

1

2

3

4

A

A

B

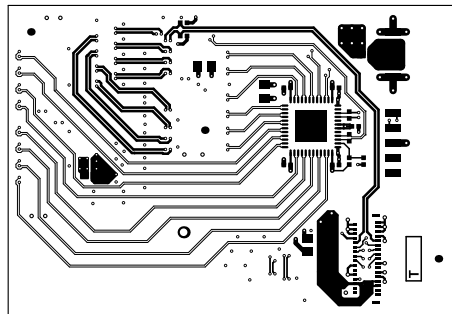
B

C

C

D

D



Top Layer

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4



1

2

3

4

A

A

B

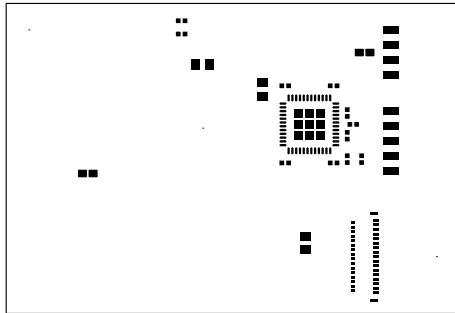
B

C

C

D

D



Top Paste

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

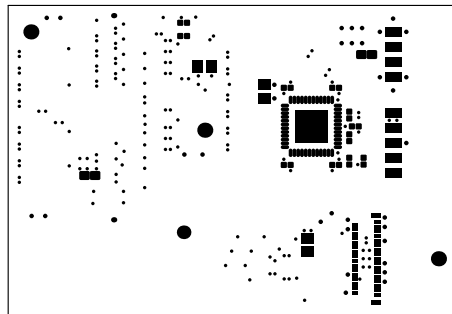
B

C

C

D

D



Top Solder

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

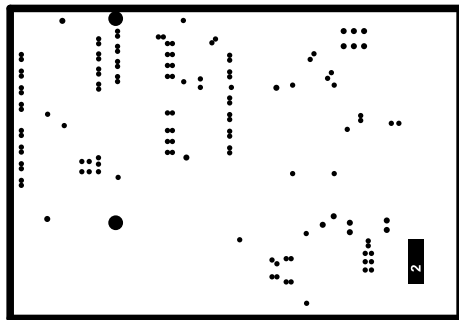
B

C

C

D

D



Internal Plane 1

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

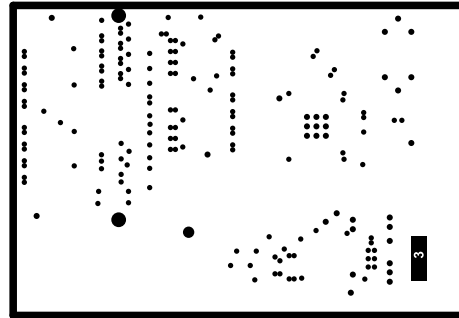
B

C

C

D

D



Internal Plane 2

PHYSIK INSTITUT

UNIVERSITAET ZUERICH  
WINTERTHURERSTR 190  
CH-8057 ZUERICH  
SWITZERLAND

SYSTEM:  
CMS LEA TESTING

BOARD NAME:  
TB\_L4

CREATED:  
26-JAN-2016, DANIEL FLORIN

BOARD NUMBER:  
PCB160126

MODIFIED:  
03-FEB-2016, DANIEL FLORIN

REVISION:  
1.0

1

2

3

4

1

2

3

4

A

A

B

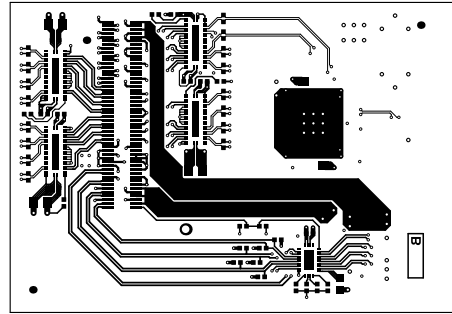
B

C

C

D

D



Bottom Layer

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

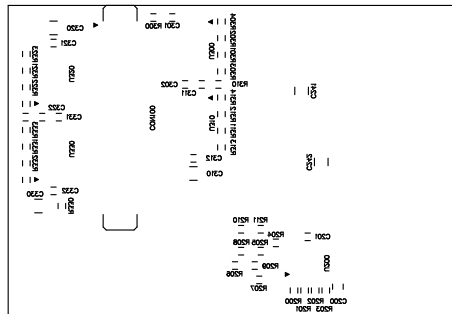
B

C

C

D

D



Bottom Overlay  
 (Bottom Silkscreen Legend, printed on PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4



1

2

3

4

A

A

B

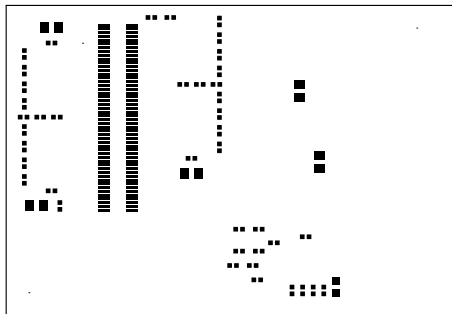
B

C

C

D

D



Bottom Paste

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

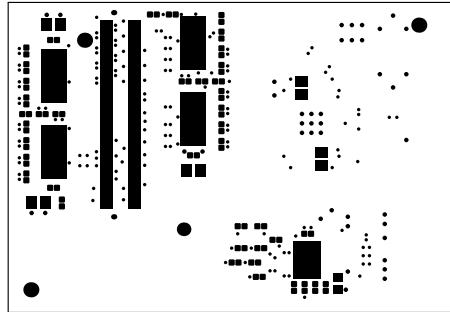
B

C

C

D

D



Bottom Solder

PHYSIK INSTITUT

UNIVERSITAET ZUERICH  
WINTERTHURERSTR 190  
CH-8057 ZUERICH  
SWITZERLAND

SYSTEM:  
CMS LEA TESTING

BOARD NAME:  
TB\_L4

BOARD NUMBER:  
PCB160126

REVISION:  
1.0

CREATED:  
26-JAN-2016, DANIEL FLORIN

MODIFIED:  
03-FEB-2016, DANIEL FLORIN

1

2

3

4

1

2

3

4

A

A

B

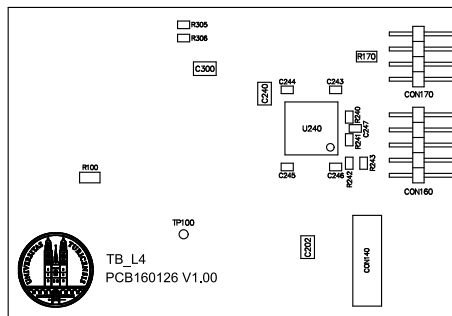
B

C

C

D

D



Top Assembly Drawing  
 (Top Assembly Drawing, NOT printed on PCB)

PHYSIK INSTITUT UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4

1

2

3

4

A

A

B

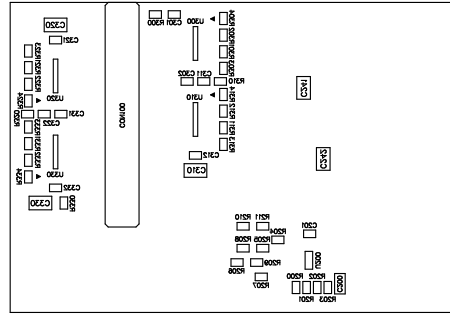
B

C

C

D

D



Bottom Assembly Drawing  
 (Bottom Assembly Drawing, NOT printed on PCB)

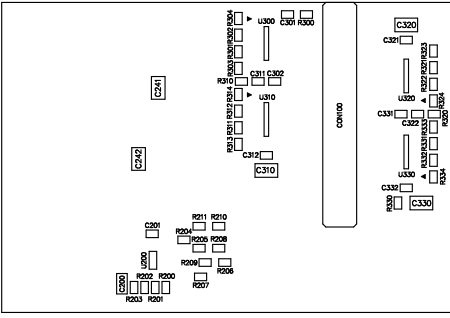
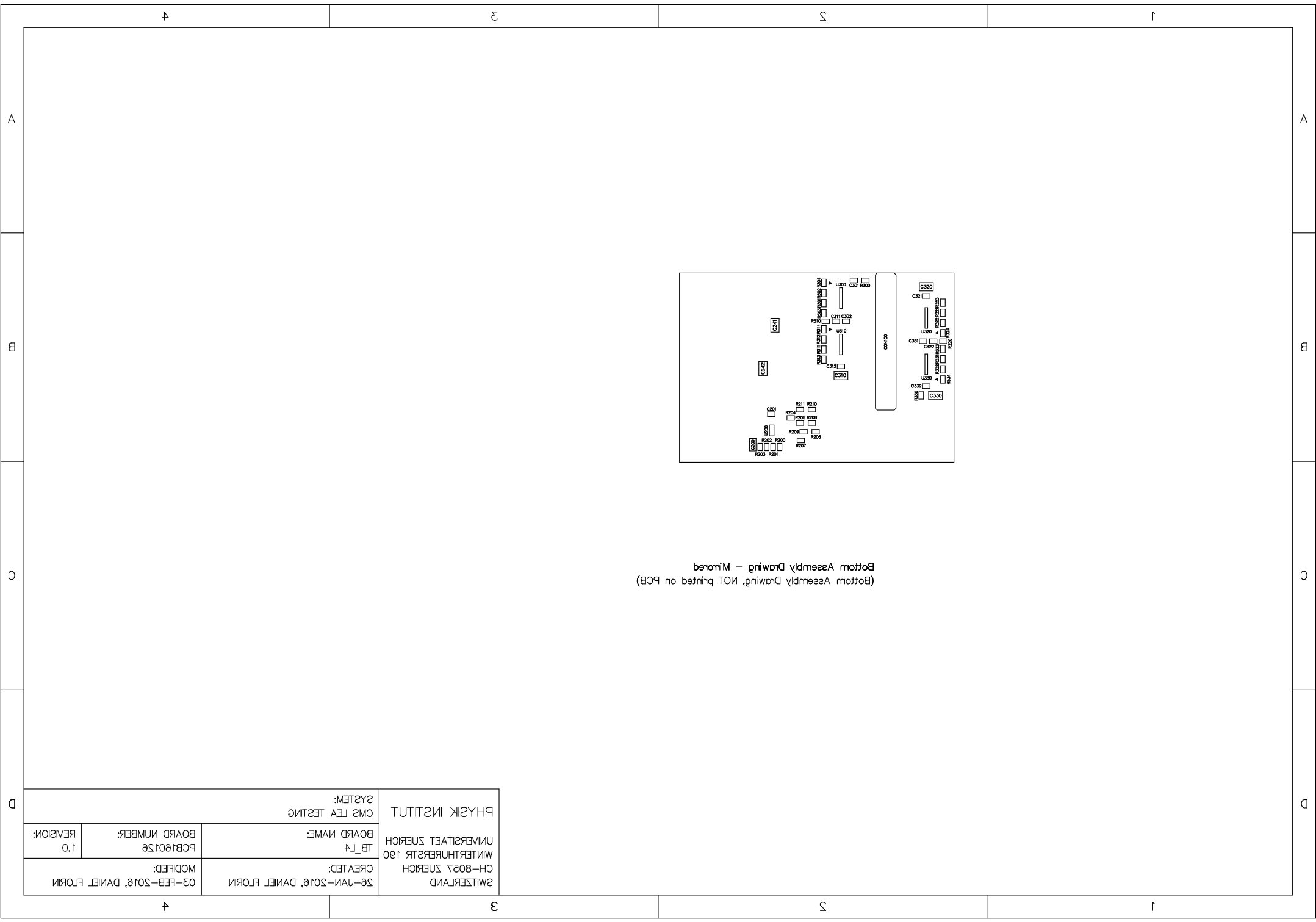
PHYSIK INSTITUT  UNIVERSITAET ZUERICH WINTERTHURERSTR 190 CH-8057 ZUERICH SWITZERLAND	SYSTEM: CMS LEA TESTING		
	BOARD NAME: TB_L4	BOARD NUMBER: PCB160126	REVISION: 1.0
	CREATED: 26-JAN-2016, DANIEL FLORIN	MODIFIED: 03-FEB-2016, DANIEL FLORIN	

1

2

3

4



Bottom Assembly Drawing - Mirrored  
 (Bottom Assembly Drawing, NOT printed on PCB)

SYSTEM: CMS LEA TESTING		PHYSIK INSTITUT	
BOARD NUMBER: PCB160126	BOARD NAME: TB_T4	UNIVERSITÄT ZÜRICH	WINTERTHURSTR 190
MODIFIED: 03-FEB-2016, DANIEL FLORIN	CREATED: 28-JAN-2016, DANIEL FLORIN	CH-8057 ZÜRICH	SWITZERLAND

1

2

3

4

A

A

B

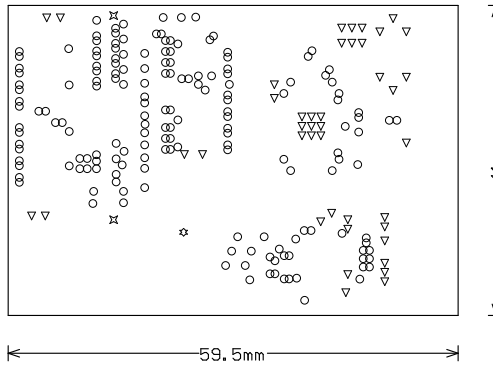
B

C

C

D

D



PCB Fabrication Drawing

Top Silkscreen Legend: Yes  
 Top Soldermask: Green  
 Top Surface Finish: NiAu (ENG)

Top Layer, Copper Weight 35um (Finished)
Prepreg, 100um
Internal Plane 1, Copper Weight 35um (Finished)
Core FR4, 700um
Internal Plane 2, Copper Weight 35um (Finished)
Prepreg, 100um
Bottom Layer, Copper Weight 35um (Finished)

Bottom Surface Finish: NiAu (ENG)  
 Bottom Soldermask: Green  
 Bottom Silkscreen Legend: Yes

Total max. 1100um

Layer Stack (4-Layers Multilayer)

Symbol	Hit Count	Tool Size	Plated	Hole Type
○	172	0.2mm (7.874mil)	PTH	Round
▽	42	0.3mm (11.811mil)	PTH	Round
*	1	1mm (39.37mil)	PTH	Round
×	2	1.45mm (57.087mil)	NPTH	Round
	217 Total			

Drill Drawing

PHYSIK INSTITUT

UNIVERSITAET ZUERICH  
WINTERTHURERSTR 190  
CH-8057 ZUERICH  
SWITZERLAND

SYSTEM:  
CMS LEA TESTING

BOARD NAME:  
TB\_L4

BOARD NUMBER:  
PCB160126

REVISION:  
1.0

CREATED:  
26-JAN-2016, DANIEL FLORIN

MODIFIED:  
03-FEB-2016, DANIEL FLORIN

1

2

3

4