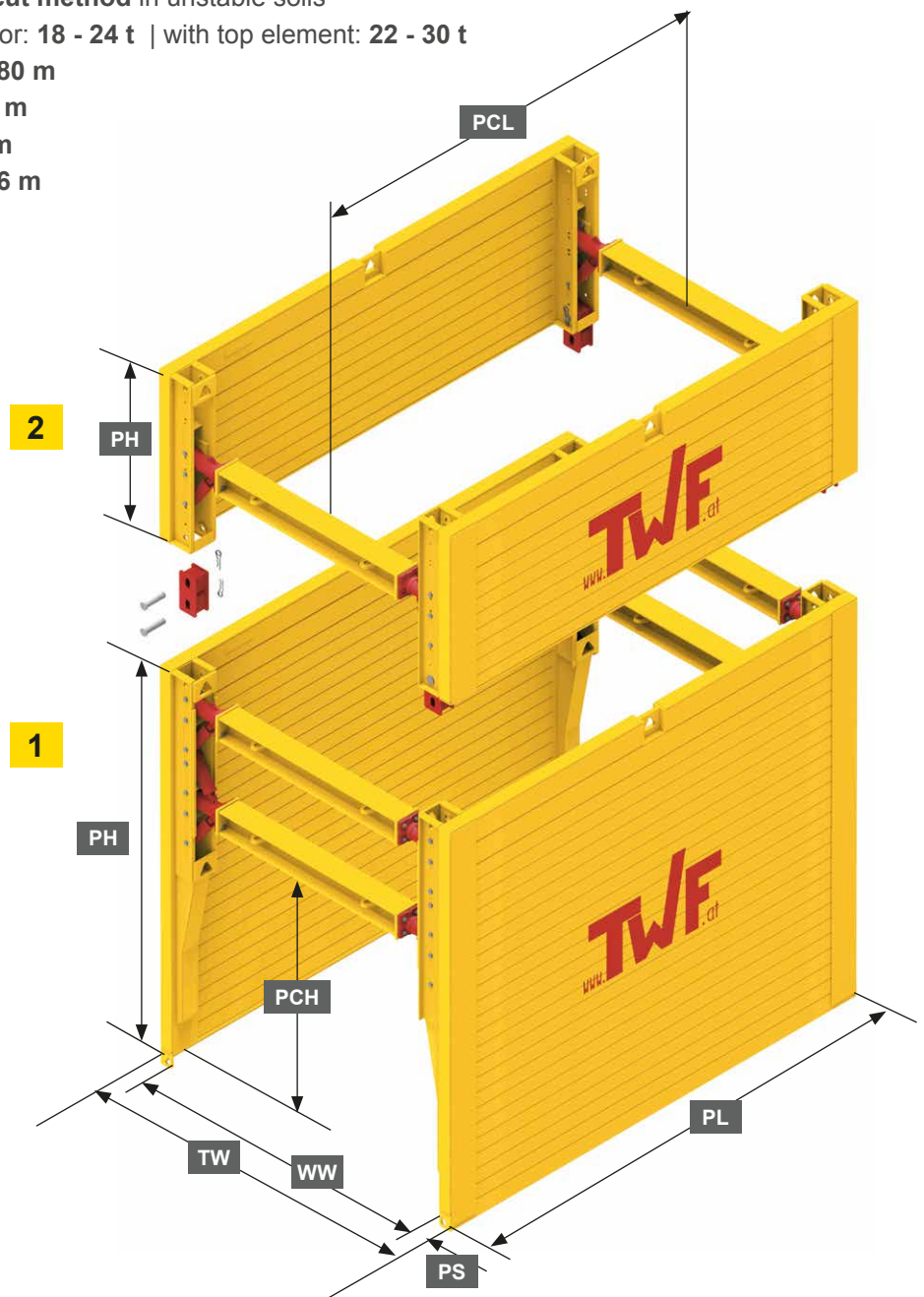


## ► TWF Trench Shoring Systems

### ■ XL-BOX Type 690

- Cost-efficient construction processes with the highest degree of safety and high pipe clearance at trench depths up to 5,80 m.
- Installation by **lower and cut method** in unstable soils
- Mobile- or crawler excavator: 18 - 24 t | with top element: 22 - 30 t
- Maximum trench depth: 5,80 m
- Working width: 0,78 - 5,62 m
- Trench width: 0,98 - 5,82 m
- Pipe clearance height: 2,06 m



1	Base element
2	Top element

PH	Panel height
TW	Trench width
WW	Working width
PT	Panel thickness
PCH	Pipe clearance height
PL	Panel length
PCL	Pipe clearance length

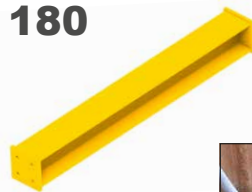
## ► XL-BOX Type 690

Element	Panel length PL (m)	Panel height PH (m)	Panel thickness PT (mm)	PC-length PCL (m)	PC-height PCH (m)	Char. system resistance $R_k$ (kN/m <sup>2</sup> )	Weight c/w spindle (kg/box)
1	2,00	3,15	100	1,60	2,06	88	2204
2		1,32					1102
1	2,50	3,15	100	2,10	2,06	75	2470
2		1,32					1248
1	2,90	3,15	100	2,50	2,06	68	2682
2		1,32					1364
1	3,40	3,15	100	3,00	2,06	48	2948
2		1,32					1508
1	3,70	3,15	100	3,30	2,06	40	3108
2		1,32					1596
1	4,00	3,15	100	3,60	2,06	34	3350
2		1,32					1676

► Other lengths on request!

## ■ Strut Extensions HEB 180

► Strut extension lengths:  
0,275 | 0,550 | 1,100 | 1,650 | 2,200 m  
Customised lengths on request



Number Strut-Extensions	Working width WW (m)	Trench width TW (m)	Weight complete (kg)
0	0,78 - 1,22	0,98 - 1,42	-
1	1,33 - 1,77	1,53 - 1,97	40
2	1,88 - 2,32	2,08 - 2,52	68
3	2,43 - 2,87	2,63 - 3,07	96
4	2,98 - 3,42	3,18 - 3,62	124
5	3,53 - 3,97	3,73 - 4,17	152
6	4,08 - 4,52	4,28 - 4,72	180
7	4,63 - 5,07	4,83 - 5,27	208
8	5,18 - 5,62	5,38 - 5,82	236

