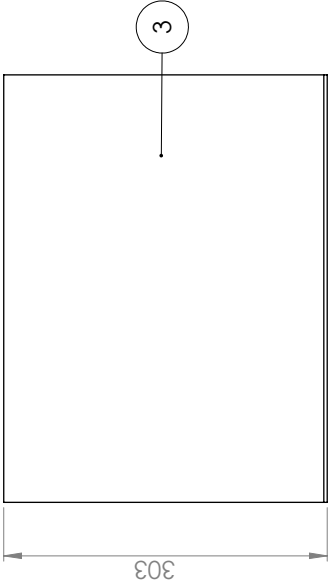
1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
001	PDS00026 - 001		1
002	PDS00026 - 002		1

VERSION: 1		DRAWN BY: Leonie Ploeg		PROD NO: PDS00026 - 00	
GENERAL TOLERANCE TO ISO 2768-1				PART NO: PDS00026 - 00	
PROJECTION		SCALE: 1:12		MATERIAL:	
		UNIT: mm		COLOR:	
		DATE: 18-5-2018			





Add T-nut M8

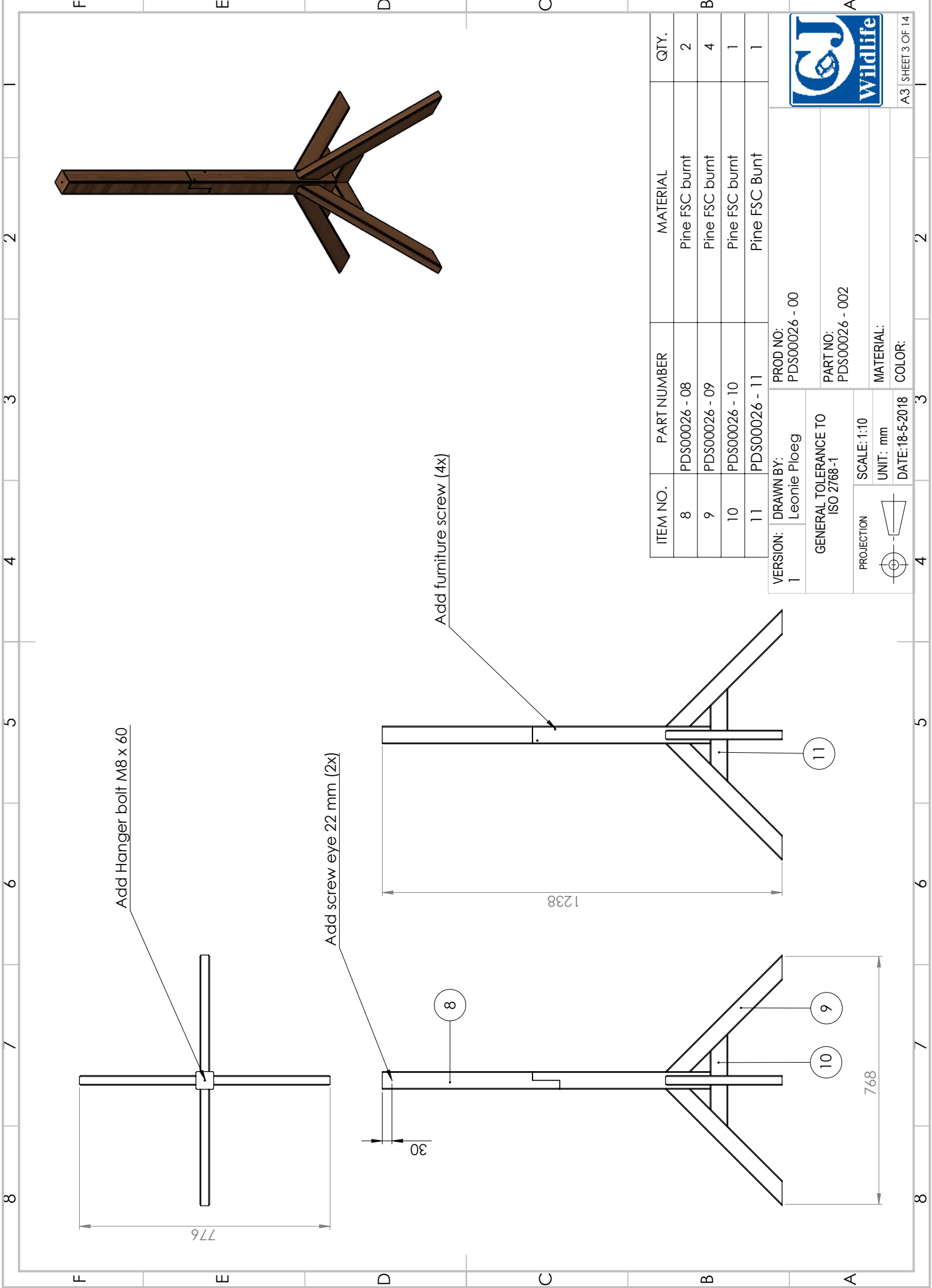
Add roundhead screw (4x)

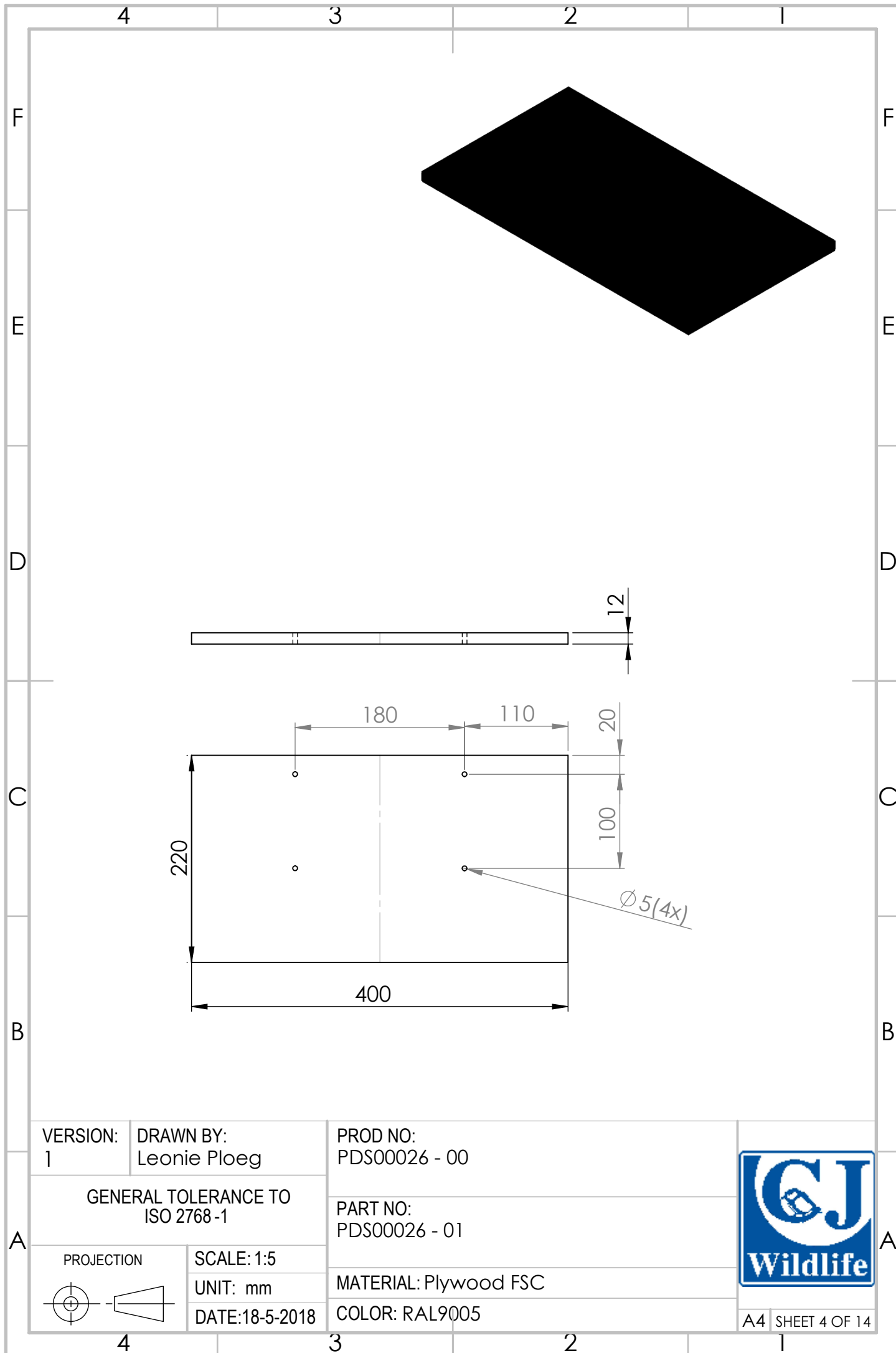


ITEM NO.	PART NUMBER	MATERIAL	QTY.
1	PDS00026 - 01	Plywood FSC	1
2	PDS00026 - 02	Pine FSC burnt	1
3	PDS00026 - 03	Plywood FSC	1
4	PDS00026 - 04	Pine FSC burnt	2
5	PDS00026 - 05	Pine FSC burnt	2
6	PDS00026 - 06	Pine FSC burnt	1
7	PDS00026 - 07	Pine FSC burnt	1

VERSION: 1	DRAWN BY: Leonie Ploeg	PROD NO: PDS00026 - 00	
		PART NO: PDS00026 - 001	
GENERAL TOLERANCE TO ISO 2768-1		MATERIAL:	
		COLOR:	
PROJECTION	SCALE: 1:5	UNIT: mm	
			
		DATE: 18-5-2018	
			
		A3 SHEET 2 OF 14	







VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 01

PROJECTION

SCALE: 1:5

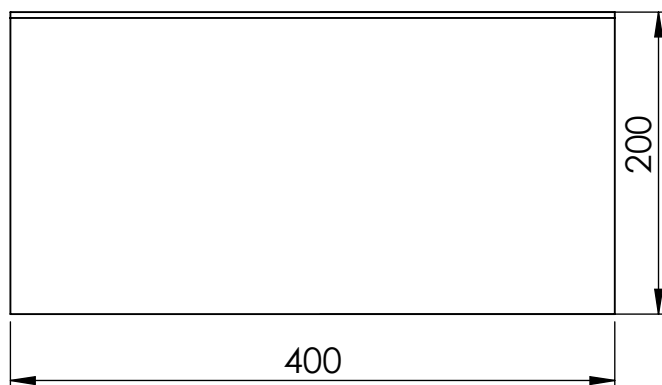
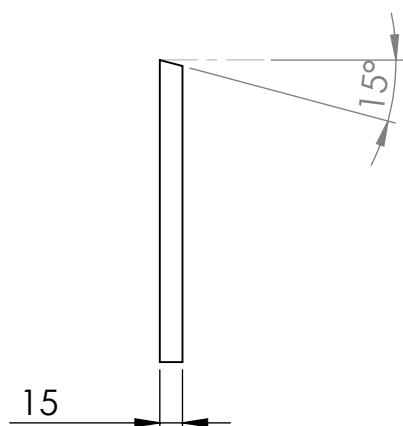
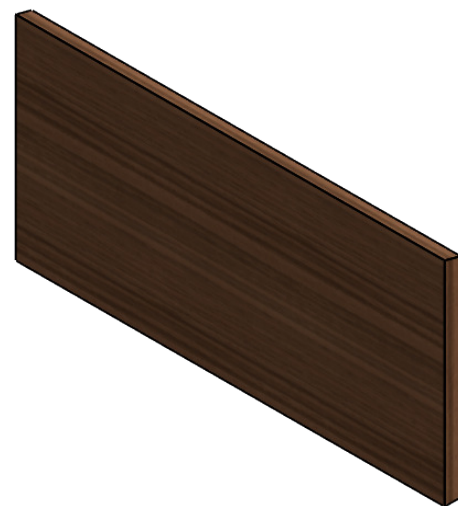
UNIT: mm

DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 02

PROJECTION

SCALE: 1:5

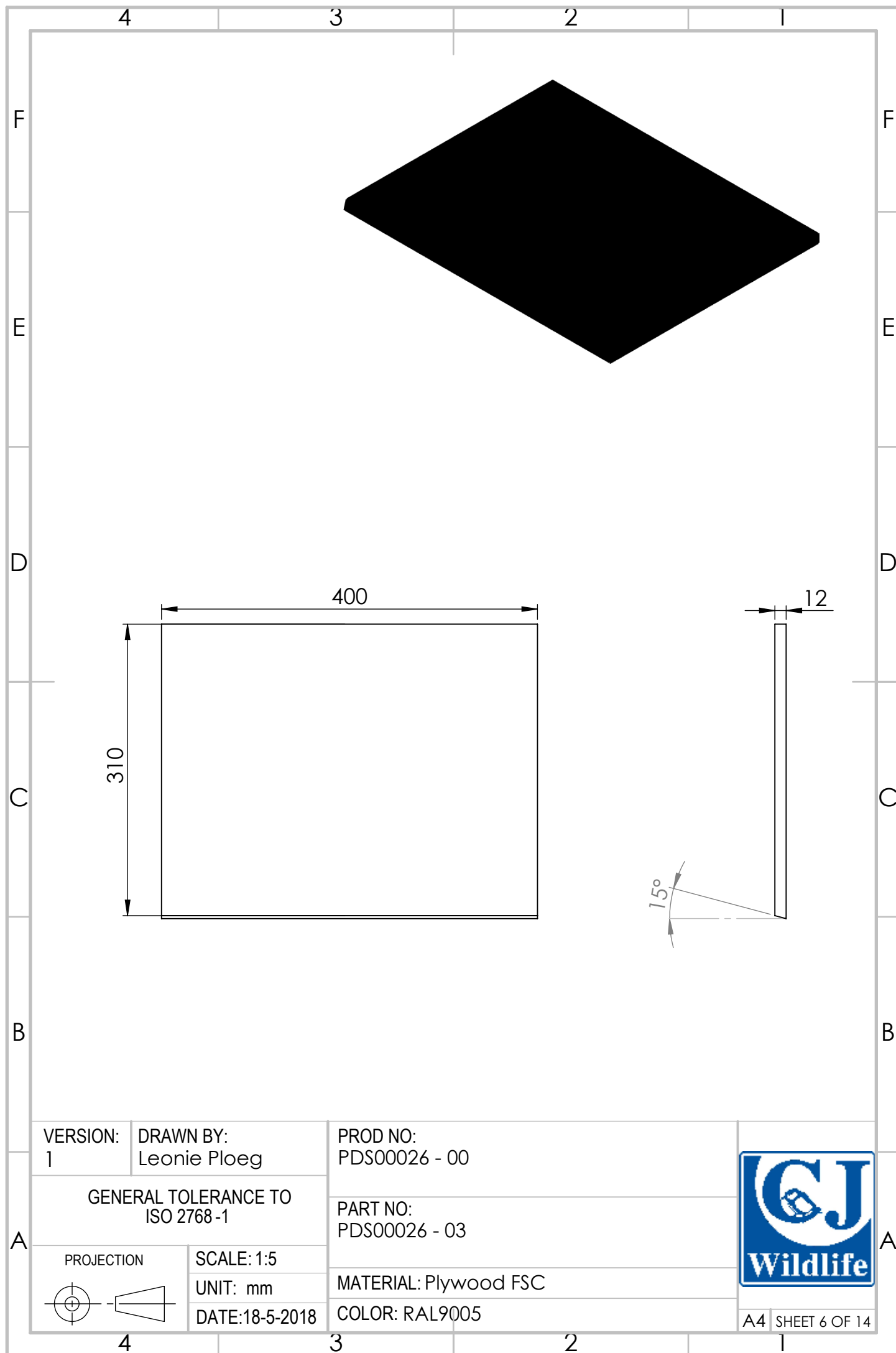
UNIT: mm

DATE:18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -





VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00026 - 00

GENERAL TOLERANCE TO ISO 2768 -1

PART NO: PDS00026 - 03

PROJECTION

SCALE: 1:5

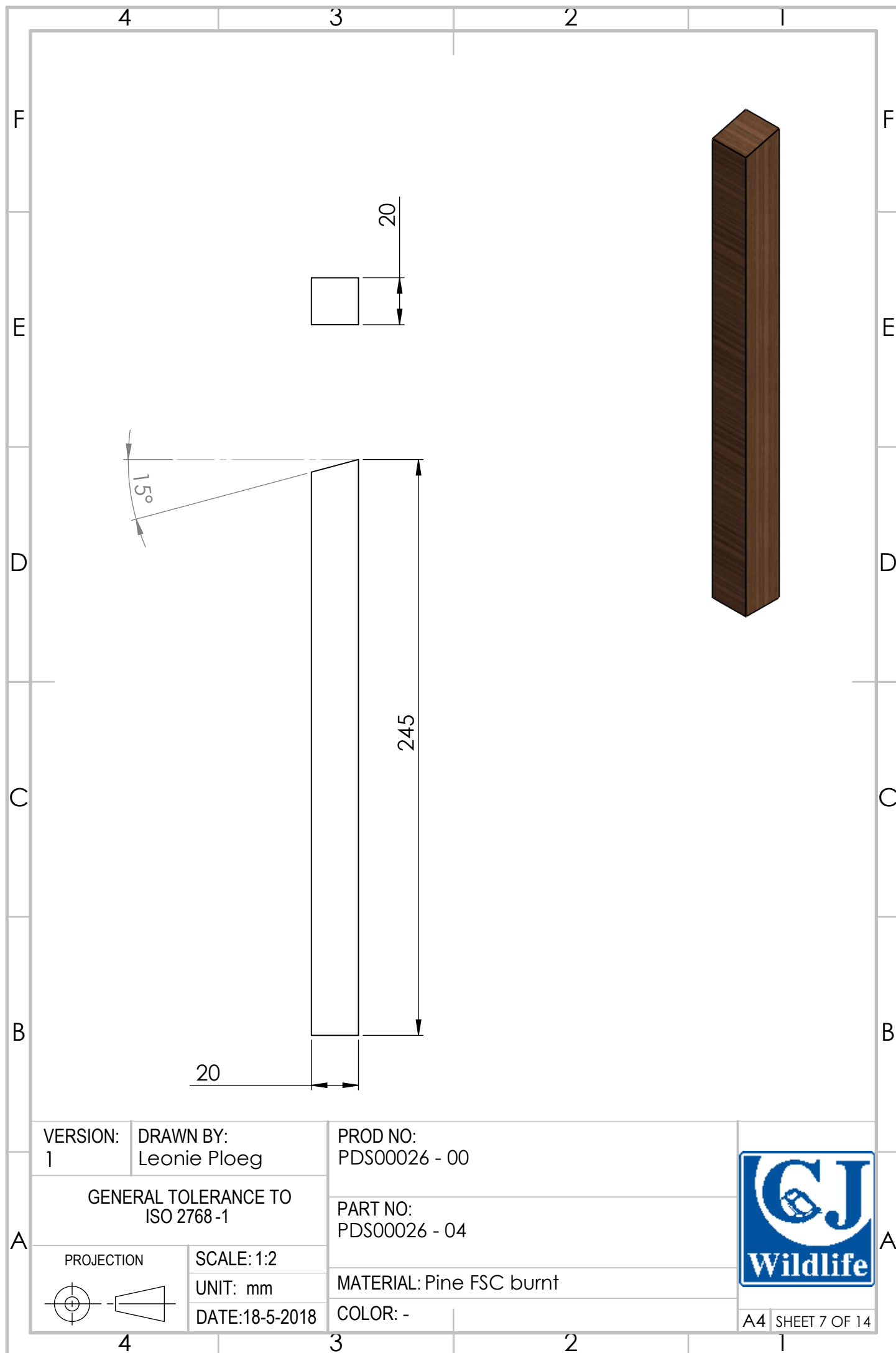
UNIT: mm

DATE: 18-5-2018

MATERIAL: Plywood FSC

COLOR: RAL9005





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 04

PROJECTION

SCALE: 1:2

UNIT: mm

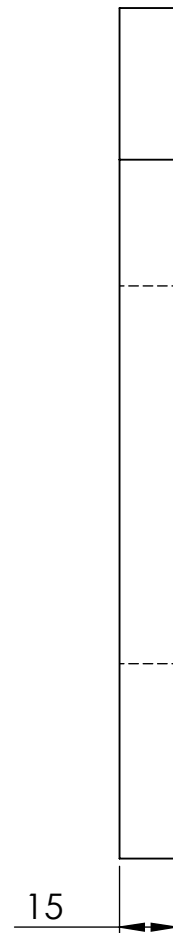
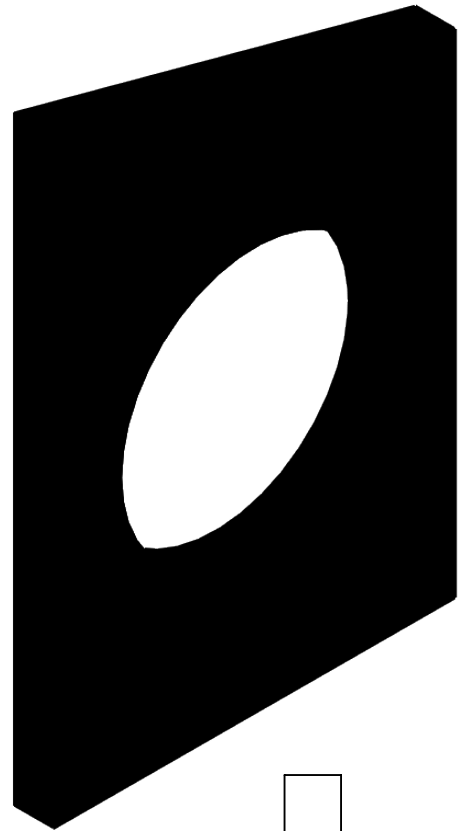
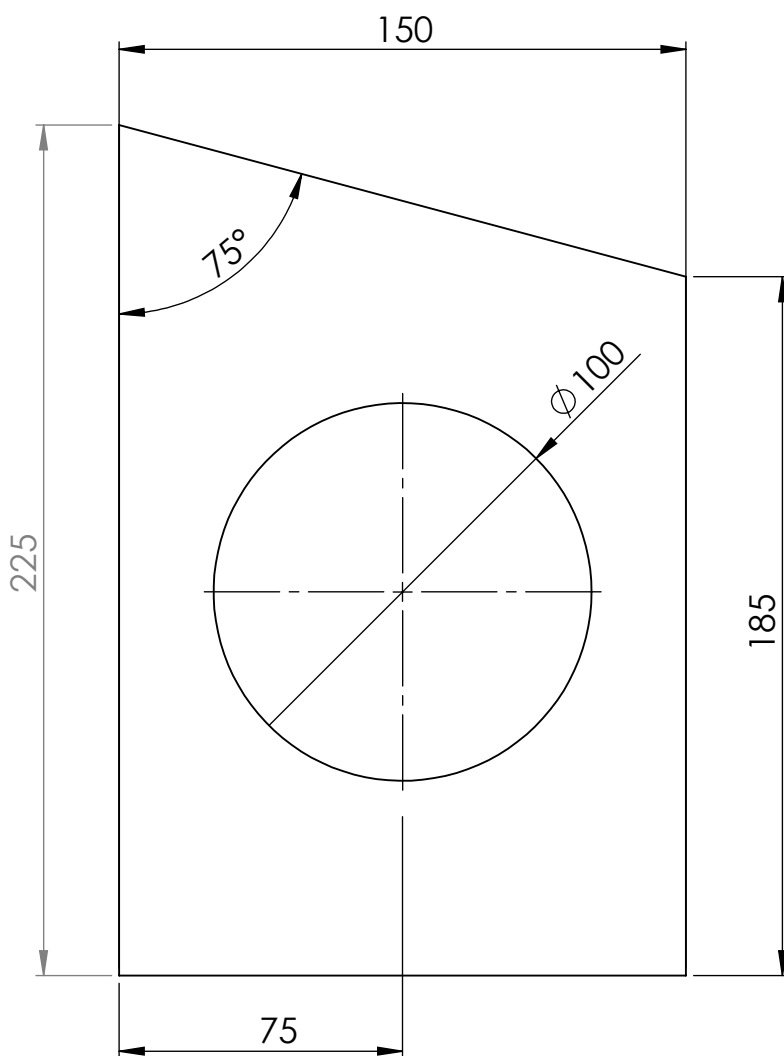
DATE:18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 7 OF 14



VERSION: 1
DRAWN BY: Leonie Ploeg

PROD NO: PDS00026 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00026 - 05

PROJECTION

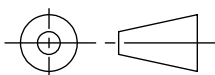
SCALE: 1:2

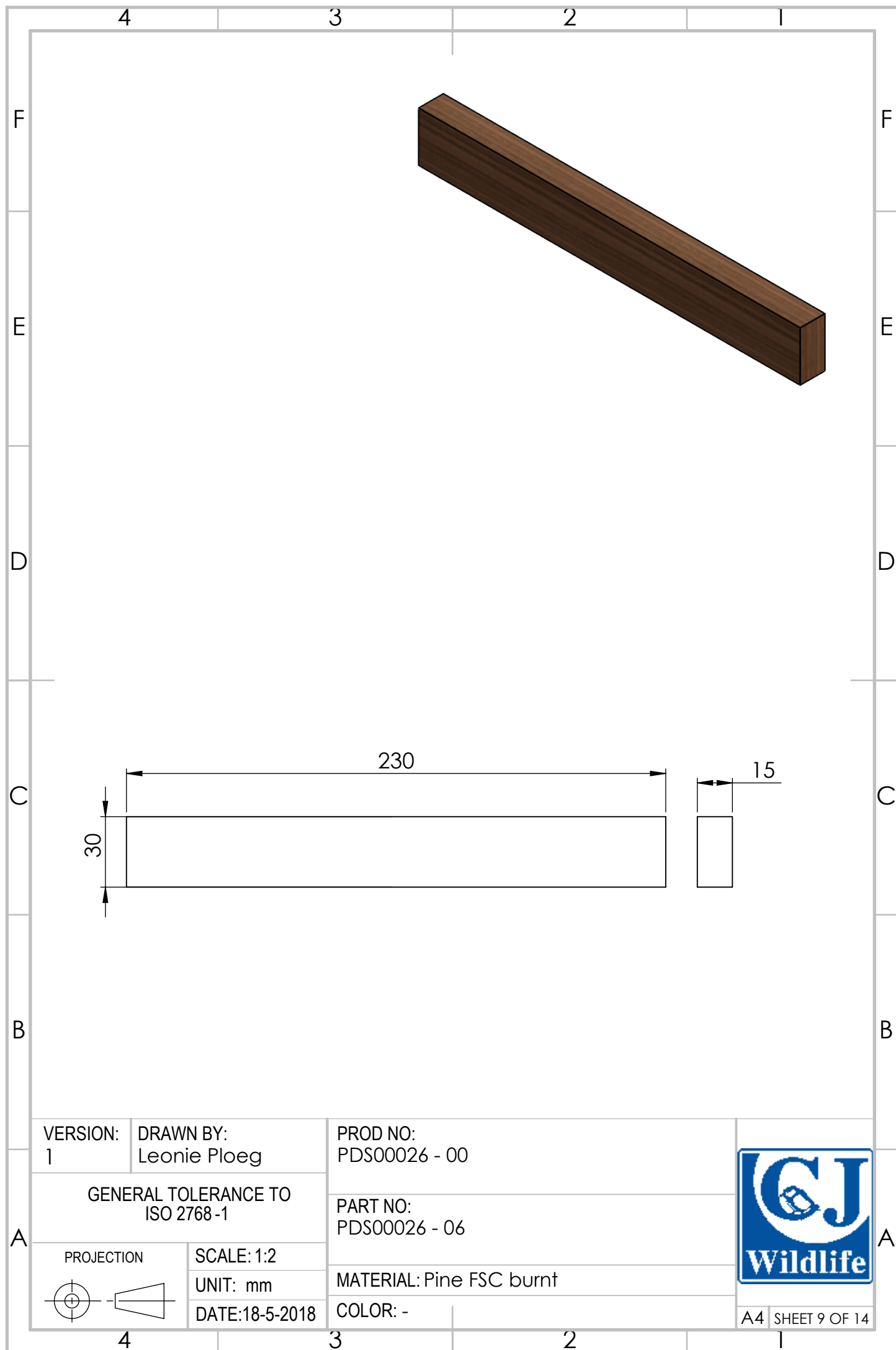
UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: RAL9005





VERSION: 1
DRAWN BY: Leonie Ploeg

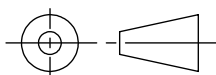
PROD NO: PDS00026 - 00

GENERAL TOLERANCE TO ISO 2768-1

PART NO: PDS00026 - 06

PROJECTION

SCALE: 1:2



UNIT: mm

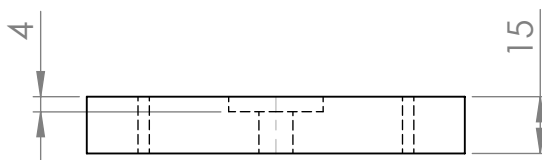
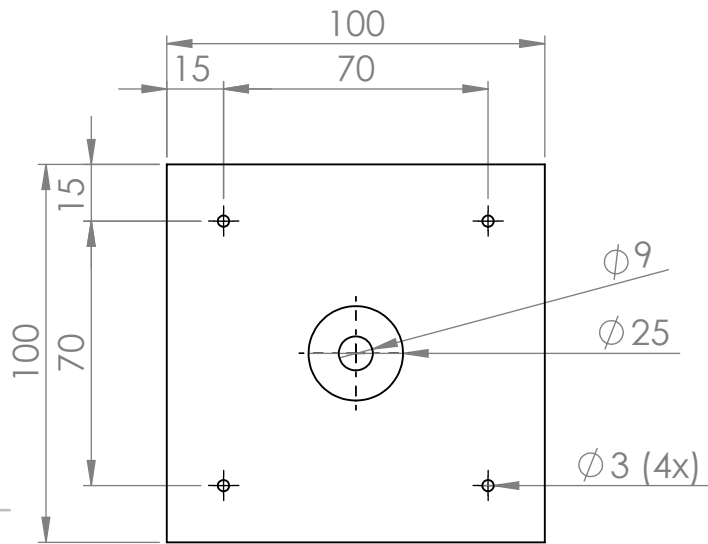
DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 9 OF 14



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 07

PROJECTION

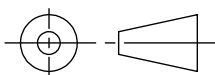
SCALE: 1:2

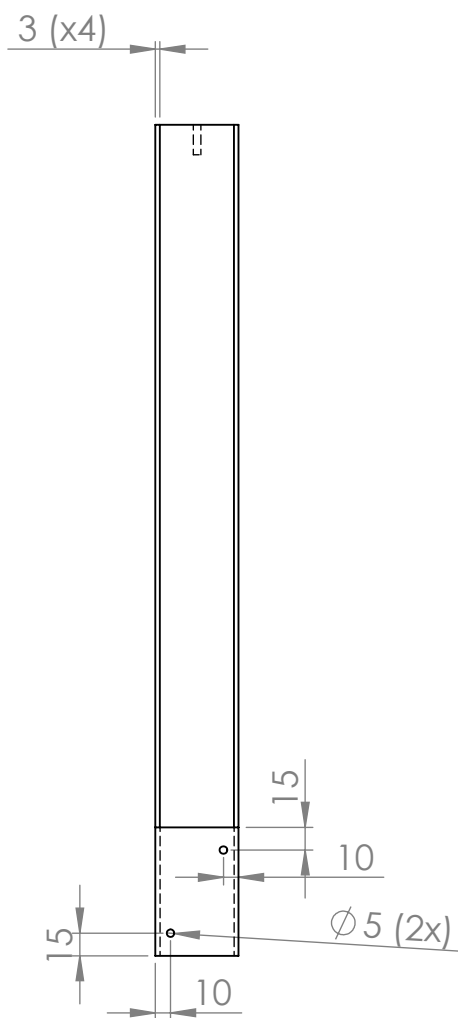
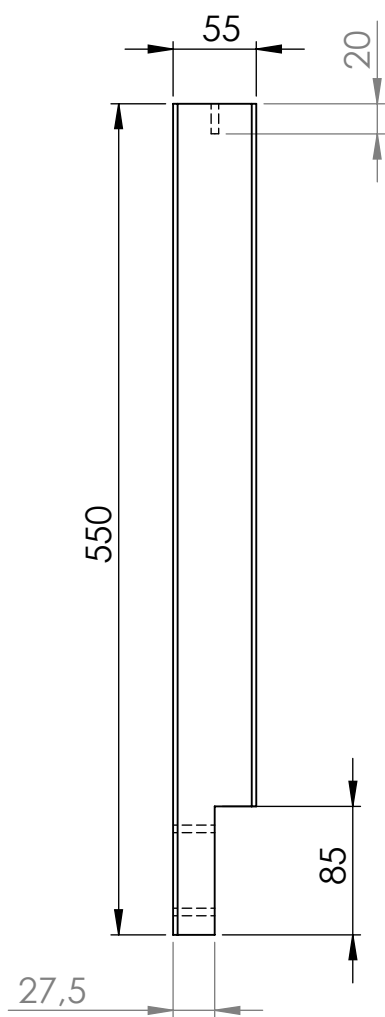
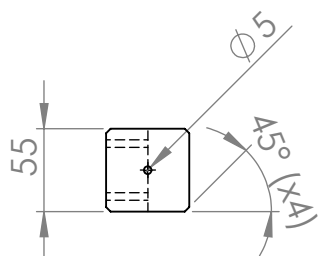
UNIT: mm

DATE:18-5-2018

MATERIAL: Pine FSC burnt

COLOR:





VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768-1

PART NO:
PDS00026 - 08

PROJECTION

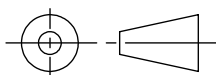
SCALE: 1:5

UNIT: mm

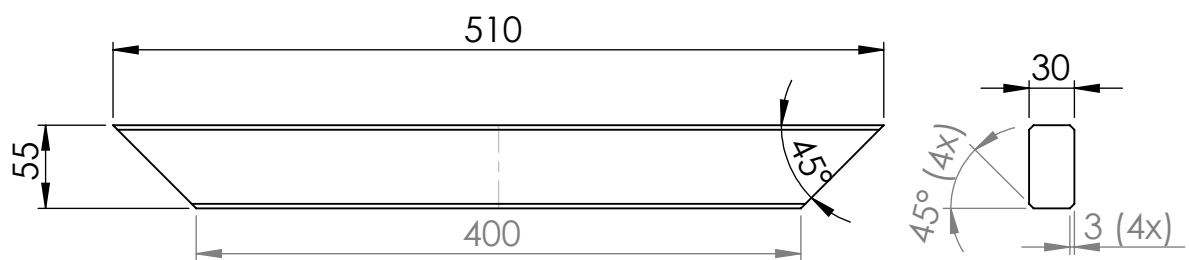
DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 11 OF 14



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 09

PROJECTION

SCALE: 1:5

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 12 OF 14

4 3 2 1

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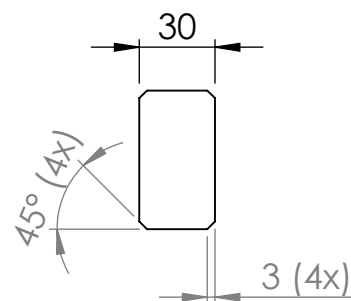
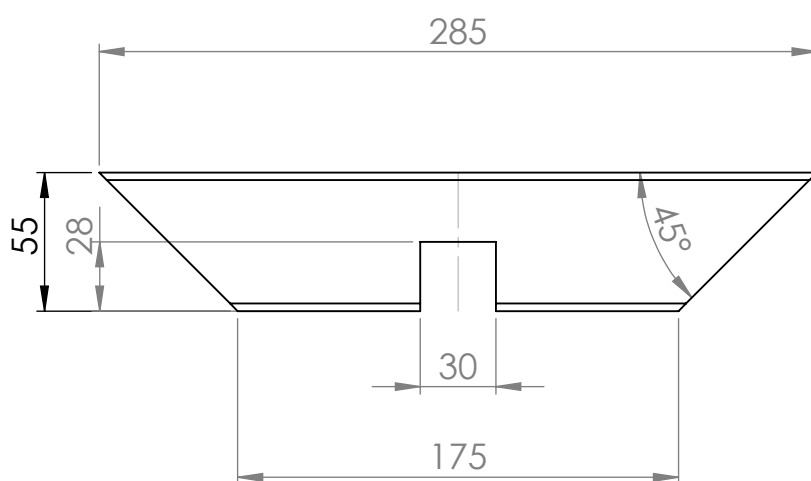
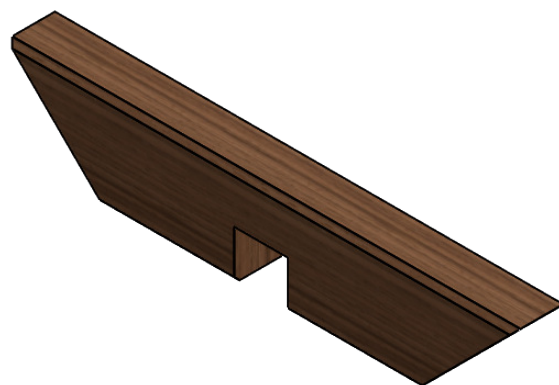
C

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VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 10

PROJECTION

SCALE: 1:3

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC burnt

COLOR: -



A4 SHEET 13 OF 14

4 3 2 1

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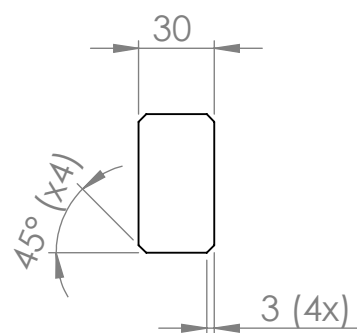
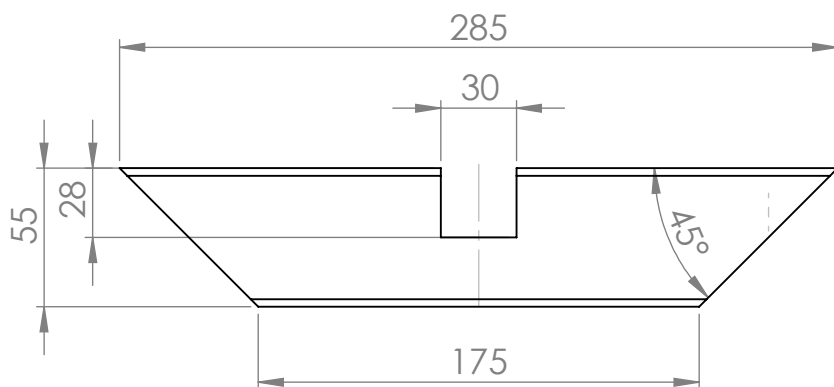
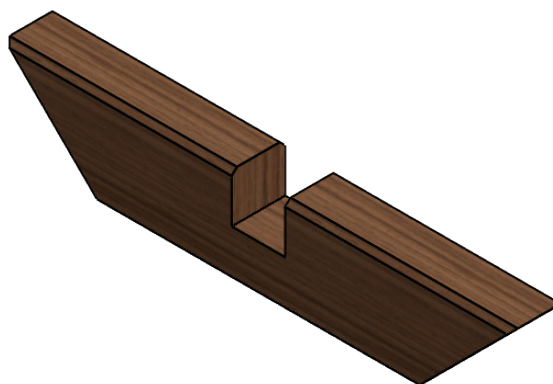
C

B

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A



VERSION:
1

DRAWN BY:
Leonie Ploeg

PROD NO:
PDS00026 - 00

GENERAL TOLERANCE TO
ISO 2768 -1

PART NO:
PDS00026 - 11

PROJECTION

SCALE: 1:3

UNIT: mm

DATE: 18-5-2018

MATERIAL: Pine FSC Bunt

COLOR: -



A4 SHEET 14 OF 14

4

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1

Bijlage P: Kostprijs

Hier zijn de berekeningen van de kostprijs per product weergegeven. De berekende waardes zijn een inschatting. De prijzen zijn vrij hoog. De grootste oorzaak hiervoor zijn de materiaalkosten. Het verlijmd vurenhout is het duurst gebruikte materiaal. Er is gekozen voor dit materiaal omdat dit gebrand kan worden volgens de shou-sugi-ban methode. Dit beschermt het hout en dus het product. De levensduur van het product zal worden verlengd. Omdat de producten langer mee zullen gaan is het nog niet een groot probleem dat de producten wat duurder zijn.

De consumentenprijs is berekend door de fabricagekosten te vermenigvuldigen met 4. Dit geeft een inschatting. De precieze consumentenprijs kan nog afwijken.

Product: Hedgehog house 01					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd vurenhout (FSC) (dikte 15 mm)	16,44	1,97	€ 15,90	€ 31,32
Huisje	Plywood (FSC) (dikte 12 mm)		0,49	€ 8,00	€ 3,92
Dak bekleding	Bitumen	-	0,32	€ 1,34	€ 0,43
				Totale kosten	€ 35,67
Productie					
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten	
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	5	1	€ 17,50	€ 3,50	
			Totale kosten	€ 3,65	
Transport					
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,115	17	544	€ 1.000,00	€ 1,84
Fabricage kosten				Totaal	€ 41,16
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%					€ 164,64
Consumentenprijs incl. BTW 21%					€ 199,21

Product: Hedgehog house 02					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd vurenhout (FSC) (dikte 15 mm)	18,06	2,21	€ 15,90	€ 35,14
Huisje	Plywood (FSC) (dikte 12 mm)		0,52	€ 8,00	€ 4,16
Dak bekleding	-		0,32	€ 1,34	€ 0,43
				Totale kosten	€ 39,73
Productie					
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten	
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	5	1	€ 17,50	€ 3,50	
			Totale kosten	€ 3,65	
Transport					
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,119	16	512	€ 1.000,00	€ 1,95
				Totaal	€ 45,33
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%					€ 181,32
Consumentenprijs incl. BTW 21%					€ 219,40

Product: Squirrel house 01					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd vurenhout (FSC) (dikte 15 mm)	18,51	2,17	€ 15,90	€ 34,50
Huisje	Plywood (FSC) (dikte 12 mm)		0,33	€ 8,00	€ 2,64
Dak bekleding	Bitumen		0,22	€ 1,34	€ 0,29
		Gewicht (kg)	Lengte (m)	Prijs/ m	Kosten
Balken	Vurenhout (FSC)	3,7	1,21	€ 1,57	€ 1,90
Ophanging	Vurenhout (FSC)	2,04	1,03	€ 1,57	€ 1,62
				Totale kosten	€ 40,95
Productie					
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten	
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	5	1	€ 17,50	€ 3,50	
				Totale kosten	€ 3,65
Transport					
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,193	10	320	€ 1.000,00	€ 3,13
				Totaal	€ 47,73
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%					€ 190,92
Consumentenprijs incl. BTW 21%					€ 231,01

Product: Squirrel house 02					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd vurenhout (FSC) (dikte 15 mm)	13,2	1,57	€ 15,90	€ 24,96
Huisje	Plywood (FSC) (dikte 12 mm)		0,34	€ 8,00	€ 2,72
Dak bekleding	Bitumen		0,28	€ 1,34	€ 0,38
		Gewicht (kg)	Lengte (m)	Prijs/ m	Kosten
Balken	Vurenhout (FSC)	1,02	0,4	€ 1,57	€ 0,63
Ophanging	Vurenhout (FSC)	2,04	1,03	€ 1,57	€ 1,62
				Totale kosten	€ 30,30
Productie					
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten	
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	5	1	€ 17,50	€ 3,50	
				Totale kosten	€ 3,65
Transport					
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,327	6	192	€ 1.000,00	€ 5,21
				Totaal	€ 39,16
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%				€	156,65
Consumentenprijs incl. BTW 21%				€	189,54

Product: Squirrel feeder pole 01					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd vurenhout (FSC) (dikte 15 mm)	4,14	0,6	€ 15,90	€ 9,54
Huisje	Plywood (FSC) (dikte 12 mm)		0,17	€ 8,00	€ 1,36
Ruitjes	Plexiglas		0,0523	€ 22,68	€ 1,19
		Gewicht (kg)	Lengte (m)	Prijs/ m	Kosten
Paal	Vurenhout (FSC)	6,85	4,6	€ 1,57	€ 7,22
				Totale kosten	€ 19,31
Productie					
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten	
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	4	1	€ 17,50	€ 4,38	
				Totale kosten	€ 4,53
Transport					
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,468	4	128	€ 1.000,00	€ 7,81
Fabricage kosten				Totaal	€ 31,65
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%					€ 126,58
Consumentenprijs incl. BTW 21%					€ 153,17

Product: Squirrel feeder pole 02					
Materiaal					
Onderdeel	Soort materiaal	Gewicht (kg)	Oppervlakte (m²)	Prijs/ m²	Kosten
Huisje	Verlijmd urenhout (FSC) (dikte 15 mm)	5,33	0,64	€ 15,90	€ 10,18
Huisje	Plywood (FSC) (dikte 12 mm)		0,17	€ 8,00	€ 1,36
		Gewicht (kg)	Lengte (m)	Prijs/ m	Kosten
Paal	Vurenhout (FSC)	6,85	4,6	€ 1,57	€ 7,22
				Totale kosten	€ 18,76
Productie					
			Tijdsduur / manuren (per product)		
Onderwerp	Aantal producten			Prijs/ 60 min	Kosten
Zagen, boren, schuren, monteren, verven, branden	1	1,5	€ 0,10	€ 0,15	
Loon (1 persoon)	4	1	€ 17,50	€ 4,38	
				Totale kosten	€ 4,53
Transport					
		Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten
Route	Volume product				
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,468	4	128	€ 1.000,00	€ 7,81
Fabricage kosten				Totaal	€ 31,10
Consumentenprijs (4x fabricagekosten)					
Consumentenprijs excl. BTW 21%					€ 124,38
Consumentenprijs incl. BTW 21%					€ 150,50

Product: Set touw squirrel feeders (2x 2m)						
Materiaal						
Onderdeel	Soort materiaal	Aantal	Gewicht (kg)	Lengte (m)	Prijs/ m	Kosten
Touw	Hennep touw 12 mm	2	0,488	2	€ 2,10	€ 8,40
Haken	RVS	4	-	-	€ 0,05	€ 0,20
					Totale kosten	€ 8,60
Productie						
Onderwerp	Aantal producten	Tijdsduur / manuren (per product)	Prijs/ 60 min	Kosten		
Maat maken, monteren, verpakken	1	0,25	€ 0,10	€ 0,03		
Loon (1 persoon)	4	0,25	€ 17,50	€ 1,09		
					Totale kosten	€ 1,12
Transport						
Route	Volume product	Aantal producten per pallet	Totaal aantal producten per vrachtwagen	Prijs/ vrachtwagen	Kosten	
Vrachtwagen (32 pallets) (1 pallet= (l*b*h) 1,20*0,8*2,10 m) Litouwen-Nederland	0,027	75	2400	€ 1.000,00	€ 0,42	
Fabricage kosten					Totaal	€ 10,14
Consumentenprijs (4x fabricagekosten)						
Consumentenprijs excl. BTW 21%					€ 40,54	
Consumentenprijs incl. BTW 21%					€ 49,06	

Bronnen:

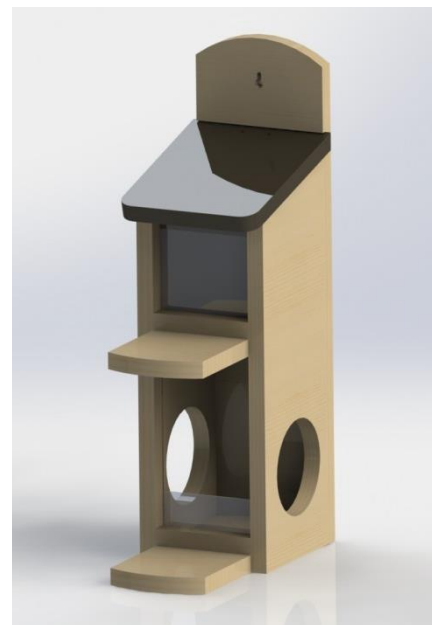
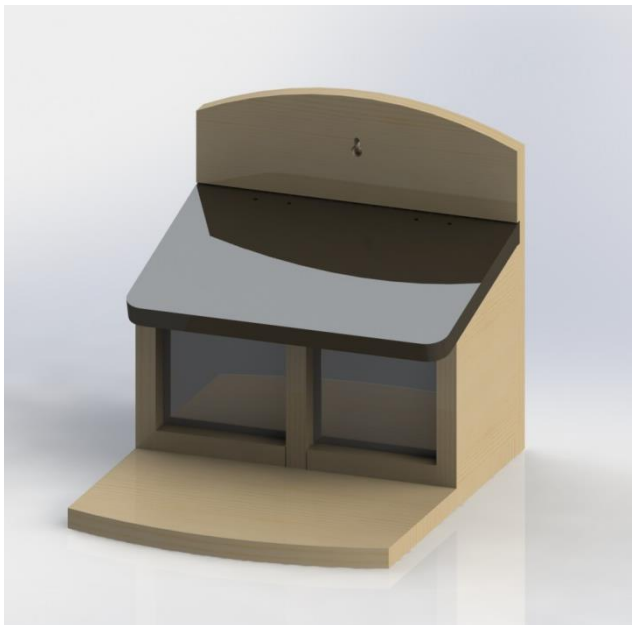
Onderwerp	Afmetingen	Prijs	Bronnen
Verlijmd vurenhout FSC	m², dikte 15 mm	€ 15,90	Henk
Vurenhout FSC balken	50*50*lengte	€ 1,57	Gamma (omgerekend)
Plywood FSC	m², dikte 12 mm	€ 8,00	Henk
Plexiglas	m²	€ 22,68	https://kunststofplatenshop.nl/product/budget-plexiglas-helder-2-mm/
			https://www.debouwmarktshop.eu/epages/62433508.sf.nl/_NL/?ObjectPath=/Shops/62433508/Categories/Dak_Producten/Plat_dak_materialen/Bitumen
Bitumen prijs	m²	€ 1,34	
Hennep touw	m, ø 12 mm	€ 2,10	https://www.touwbestellen.nl/touwbestellen/hennep-touw-vlas/sp000187
Transportkosten	Vrachtwagen (32 pallets)	€ 1.000,00	Henk

Bijlage Q: Extra werk

Gedurende de stageperiode zijn er ook activiteiten uitgevoerd voor het bedrijf. Zo zijn er tekeningen opgesteld, aangepast of verbeterd voor producten. Een aantal andere activiteiten zijn hieronder beschreven.

Squirrel feeders

De directeur Jan Thomassen van het bedrijf Vivara, wilde graag nieuwe varianten van het bestaande eekhoornvoederhuisje. Het idee was om een dubbele variant te maken en een variant gecombineerd met een vogelvoederhuisje waar ook de eekhoorn nog eventueel kan eten. Naar aanleiding van deze wensen zijn er ontwerpen gemaakt in Solidworks. De renderings zijn hierna voorgelegd aan Jan. De goedgekeurde ontwerpen zijn vervolgens omgezet in technische tekeningen. Deze technische tekeningen zijn verstuurd om samples van deze producten op te vragen. Er zal dan bepaald worden of deze producten ook worden opgenomen in het assortiment van Vivara.



De ontwerpen zijn hierboven afgebeeld. Links de double Squirrel feeder en rechts de Squirrel and bird feeder. De producten zullen worden gemaakt van vurenhout. De dakjes worden zwart geverfd.

Approval products

Wanneer er samples voor nieuwe producten worden geleverd, dienen deze producten te worden gecontroleerd. De producten worden gecontroleerd op montagefouten, afmetingen, scheuren etc. Bij elk product dat gecontroleerd wordt, wordt er een approval form opgesteld. In dit document staat het product, productnummer, goedgekeurd/ afgekeurd, foto's van het product en opmerkingen wanneer het product bijvoorbeeld is afgekeurd door fouten. Een sticker wordt op het product geplaatst zodat er snel gezien kan worden of het een goedgekeurd of afgekeurd product is. Op deze manier kan de kwaliteit worden behouden van de producten. De formulieren worden opgeslagen zodat er altijd terug gekeken kan worden wanneer dit nodig is. Wanneer een product is afgekeurd kan de technische tekening ervan worden aangepast. Dit kan er in de toekomst voor zorgen dat de producten een betere kwaliteit zullen krijgen.

Vogelkastlijn

Een andere extra opdracht waar aan gewerkt is, is het ontwerpen van een nieuwe lijn met vogelhuisjes en voederhuisjes. Hier zijn verschillende schetsen voor gemaakt. De schetsen zijn op vorm gesorteerd zodat er een reeks van ontwerpen ontstaat. Er zijn enkele reeksen gemaakt waarna er twee zijn uitgekozen. Deze zijn voor een deel aangepast. Vervolgens zijn de buitenmaten bij de ontwerpen gezet. Deze ontwerpen kunnen in de toekomst eventueel verder worden uitgewerkt tot echte producten.