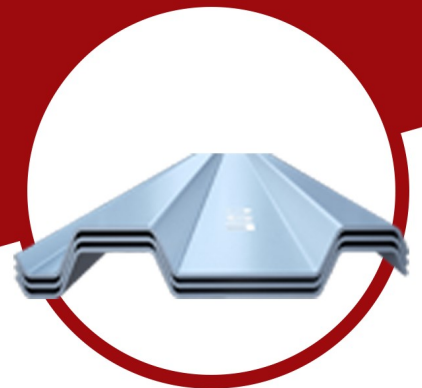
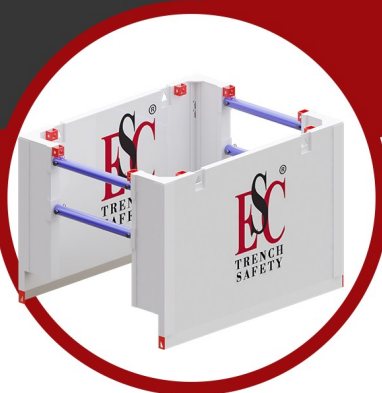


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PRODUCTS TO THE GLOBAL MARKET**

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ESC[®]
**TRENCH
SAFETY**

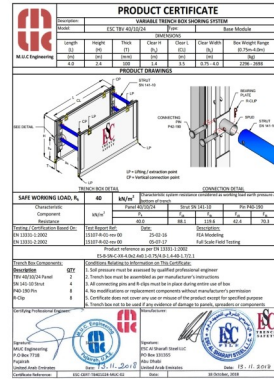
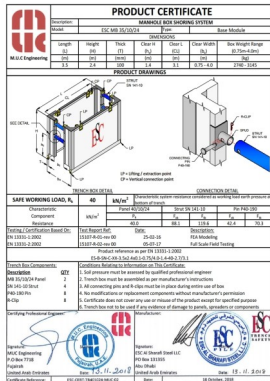
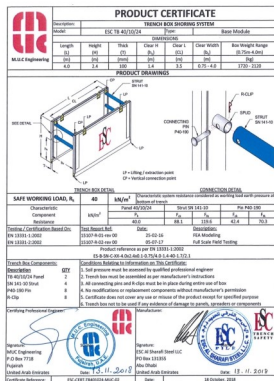
TRENCH SAFETY CATALOGUE

2019/2020 Edition

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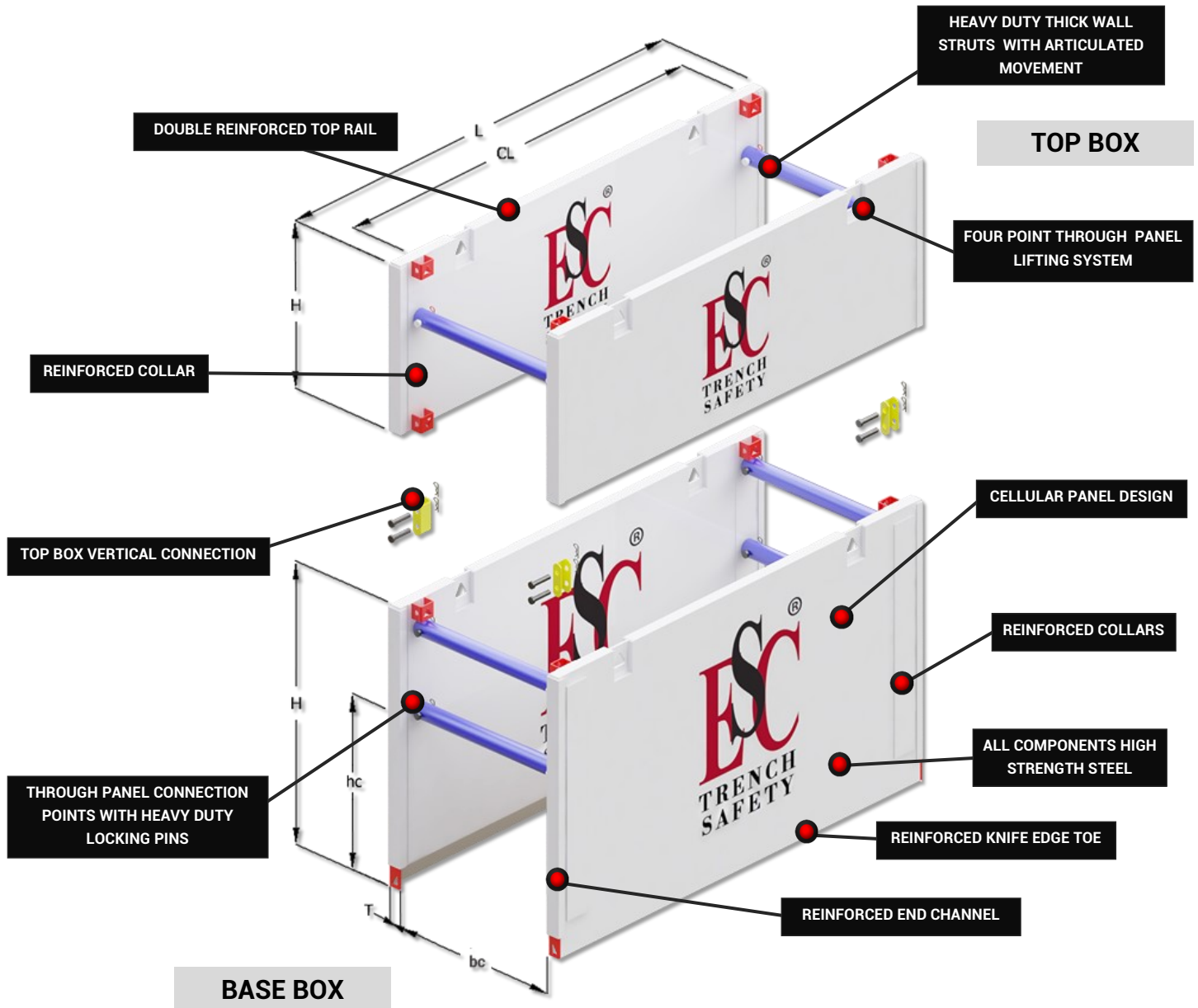
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PRODUCT CERTIFICATES & CONFORMANCES



ESC HEAVY DUTY TRENCH BOX RANGE

BUILT TO LAST ROBUST CELLULAR DESIGN



FEATURES

- ✓ Design and manufactured in accordance with EN 13331-1 and EN 13331-2.
- ✓ 3rd party product certificates available for all products.
- ✓ Heavy duty robust design.
- ✓ Flat pack delivery .
- ✓ Fixed or adjustable struts available in any required length .
- ✓ Custom box sizes are available.

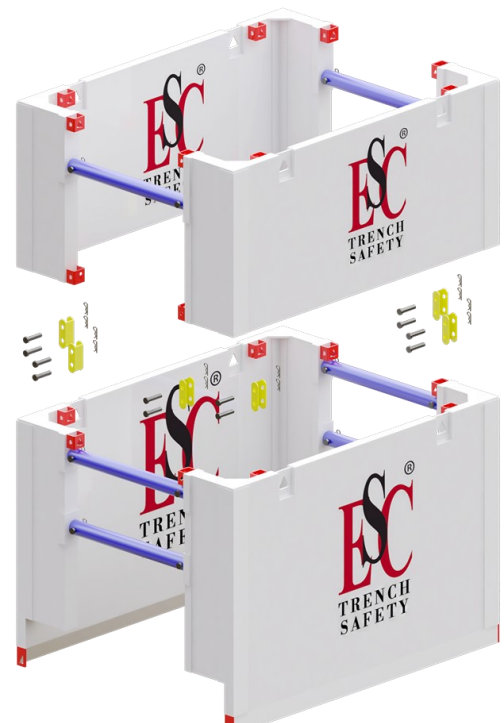
SAFETY GUIDE

- ✓ Soil pressure must be assessed by qualified professional engineer.
- ✓ Assembly as per ESC procedures
- ✓ Recommended maximum depth 5.6m.

ESC TRENCH BOXES



STANDARD TRENCH BOX								
Type	Model	Box Length L (m)	Box Height H (m)	Panel Thickness T (mm)	Clear Height h _c (m)	Clear Length CL (m)	Safe Working Load (kPa)	Panel Weight (kg)
Top Box	TT40/10/16	4.0	1.6	100	-	3.6	40	702
Base Box	TB40/10/24	4.0	2.4	100	1.47	3.6	40	1007



MANHOLE TRENCH BOX								
Type	Model	Box Length L (m)	Box Height H (m)	Panel Thickness T (mm)	Clear Height h _c (m)	Clear Length CL (m)	Safe Working Load (kPa)	Panel Weight (kg)
Top Box	MT25/10/16	2.5	1.6	100	-	3.2	40	864
	MT35/10/16	3.5	1.6	100	-	3.2	40	1117
Base Box	MB25/10/24	2.5	2.4	100	1.47	3.2	40	1007
	MB35/10/24	3.5	2.4	100	1.47	3.2	40	1324



ADJUSTABLE TRENCH BOX								
Type	Model	Box Length L (m)	Box Height H (m)	Panel Thickness T (mm)	Clear Height h _c (m)	Clear Length CL (m)	Safe Working Load (kPa)	Panel Weight (kg)
Top Box	TTV40/10/16	4.0	1.6	100	-	3.6	48	783
Base Box	TBV40/10/24	4.0	2.4	100	1.47	3.6	40	1100
					1.09		44	
					0.70		48	

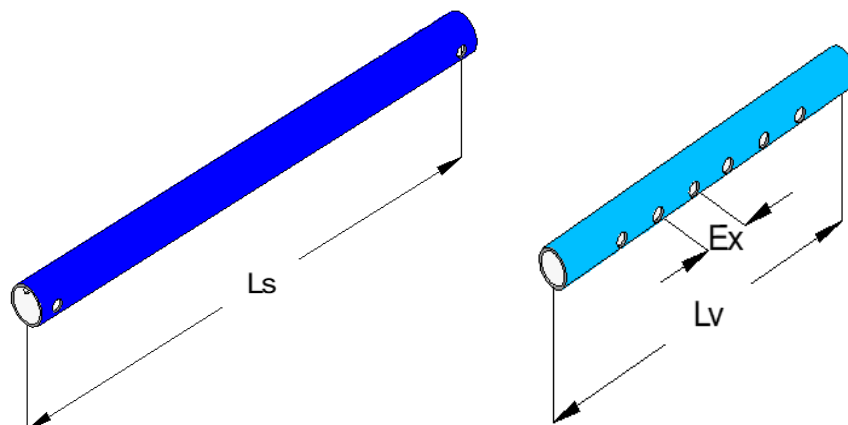
* Trench Boxes of other sizes and specifications are available on request.

STRUTS

SN SERIES

SI SERIES

FIXED LENGTH STRUTS—SN SERIES		
Model	Length Ls (mm)	Weight (per strut) (kg)
SN 50	500	20.14
SN 60	600	24.17
SN 80	800	32.22
SN 100	1000	40.28
SN 120	1200	48.34
SN 160	1600	64.45
SN 180	1800	72.50
SN 200	2000	80.56
SN 220	2200	88.62
SN 250	2500	100.70
SN 300	3000	120.84
SN 350	3500	140.98
SN 400	4000	161.12

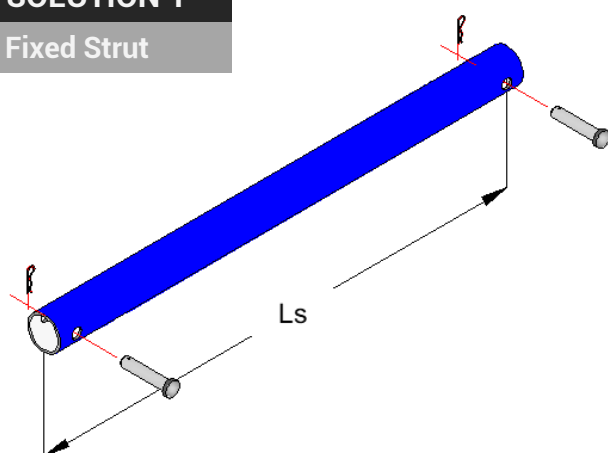


VARIABLE LENGTH STRUTS—SI SERIES						
Model	Length Lv (mm)	Extension Length Ex				Weight (per strut) (kg)
		MIN (mm)	MAX (mm)	Increments (nos)	Increment Length (mm)	
SI 70	700	0	300	2	150	15.6
SI 120	1200	0	600	4	150	26.8
SI 160	1600	0	800	4	200	35.7
SI 200	2000	0	1200	6	200	44.6

SOLUTIONS

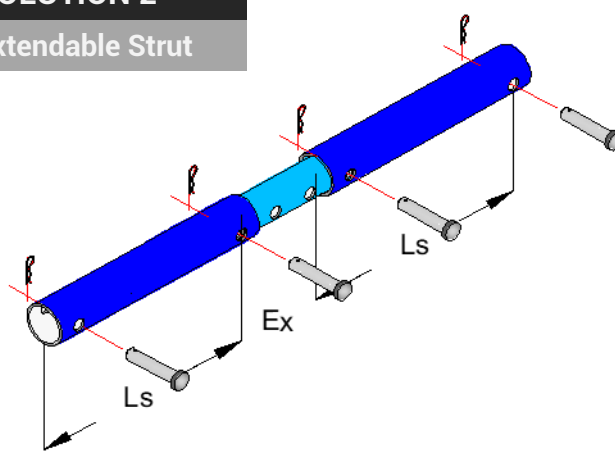
SOLUTION 1

Fixed Strut



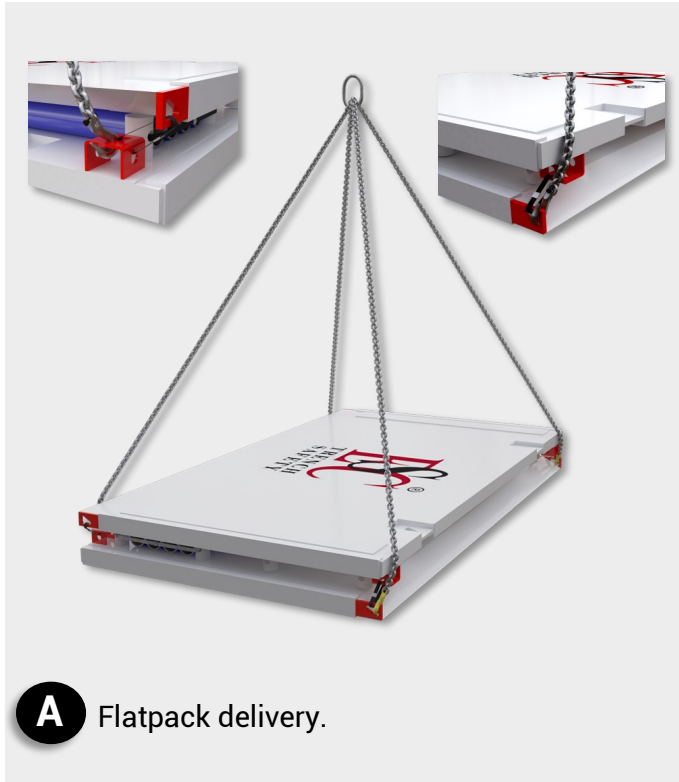
SOLUTION 2

Extendable Strut

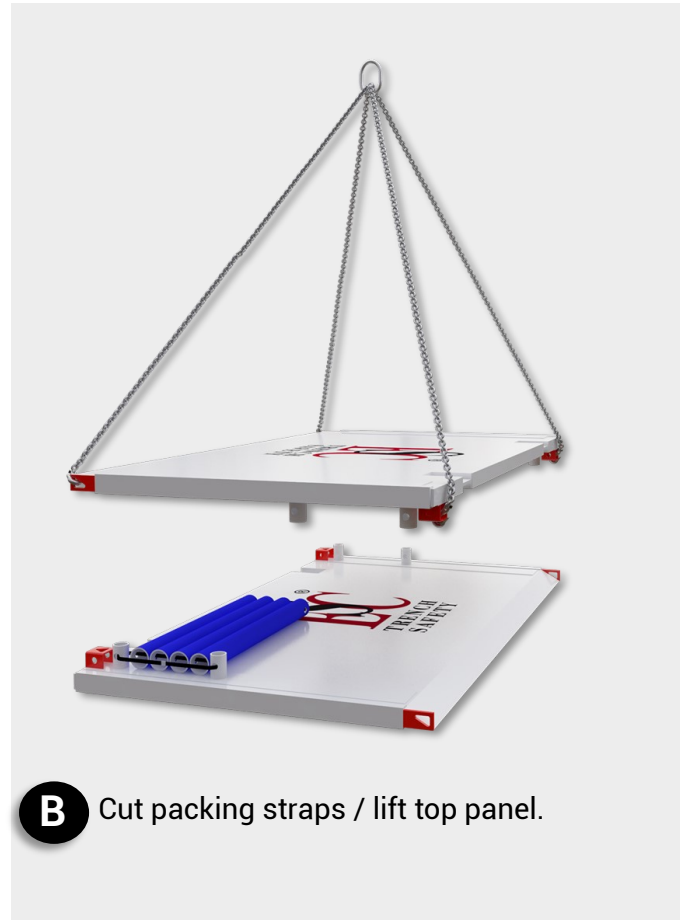


VARIABLE LENGTH STRUT COMBINATIONS						
SN Strut	SI Strut	Extension Length Ex				Weight (per strut) (kg)
		MIN (mm)	MAX (mm)	Increments (nos)	Increment Length (mm)	
SN 50	SI 70	1000	1300	2	150	55.88
SN 60	SI 70	1200	1500	2	150	63.94
SN 80	SI 120	1600	2200	4	150	91.25
SN 100	SI 160	2000	2800	4	200	116.26
SN 120	SI 200	2400	3600	6	200	141.27

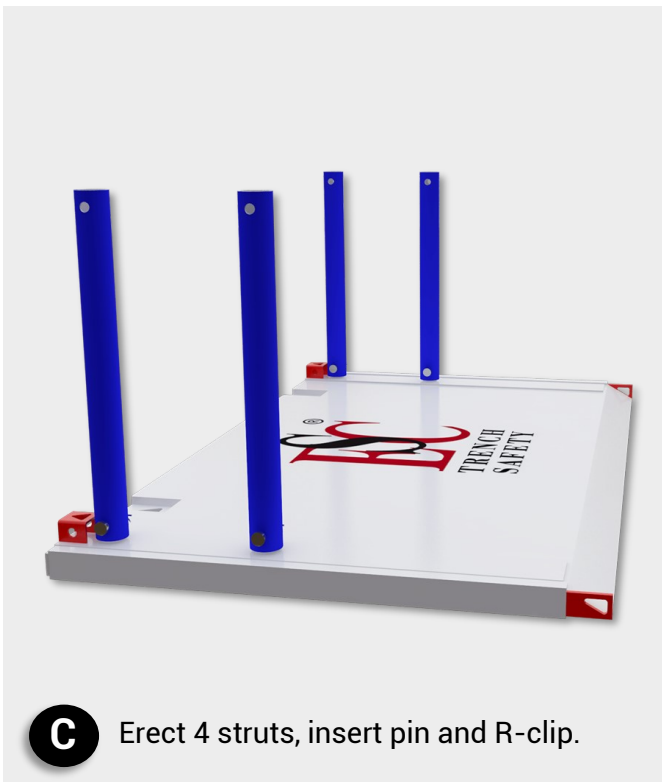
ASSEMBLY



A Flatpack delivery.



B Cut packing straps / lift top panel.



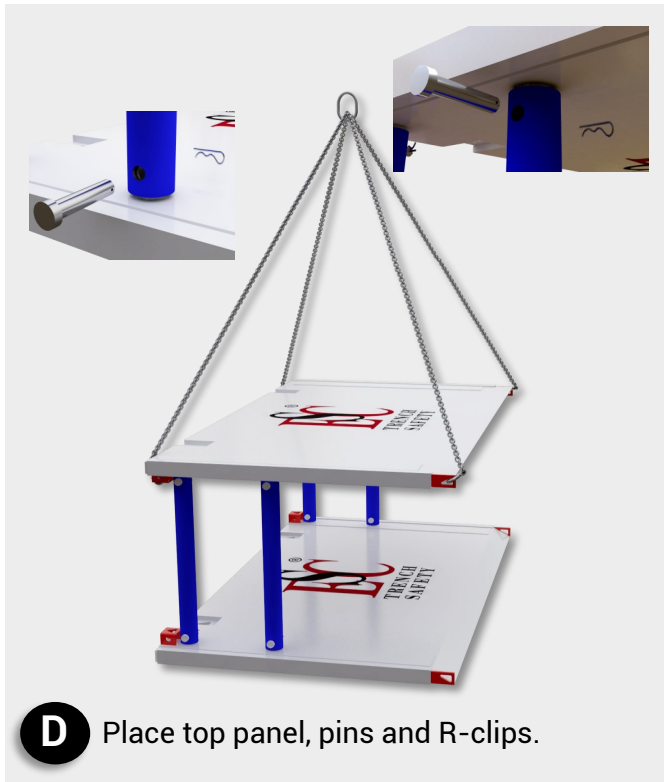
C Erect 4 struts, insert pin and R-clip.



SAFETY TIPS

- ✓ Remember to inspect lifting points prior to every lifting operation and ensure that all personnel are well informed of the operation.
- ✓ Ensure all pins and retaining clips are correctly fitted.
- ✓ Use only certified lifting slings.
- ✓ Assemble on flat ground.

GUIDE



D Place top panel, pins and R-clips.

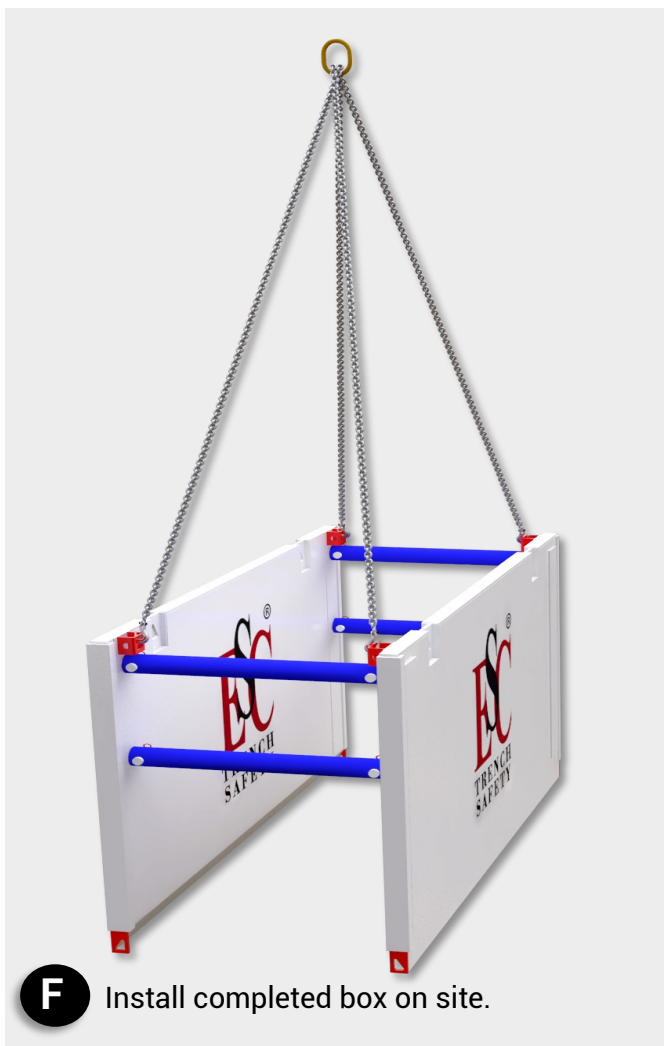


SAFETY TIPS

- ✓ Do not allow personnel to enter the box while excavator is moving the trench box.
- ✓ Always ensure the box is evenly supported by the ground to avoid boxes becoming unstable.
- ✓ Do not use box if panel, pins or struts are damaged.
- ✓ Use only components supplied by ESC.



E Rotate box.

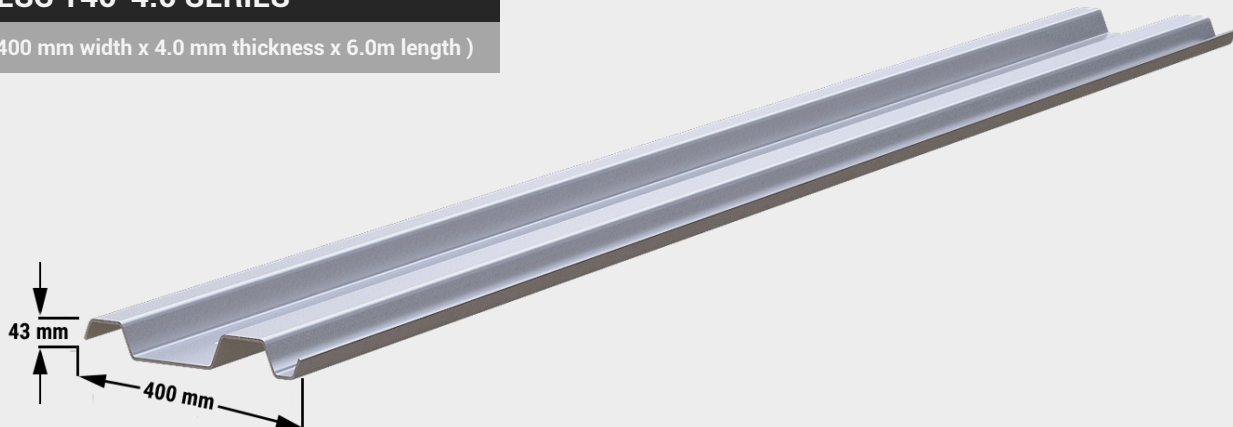


F Install completed box on site.

ESC COMMON TRENCH SHEETS

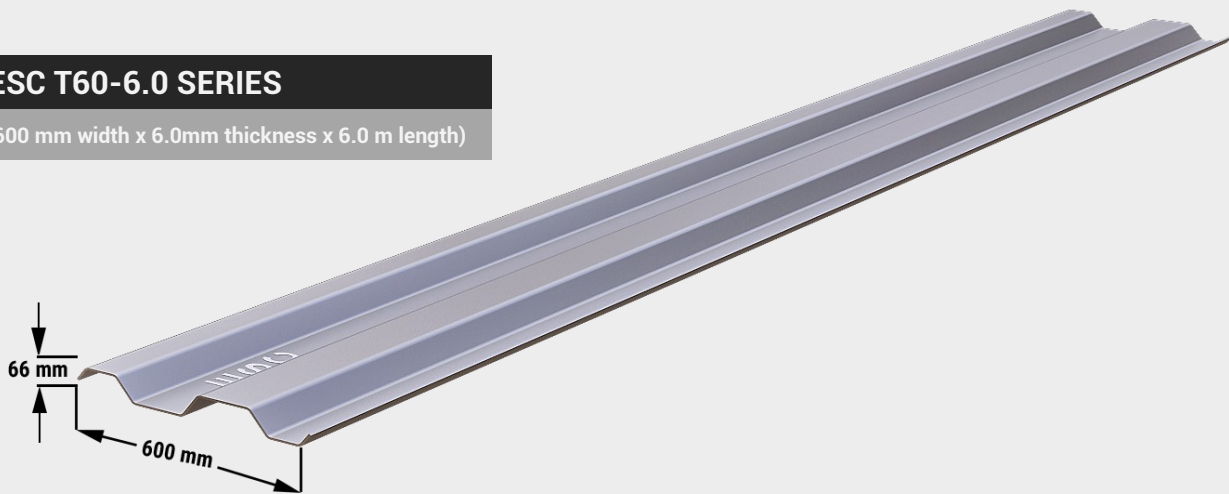
ESC T40-4.0 SERIES

(400 mm width x 4.0 mm thickness x 6.0m length)



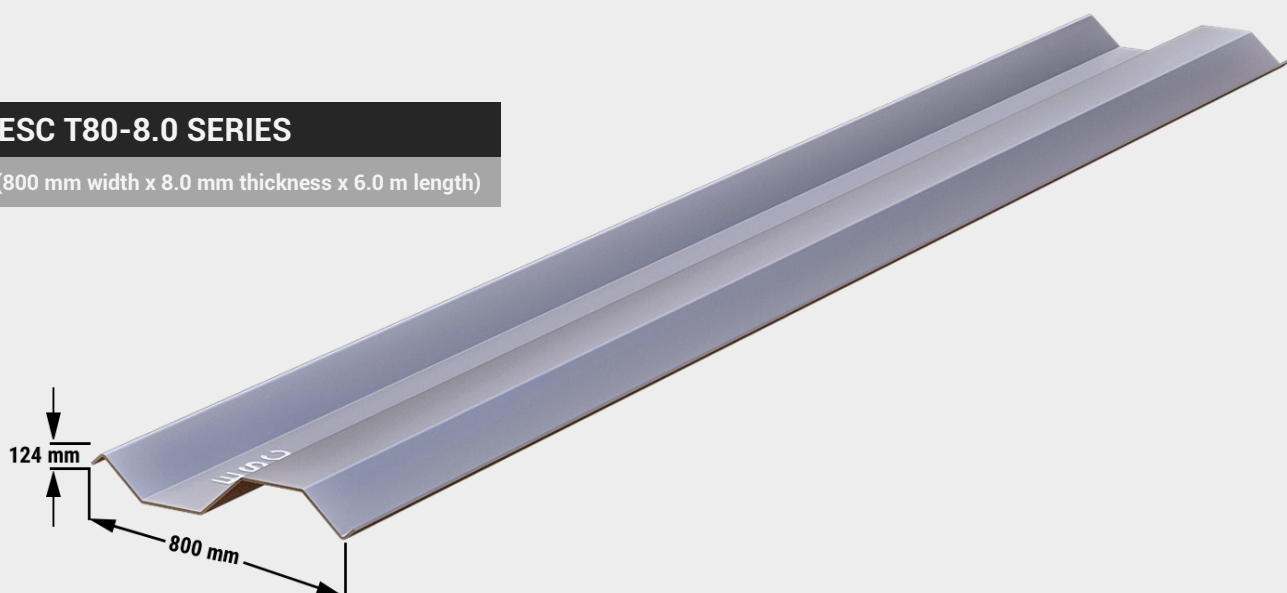
ESC T60-6.0 SERIES

(600 mm width x 6.0mm thickness x 6.0 m length)



ESC T80-8.0 SERIES

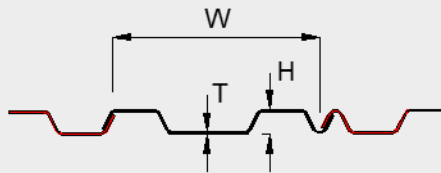
(800 mm width x 8.0 mm thickness x 6.0 m length)



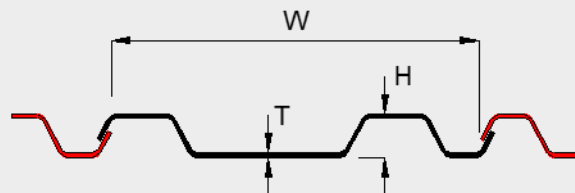
Trench Sheets of other sizes and specifications are available on request.

ESC TRENCH SHEETS SPECIFICATIONS

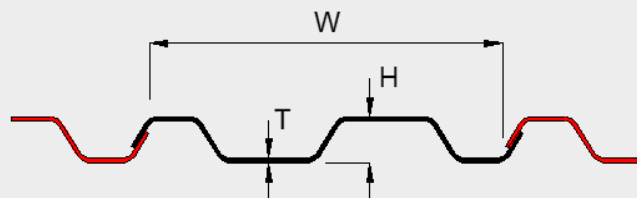
Section	Width W (mm)	Height H (mm)	Thickness T (mm)	Unit Weight		Section Modulus (cm ³)	Moment of Inertia (cm ⁴)
				Section (kg/m)	Wall (kg/sq.m)		



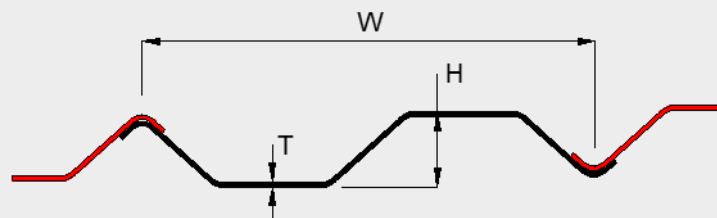
ESC-T35-3.5	330.0	35	3.5	10.99	33.30	14.95	25.8
ESC-T35-4.0	330.0	35	4.0	12.56	38.06	16.85	29.5



ESC-T40-4.0	400.0	43	4.0	15.70	39.25	24.85	53.4
ESC-T40-6.0	400.0	45	6.0	23.55	58.88	35.77	80.4



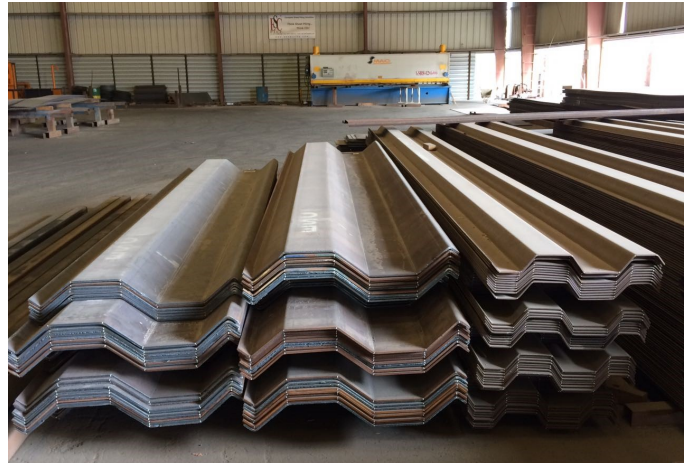
ESC-T60-6.0	600.0	72	6.0	35.33	58.88	87.7	313.4
ESC-T60-8.0	600.0	74	8.0	47.10	78.50	113.4	416.6



ESC-T80-6.0	800.0	122	6.0	47.10	58.88	179.30	1094
ESC-T80-8.0	800.0	124	8.0	62.80	78.50	236.72	1456

Trench Sheets of other customize sizes and specifications are available on request

TRENCH SAFETY PROJECT PHOTOS





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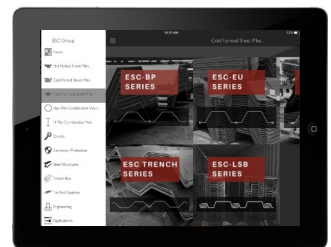
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