

## SWT STANDARD CONNECTION DETAILS

These drawings show the normal types of connections used in the SWT-system. Using these enables high efficiency in mounting the constructions and as well as cost-efficiency from the factory.

Special connections can also be made as needed and after agreement within a project. Don't hesitate to contact us if you have a need for customs solutions or if you have questions about the use of the SWT system.



### Contact us

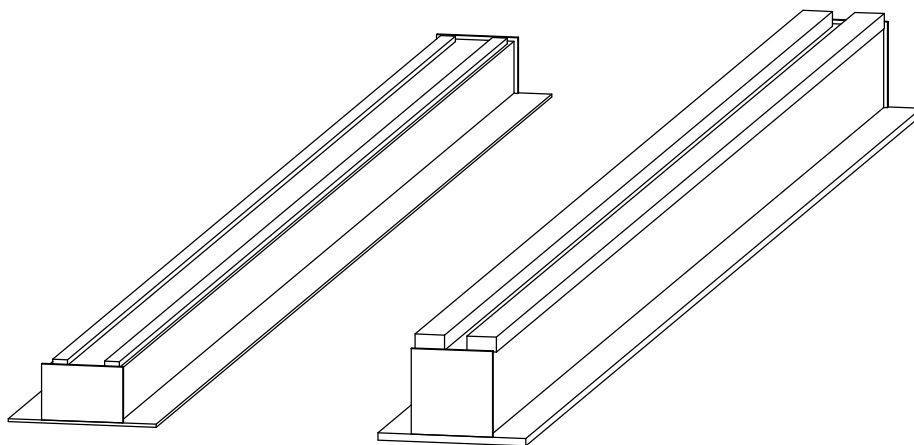
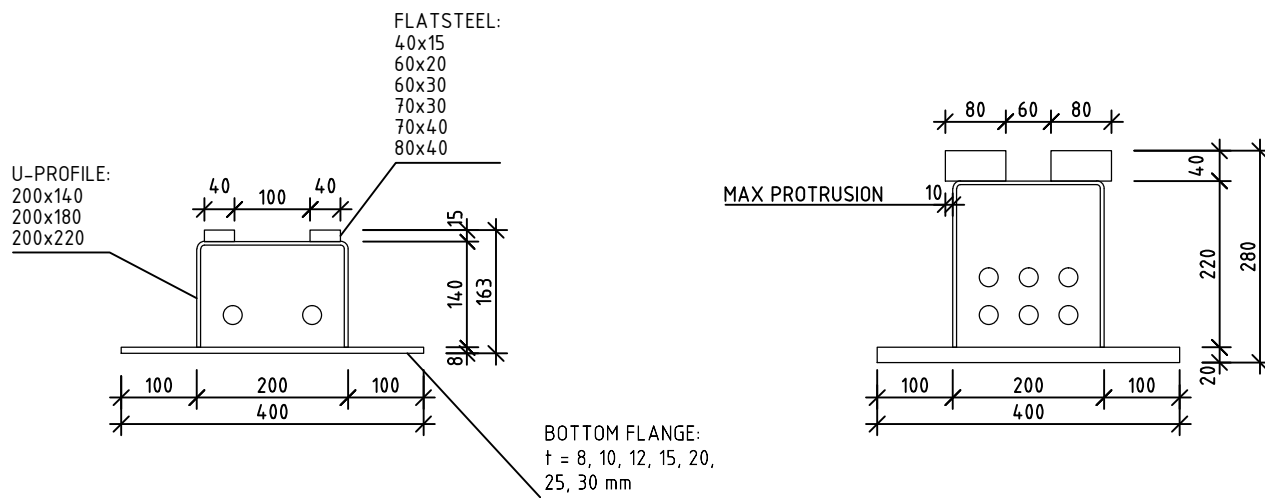
Sweden: +46 10-550 7700

Denmark: +45 43-20 7070

Germany: +49 (0)381 83 880 300

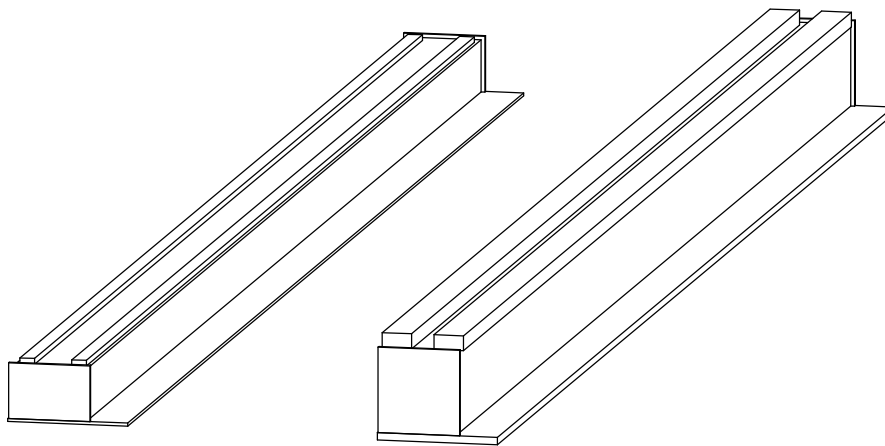
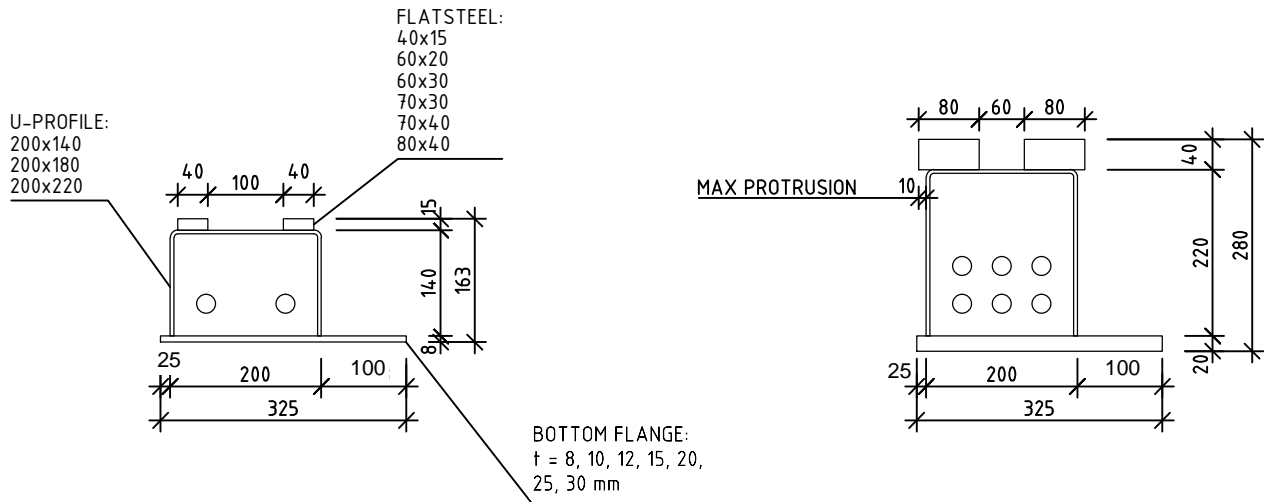
[www.swt.eu](http://www.swt.eu)

# SWT-BEAM SECTION 200 mm TWO SIDED



Index	Author	Date	Description
<div> <div> A3CERT 13000001 13000004-2 CERTIFIED </div> <div> CE </div> <div> SWT </div> </div>			
Contact		Project: Standard details SWT	
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		N° :	Status
Scale		Creation Date	Created By
1:10, 1:20		2015-02-10	SWT
Revision Date		Drawing Nr	Index
			SD00-1

# SWT-BEAM SECTIONS 200 mm ONE SIDED

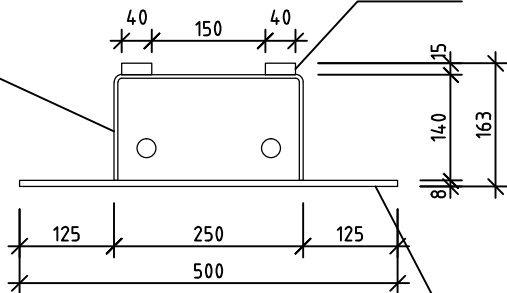


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Contact		Project: Standard details SWT	
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Creation Date	Status
Scale		Revision Date	Index
1:10, 1:20		2015-02-10	SWT
		Drawing Nr	SD00-2

# SWT-BEAM SECTIONS 250 mm TWO SIDED

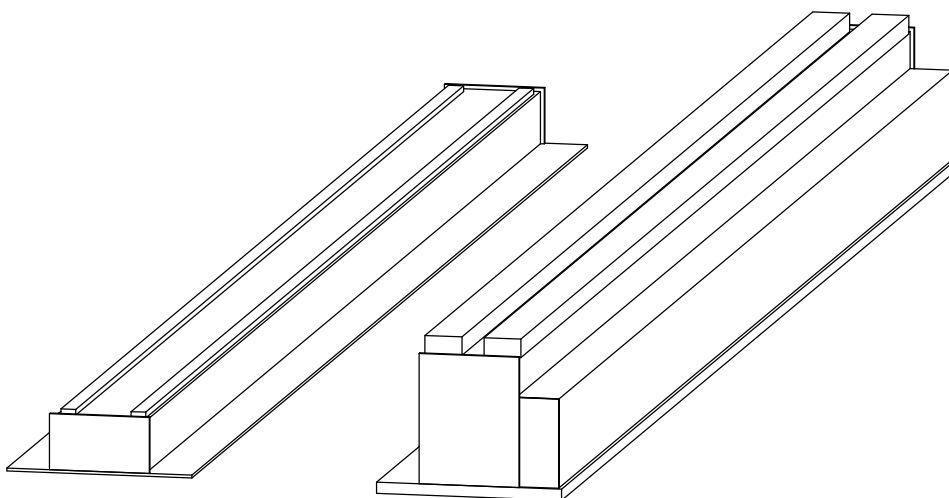
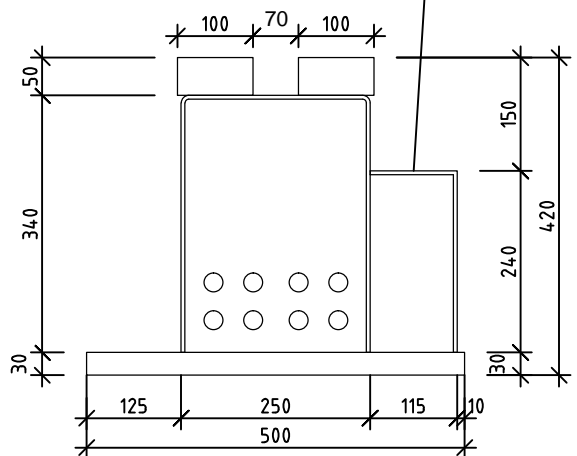
U-PROFILE:  
250x140  
250x180  
250x220  
250x260  
250x300  
250x340

FLATSTEEL:  
40x15  
60x20  
60x30  
70x30  
70x40  
80x40  
100x40  
100x50



BOTTOM FLANGE:  
t = 8, 10, 12, 15, 20,  
25, 30 mm

LZ: 115mm WIDTH  
LZx: 135mm WIDTH



Index	Author	Date	Description
JOINT DETAIL			
<div> <div>A3CERT</div> <div>13000001</div> <div>13000004-2</div> <div>CERTIFIED</div> <div>CE</div> <div>SWT</div> </div>	Contact		Status
	Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Project: Standard details SWT
	Scale	1:10, 1:20	Creation Date 2015-02-10
		Revision Date	Created By
			SWT
			Index
			SD00-3



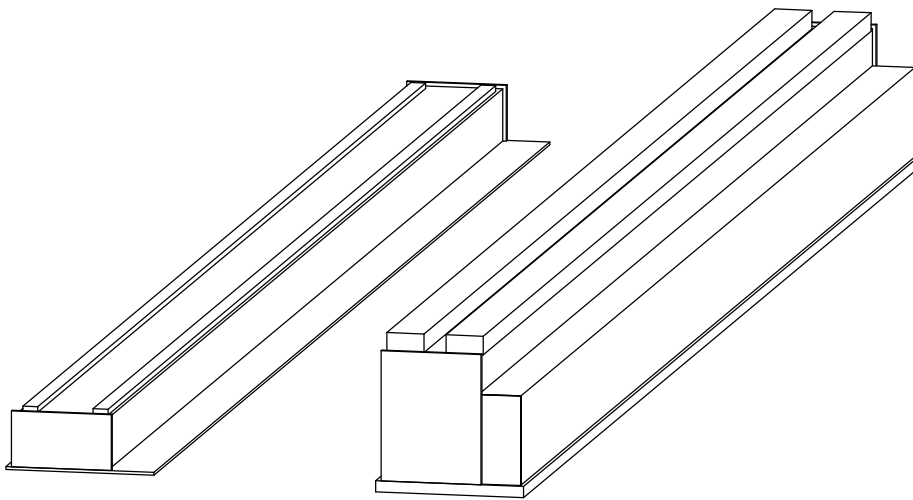
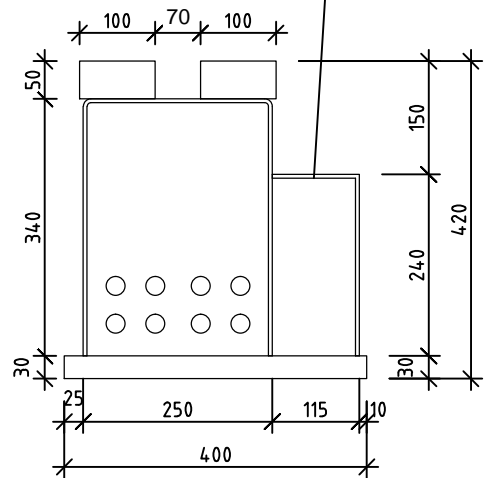
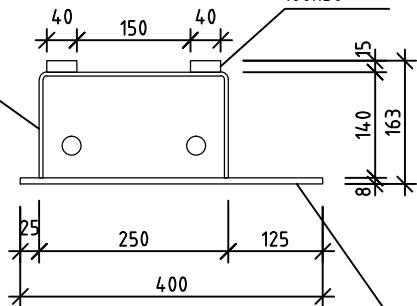
SWT-BEAM SECTIONS 250 mm ONE SIDED



U-PROFILE:  
250x140  
250x180  
250x220  
250x260  
250x300  
250x340

FLATSTEEL:  
40x15  
60x20  
60x30  
70x30  
70x40  
80x40  
100x40  
100x50

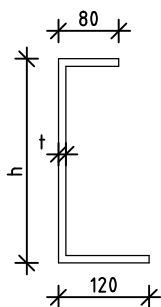
BOTTOM FLANGE:  
t = 8, 10, 12, 15, 20,  
25, 30 mm

LZ: 115mm WIDTH  
LZx: 135mm WIDTH

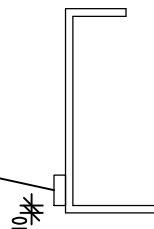


Index	Author	Date	Description
		<b>JOINT DETAIL</b>	
		Contact <i>Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu</i>	Project : Standard details SWT N° :
		Creation Date      2015-02-10	Created By <div style="text-align: right;">SWT</div>
		Scale 1:10, 1:20	Revision Date  Drawing Nr <div style="text-align: right;">SD00-4</div>
			Status  Index

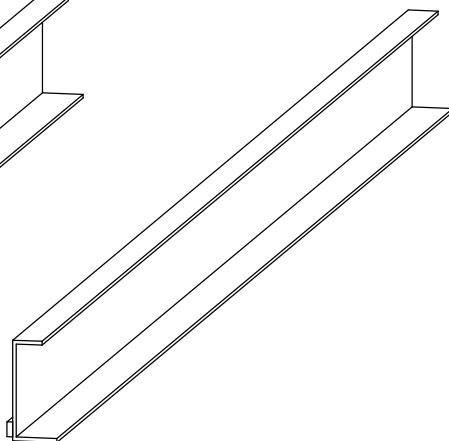
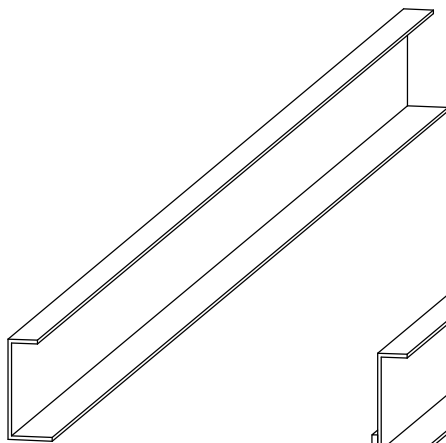
# SWT-C SECTIONS



FLATSTEEL  
40x15  
60x20

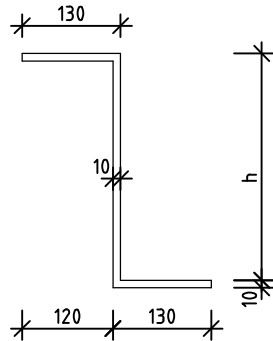


DIMENSION MARK	h	t
C 220-8/80/120	220	8
C 220-10/80/120	220	10
C-300-8/80/120	300	8
C-300-10/80/120	300	10

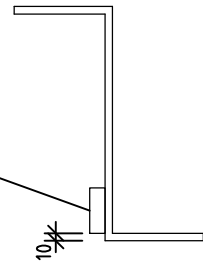


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<div> <div> A3CERT 13000001 13000004-2 CERTIFIED </div> <div> CE </div> <div> SWT </div> </div>			
Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Project: Standard details SWT N° : Creation Date 2015-02-13 Created By Revision Date Drawing Nr	
Scale 1:10,1:20		Status Index SWT SD01-1	

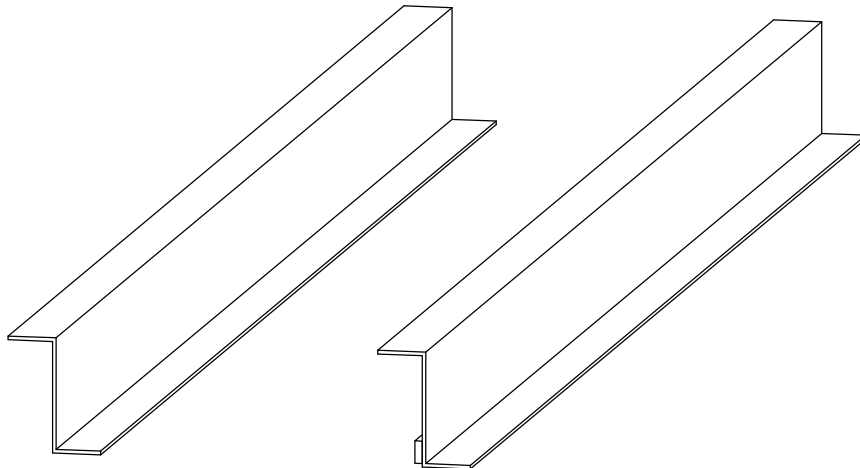
# SWT-Z SECTIONS






FLATSTEEL 60x20

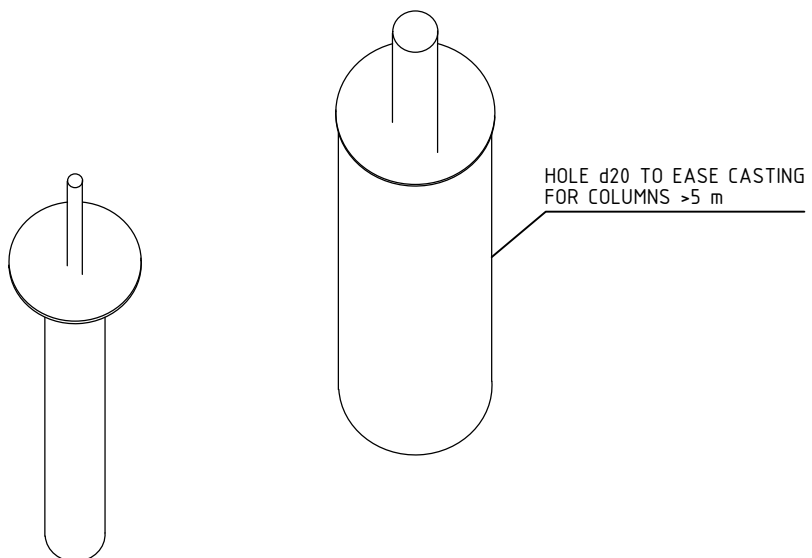
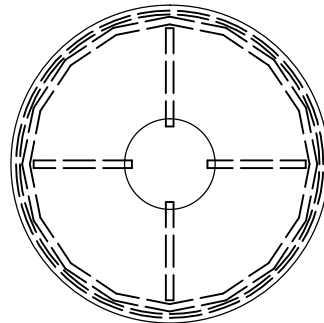
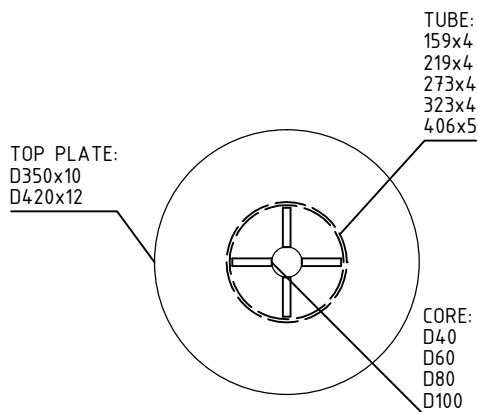


DIMENSION MARK	h
Z-250	250
Z-300	300
Z-360	360



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  	<b>JOINT DETAIL</b>		
	Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Project: Standard details SWT N° : Status
	Scale 1:10, 1:20	Creation Date 2015-02-13	Created By SWT Index
		Revision Date	Drawing Nr SD02-1

# SWT-COLUMN ROUND SECTIONS



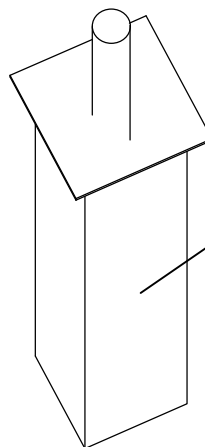
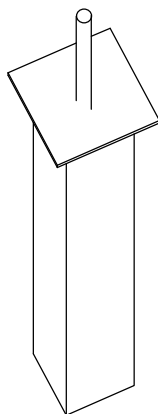
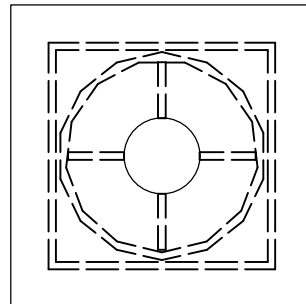
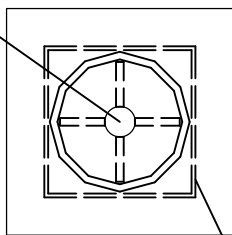
Index	Author	Date	Description
<div> <div> <b>A3CERT</b>  <small>13000001</small>  <b>CERTIFIED</b> </div> <div> <b>CE</b> </div> <div> <b>SWT</b> </div> </div>			
Contact		Project : Standard details SWT	
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Status	
Scale		N° :	
1:10, 1:20		Creation Date	Created By
		2015-02-13	SWT
Revision Date		Index	
		Drawing Nr	SD03-1

# SWT-COLUMN SQUARE SECTIONS

CORE:  
Ø40  
Ø60  
Ø80  
Ø100

TOP PLATE:  
300x300x15  
400x400x10

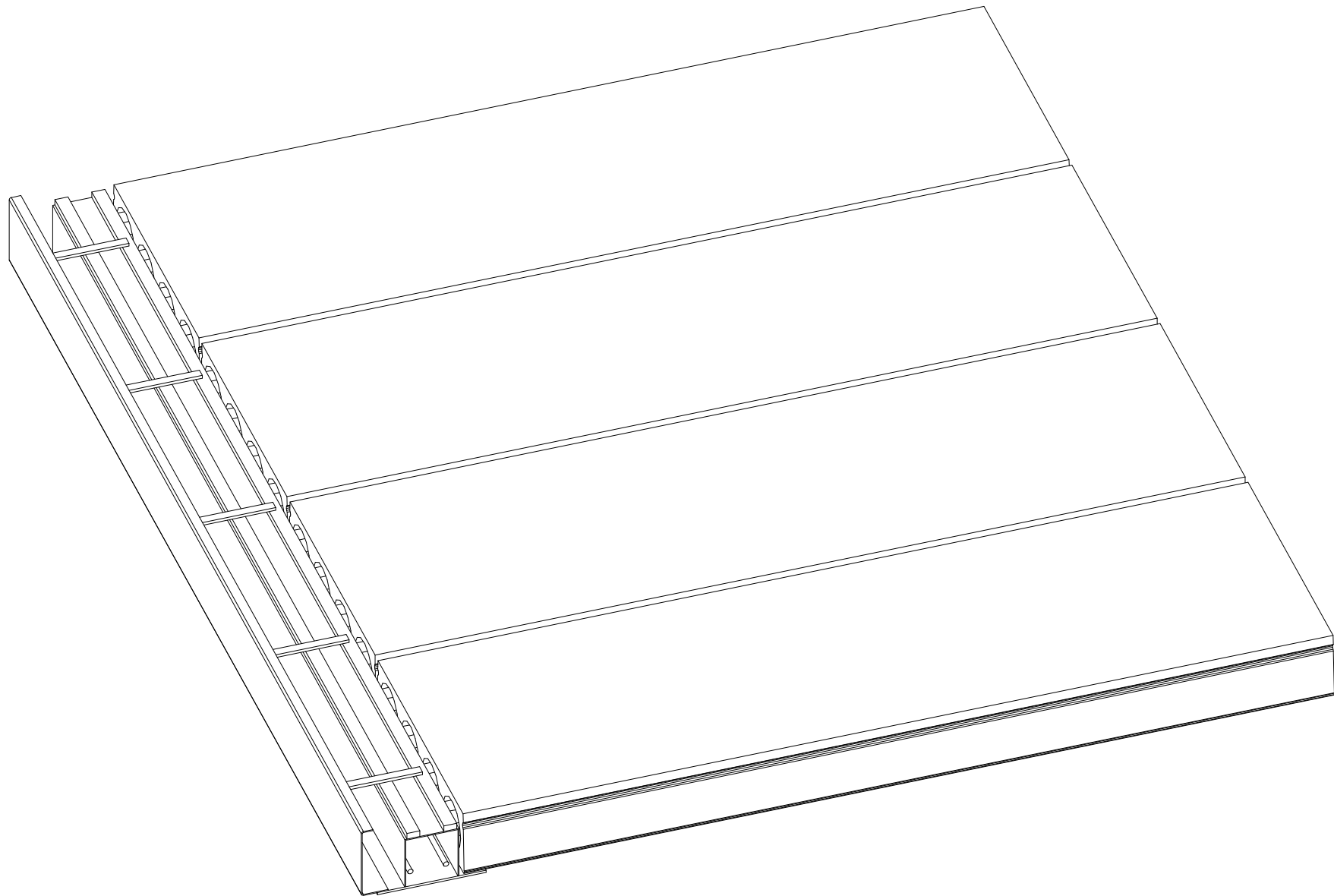
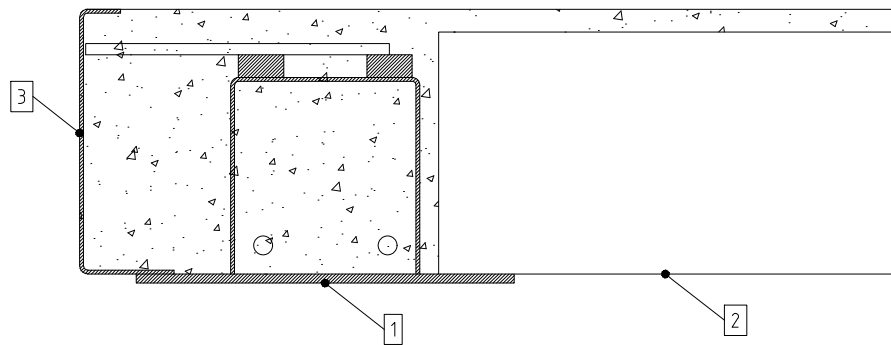
TUBE:  
150x150x4  
200x200x5  
250x250x6  
300x300x8  
(300x300x10)



HOLE Ø20mm FOR COLUMNS >5 m

Index	Author	Date	Description
JOINT DETAIL			
<div> <div> A3CERT 13000001 13000004-2 CERTIFIED </div> <div> </div> <div> </div> </div>		Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Project: Standard details SWT N° : Creation Date 2015-02-13 Created By Revision Date Drawing Nr
Scale 1:10, 1:20		Status Index SWT SD04-1	

SD05-1:  
BALJA TYPE 1



PART LIST

- 1: SWT BEAM
- 2: CONCRETE FLOOR
- 3: STEEL FORM FOR CONCRETE CASTING ("BALJA" OR BUCKET)

INSTRUCTIONS

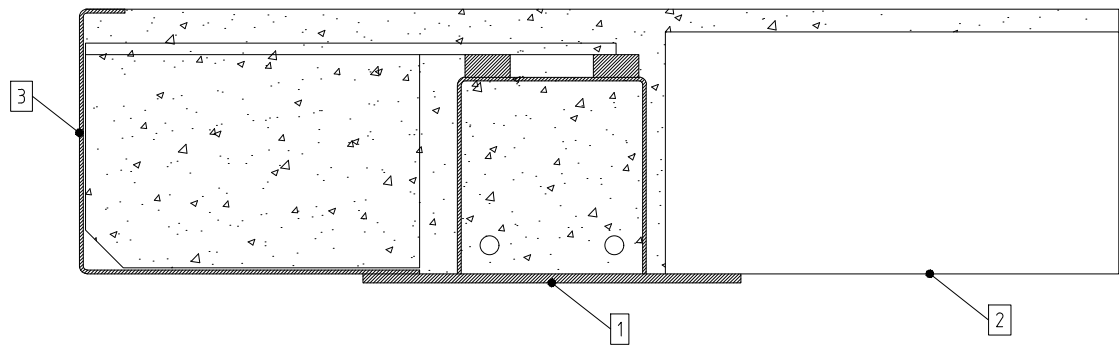
THE BALJA IS FILLED WITH CONCRETE IN ONE OPERATION, AT THE SAME TIME AS THE CASTING OF THE FLOOR JOINTS AND THE BEAM. THE EDGE OF THE BALJA IS MADE TO END AT THE FINAL LEVEL OF THE FLOOR, WHICH ELIMINATES THE NEED TO PUT FORM-WORKS ON-SITE.

THE BALJA IS DESIGNED TO TAKE THE LOADS WITHOUT ANY ADDITIONAL REBARS.

FOR BALJAS WITH WIDER SPANS, PLEASE SEE THE "TYPE 2" VARIANT.

2024-12-19	A	NW	Update to latest standard		
Date	Index	Author	Description		
<div><div><div>A3CERT</div><div>13099901</div><div>13099904-2</div><div>CERTIFIED</div></div><div><div>CE</div></div><div><div>SWT</div></div></div>			STANDARD DETAIL		
			Project :		
			N° :		
			Contact	Project Leader	Status
			Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By NIKWID
		Checked By MIKWID	Index		
Scale 1:10, 1:25	Creation Date 2017-03-07	Drawing Nr SD05-1	A		

SD05-2:  
BALJA TYPE 2



PART LIST

- 1: SWT BEAM
- 2: CONCRETE FLOOR
- 3: STEEL FORM FOR CONCRETE CASTING ("BALJA" OR BUCKET)

INSTRUCTIONS

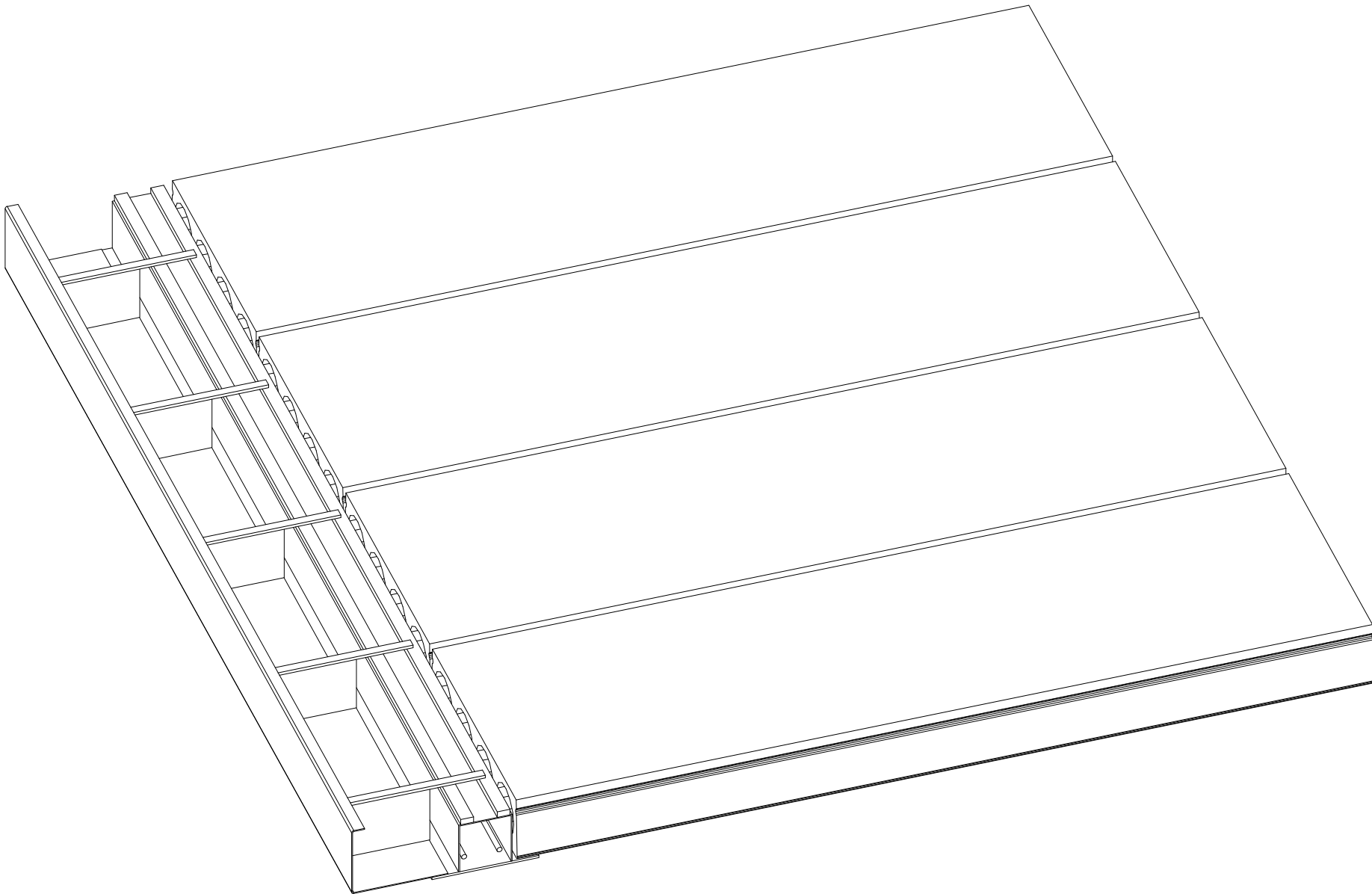
THE BALJA CAN BE FILLED WITH CONCRETE IN ONE OPERATION, AT THE SAME TIME AS THE CASTING OF THE FLOOR JOINTS AND THE BEAM. AS LONG AS THE FLOOR SLABS ARE MOUNTED ON THE OPPOSITE SIDE, IT SHOULD NORMALLY NOT BE NECESSARY TO PROP THE BALJA DURING ERECTION.

NOTE: SPECIAL CONSIDERATIONS MAY APPLY FOR VERY WIDE CONSTRUCTIONS, IN WHICH CASE SWT WILL PROVIDE ADDITIONAL INFORMATION.

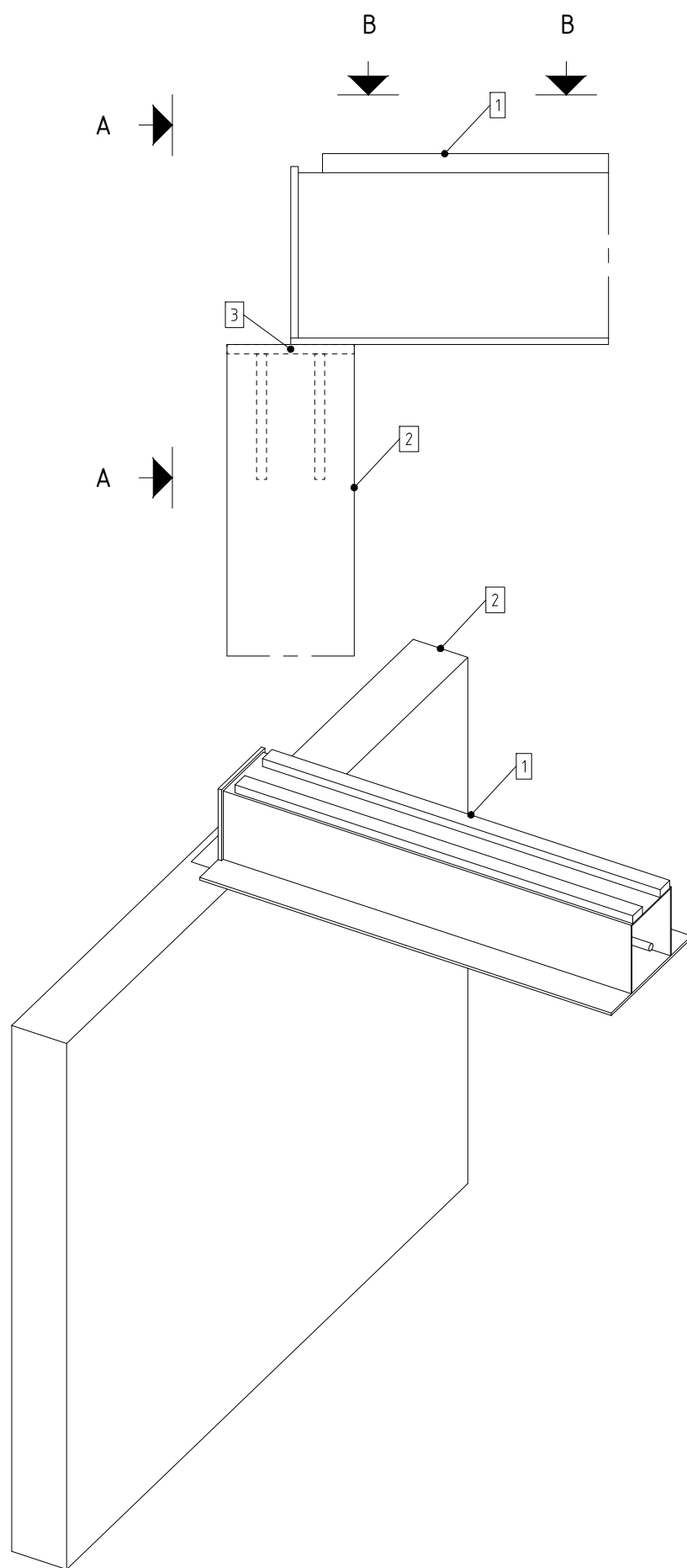
THE EDGE OF THE BALJA IS MADE TO END AT THE FINAL LEVEL OF THE FLOOR, WHICH ELIMINATES THE NEED TO PUT FORM-WORKS ON-SITE.

THE BALJA IS NORMALLY DESIGNED TO TAKE THE LOADS WITHOUT ANY ADDITIONAL REBARS.

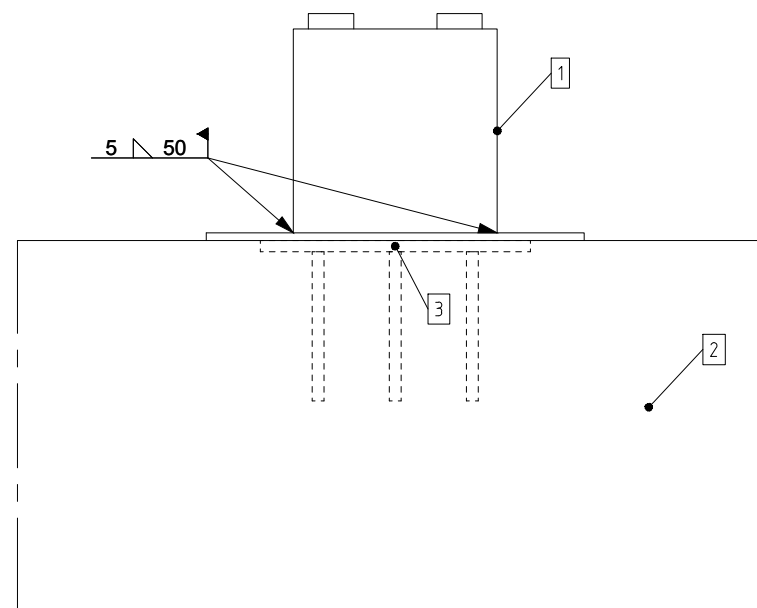
FOR BALJAS WITH SHORTER SPANS, PLEASE SEE THE "TYPE 1" VARIANT.



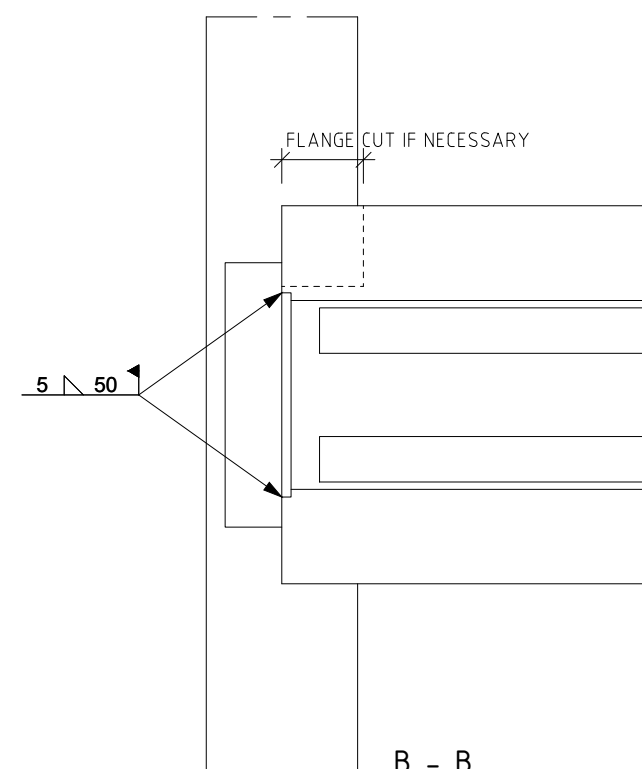
2024-12-19	A	NW	Update to latest standard		
Date	Index	Author	Description		
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	Project :				
	N° :				
	Contact	Project Leader		Status	
	Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Created By		NIKWID	
		Checked By		MIKWID	
Scale	1:10, 1:25	Creation Date	2017-03-07	Drawing Nr	
				SD05-2	
				A	



SD10-1: SWT BEAM ON WALL, FLANGE DIRECTLY ON WALL



A - A



B - B

## PART LIST

- 1: SWT BEAM
  - 2: CONCRETE WALL
  - 3: CAST-IN PLATE IN WALL.
- IMPORTANT TO ANCHOR THIS PLATE IN THE WALL

## INSTRUCTIONS

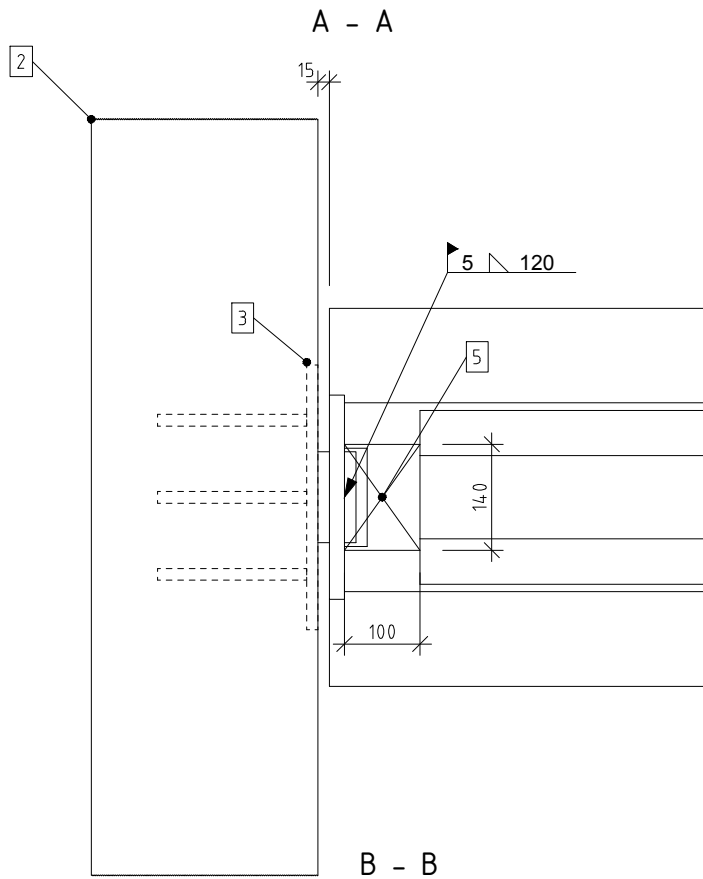
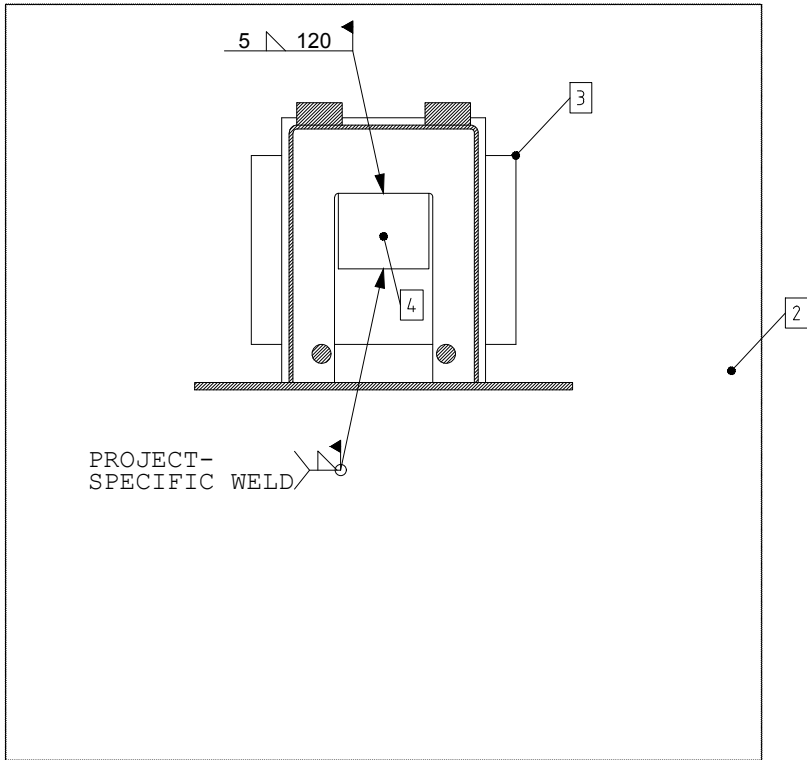
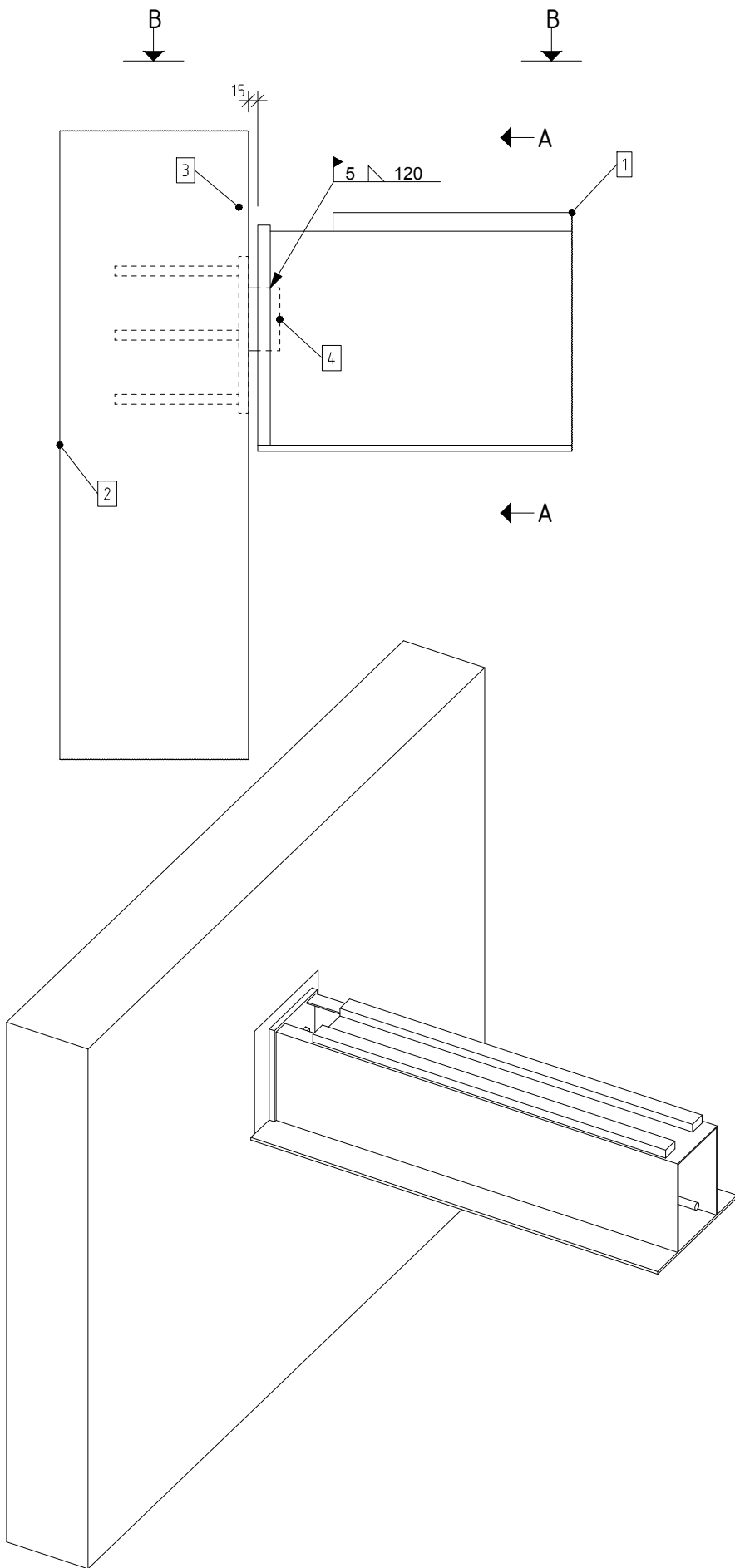
THE SWT BEAM IS PLACED DIRECTLY ON THE FLANGE. THE RANGE OF FLANGE THICKNESS CAN BE SPECIFIED FOR A PROJECT, AN TOP HEIGHT OF WALLS CAN BE SET TO A NOMINAL VALUE, ALLOWING FLANGE TO VARY WITHIN THE ALLOWED TOLERANCES.

THE WALL MUST BE ABLE TO TAKE LOAD CLOSE TO CORNER OF THE WALL, DUE TO BEAM DEFLECTION.  
IF NOT, STANDARD DETAIL SD10-5 OR SD10-6 IS RECOMMENDED.

2016-02-05		A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date	Index	Author	Description			
<div><div><div>A3CERT</div><div>13099001</div><div>1309354-2</div><div>CERTIFIED</div></div><div>CE</div><div>SWT</div></div>		STANDARD DETAIL				
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		N° :				
		Contact		Project Leader		Status
		Sweden: +46 10-550 7700		Created By		BH
		Denmark: +45 43-20 7070		NIKWID		
Germany: +49 38207-77 5770		Checked By				
www.swt.eu		MIKWID		Index		
Scale	1:10, 1:20	Creation Date	2016-02-05	Drawing Nr	SD10-1	
				A		



SD10-2: SWT BEAM ON WALL OR COLUMN,  
CLEAT THROUGH THE END PLATE



**PART LIST**

- 1: SWT BEAM
- 2: CONCRETE WALL
- 3: CAST-IN PLATE IN WALL.  
IMPORTANT TO ANCHOR THIS PLATE IN THE WALL
- 4: STEEL CLEAT, WELDED TO STEEL PLATE (3)
- 5: OPENING IN TOP OF BEAM, ALLOWS TO WELD END PLATE TO CLEAT (4) FROM THE INSIDE

**INSTRUCTIONS**

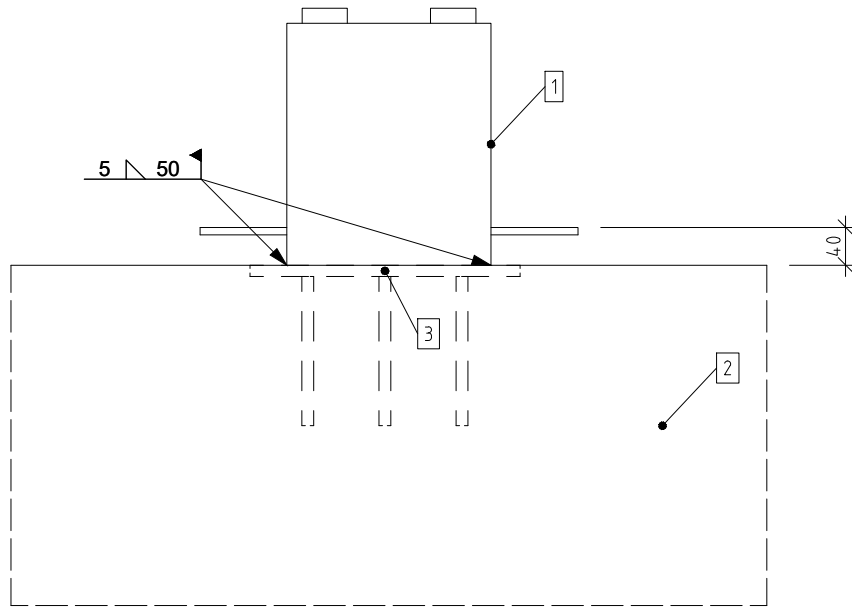
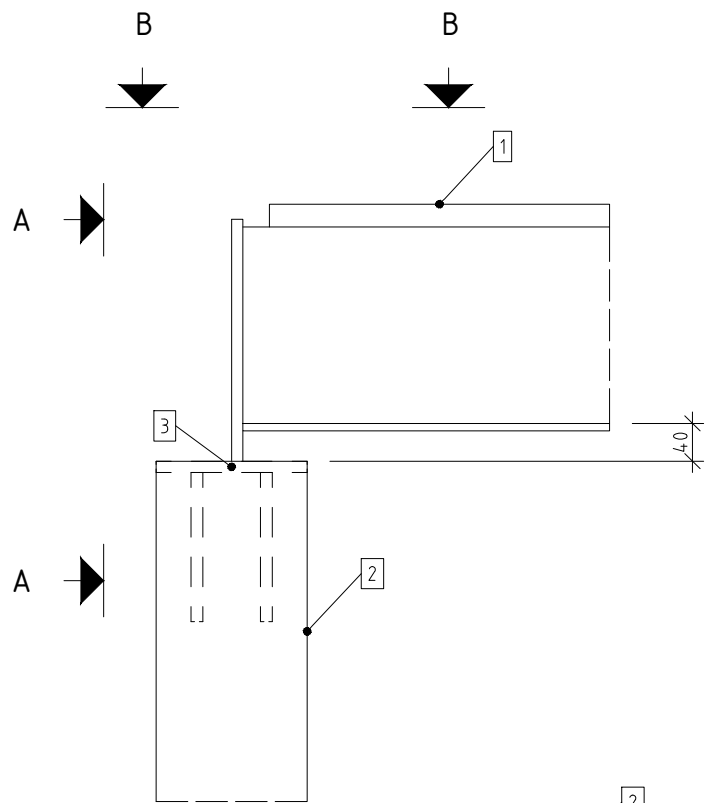
A STEEL CLEAT (4) IS WELDED TO A CAST IN PLATE (3) IN THE WALL. IF SWT DELIVER THE CLEAT, SWT DETERMINE THE WELDING. OTHERWISE, THE CLEAT AND WELDING IS DETERMINED BY THE HEAD OF DESIGN OR THE DISTRIBUTOR OF THE PART.

THE SWT BEAM IS PLACED ON THE CLEAT, THROUGH AN OPENING IN THE END PLATE.

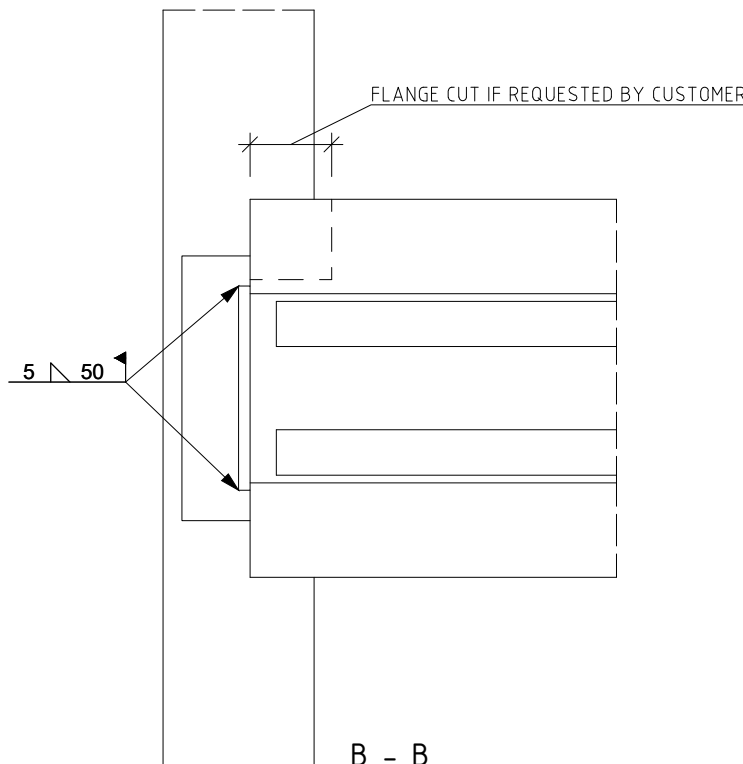
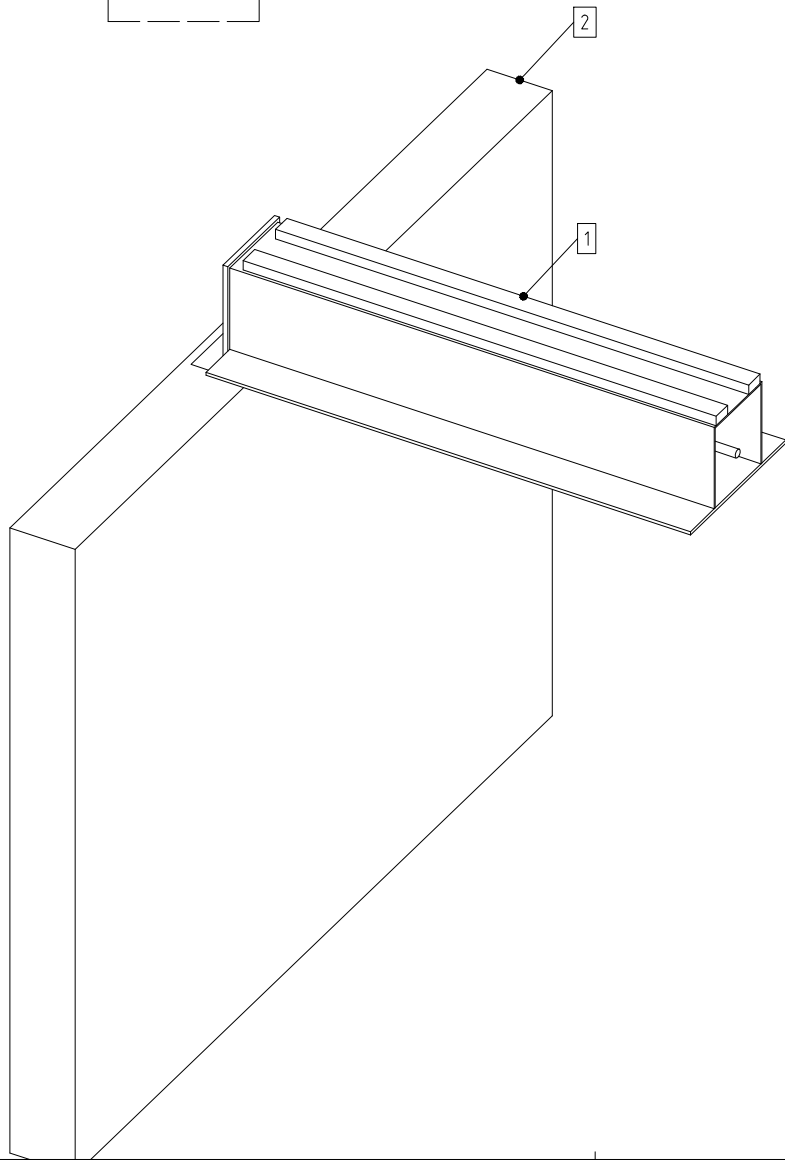
THE SWT BEAM HAS AN OPENING IN THE TOP, WHICH ALLOWS WELDING BETWEEN CLEAT AND END PLATE FROM THE INSIDE. THIS ENSURES THAT THE SUPPORT IS FIRE-PROTECTED, ONCE THE BEAM IS CAST WITH CONCRETE.

2016-02-05	A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date	Index	Author	Description		
<div><div><div>A3CERT</div><div>ISO 9001</div><div>15003:2014-5</div><div>CERTIFIED</div></div><div>CE</div><div>SWT</div></div>			STANDARD DETAIL		
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			N° :		
			Contact	Project Leader	Status
			Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Created By	NIKWID
	Checked By	MIKWID			
Scale	Creation Date	2016-02-04	Drawing Nr	SD10-2	
				A	

SD10-5: SWT-BEAM ON WALL,  
EXTENDED ENDPLATE



A - A



B - B




PART LIST

- 1: SWT BEAM
- 2: CONCRETE WALL
- 3: CAST-IN PLATE IN WALL.  
IT IS IMPORTANT TO ANCHOR THIS PLATE IN THE WALL

INSTRUCTIONS

THE SWT BEAM IS PLACED ON AN EXTENDED END PLATE, WITH A FIXED DISTANCE FROM THE BOTTOM OF THE CONCRETE FLOOR. TOP HEIGHT OF WALL SUPPORTS CAN THEREFORE BE DETERMINED VERY EARLY IN THE PROJECT.

THE ENDPLATE CENTERS THE LOAD IN THE WALL, WHICH REDUCES THE RISK OF CRACKING THE EDGE OF THE WALL.

2022-10-26	B	NW	EXTENSION SET TO 40mm INSTEAD OF 50mm			
2016-02-05	A	NW	UPDATED ACCORDING TO LATEST STANDARD			
Date	Index	Author	Description			
<div></div>			STANDARD DETAIL			
			Project :			
			N° :			
			Contact	Project Leader	Status	
			Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Created By	NIKLAS	
Scale	1:10, 1:20	Creation Date	2016-02-05	Checked By	GABSAB	Index
				Drawing Nr	SD10-5	BH
B						

SD10-6: SWT BEAM ON CONCRETE CONSOLE,  
EXTENDED ENDPLATE

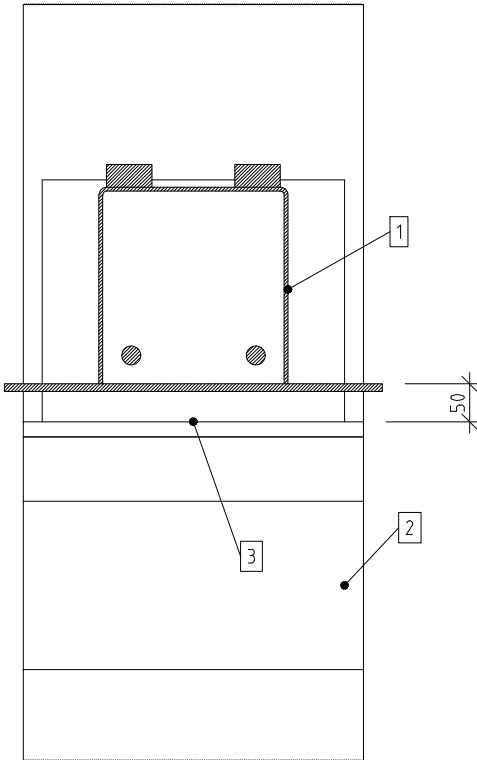
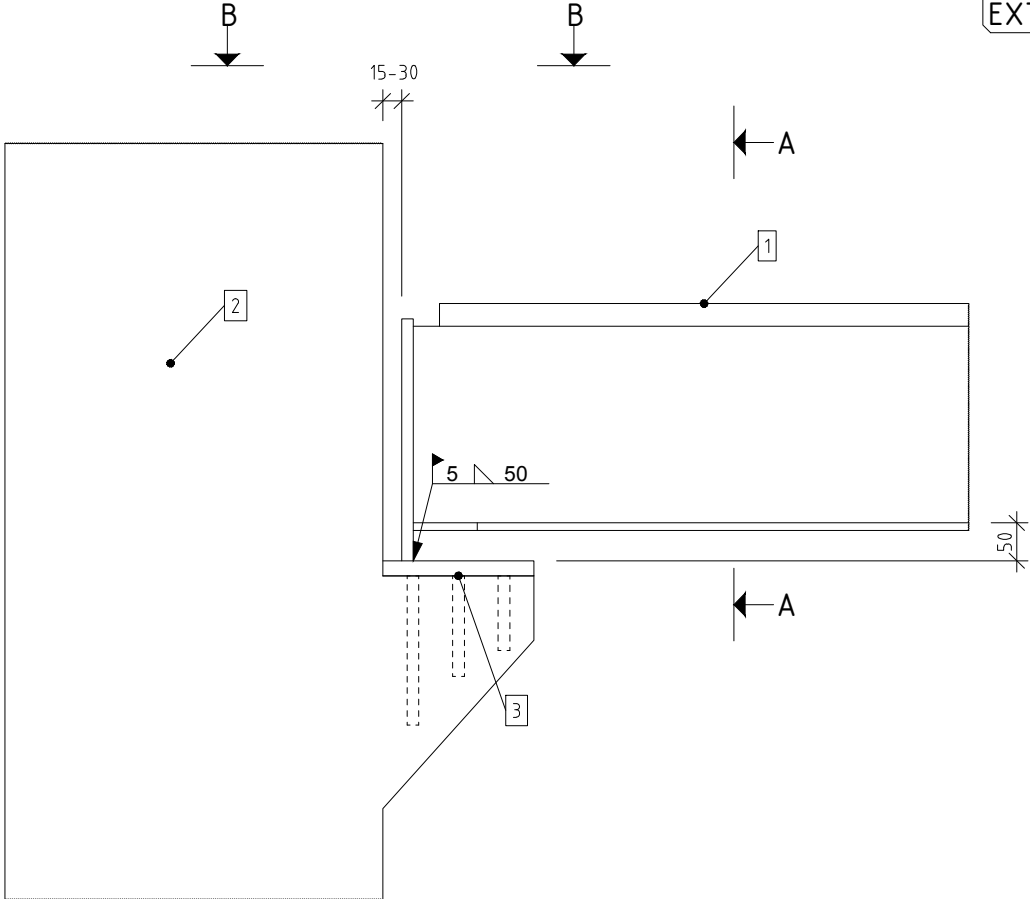
- PART LIST
- 1: SWT BEAM
  - 2: CONCRETE COLUMN OR WALL
  - 3: CAST-IN PLATE IN CONSOLE.  
IMPORTANT TO ANCHOR THIS PLATE IN THE WALL

INSTRUCTIONS

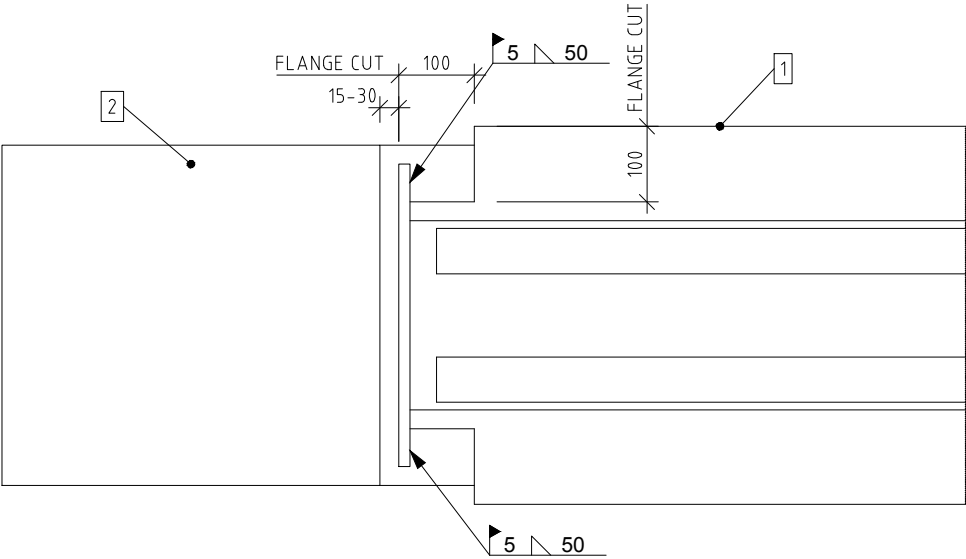
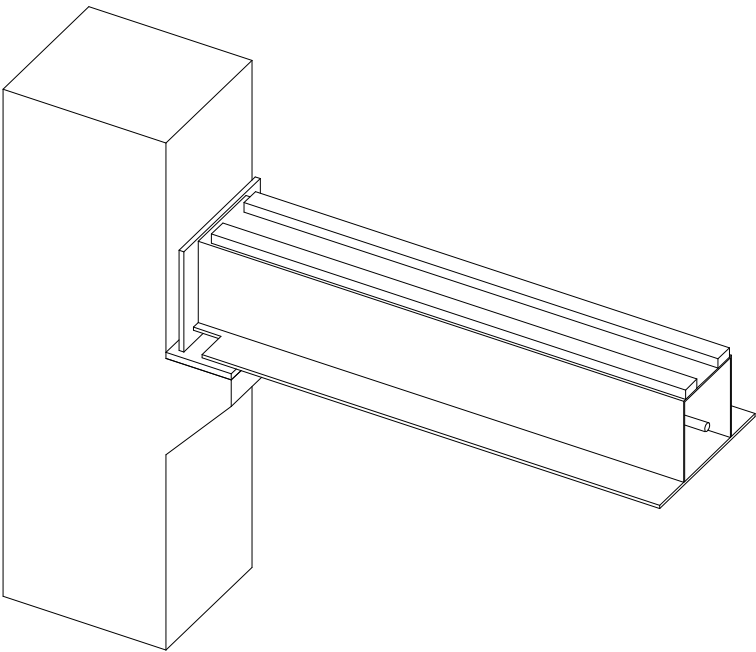
THE SWT BEAM IS PLACED ON AN EXTENDED END PLATE, WITH A FIXED DISTANCE FROM THE BOTTOM OF THE CONCRETE FLOOR. TOP LEVEL OF SUPPORTS CAN THEREFORE BE DETERMINED VERY EARLY IN THE PROJECT.

THE ENDPLATE CENTERS THE LOAD IN THE SUPPORT, WHICH REDUCES THE RISK OF CRACKING AT THE EDGE.

WHEN THE END PLATE IS NOT REACHABLE FROM THE OUTSIDE, DUE TO A CONTINUOUS WALL OR COLUMN, THE END PLATE IS WIDENED AND THE BEAM FLANGE CUT, WHICH ALLOWS WELDING FROM THE BEAM SIDE INSTEAD, SEE SECTION B-B.

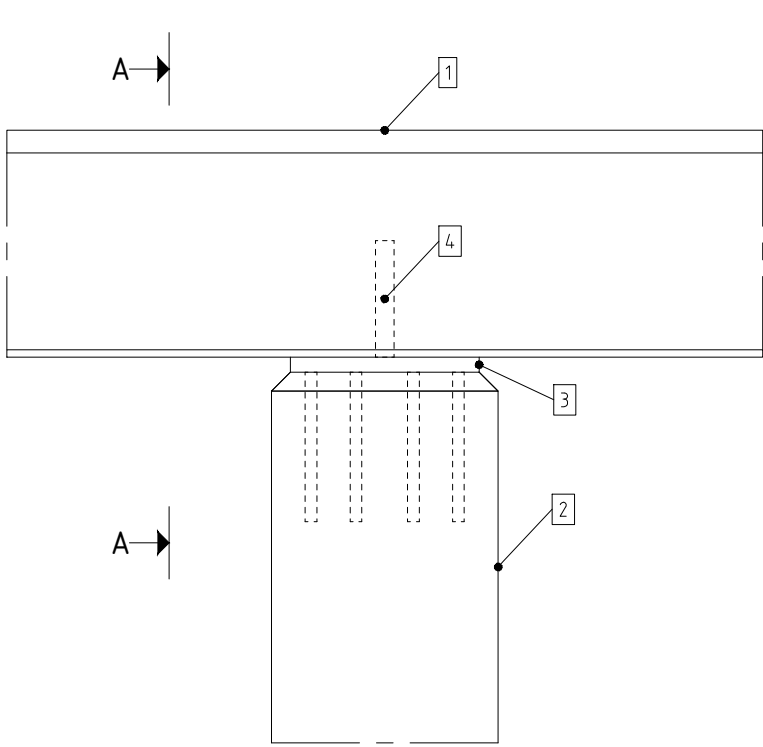


A - A

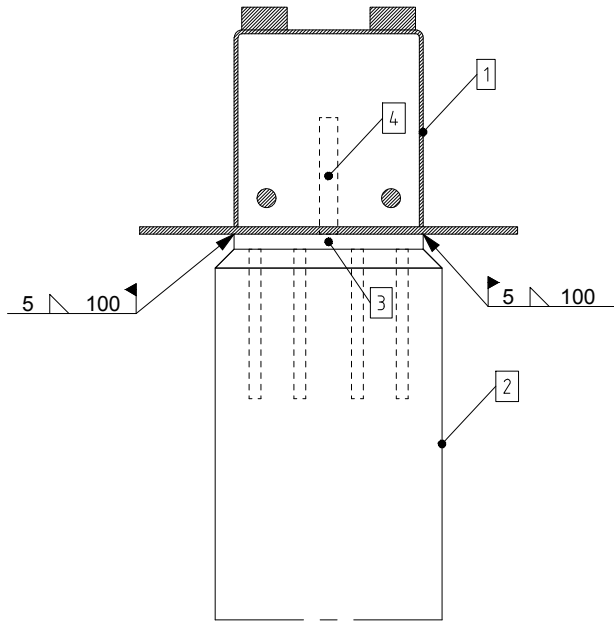


B - B

2016-02-05		A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date		Index	Author	Description		
<div><div><div><div><div><div><span></span></div><div><b>A3CERT</b></div><div><small>ISO 9001</small></div><div><small>ISO 14001</small></div><div><small>CE</small></div><div><small>CERTIFIED</small></div></div></div><div><div><div><b>SWT</b></div></div></div></div></div><div>Project : N° : Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu</div><div>Project Leader Created By Checked By Status BH Index A</div></div>		STANDARD DETAIL				
		Project :				
		N° :				
		Contact		Project Leader		Status
		Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By		NIKWID
		Checked By		MIKWID		
Creation Date		2016-02-05		Drawing Nr		
Scale		1:10, 1:20		SD10-6		



SD11-1: SWT BEAM ON  
CONCRETE COLUMN



A - A

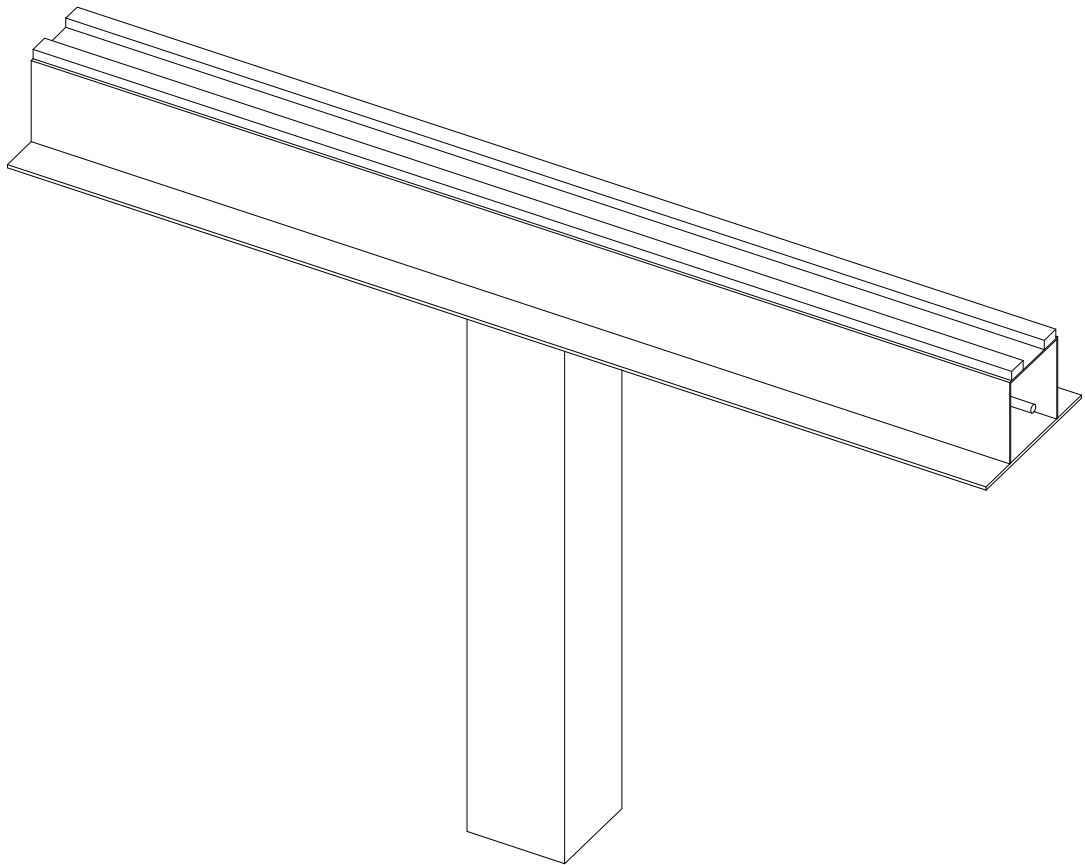
PART LIST

- 1: SWT BEAM
- 2: CONCRETE COLUMN
- 3: CAST-IN PLATE IN COLUMN.  
IMPORTANT TO ANCHOR THIS PLATE IN COLUMN
- 4: CENTRAL STUD (OPTIONAL)

INSTRUCTIONS

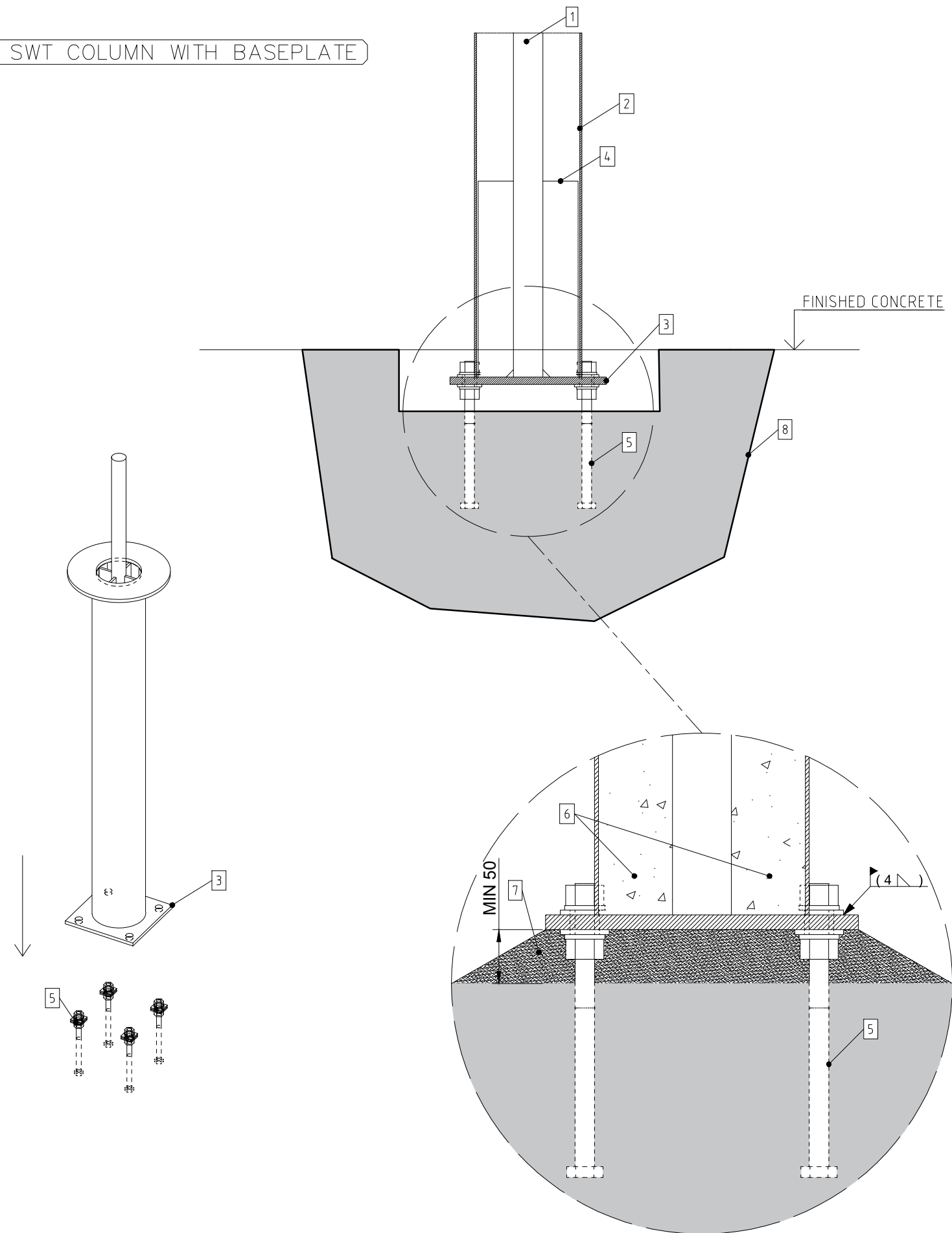
THE SWT BEAM IS PLACED ON A STEEL PLATE IN THE TOP OF THE COLUMN, AND WELDED ON EACH SIDE.

A CENTRAL STUD (4) CAN BE PLACED THROUGH THE BEAM, IF NEEDED.



2016-02-05		A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date		Index	Author	Description		
<div><div><div><div><div><div><span></span></div><div><b>A3CERT</b></div><div><small>ISO 9001</small></div><div><small>ISO 14001</small></div><div><small>CE</small></div><div><b>CERTIFIED</b></div></div></div><div><div><div><b>SWT</b></div></div></div></div></div><div>Project : N° : Contact <i>Sweden: +46 10-550 7700</i> <i>Denmark: +45 43-20 7070</i> <i>Germany: +49 38207-77 5770</i> <i>www.swt.eu</i></div><div><div>Project Leader</div><div>Created By <b>NIKWID</b></div><div>Checked By <b>MIKWID</b></div><div>Scale 1:10, 1:20</div></div><div><div>Status <b>BH</b></div><div>Index <b>A</b></div></div></div>		STANDARD DETAIL				
		Project :				
		N° :				
		Contact		Project Leader		Status
		<i>Sweden: +46 10-550 7700</i> <i>Denmark: +45 43-20 7070</i> <i>Germany: +49 38207-77 5770</i> <i>www.swt.eu</i>		Created By		<b>NIKWID</b>
Creation Date		Drawing Nr		SD11-1		
2016-02-04						

SD13-3: SWT COLUMN WITH BASEPLATE






- PART LIST
- 1: STEEL CORE OF COLUMN
  - 2: STEEL TUBE OF COLUMN
  - 3: BASE PLATE ON COLUMN (OVERSIZED HOLES)
  - 4: STEEL PLATES CONNECTING TUBE AND STEEL CORE. (STIFFENS THE BASE PLATE)
  - 5: 4 ANCHORS WITH ADJUSTABLE NUTS
  - 6: CONCRETE FILLED IN COLUMN AT BUILDING SITE.  
FOR MINIMUM QUALITY, SEE SWT-INSTRUCTIONS AND DECLARATION OF PERFORMANCE.
  - 7: GROUT/BACKFILLING UNDER BASE PLATE. MIN 50mm, EXPANDING CONCRETE. MIN STRENGTH ASSUMED SAME AS FOR COLUMN (SEE DECLARATION OF PERFORMANCE)
  - 8: FOUNDATION (NOT DESIGNED BY SWT)

INSTRUCTIONS

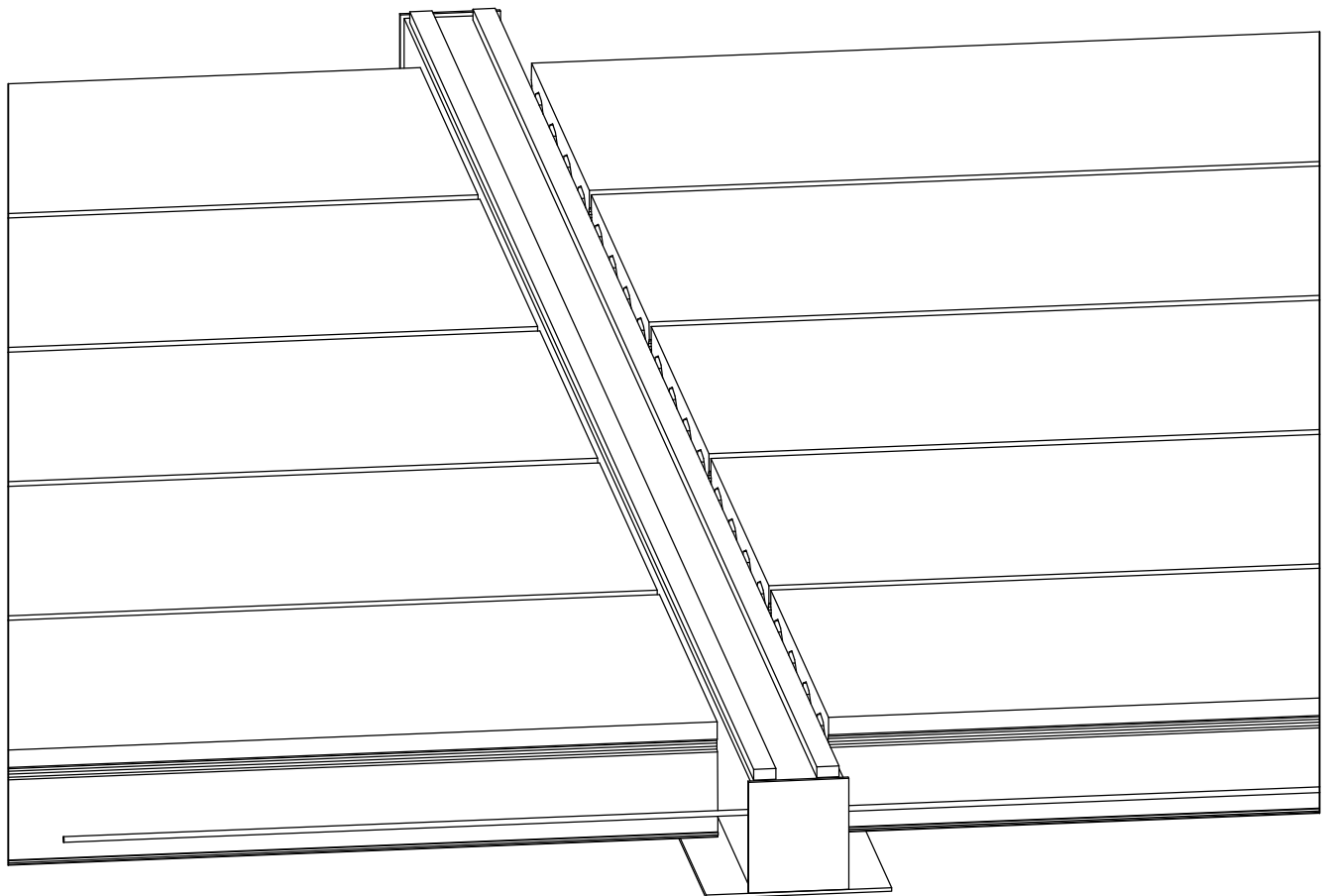
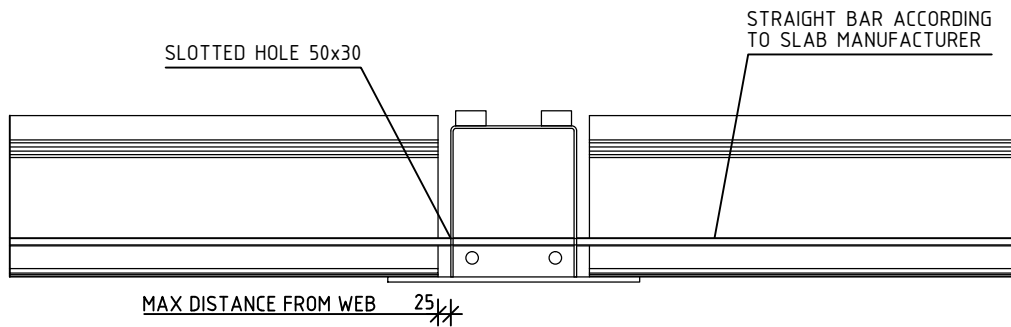
THE SWT COLUMN COMES WITH A BASE PLATE FROM THE FACTORY. THE PLATE HAS 4 OVERSIZED HOLES AND IS PLACED ON 4 CAST-IN ANCHORS.

THE OVERSIZED HOLES ALLOWS HORIZONTAL ADJUSTMENT AND THE NUTS ALLOWS ADJUSTMENT TO THE CORRECT + LEVEL.

IF COLUMN SHOULD TAKE HORIZONTAL FORCE, E.G. IF PLACED IN A PARKING GARAGE OR CLOSE TO A ROAD, THE LARGE WASHER PLATES ARE WELDED TO THE BASE PLATE.

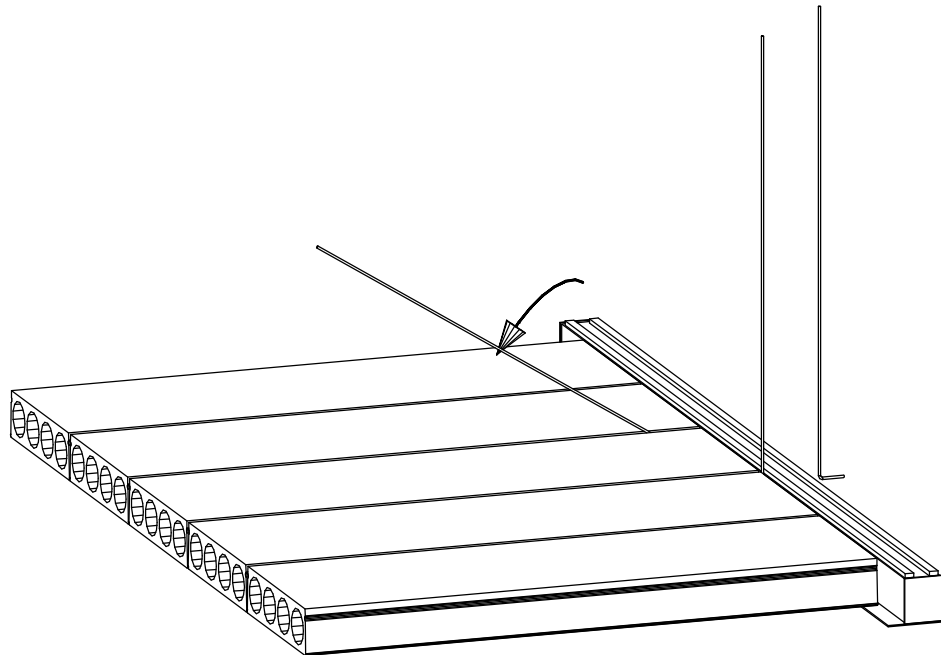
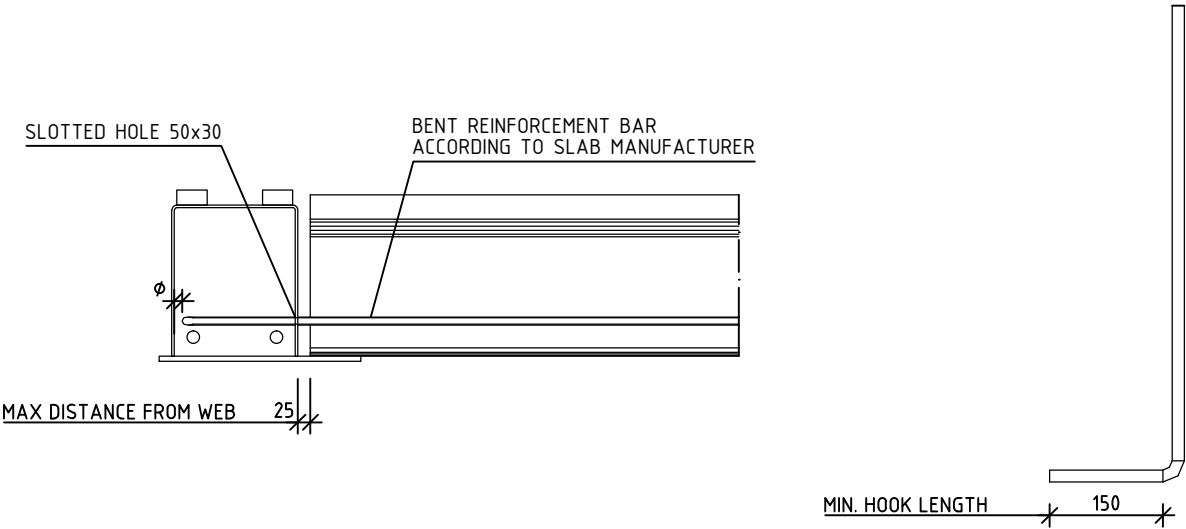
2018-02-02	A	NW	CLARIFICATION REGARDING THE FINISHED CONCRETE LEVEL			
Date	Index	Author	Description			
<div></div>			STANDARD DETAIL			
Scale 1:10, 1:20	Creation Date 2017-10-18	Contact	Project Leader		Status	
		Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By	NIKWID	BH
				Checked By	MIKWID	
				Drawing Nr	SD13-3	A

HOLLOW CORE SLAB ON DOUBLE SIDED SWT BEAM  
BAR THROUGH BEAM



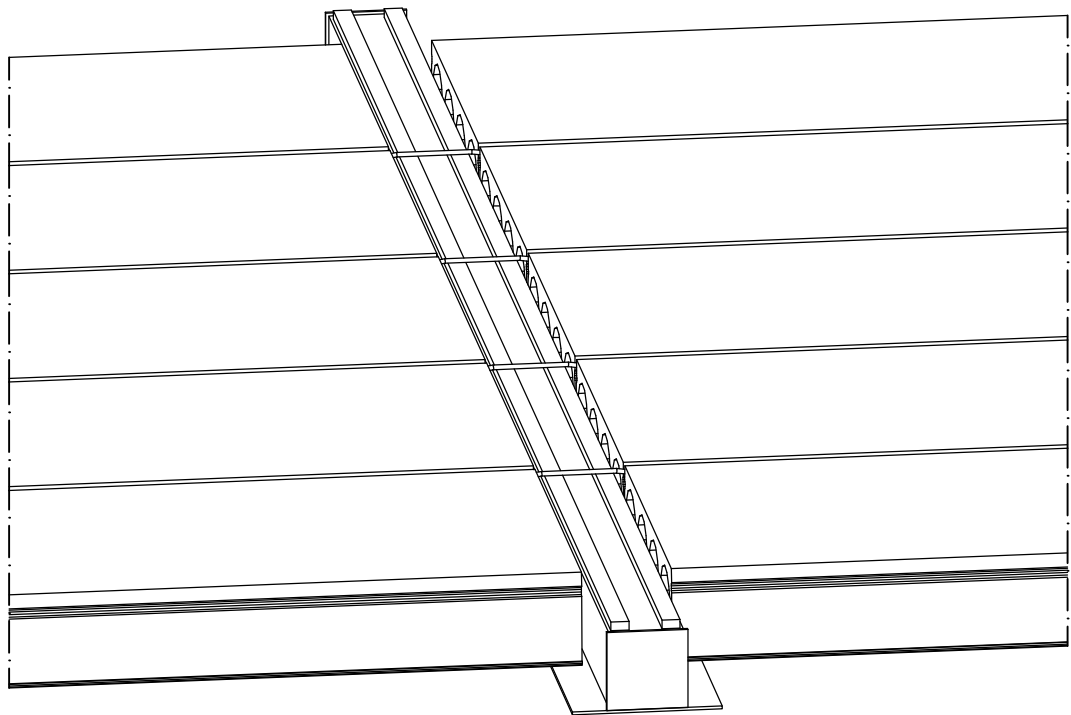
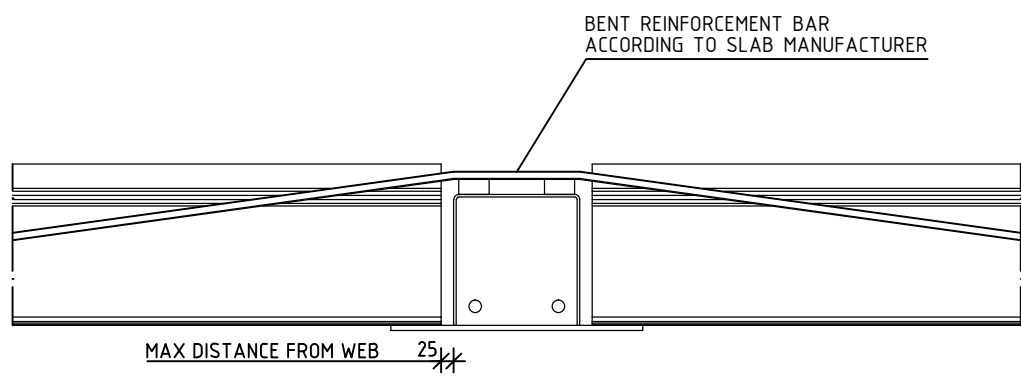
Index	Author	Date	Description
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Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		<b>JOINT DETAIL</b> Project: Standard details SWT N° :	
Scale		Creation Date	Created By
1:15, 1:20		2015-01-22	SWT
		Revision Date	Drawing Nr
			SD15-1
			Status
			BH
			Index

HOLLOW CORE SLAB ON ONE SIDED SWT BEAM  
BAR IN BEAM



Index	Author	Date	Description
<div> <div> <b>A3CERT</b>  <small>13000001</small>  <small>13000004-2</small>  <b>CERTIFIED</b> </div> <div> <b>CE</b> </div> <div> <b>SWT</b> </div> </div>			
Contact		Project: Standard details SWT	
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		N° :	Status <b>BH</b>
Scale		Creation Date	Created By
1:10, 1:15, 1:50		2015-03-21	SWT
Revision Date		Drawing Nr	Index
			SD15-2

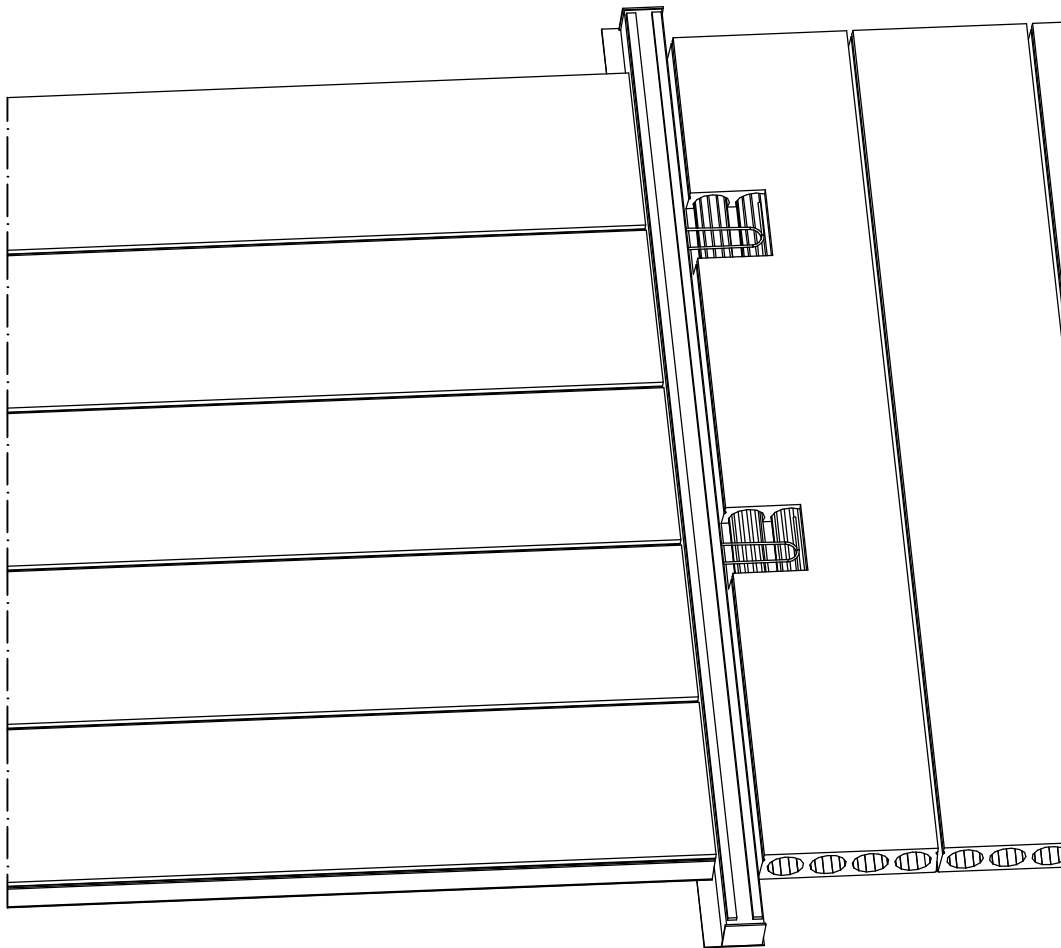
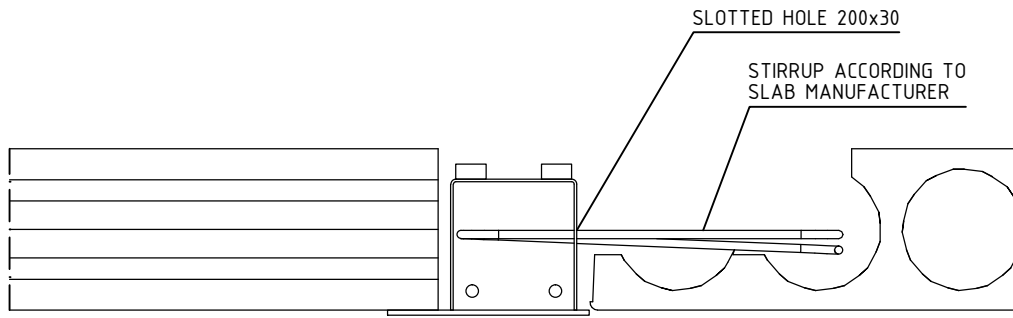
HOLLOW CORE SLAB ON DOUBLE SIDED SWT BEAM  
BAR ABOVE BEAM



Index	Author	Date	Description	
<div><div><div>A3CERT</div><div>13000001</div><div>13000004-2</div><div>CERTIFIED</div></div><div>CE</div><div><div>SWT</div></div></div>		JOINT DETAIL		
<div>Contact</div> <div><div>Sweden: +46 10-550 7700</div><div>Denmark: +45 43-20 7070</div><div>Germany: +49 38207-77 5770</div><div>www.swt.eu</div></div>		<div>Project : Standard details SWT</div> <div>N° :</div>		<div>Status</div> <div>BH</div>
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<div>Scale</div> <div>1:15,1:25</div>		<div>Revision Date</div>	<div>Drawing Nr</div> <div>SD15-3</div>	

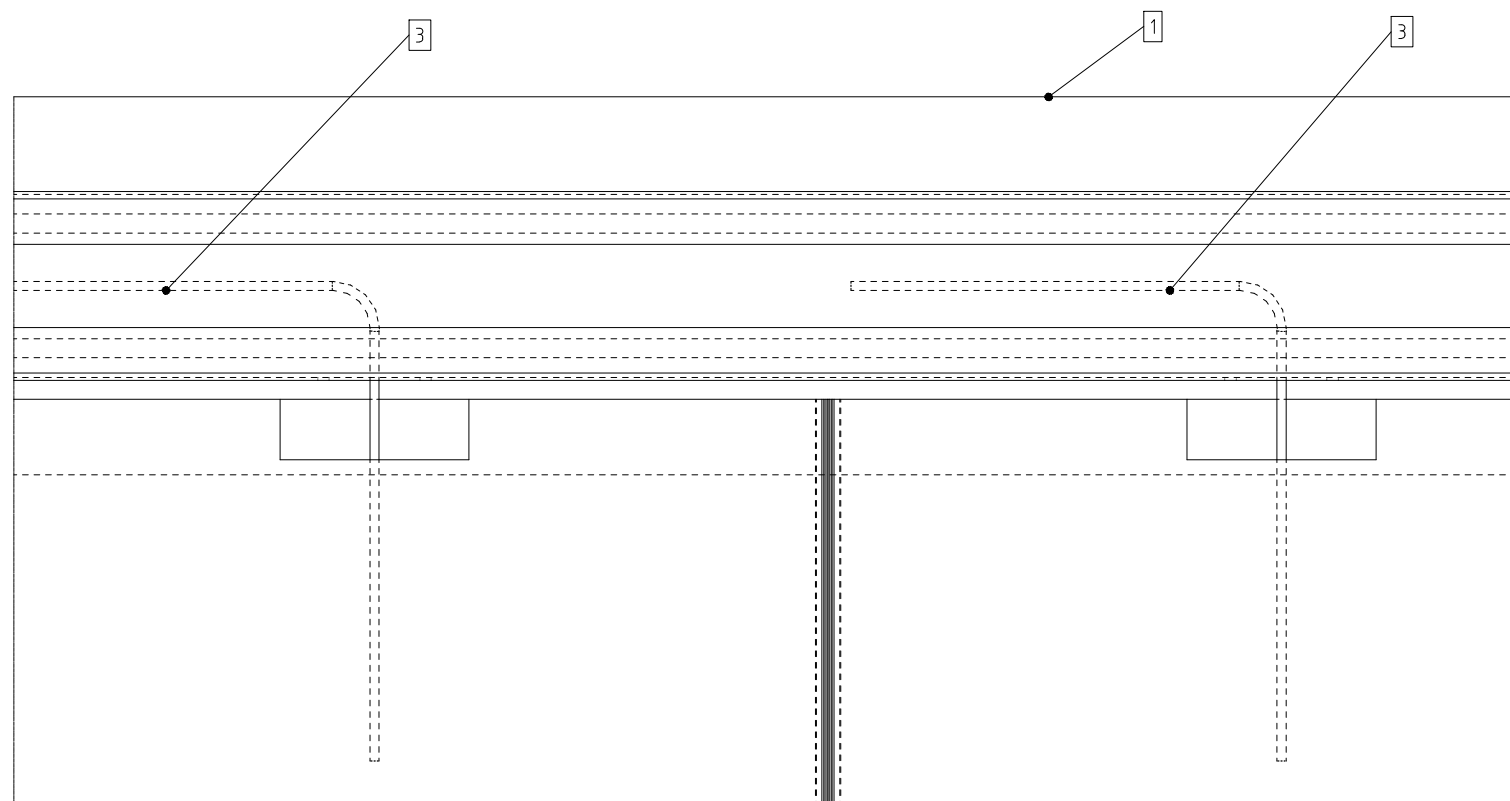
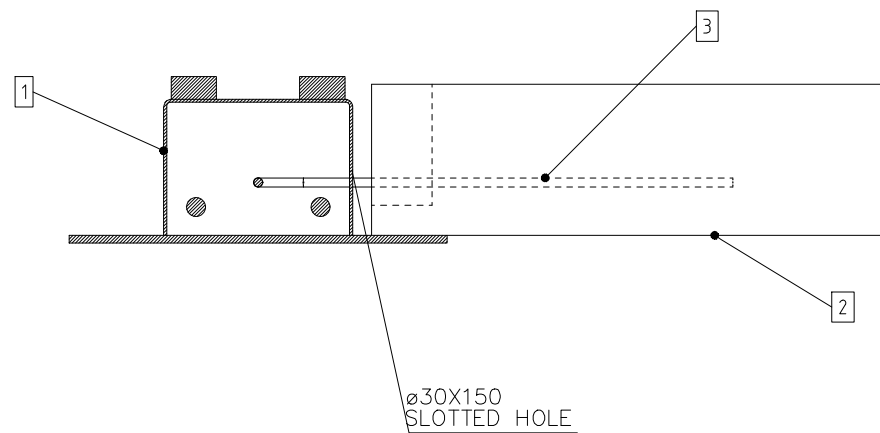


# HOLLOW CORE PARALLEL TO SWT BEAM



Index	Author	Date	Description
<div> <div> <b>A3CERT</b>  13000001  13000004-2  <b>CERTIFIED</b> </div> <div> <b>CE</b> </div> <div> <b>SWT</b> </div> </div>			
Contact		Project : Standard details SWT	
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		N° :	Status <b>BH</b>
Scale		Creation Date	Created By
1:15,1:50		2015-01-23	SWT
Revision Date		Drawing Nr	
		SD15-4	

SD16-1:  
SOLID SLAB ON SWT BEAM



**PART LIST**

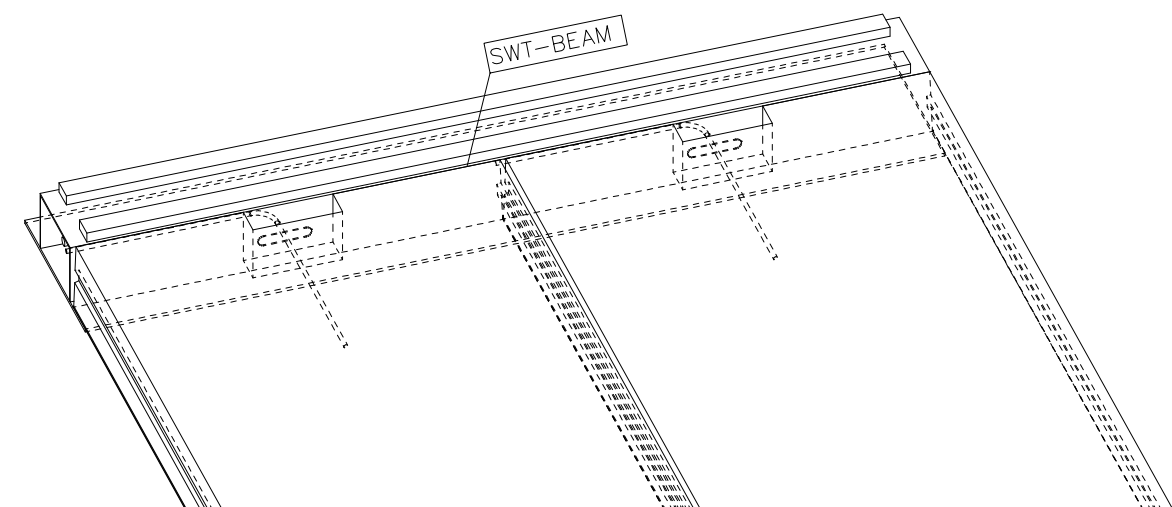
- 1: SWT BEAM
- 2: MASSIVE SLAB
- 3: WIRE CAST INTO SOLID SLAB ELEMENT

**INSTRUCTIONS**

THE MASSIVE SLAB IS PLACED ON THE SWT BEAM FLANGE, ALIGNING THE CAST IN WIRES WITH THE HOLES IN THE SWT BEAMS WEBS.

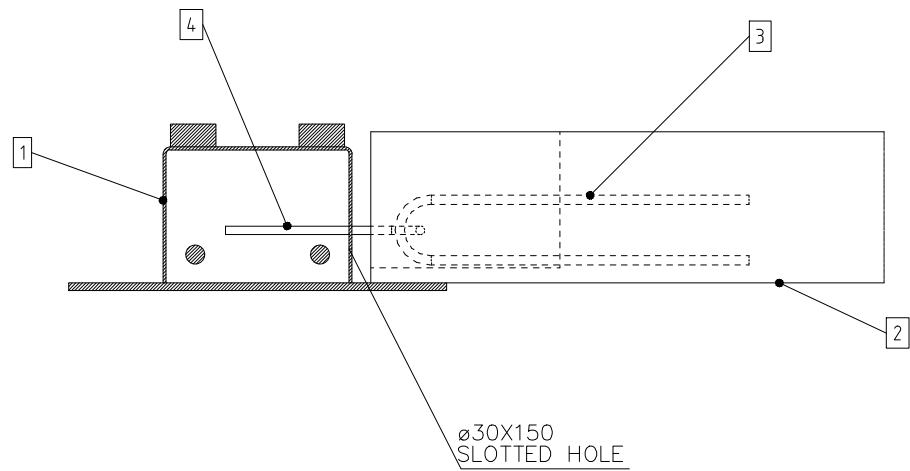
THREAD THE WIRE (3) INTO THE SWT BEAM AND PLACE ALONG THE BEAM AXIS.

THEN CAST THE BEAM, THE SLAB JOINTS AND THE JOINT BETWEEN BEAM AND SLAB IN A SINGLE OPERATION.



Date		Index	Author	Description
<div><div><div>A3CERT</div><div>ISO9001</div><div>ISO2859-2</div><div>CERTIFIED</div></div><div><div>CE</div></div></div> <div><div>SWT</div></div>		STANDARD DETAIL		
Project : N° :				
Contact		Project Leader		Status
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By JANDRE		Index
		Checked By NIKWID		
Scale 1:10, 1:20	Creation Date 06.12.2018	Drawing Nr SD16-1		

SD16-2:  
SOLID SLAB ON SWT BEAM



PART LIST

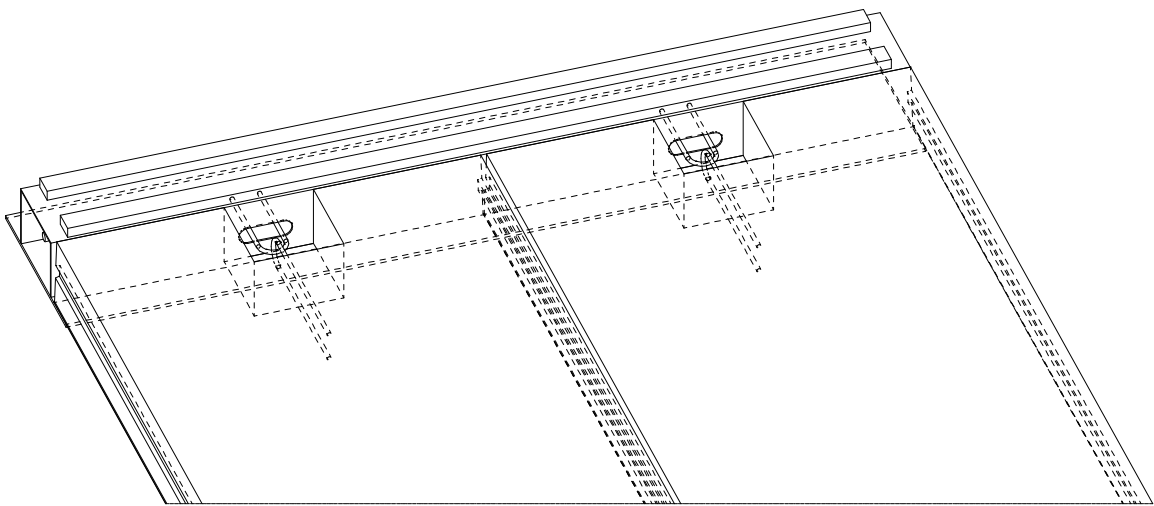
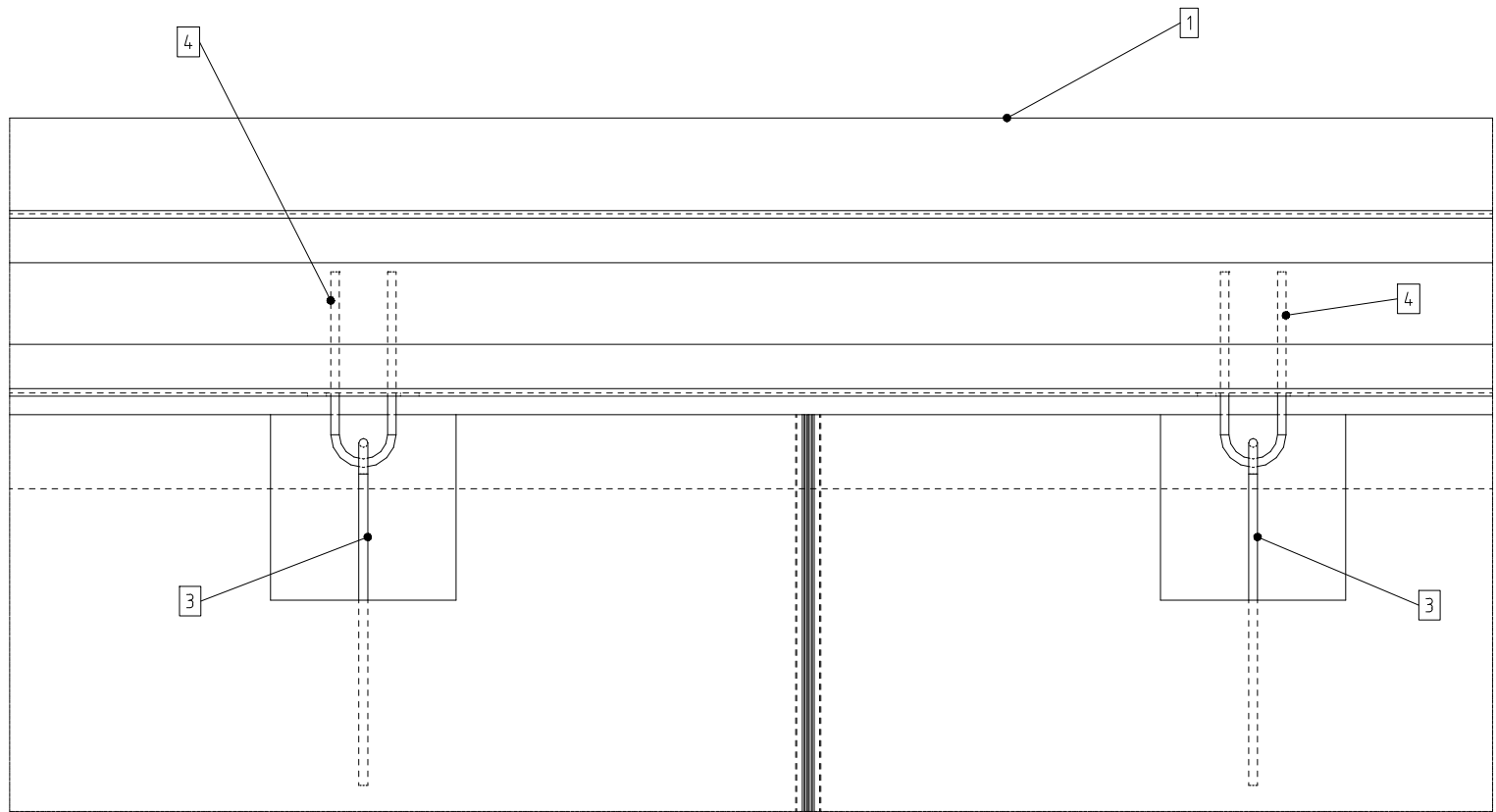
- 1: SWT BEAM
- 2: MASSIV SLAB
- 3: WIRE IN A U-SHAPE CAST INTO THE SOLID SLAB
- 4: STIRRUP ASSEMBLED ON SITE

INSTRUCTIONS

THE MASSIV SLAB IS PLACED ON THE SWT BEAM FLANGE, ALIGNING THE CAST IN WIRES WITH THE HOLES IN THE SWT BEAMS WEBS.

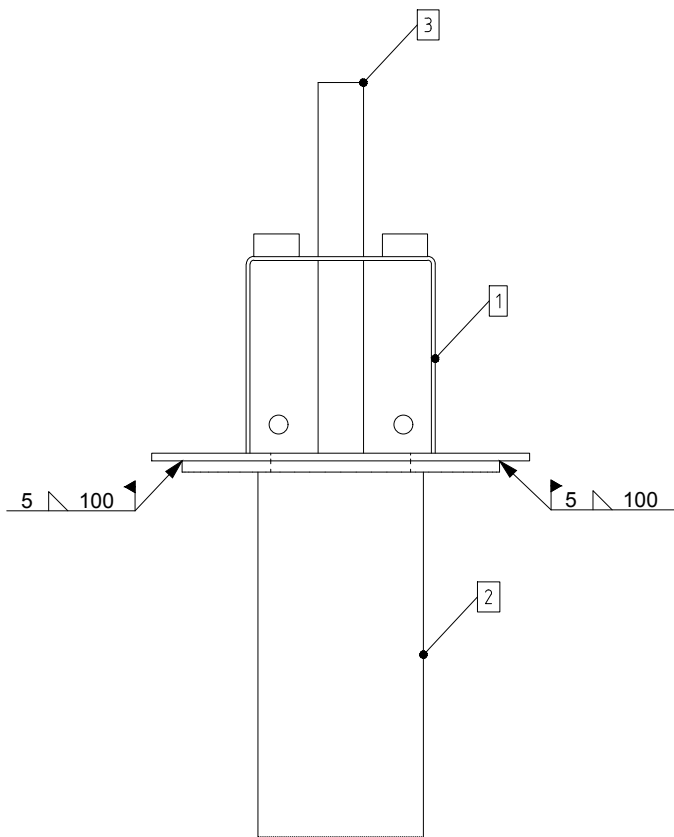
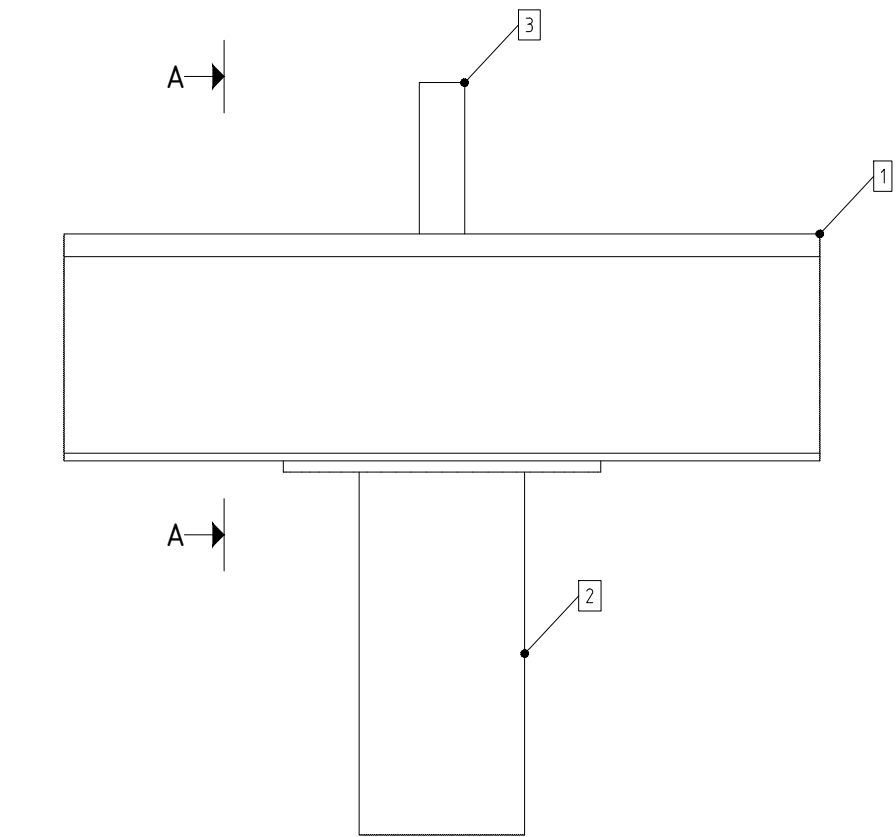
THREAD THE SEPARATE U-STIRRUP (4) THROUGH THE WIRES AND THEN INTO THE SWT BEAM :

THEN CAST THE BEAM, THE SLAB JOINTS AND THE JOINT BETWEEN BEAM AND SLAB IN A SINGLE OPERATION.

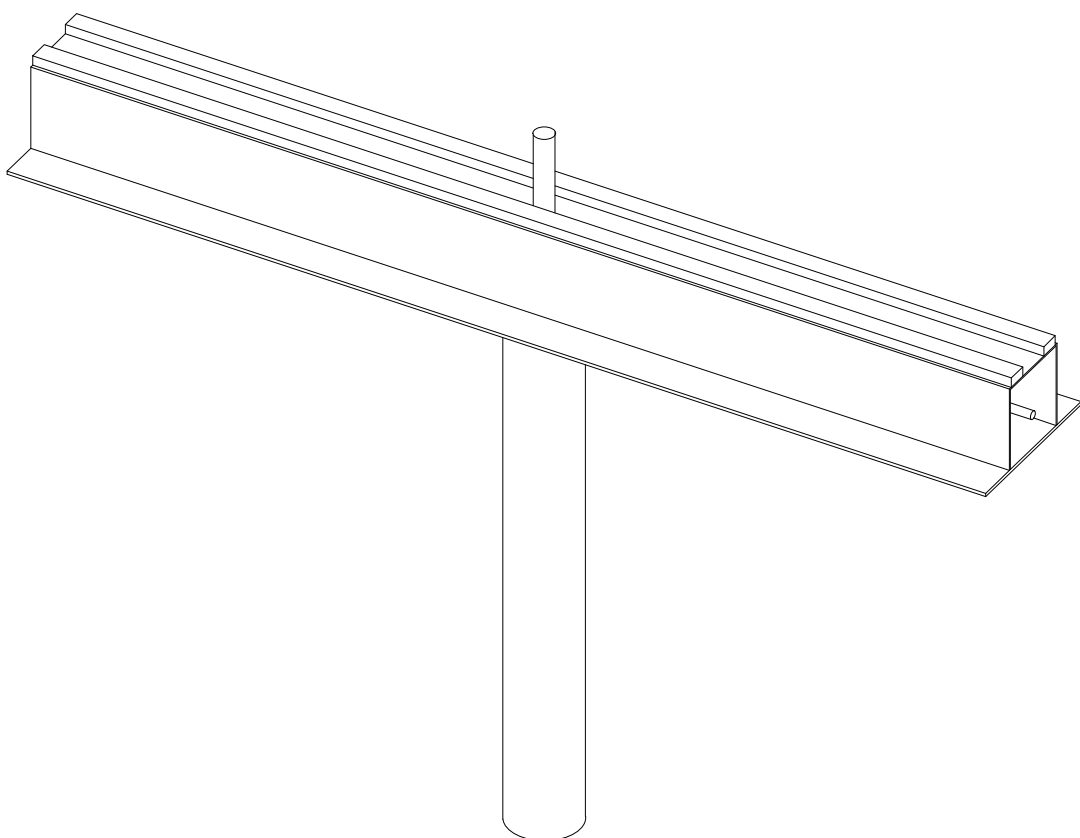


Date	Index	Author	Description
STANDARD DETAIL			
Project : N° :			
Contact		Project Leader	Status
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By JANDRE	Index
		Checked By NIKWID	
Scale 1:10, 1:20	Creation Date 06.12.2018	Drawing Nr SD16-2	

SD20-1: SWT BEAM ON SWT COLUMN



A - A



**PART LIST**

- 1: SWT BEAM
- 2: SWT COMPOSITE COLUMN
- 3: STEEL CORE FROM SWT COLUMN, EXTENDING TO NEXT FLOOR  
(CORE ENDS INSIDE BEAM IF NO COLUMN ON NEXT FLOOR)

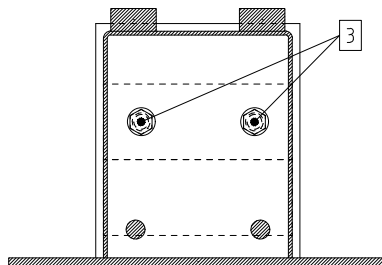
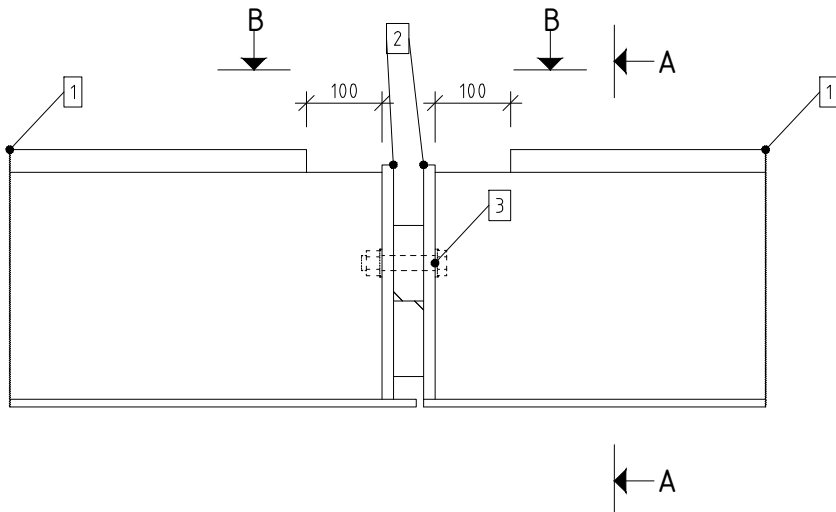
**INSTRUCTIONS**

THE SWT BEAM IS PLACED ON TOP OF THE SWT COLUMN, AND WELDED TO THE TOP PLATE.

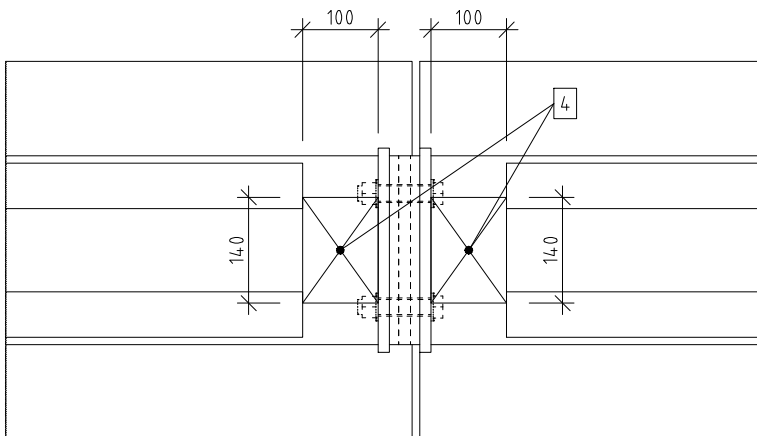
CONCRETE IS CAST AT THE SAME TIME AS THE FLOOR JOINTS, SEE THE SWT-INSTRUCTIONS FOR MORE INFORMATION

2016-02-05	A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date	Index	Author	Description		
<div><div><div>A3CERT</div><div>ISO 9001</div><div>ISO 9004-2</div><div>CERTIFIED</div></div><div>CE</div><div>SWT</div></div>			STANDARD DETAIL		
			Project :		
			N° :		
			Contact	Project Leader	Status
			Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Created By	NIKWID
	Checked By	MIKWID	BH		
			Index		
Scale	1:10, 1:20	Creation Date	2016-02-04	Drawing Nr	
				SD20-1	
				A	

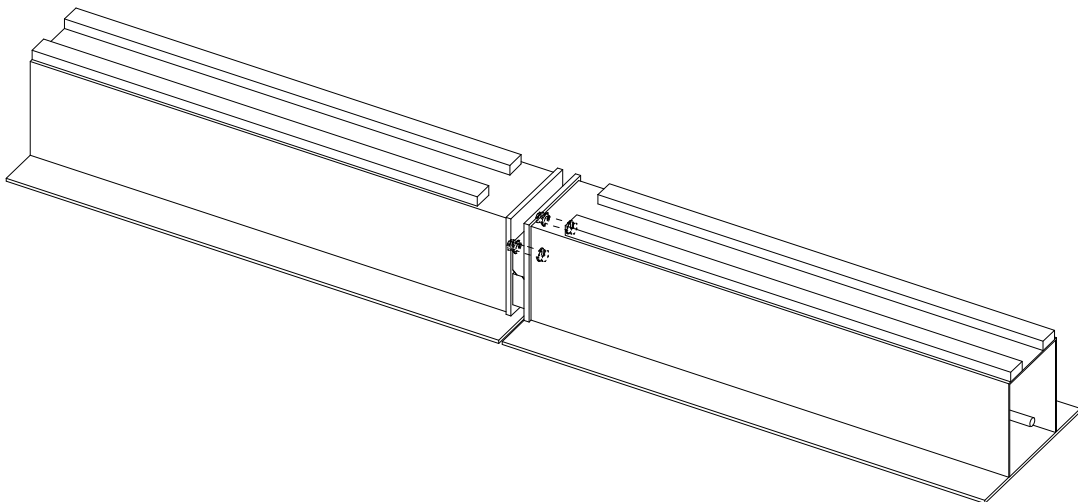
SD21-1



A - A



B - B






## PART LIST

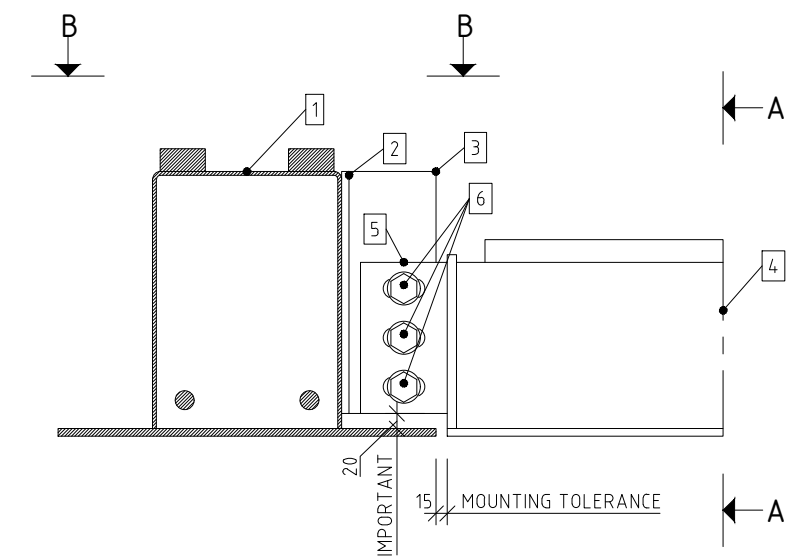
- 1: SWT BEAM
- 2: END PLATES WITH CLEATS AND HOLES
- 3: BOLTS, M20X100
- 4: OPENING IN TOP OF BEAMS

## INSTRUCTIONS

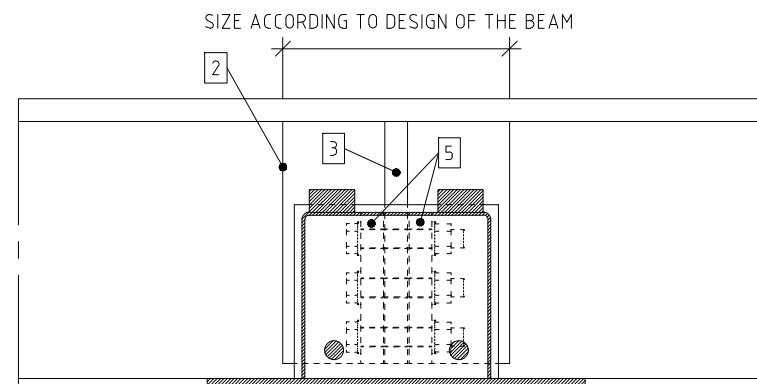
THE SWT BEAMS HAVE END PLATES WITH CLEATS AND HOLES FOR BOLTING. THE TOP OF THE BEAMS ARE OPEN TO BOLT FROM THE INSIDE.

THE CONNECTION IS FIRE PROTECTED DUE TO CRITICAL PARTS BEING INSIDE THE CONCRETE.

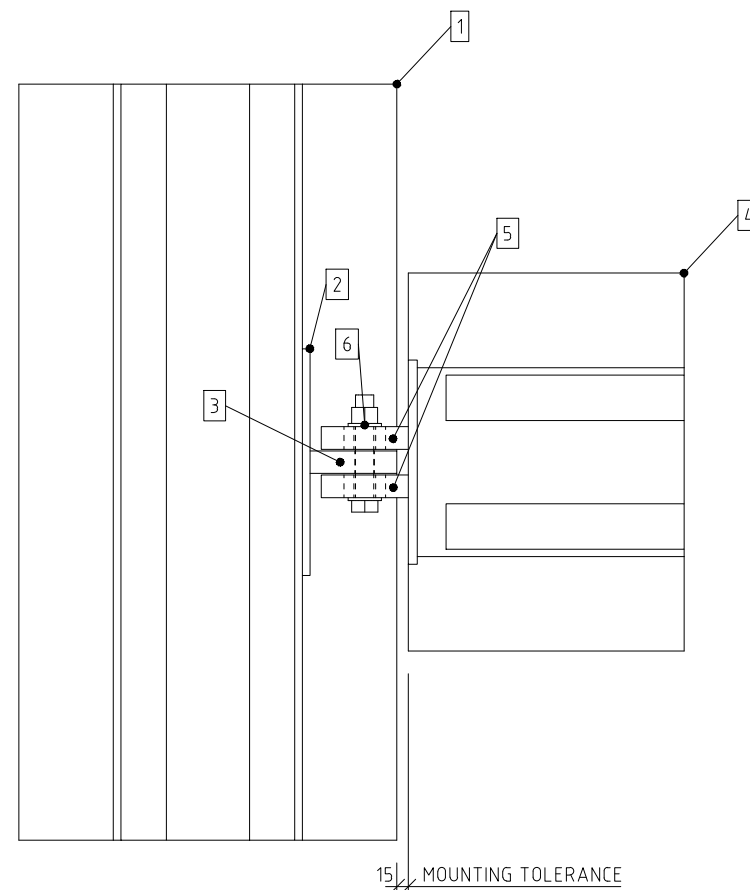
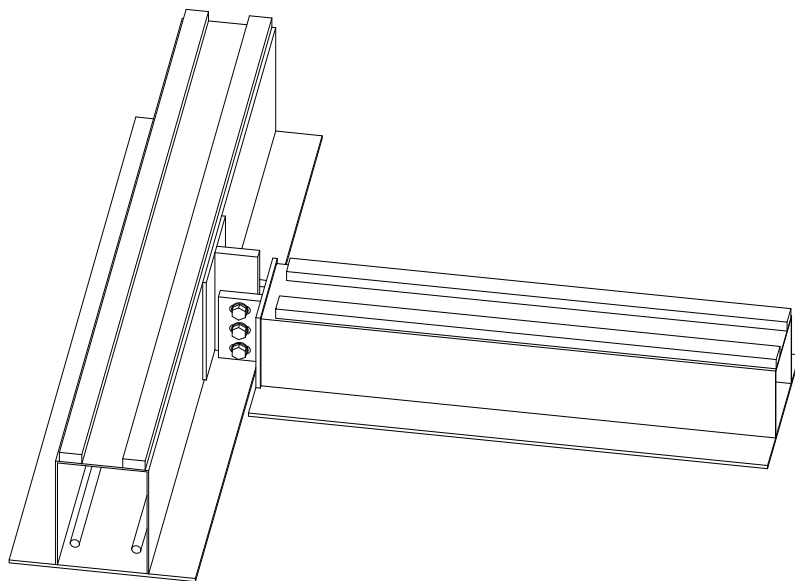
2016-02-05		A	NW	UPDATED ACCORDING TO LATEST STANDARD	
Date		Index	Author	Description	
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Project : N° :		Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Project Leader Created By Checked By	
Scale 1:10, 1:20		Creation Date 2016-02-04		Status BH Index A	
				MIKWID SD21-1	



### SD21-2: SWT BEAM-BEAM CONNECTION BOLTED SIDE CONNECTION



A - A



B - B

#### PART LIST

- 1: PRIMARY SWT BEAM
- 2: WEB PLATE ON PRIMARY BEAM
- 3: BOLT PLATE ON PRIMARY BEAM
- 4: SECONDARY BEAM
- 5: END PLATE WITH DUAL BOLT PLATES
- 6: BOLTS, NUMBER AND SIZE DEPENDING ON CONNECTING BEAM SIZE




#### INSTRUCTIONS

THE PRIMARY SWT BEAM (1) HAVE A VERTICAL PLATE WITH BOLT HOLES ON THE SIDE (2)

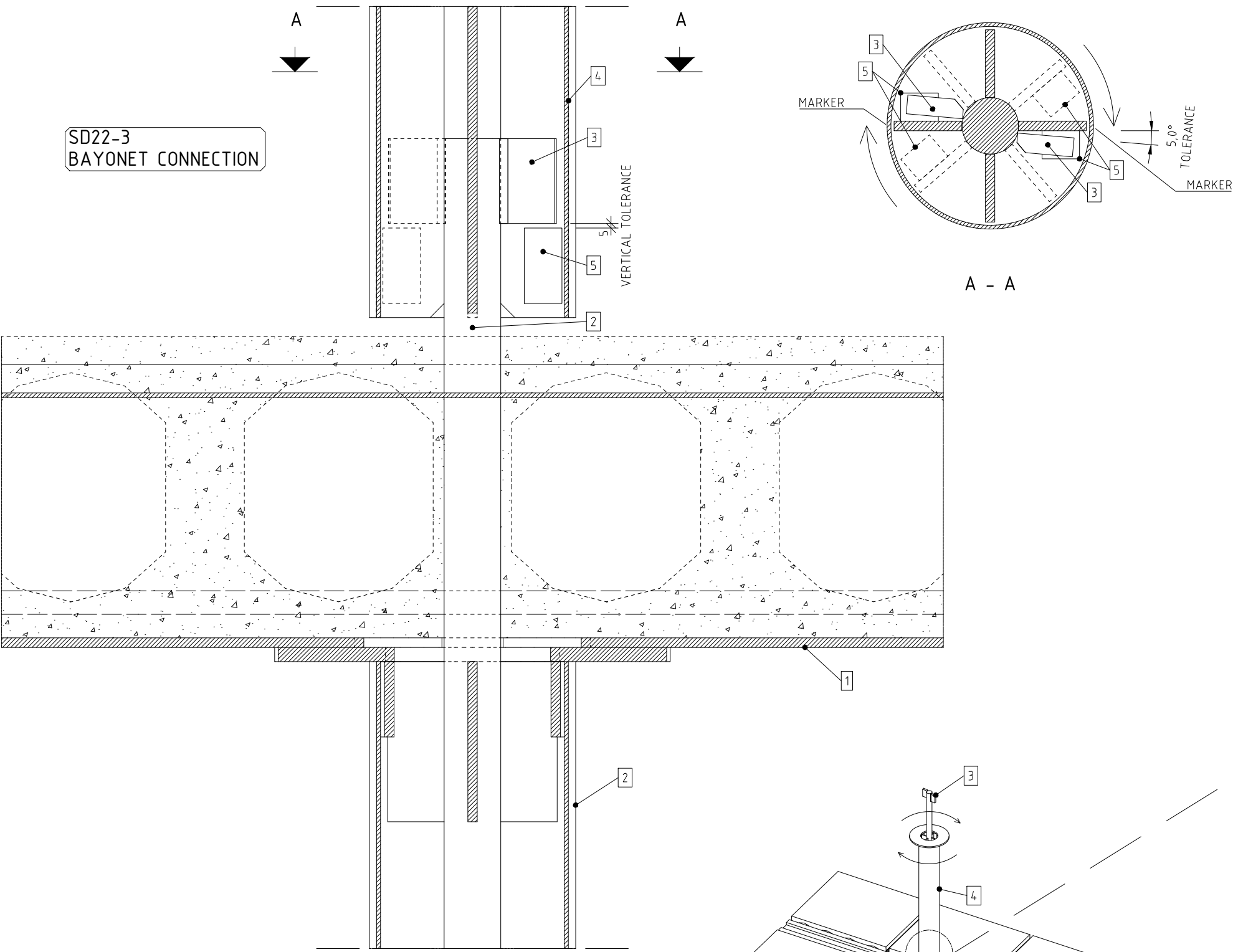
THE SECONDARY SWT BEAM (4) HAS AN END PLATE WITH DUAL VERTICAL PLATES (5)

PARTS ARE BOLTED TOGETHER. THE HOLES IN THE OUTER PLATES (5) ARE SLOTTED, ALLOWING A HORIZONTAL TOLERANCE OF  $\pm 15\text{mm}$

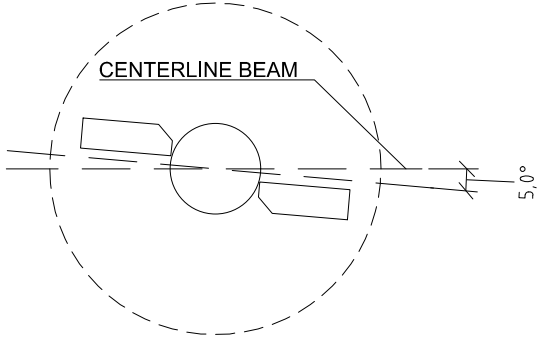
USE OF A TEMPORARY SHIM PLATE CAN BE USED TO PROP THE SECONDARY BEAM ON THE CORRECT HEIGHT. IT SHOULD NOT REST ON THE FLANGE OF THE PRIMARY BEAM, BUT IS RAISED ACCORDING TO DRAWING. THIS TO ENSURE FIRE PROTECTION OF THE JOINT.

2017-01-23	B	NW	DETAIL 3 UPDATED TO REACH FULL HEIGHT			
2016-02-05	A	NW	UPDATED ACCORDING TO LATEST STANDARD			
Date	Index	Author	Description			
<div></div>			STANDARD DETAIL			
			Project :			
			N° :			
			Contact	Project Leader	Status	
			Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By Checked By	NIKWID MIKWID
Scale	1:10, 1:20	Creation Date	2016-02-04	Drawing Nr	SD21-2	B

SD22-3  
BAYONET CONNECTION



UNLESS OTHERWISE SPECIFIED, THE COLUMN BELOW IS MOUNTED SO THAT THE TOP KEYS OF THE BAYONET CONNECTION ARE ROTATED 5 DEGREES CLOCKWISE FROM THE CENTERLINE OF THE BEAM DIRECTLY ON TOP



Tube	Core	Top key	Bottom key	Top weld	Bottom weld	DK	Capacity	
							SE	NO / DE
200x200 / Ø219	Ø40-60	60x90x20	40x80x30	HV10	3 sides a5	370 kN	370 kN	370 kN
200x200 / Ø219	Ø80	50x90x30	40x80x40	HV20	3 sides a7	625 kN	700 kN	675 kN
200x200 / Ø219	Ø100	40x90x30	30x80x40	HV20	3 sides a7	590 kN	665 kN	640 kN
>250 / >Ø273	Ø40-60	60x90x20	50x80x30	HV10	3 sides a5	370 kN	375 kN	370 kN
>250 / >Ø273	Ø80-100	60x90x30	50x80x40	HV20	3 sides a7	655 kN	735 kN	705 kN

PART LIST

- 1: SWT BEAM
- 2: SUPPORTING SWT COLUMN
- 3: STEEL KEY ON SUPPORTING COLUMN CORE
- 4: SWT COLUMN ON NEXT FLOOR
- 5: STEEL KEY ON NEXT SWT COLUMN

GENERAL PRINCIPLE

THE VERTICAL CONNECTION BETWEEN THE FLOORS IS SECURED BY STEEL KEYS, (3 & 5) THAT INTERLOCK INSIDE THE SWT COMPOSITE COLUMNS. THE VERTICAL LOAD IS TRANSFERRED VIA THE SOLID STEEL CORE TO THE NEXT FLOOR.

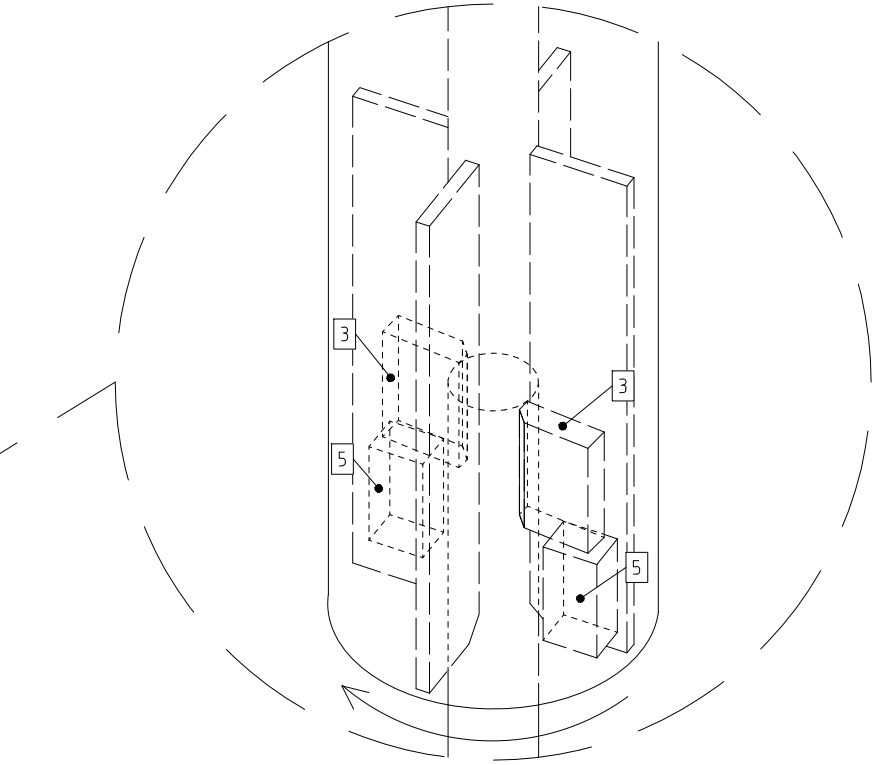
INSTRUCTIONS

THE SUPPORTING COLUMN HAS A STEEL CORE THAT GOES THROUGH THE SWT BEAM. TWO STEEL KEYS (3) ARE WELDED TO THE TOP OF THE CORE. IT IS IMPORTANT THAT THE COLUMN IS MOUNTED WITH CORRECT ROTATION, SO THE STEEL KEYS ARE IN CORRECT POSITION.

THE NEXT COLUMN (4) IS MOUNTED, ROTATED APPROX. 30-45° COUNTERCLOCKWISE, SEE CUT VIEW A-A. AFTER THE COLUMN IS PLACED ON THE CORE, IT IS ROTATED CLOCKWISE TO THE LOCK POSITION. THE ROTATION SHOULD BE DONE WHILE THE COLUMN IS STILL CONNECTED TO THE LIFT STRAP IN THE CRANE, TO TAKE SOME OF THE LOAD OFF.

**NOTE!** PLEASE OBSERVE THAT THERE IS A 5° TOLERANCE BETWEEN THE STEEL KEYS, IN ORDER TO ACCOUNT FOR ON-SITE ERRORS. THEREFORE, THE COLUMNS SHOULD NOT BE MOUNTED ALL THE WAY TO THE STOP POSITION.

USE THE GROOVED MARKER ON THE OUTSIDE OF THE COLUMN TUBE, TO MEASURE THE ROTATION ALONG THE BEAM SYSTEM LINE.



2018-05-29	B	NW	CLARIFICATION ABOUT ORIENTATION
2017-12-14	A	NW	INFO ABOUT ROTATION ADDED
Date	Index	Author	Description



STANDARD DETAIL

Project :  
N° :

Contact  
Sweden: +46 10-550 7700  
Denmark: +45 43-20 7070  
Germany: +49 38207-77 5770  
www.swt.eu

Project Leader  
Created By  
Checked By  
Drawing Nr

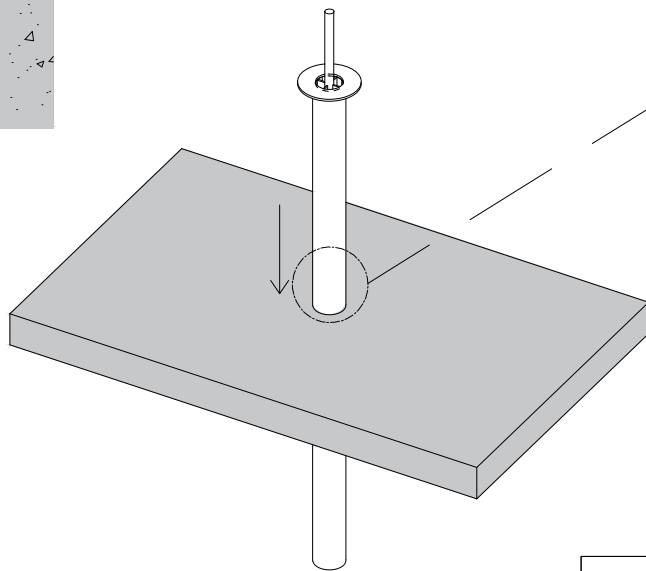
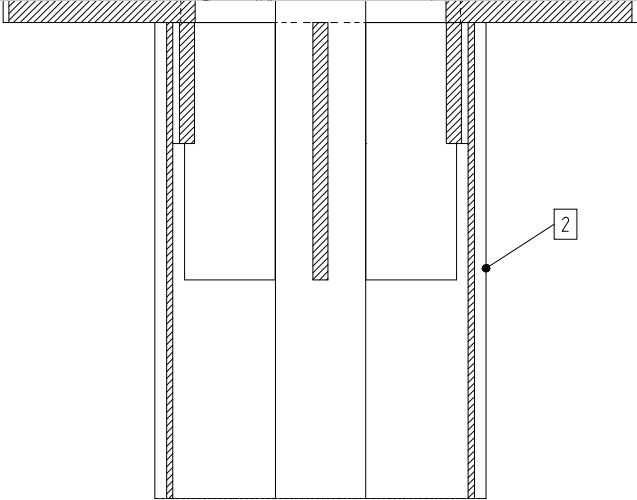
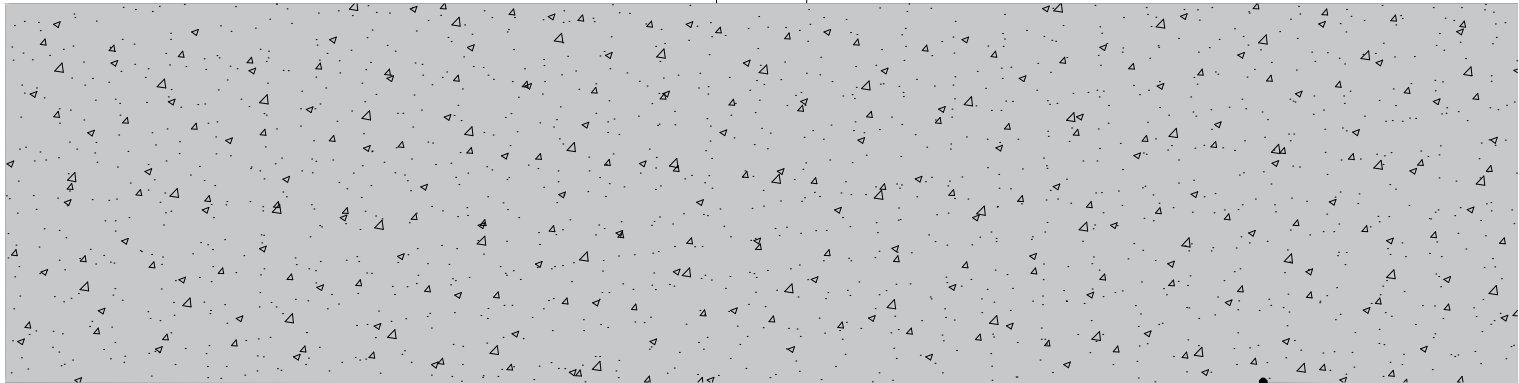
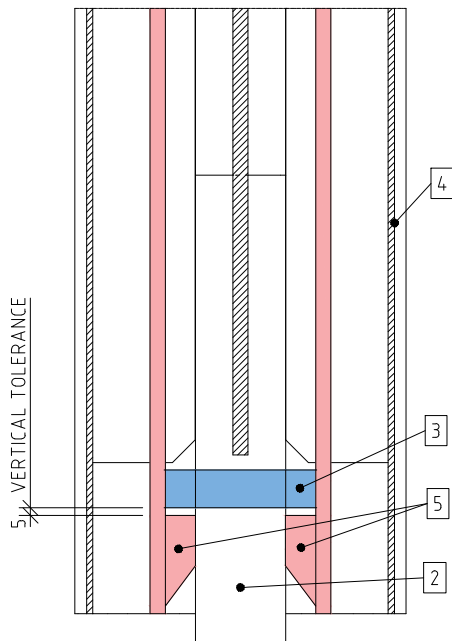
Status  
Index

BH  
B

Creation Date 2017-03-09

SD22-3

SD22-4  
CLICK CONNECTION



PART LIST

- 1: CONCRETE FLOOR SLAB
- 2: SUPPORTING SWT COLUMN
- 3: STEEL RING ON SUPPORTING COLUMN CORE
- 4: SWT COLUMN ON NEXT FLOOR
- 5: STEEL LOCK SPRINGS ON NEXT SWT COLUMN

GENERAL PRINCIPLE

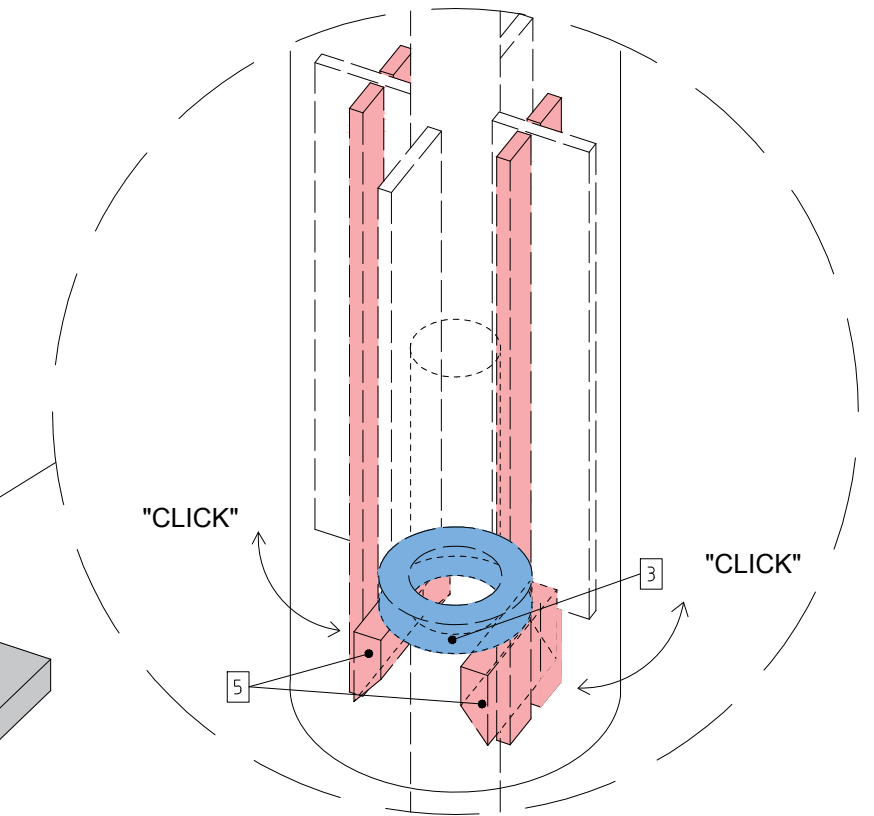
THE VERTICAL CONNECTION BETWEEN THE FLOORS IS SECURED BY A STEEL RING AND TWO LOCK SPRINGS, (3 & 5) THAT INTERLOCK INSIDE THE SWT COMPOSITE COLUMNS. THE VERTICAL LOAD IS TRANSFERRED VIA THE SOLID STEEL CORE TO THE NEXT FLOOR.

INSTRUCTIONS

PLACE THE ABOVE COLUMN (4) ON THE CORE EXTENDING THROUGH THE FLOOR (2). A LOW CLICK SOUND SHOULD BE HEARD, TO VERIFY THAT THE TWO SPRINGS (5) INTERLOCK WITH THE STEEL RING (3).

IF THE CLICK CANNOT BE HEARD, TRY LIFTING THE COLUMN SLIGHTLY TO CHECK THE CONNECTION.

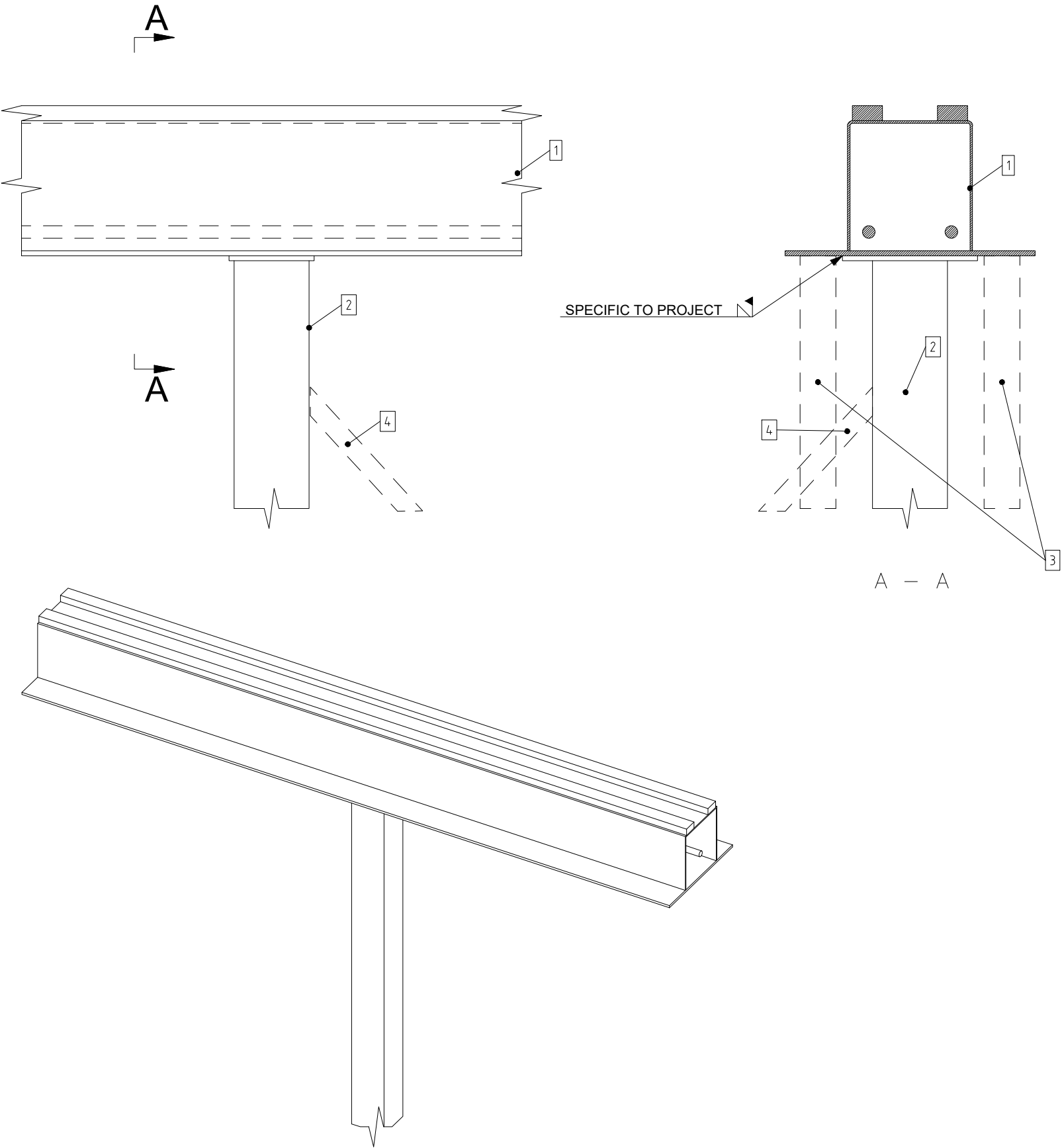
**NOTE!** THE RING (3) ADDS TO THE DIAMETER OF COLUMN CORE, WHICH MEANS IT CANNOT EASILY PASS THROUGH SWT BEAMS WITHOUT MODIFICATION. THE CLICK CONNECTION IS THEREFORE A SPECIAL SOLUTION FOR SITUATIONS WHERE THE BAYONET CONNECTION SD22-3 DOES NOT WORK.



Date	Index	Author	Description
STANDARD DETAIL			
Project : N° :			
Contact		Project Leader	Status
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By NIKWID	BH
		Checked By MIKWID	
Scale 1:5, 1:50	Creation Date 2018-03-01	Drawing Nr SD22-4	



SD30-1: SWT BEAM ON  
STEEL COLUMN



PART LIST

- 1: SWT BEAM
- 2: STEEL COLUMN
- 3: TEMPORARY PROPS FOR BEAM
- 4: TEMPORARY PROPS FOR COLUMNS

INSTRUCTIONS

THE BEAM IS PLACED ON THE COLUMN AND WELDED ACCORDING TO PROJECT SPECIFIC INSTRUCTIONS.

IF SWT DESIGN THE COLUMN, WELDING INSTRUCTIONS WILL BE PROVIDED WITH THE ERECTION DRAWINGS OR DIRECTLY ON THIS STANDARD DRAWING AS A MARKING.

IMPORTANT!  
COLUMNS MUST BE PROPPED IN AT LEAST 2 DIRECTIONS (X,Y) DURING MOUNTING OF THE BEAMS AND FLOOR ELEMENTS. SEE SWT'S ERECTION INSTRUCTIONS FOR MORE INFORMATION.

IF THE SWT BEAM IS LOADED SYMMETRICALLY ON BOTH SIDES DURING THE ERECTION PHASE, PROPPING OF THE BEAM IS NORMALLY NOT NEEDED. BEAMS LOADED ON ONE SIDE, SUCH AS FACADE BEAMS, OR WITH LONGER/ OR HEAVIER FLOOR ELEMENTS ON ONE SIDE, NEED TO BE PROPPED ON THE LOADED SIDE.

THE RESPONSIBILITY FOR SAFE PROPPING RESIDES WITH THE ON-SITE MANAGER.

2022-10-25	B	NW	UPDATED ACCORDING TO LATEST STANDARD		
2016-06-08	A	NW	UPDATED ACCORDING TO LATEST STANDARD		
Date	Index	Author	Description		
<div><div><div>A3CERT</div><div>13099901</div><div>13099901-2</div><div>CERTIFIED</div></div><div><div>CE</div><div>SWT</div></div></div>		STANDARD DETAIL			
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		N° :			
		Contact	Project Leader	Status	
		Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu	Created By	NIKLAS BH	
	Checked By	gabsab 26/10/2022 Index			
Scale	1:10, 1:20	Creation Date	2016-02-23	Drawing Nr	
			SD30-1	B	

SD31-1: STEEL COLUMN  
ON SWT BEAM

**PART LIST**

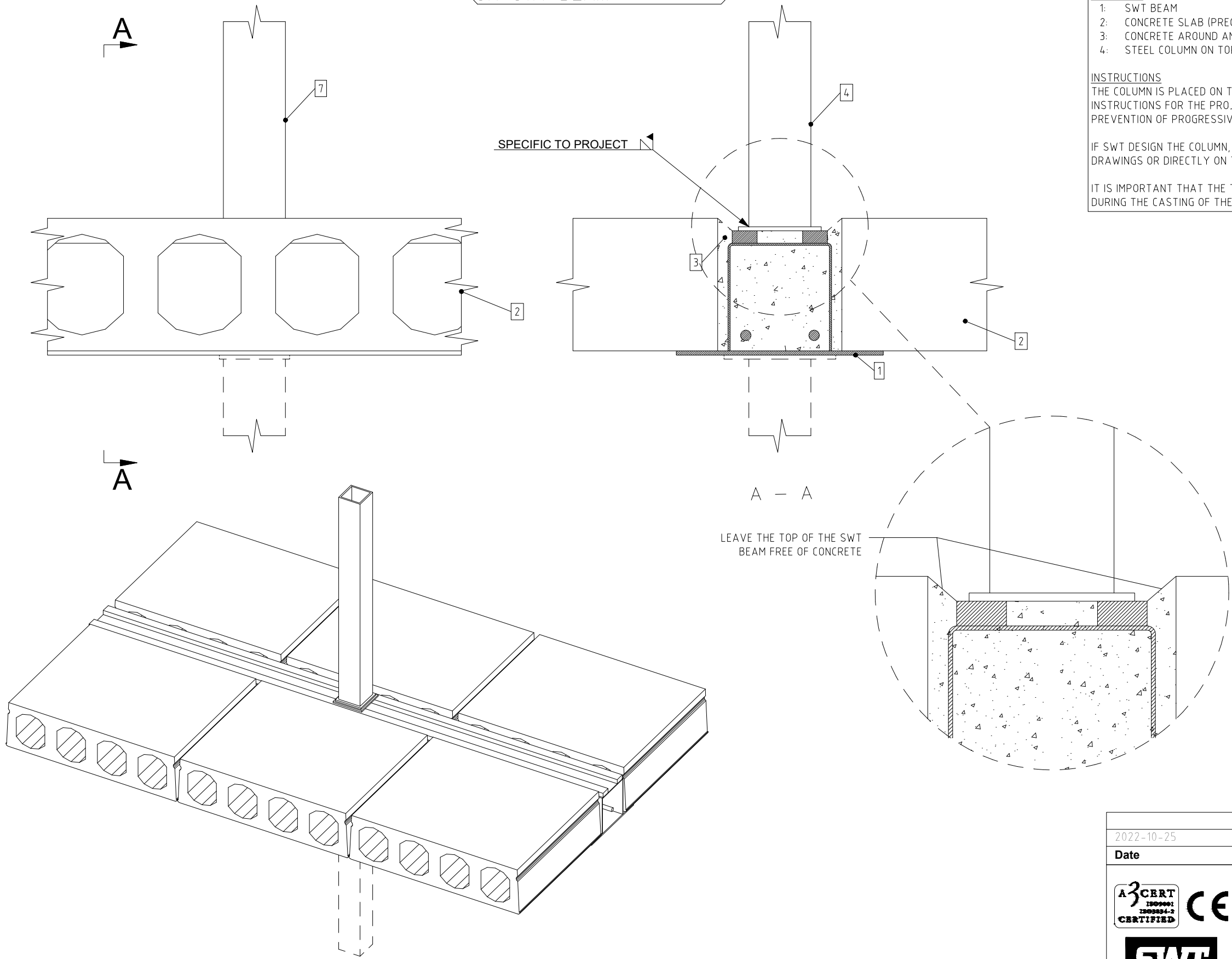
- 1: SWT BEAM
- 2: CONCRETE SLAB (PRECAST OR IN-SITU CAST)
- 3: CONCRETE AROUND AND INSIDE SWT BEAM
- 4: STEEL COLUMN ON TOP OF BEAM

**INSTRUCTIONS**

THE COLUMN IS PLACED ON THE TOP OF THE SWT BEAM, AND WELDED ACCORDING TO THE INSTRUCTIONS FOR THE PROJECT. CONSIDERATIONS SHOULD BE MADE IF VERTICAL CONNECTIONS FOR PREVENTION OF PROGRESSIVE COLLAPSE, ACCORDING TO EN 1991-1-7 CC2b, ARE NEEDED.

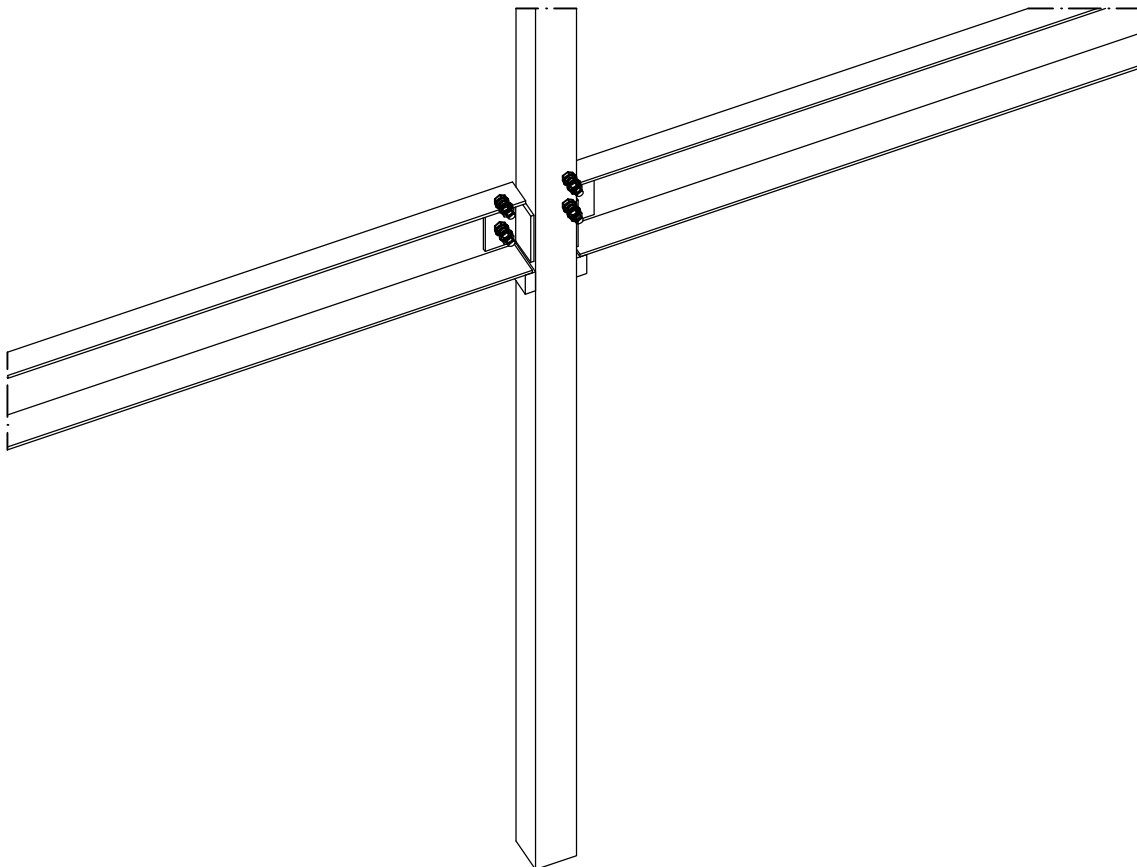
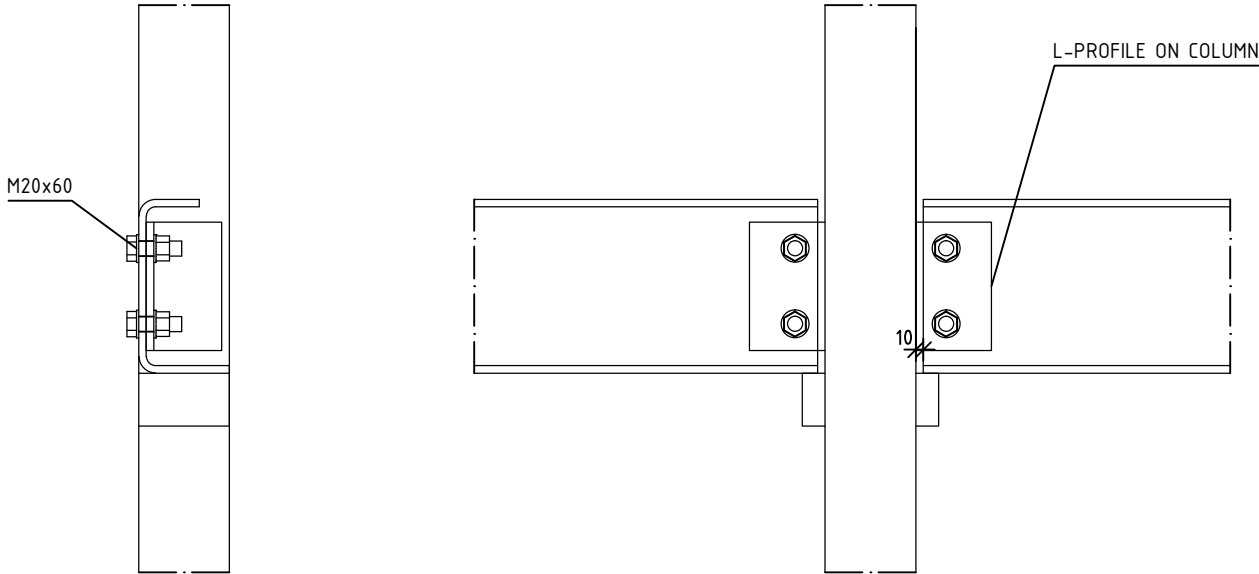
IF SWT DESIGN THE COLUMN, WELDING INSTRUCTIONS WILL BE PROVIDED WITH THE ERECTION DRAWINGS OR DIRECTLY ON THIS STANDARD DRAWING AS A MARKING.

IT IS IMPORTANT THAT THE TOP PLATE OF THE SWT BEAM IS KEPT FREE OF CONCRETE, LOCALLY, DURING THE CASTING OF THE FLOOR JOINTS, TO ALLOW THE PLACEMENT OF THE COLUMN.



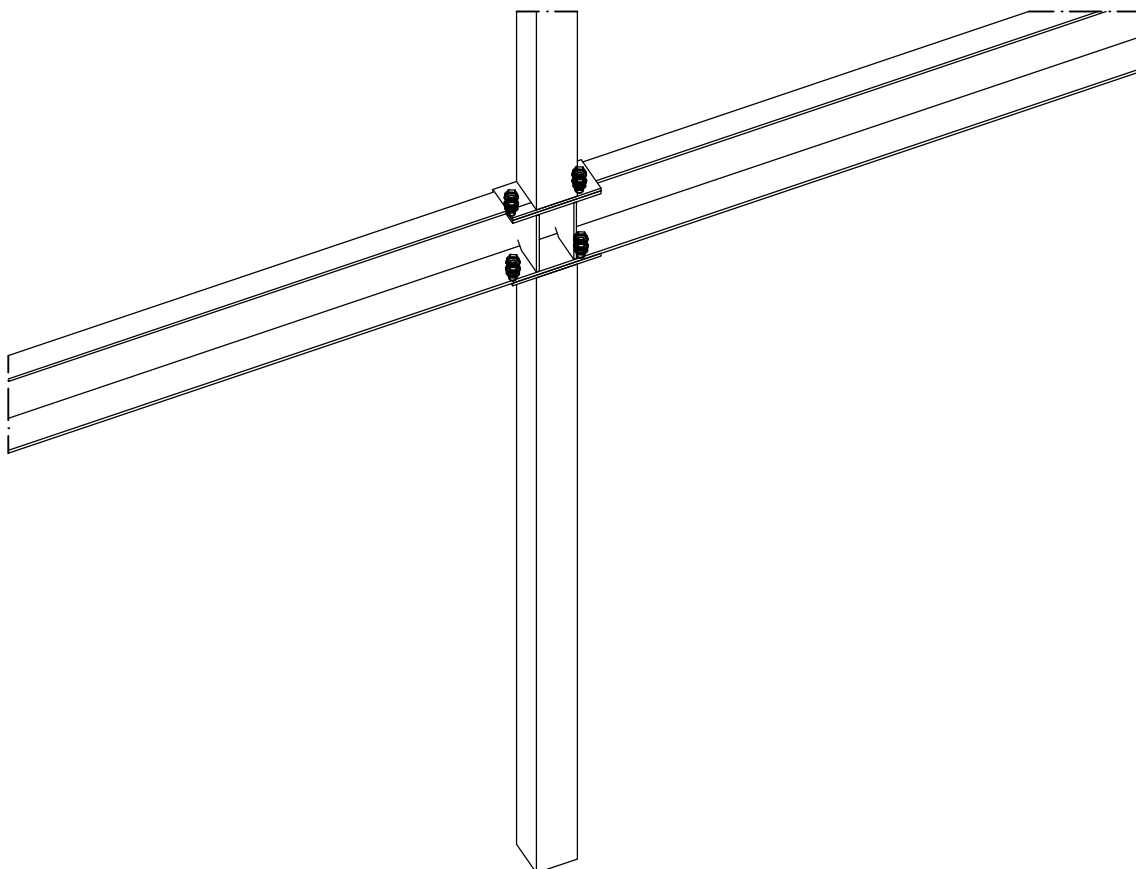
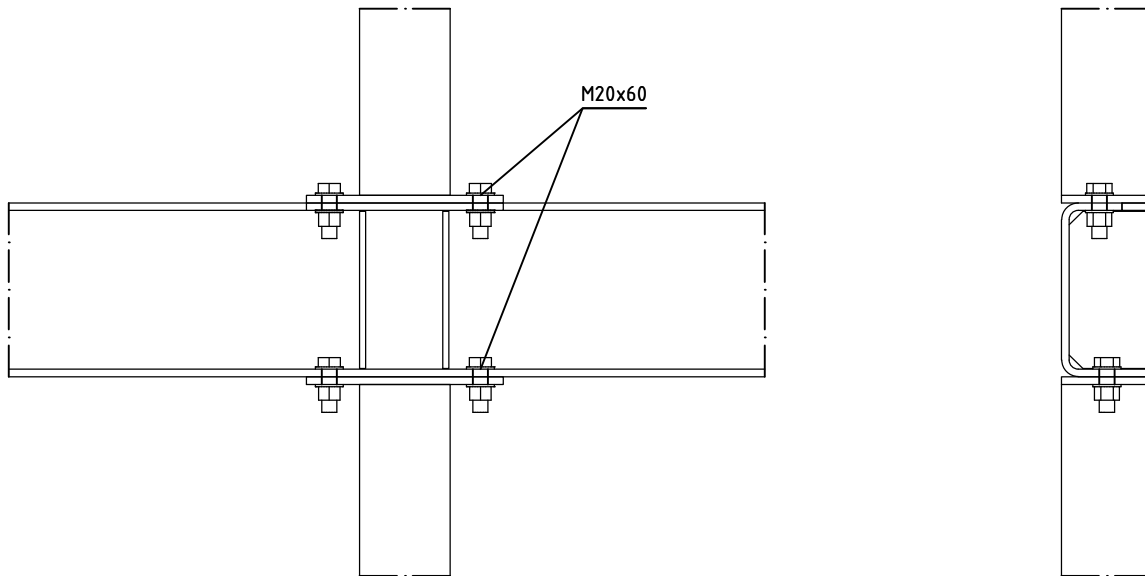
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Scale  1:5, 1:10, 1:25		Checked By  gabsab 26/10/2022		Index		
		Creation Date  2016-03-24		Drawing Nr  SD31-1		
		A				

SWT-C TO COLUMN



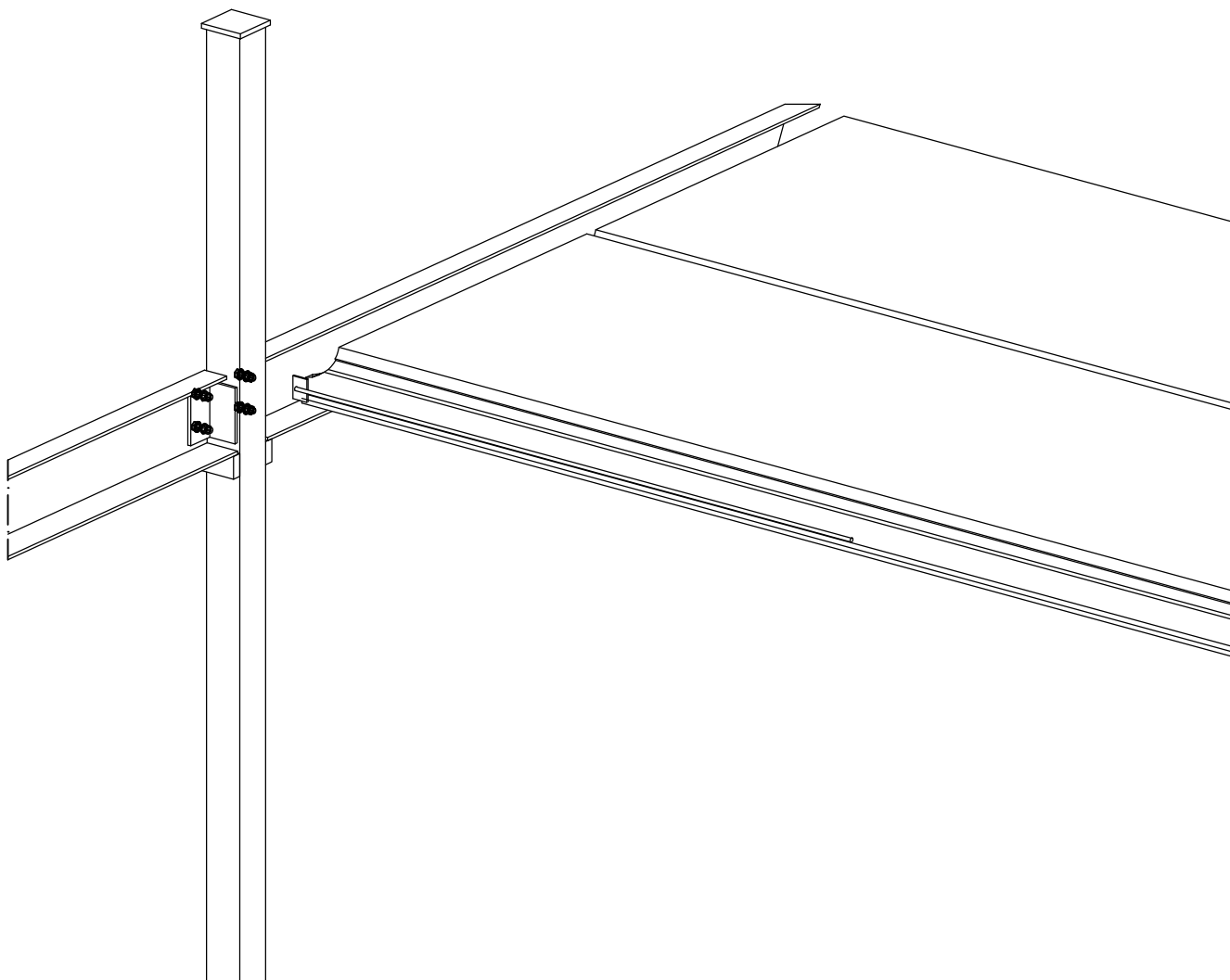
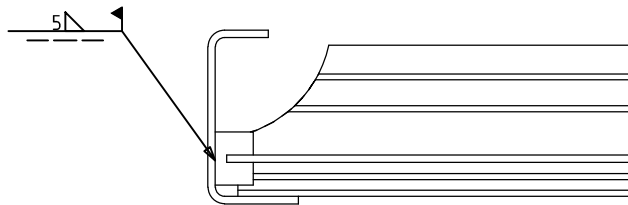
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		Creation Date	2015-02-13	Created By SWT
		Scale 1:10,1:20	Revision Date	Drawing Nr SD40-1

CONTINUOUS SWT-C TO COLUMN



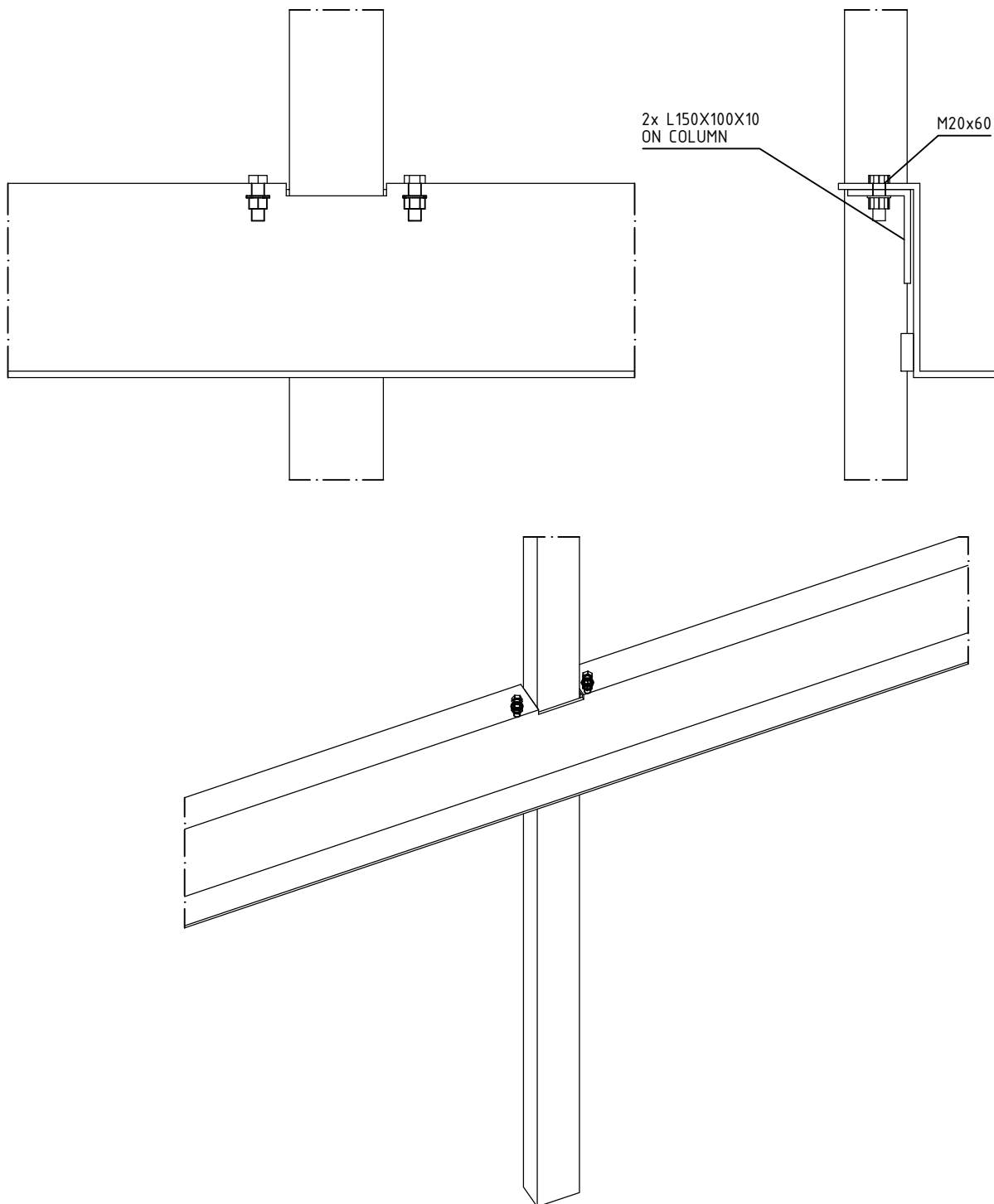
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Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		N° :	Status
Scale		Creation Date	Created By
1:10, 1:20		2015-02-15	SWT
Revision Date		Drawing Nr	Index
			SD40-2

# HOLLOW CORE ON SWT-C - WELDED REINFORCEMENT



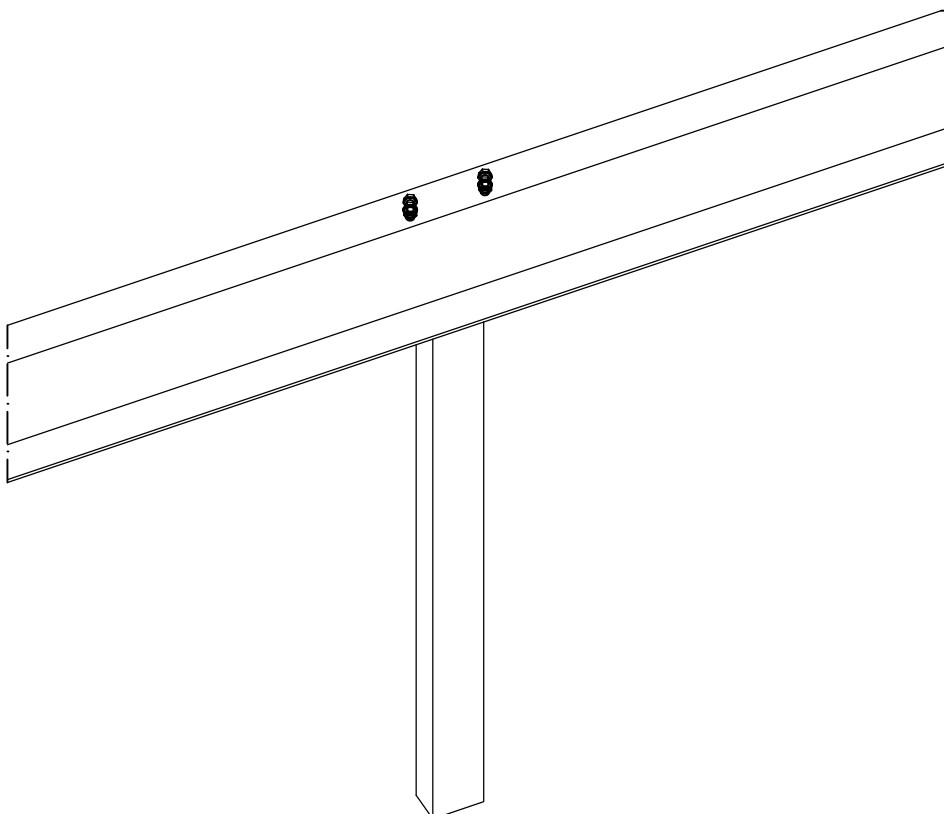
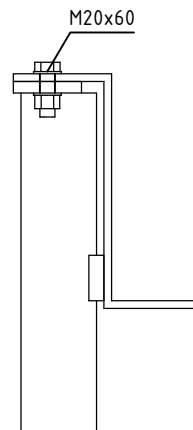
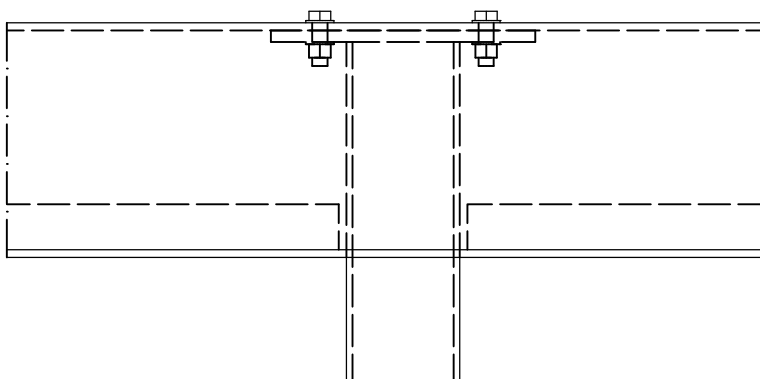
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	Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Project: Standard details SWT N° :
	Scale 1:10, 1:20		Creation Date 2015-02-15
	Revision Date		Created By SWT
		Drawing Nr	SD40-4
		Status	Index

# SWT-Z TO CONTINUOUS COLUMN



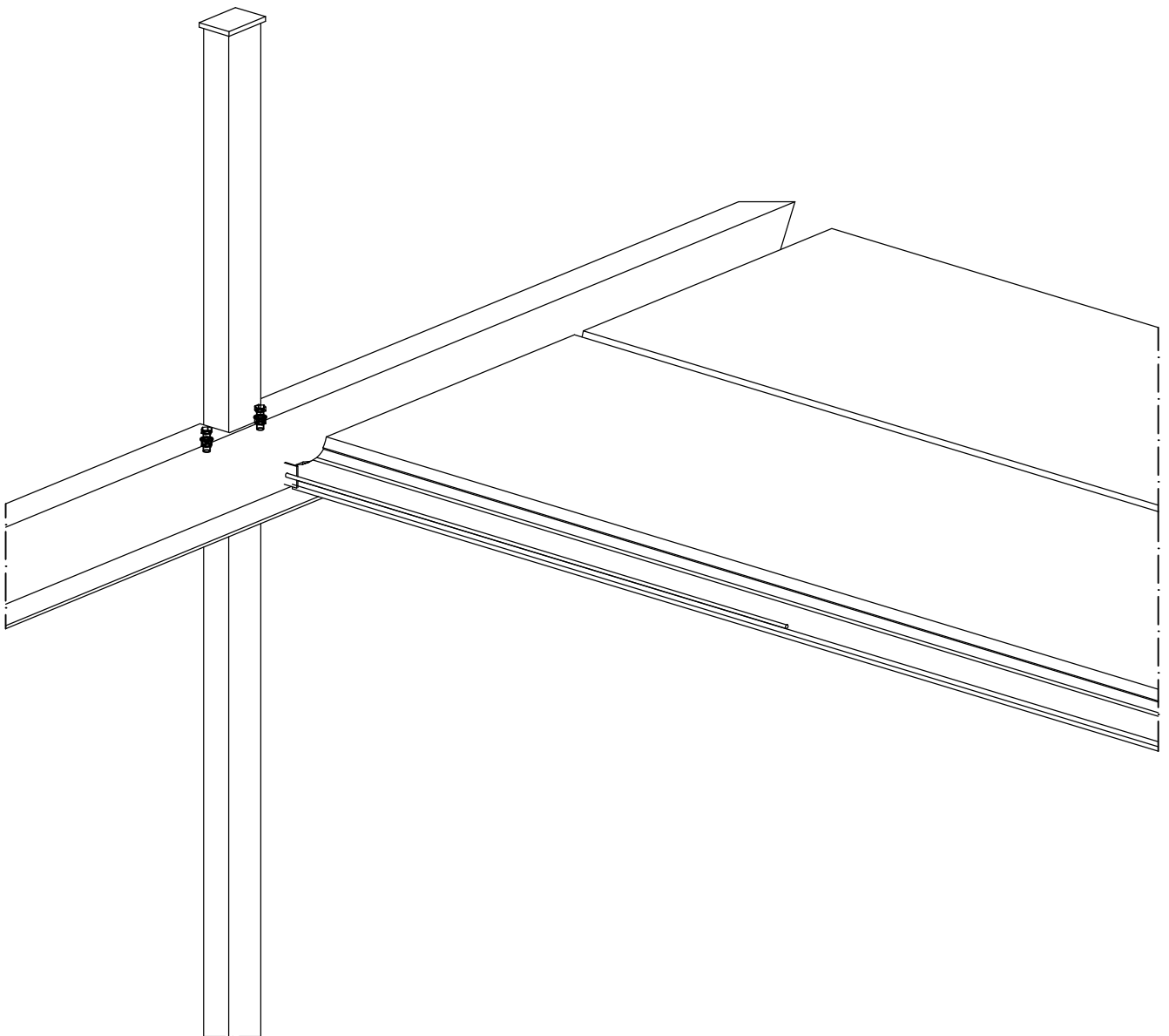
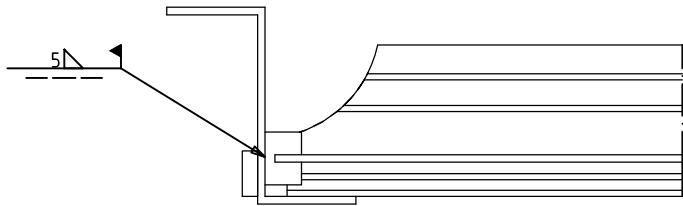
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Contact Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		<b>JOINT DETAIL</b> Project : Standard details SWT N° :	
Scale 1:10, 1:20		Creation Date 2015-02-13	Created By SWT
		Revision Date	Drawing Nr SD41-1
			Status Index

SWT-Z TO COLUMN TOP



Index	Author	Date	Description
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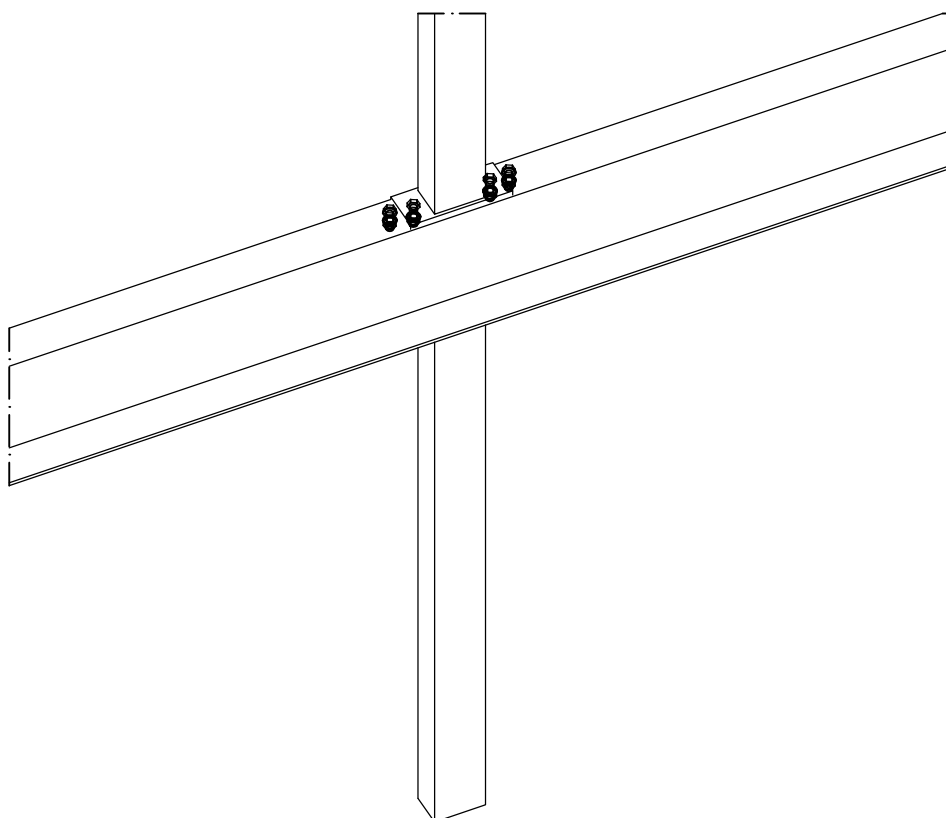
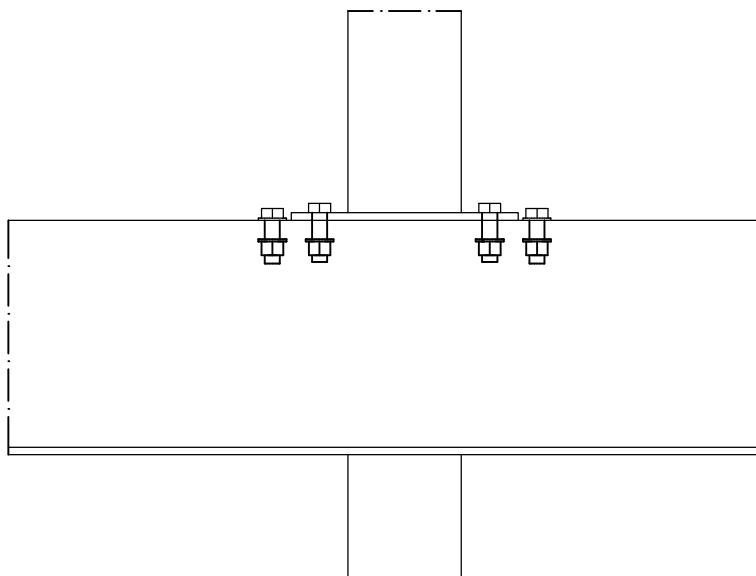
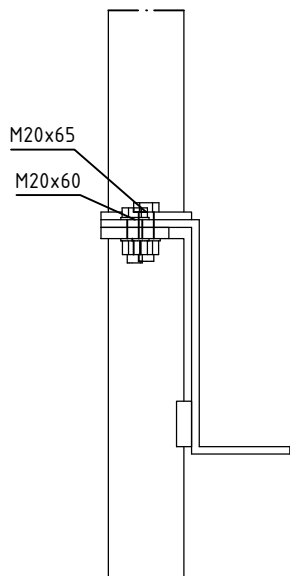
HOLLOW CORE ON SWT-Z - WELDED REINFORCEMENT



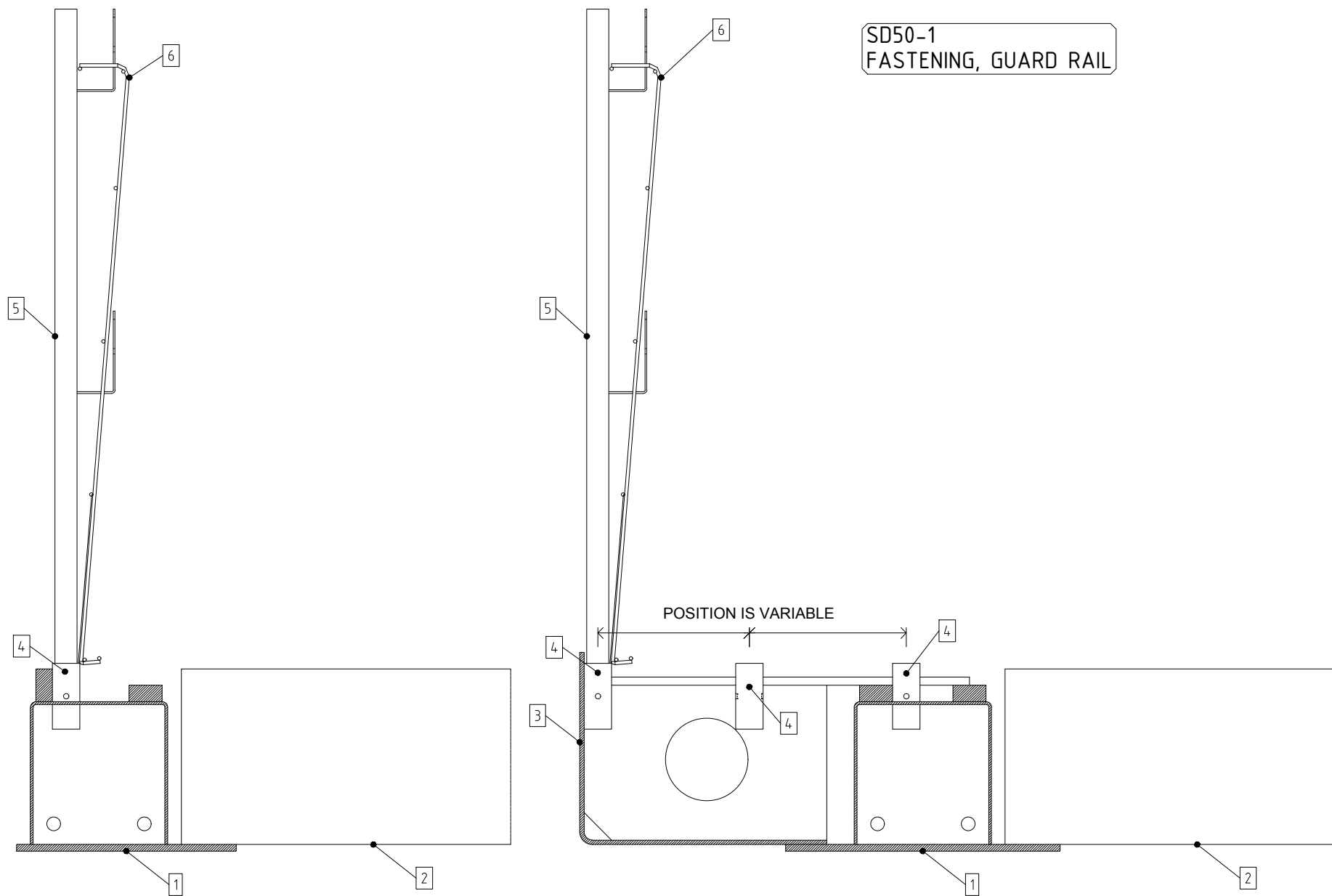
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Project : Standard details SWT		Creation Date	Created By
N° :		2015-02-15	SWT
Revision Date		Drawing Nr	Index
			SD41-4



# COLUMN ON SWT-Z



Index	Author	Date	Description
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		Creation Date	2015-03-21
Scale		1:10,1:20	Revision Date
		Drawing Nr	SD41-5
		Created By	SWT
		Index	



SD50-1  
FASTENING, GUARD RAIL

PART LIST

- 1: SWT-BEAM
- 2: CONCRETE FLOOR SLAB
- 3: FOLDED STEEL CASTING FORM ("BALJA")
- 4: FASTENING TUBE (RHS) FOR SAFETY RAILING. ATTACHED TO SWT-BEAM FROM FACTORY
- 5: SAFETY POST - NOT INCLUDED IN SWT DELIVERY
- 6: SAFETY STEEL MESH OR TIMBER GUARD RAIL - NOT INCLUDED IN SWT DELIVERY

INSTRUCTIONS

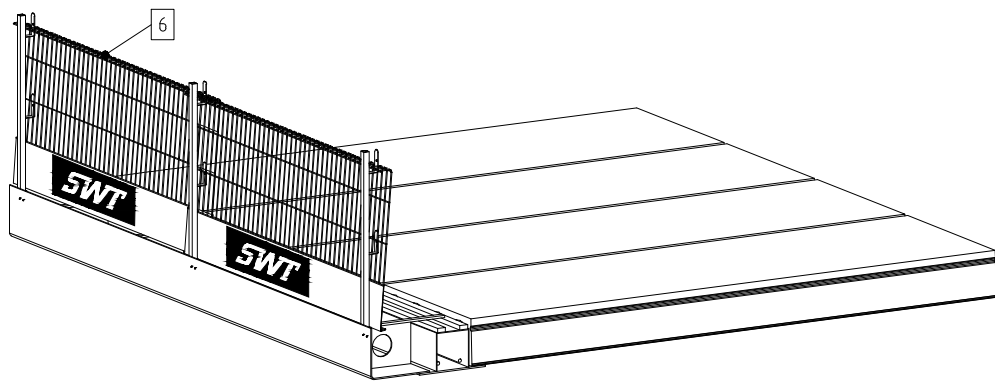
THE FASTENING TUBE (RHS) FOR SAFETY POSTS CAN BE PLACED IN SEVERAL POSITIONS ON THE SWT BEAM, AS INDICATED BY THE EXAMPLES.

**EXAMPLE A** SHOWS A NORMAL ONE-SIDED EDGE BEAM, WITH THE SAFETY POSTS FASTENED ON THE INSIDE OF THE BEAM. THE OUTER FLAT STEEL ON THE SWT-BEAM CAN BE ROTATED AS SHOWN, TO PROVIDE A STOPPER FOR THE CONCRETE FLOORING.

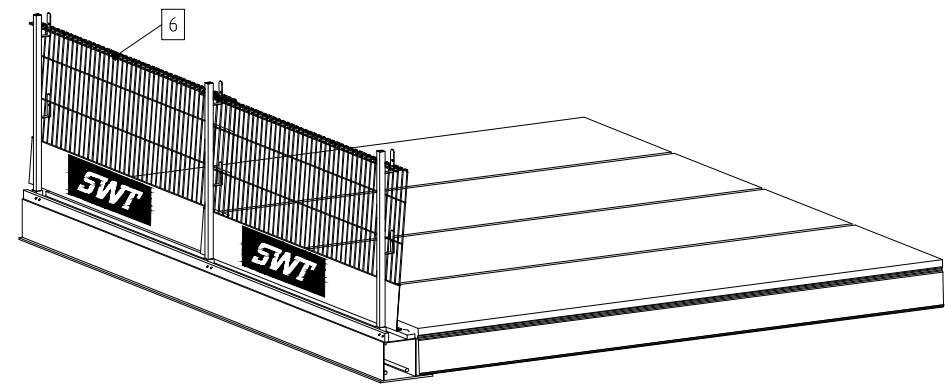
**EXAMPLE B** SHOWS THE SAME ATTACHMENT POSITION, BUT WITH A CAST FORM (A "BALJA"), WHICH EXTENDS THE FLOOR OUTSIDE THE LAST LINE OF BEAMS. BY POSITIONING THE SAFETY RAIL A BIT IN FROM THE EDGE OF THE FLOOR, IT WILL NOT INTERFERE WITH THE MOUNTING OF FACADE ELEMENTS.

IN THIS POSITION, IT'S POSSIBLE TO STAND ON THE INSIDE OF THE GUARD RAILING AND MOUNT THE FACADE ELEMENTS. ONCE THE FACADE IS IN PLACE, THE GUARD RAIL CAN SAFELY BE REMOVED.

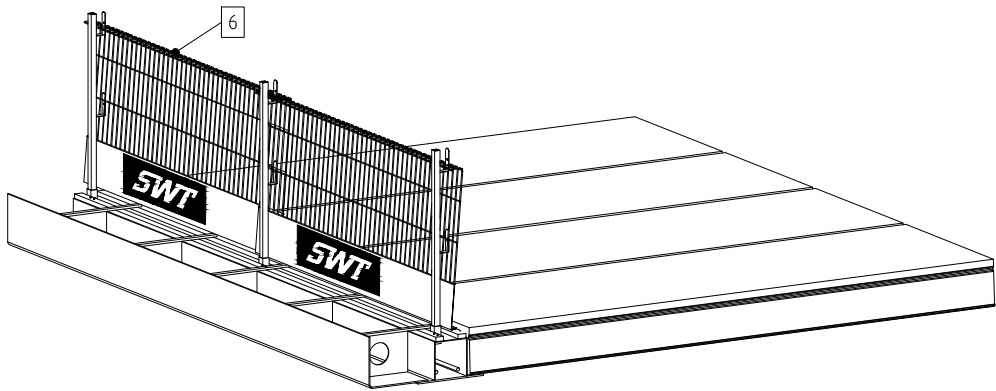
**EXAMPLE C** SHOWS THE GUARD RAILING POSITIONED AT THE EDGE OF THE "BALJA". THE PLACEMENT CAN BE VARIED ALONG THE ENTIRE WIDTH OF THE BALJA, DEPENDING ON THE REQUIREMENTS OF THE PROJECT.



EXAMPLE C: POSITIONED AT EDGE OF "BALJA"



EXAMPLE A: POSITIONED ON SWT EDGE BEAM



EXAMPLE B: POSITIONED WITH DISTANCE FROM FLOOR EDGE

2017-03-08	A	NW	SMALL ADJUSTMENTS OF GEOM. AND INFO	
Date	Index	Author	Description	
<div><div><div>A3CERT</div><div>1309901</div><div>1309294-2</div><div>CERTIFIED</div></div><div>CE</div><div><div>SWT</div></div></div>		STANDARD DETAIL		
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Contact		Project Leader		Status
Sweden: +46 10-550 7700 Denmark: +45 43-20 7070 Germany: +49 38207-77 5770 www.swt.eu		Created By		BH
		Checked By		
		MIKWID		Index
Scale	1:10, 1:50	Creation Date	2017-03-07	Drawing Nr
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