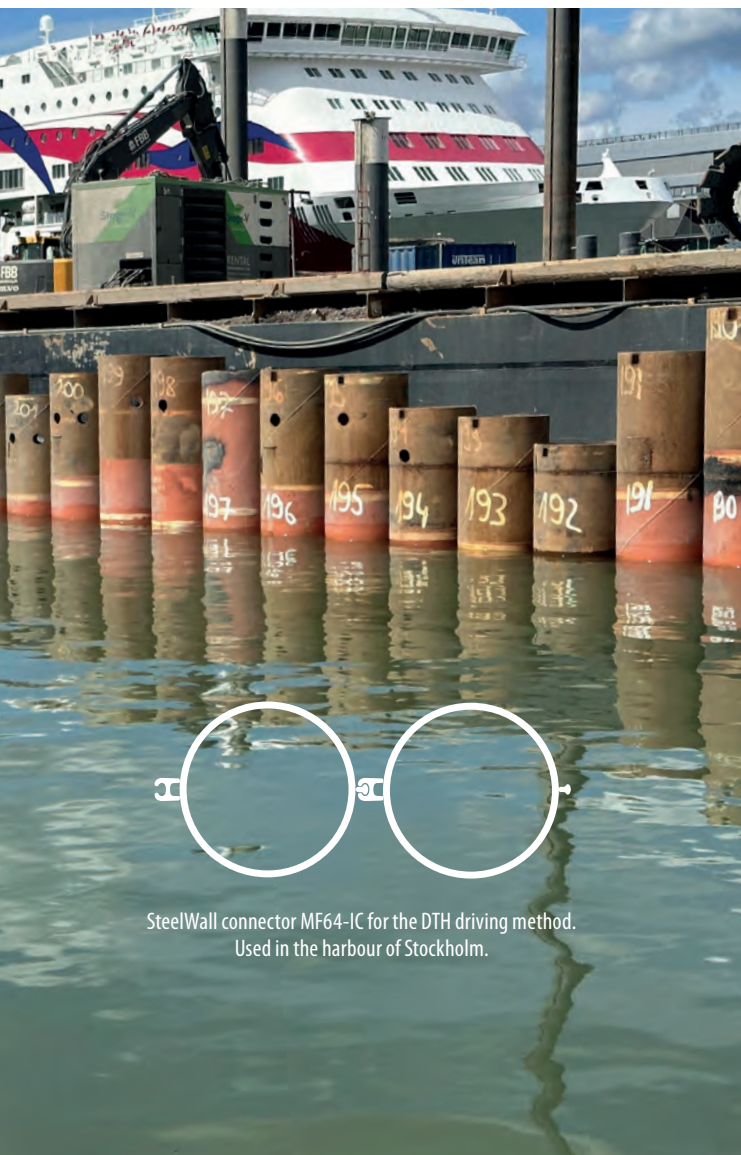


# SteelWall®

Connectors for steel sheet pile walls

2024



SteelWall connector MF64-IC for the DTH driving method.  
Used in the harbour of Stockholm.



<b>Larssen</b> Corner connectors	4
<b>Larssen</b> Omega corner connector	8
<b>Larssen</b> T connectors	8
<b>Larssen</b> Cross connector	10
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## ULTRA-S

For Larssen sheet piles (U, Z, Hat-type)

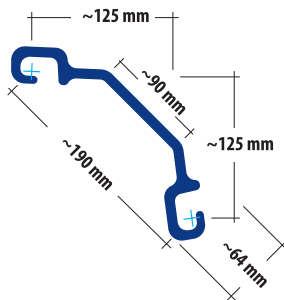
Steel grade: S355J2

Steel thickness: 9 mm

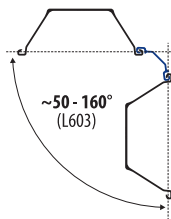
Standard length: 11.8 m +0/-100 mm

Weight: 25.3 kg/m

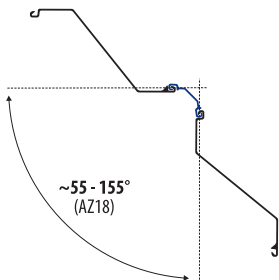
ULTRA-S corner section can be driven individually up to a length of 11.8 meters, provided that there are no weld joints.



ULTRA-S + Larssen U



ULTRA-S + Larssen Z

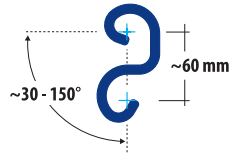




### LV20n

For Larssen sheet piles (U, Z, Hat-type)

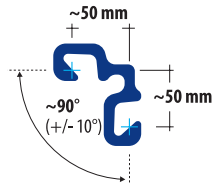
Steel grade: S355J2  
Steel thickness: 8 mm  
Standard lengths: 11.8 m, 14 m, 18 m  
Weight: 14.07 kg/m



### LLS90

For Larssen sheet piles (U, Z, Hat-type)

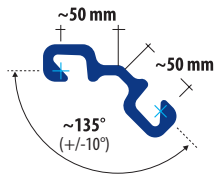
Steel grade: S355J2  
Steel thickness: 9 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 17.66 kg/m



### LLS135

For Larssen sheet piles (U, Z, Hat-type)

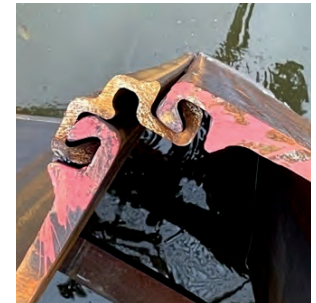
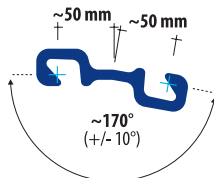
Steel grade: S355J2  
Steel thickness: 9 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 17.66 kg/m



### LLS170

For Larssen sheet piles (U, Z, Hat-type)

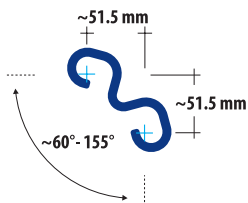
Steel grade: S355J2  
Steel thickness: 9 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 17.63 kg/m



## LVOn

For Larssen sheet piles (U, Z, Hat-type)

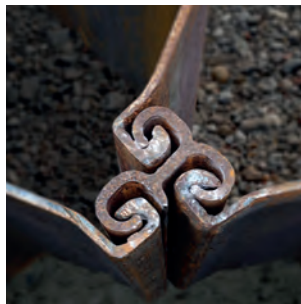
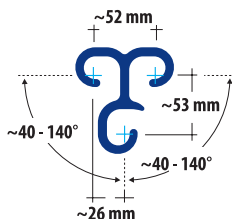
Steel grade: S355J2  
 Steel thickness: 8 mm  
 Standard lengths: 11.8 m, 13.40 m  
 Weight: 13.91 kg/m



## LOTn

For Larssen sheet piles (U, Z, Hat-type)

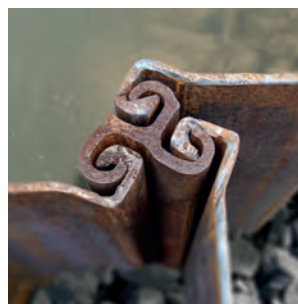
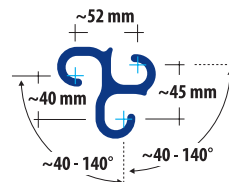
Steel grades: S355J2, S355GP  
 Steel thickness: 8 mm  
 Standard length: 11.8 m (S355J2)  
 Standard length: 13.8 m (S355GP)  
 Weight: 17.2 kg/m



## LTn

For Larssen sheet piles (U, Z, Hat-type)

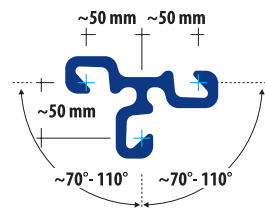
Steel grades: S355J2, S355GP  
 Steel thickness: 8 mm  
 Standard length: 11.8 m (S355J2)  
 Standard length: 13.8 m (S355GP)  
 Weight: 15.5 kg/m



## LLTS

For Larssen sheet piles (U, Z, Hat-type)

Steel grades: S355J2  
 Steel thickness: 9 mm  
 Standard length: 10.8 m  
 Weight: 26.2 kg/m

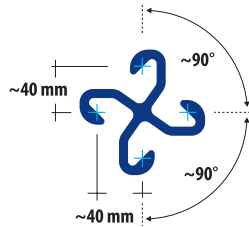


## Larssen Cross connector Cold Formed Corner connector and Weld-on

### L4S

For Larssen sheet piles  
(U, Z, Hat-type)

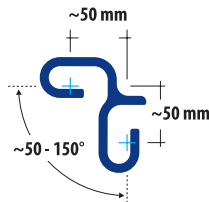
Steel grade: S355J2  
Steel thickness: 8 mm  
Standard length: 11.8 m  
Weight: 23.2 kg/m



### CF90

Corner connector for midsize  
cold-formed sheet piles

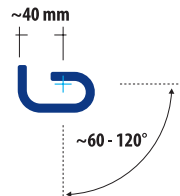
Steel grade: S355J2  
Steel thickness: 8 mm  
Standard length: 13.45 m  
Weight: 17.5 kg/m



### CF-Junction

Weld-on connector for midsize  
cold-formed sheet piles

Steel grade: S355J2  
Steel thickness: 8 mm  
Standard length: 11.8 m  
Weight: 8.87 kg/m

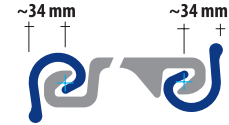


## Larssen Weld-on connectors

### LV22

For Larssen sheet piles  
(U, Z, Hat-type)

Steel grade: S355J2  
Steel thickness: 8 mm  
Standard length: 11.8 m  
Weight: 8.02 kg/m



### L8

For Larssen sheet piles  
(U, Z)\*

Steel grade: S355J2  
Steel thickness: 9.5 mm  
Standard length: 11.8 m  
Weight: 8.47 kg/m



### LPB100-9A

For Larssen sheet piles  
(U, Z, Hat-type)\*

Steel grade: S355J2  
Steel thickness: 9 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 9.05 kg/m



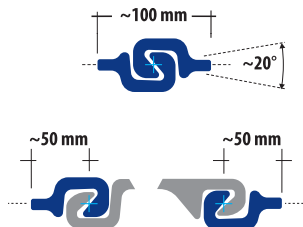
\* Exceptions are Russian L4/L5 and Japanese SP-IVw sheet piles.  
The Japanese SP-Ilw fits with all 8 and 9 mm thick SteelWall connectors.

# Connectors for pipe pile, H-pile and combined steel walls

## LPB100-10

For Larssen sheet piles (U, Z)\*

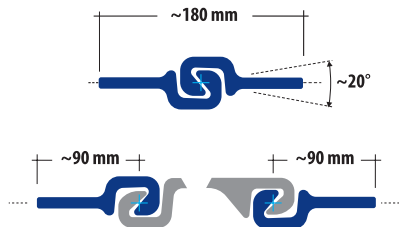
Steel grade: S355J2  
Steel thickness: 10 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 9.9 kg/m



## LPB180-10

For Larssen sheet piles (U, Z)\*

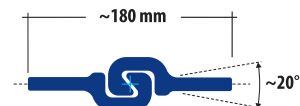
Steel grades: S355J2, S430GP  
Steel thickness: 10 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 12.84 kg/m



## LPB180-12

Not suitable for Larssen sheet piles

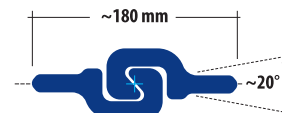
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 14.5 kg/m  
Max. tensile strength: 1,502 kN/m



## LPB180-16

Not suitable for Larssen sheet piles

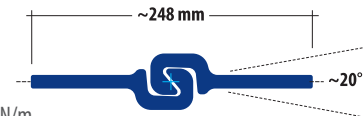
Steel grade: S355J2  
Steel thickness: 16 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 22.4 kg/m  
Max. tensile strength: please see LPB300-16



## LPB248-12

Not suitable for Larssen sheet piles

Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 18.26 kg/m  
Max. tensile strength: ~1,500 kN/m



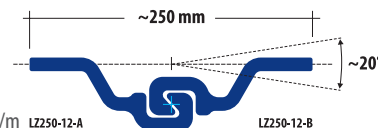
Connector is only manufactured to order.



## LZ250-12A, LZ250-12B

Not suitable for Larssen sheet piles

Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 19.48 kg/m each  
Max. tensile strength: 1,200 kN/m



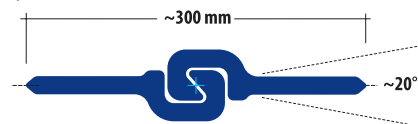
Connectors are only manufactured to order.



## LPB300-16

Not suitable for Larssen sheet piles

Steel grade: S355J2  
Steel thickness: 16 mm  
Standard lengths: 8 m, 11.8 m  
Weight: 29.65 kg/m  
Max. tensile strength: 1,828 kN/m

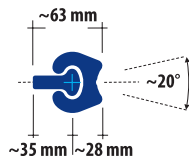




## MF High tensile connectors for pipe pile and H-pile steel walls

### MF63

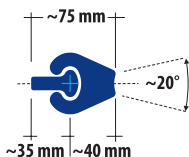
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M35: 4.76 kg/m  
Weight F28: 10.7 kg/m  
Max. tensile strength: 2,552 kN/m (FEM)



000 III

### MF75

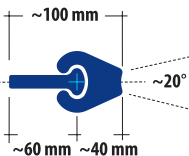
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M35: 4.76 kg/m  
Weight F40: 14.28 kg/m  
Max. tensile strength: 3,419 kN/m



000 III

### MF100

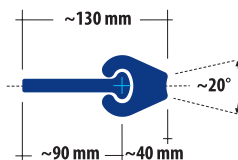
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M60: 6.9 kg/m  
Weight F40: 14.28 kg/m  
Max. tensile strength: 3,419 kN/m



000 III

### MF130

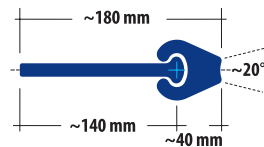
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M90: 9.76 kg/m  
Weight F40: 14.28 kg/m  
Max. tensile strength: 3,419 kN/m



000 III

### MF180a

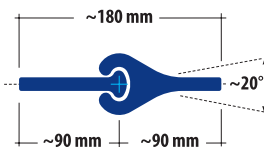
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M140: 14.77 kg/m  
Weight F40: 14.28 kg/m  
Max. tensile strength: 3,419 kN/m



000 III

### MF180b

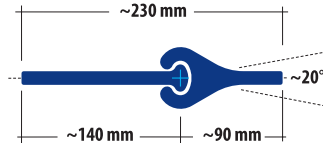
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M90: 9.76 kg/m  
Weight F90: 18.42 kg/m  
Max. tensile strength: 2,128 kN/m



000 III

### MF230

Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M140: 14.77 kg/m  
Weight F90: 18.42 kg/m  
Max. tensile strength: 2,128 kN/m



000 III





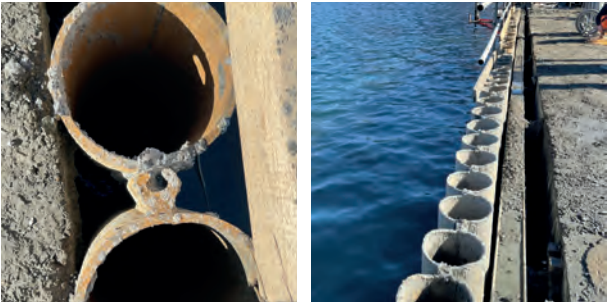
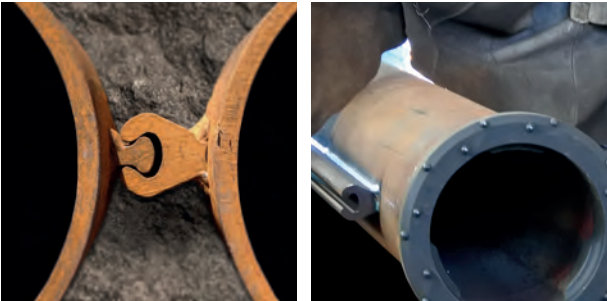
# MF

## High tensile connectors for DTH driving method

### MF64

Exclusively for DTH driving method

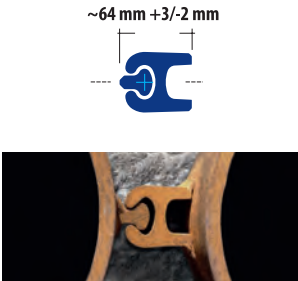
Steel grade: S355J2  
Steel thickness: 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M22: 3.42 kg/m  
Weight F40: 14.28 kg/m  
Max. tensile strength: 3,419 kN/m



### MF64-IC

Exclusively for DTH driving method

Steel grade: S355J2  
Steel thickness: 10 - 12 mm  
Standard lengths: 8 m, 11.8 m  
Weight M22: 3.42 kg/m  
Weight F40-IC: 13.55 kg/m  
Max. tensile strength: 3,164 kN/m



# MF64

## High tensile connectors Comparative tensile test with WOM-S/WOF-S

### MF64

~64 mm +2/-4 mm



Test setup



After testing, failure through deformation

### WOM-S / WOF-S

~62 mm  
~22 mm ~40 mm



Sample no.	Maximum force $F_m$		Length of the clutch bar		Length-related maximum resilience		
	[kN]	[lb]	[mm]	[in]	[kN/m]	[t/m]	[kip/in]
P1Z1 (WOM-S/WOF-S)	111,97	25.171,83	50,5	1,99	2.217,23	226,09	12,66
P2Z1 (MF64, S355)	168,92	37.974,69	49,4	1,94	3.419,43	348,69	19,53

### Conclusion

It is proven that the MF64 connectors can take more than 50% more tensile force than the WOM-S/WOF-S connectors.  
This is very important information for pipe pile steel wall applications in the DTH driving method.

Please see/download the complete test report from our website: [steelwall.eu](http://steelwall.eu)

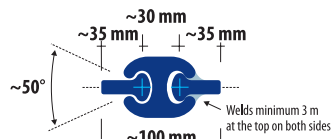
# MDF

## High tensile connectors for pipe pile and H-pile steel walls

MF-PIPE

### MDF100

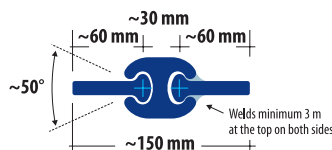
Steel grades: S355J2 (M35), S430GP (DF)  
Steel thickness: 12 mm, Standard lengths: 8 m, 11.8 m  
Weight M35: 4.76 kg/m, Weight DF: 14.62 kg/m  
Max. tensile strength: 3.271 kN/m (FEM)



III

### MDF150

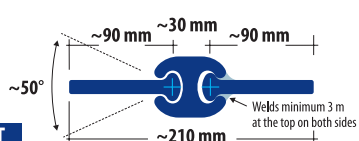
Steel grades: S355J2 (M60), S430GP (DF)  
Steel thickness: 12 mm, Standard lengths: 8 m, 11.8 m  
Weight M60: 6.9 kg/m, Weight DF: 14.62 kg/m  
Max. tensile strength: 3.271 kN/m (FEM)



III

### MDF210

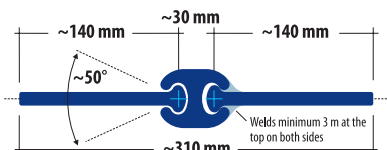
Steel grades: S355J2 (M90), S430GP (DF)  
Steel thickness: 12 mm, Standard lengths: 8 m, 11.8 m  
Weight M90: 9.76 kg/m, Weight DF: 14.62 kg/m  
Max. tensile strength: 3.271 kN/m (FEM)



III

### MDF310

Steel grades: S355J2 (M140), S430GP (DF)  
Steel thickness: 12 mm, Standard lengths: 8 m, 11.8 m  
Weight M140: 14.77 kg/m, Weight DF: 14.62 kg/m  
Max. tensile strength: 3.271 kN/m (FEM)



III

Plan your projects directly with the most cost-effective configurations for pipe sheet piling with our

## MF-Pipe Selection Lists

Sorted by increasing moment of resistance and increasing weight.

Ø2130 pipe spacing: 250 mm

Code

connector	W <sub>y</sub> discontin cm/m	G <sub>res</sub> kg/m <sup>3</sup>	OD mm	t mm
180	22182	434	1700.0	19
130	22788	443	1700.0	19
130	24247	448	1800.0	20
180	24860	457	1800.0	20
130	25504	467	1800.0	21
180	26790	472	1900.0	21
130	27690	481	1900.0	21
130	28172	491	1900.0	21
130	29985	496	2000.0	22
180	30673	505	2000.0	22
130	31393	515	2000.0	22
180	33083	519	2100.0	23
180	33809	529	2100.0	23
130	34567	539	2100.0	23
130	36333	543	2200.0	24
180	37096	553	2200.0	24
130	37892	563	2200.0	24
130	39735	567	2300.0	25
130	41678	569	2400.0	25
180	43621	571	2500.0	25
180	44435	580	2500.0	25
130	45280	589	2500.0	25
180	46157	602	2500.0	26
130	47034	612	2500.0	26

System

b system mm	I <sub>y,flange</sub> cm <sup>4</sup> /m	S355J2 kNm/m	S460MH kNm/m	X60 kNm/m	X65 kNm/m
1.880	1885447	7875	10204	9205	9986
1.830	1936962	8090	10482	9457	1025
2.030	2182271	8608	11154	10063	1091
1.980	2237379	8825	11435	10317	1118
1.930	2295342	9054	11723	10584	1147
2.130	2568821	9599	12439	11222	1216
2.080	2630573	9810	12738	11491	1246
2.030	2695366	10072	13051	11774	1276
2.230	2998543	10645	13793	12444	1349
2.180	3067317	10889	14110	12729	1380
2.130	3139320	11145	14441	13028	1412
2.330	3473718	11744	15218	13729	1488
2.280	3549896	12002	15552	14031	1521
2.230	3629490	12271	15901	14345	1555
2.430	3996634	12898	16713	15078	1635
2.380	4080597	13160	17064	15395	1660
2.330	4168163	13452	17431	15725	1705
2.530	4559577	14106	18278	16490	1788
2.630	5001302	14796	19172	17296	1875
2.730	5453644	15486	20066	18103	1963
2.680	5554373	15774	20440	18441	1999
2.630	5699949	16074	20829	18791	2037
2.680	5769997	16386	21232	19155	2077
2.630	5879285	16697	21636	19519	2116

max M<sub>dis</sub> of max R<sub>dis</sub> or max R<sub>dis</sub> and s<sub>dis</sub>

Please find more information as well as the MF-Pipe Selection Lists (PDF/download) on our website:

**MF-Pipe.com**

# SteelWall®

Connectors for steel sheet pile walls



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Please find more information by visiting:  
[www.steelwall.eu](http://www.steelwall.eu)