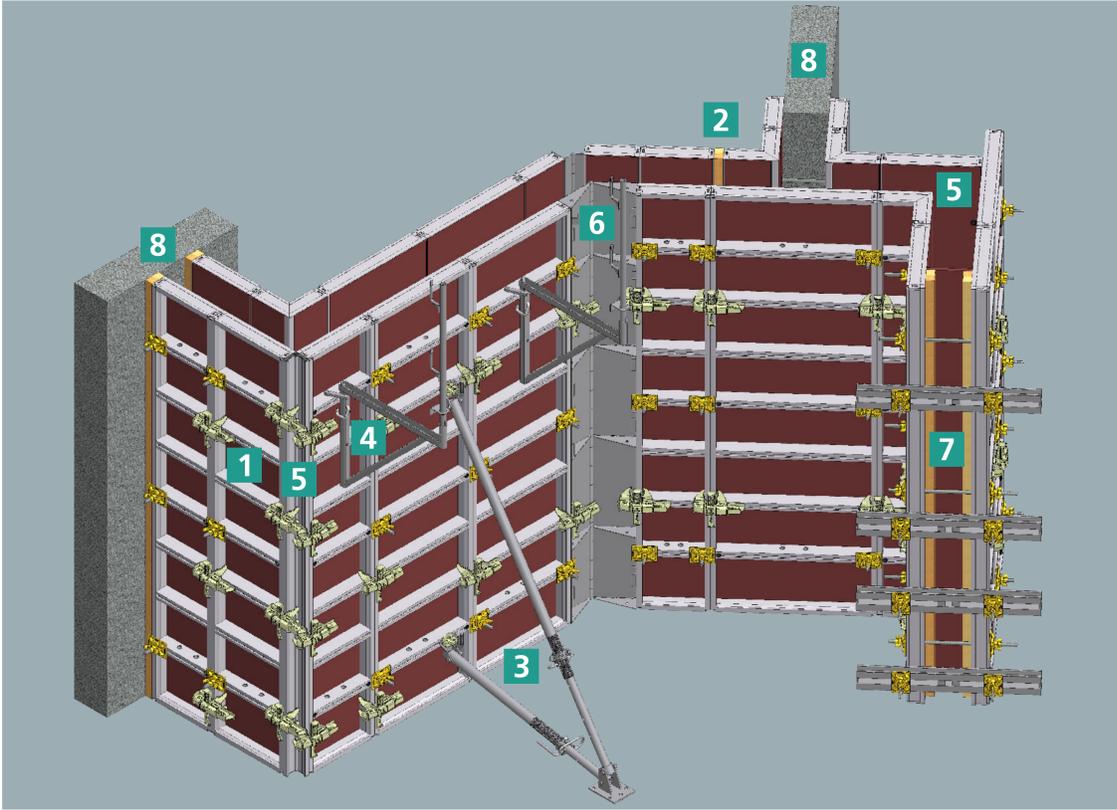


# NOE<sup>®</sup> alu L



www.noe.de



Permissible concrete pressure  
NOEalu L in acc. with DIN 18218  
900 mm width panels and  
NOEalu XL large-area panels

60 kN/m <sup>2</sup>
50 kN/m <sup>2</sup>

When using NOEalu L wall formwork, the  
NOEalu L assembly and operating manual, as well  
as the GSV guidelines on the proper and safe use of  
formwork and falsework, must be observed!

## 1 Connections



- NOEalu L panel
- NOE Alulock, Part No. 402512
- Tie with tie rod Ø 15 mm, Part No. 67... and swivel plate with wing nut, Part No. 691700
- Walkway bracket, Part No. 552208
- Stabilizer, Part No. 691700

**Number of NOE Alulocks per panel butt joint**

Panel height	Number
3000 mm	3
2750, 1500 and 900 mm	2

In situations where higher tensile loads occur (corner areas, stop-ends etc.), the number of connections must be increased. See "9 Carrying tensile forces".

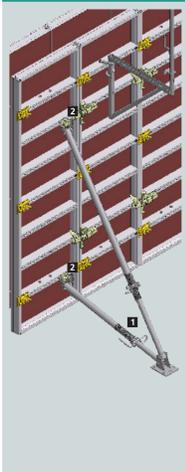
## 2 Compensation pieces



- Compensation piece up to 50 mm**  
Ties pass through the compensation piece
- NOEalu L panel
  - Compensation piece up to 50 mm
  - NOE Alulock, Part No. 402512
  - Tie with tie rod Ø 15 mm, Part No. 67... and swivel plate with wing nut, Part No. 691700
- Compensation piece up to 100 mm**  
Ties pass through the compensation piece
- NOEalu L panel
  - Compensation piece up to 100 mm
  - NOE Alulock, Part No. 402512
  - Compensation channel, Part No. 135109
  - Tie with tie rod Ø 15 mm, Part No. 67... and swivel plate with wing nut, Part No. 691700

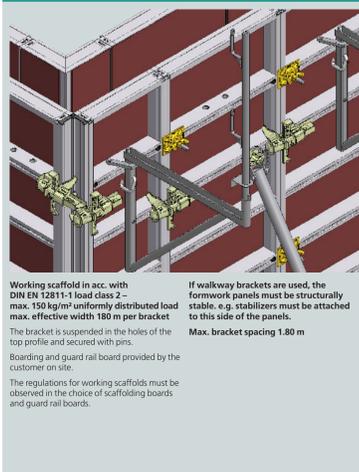
For sealing the tie rod holes in the panels, NOE PVC plastic plugs SF 25, Part No. 693500 are required.

## 3 Support



- Stabilizer
  - NOE hammer-head bolt with handle, Part No. 319338
- Stabilizer 1800-3200 mm**  
Part No. 697020  
Load 4 kN  
Weight 18.0 kg
- Stabilizer 2100-3650 mm**  
Part No. 697121  
Load long strut N 19.7-5.6 kN  
Load short strut 19.7 kN  
Weight 25.0 kg

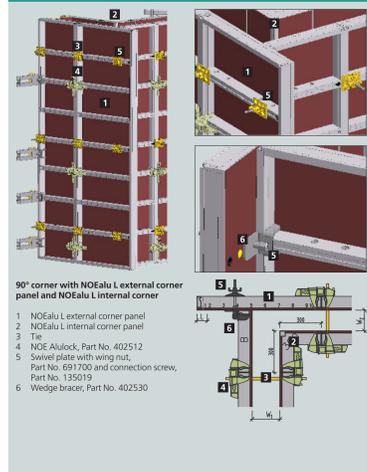
## 4 Walkway brackets



Working scaffold in acc. with DIN EN 12811-1 load class 2 – max. 150 kg/m<sup>2</sup> uniformly distributed load max. effective width 180 m per bracket. The bracket is suspended in the holes of the top profile and secured with pins. Boarding and guard rail board provided by the customer on site. The regulations for working scaffolds must be observed in the choice of scaffolding boards and guard rail boards.

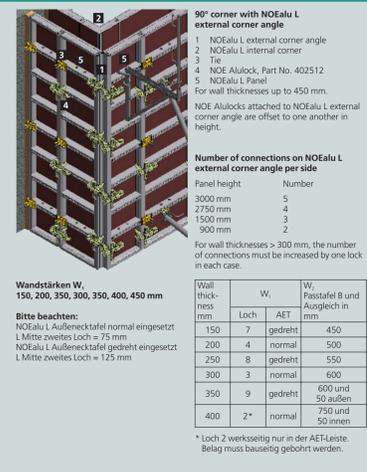
If walkway brackets are used, the formwork panels must be structurally stable, e.g. stabilizers must be attached to this side of the panels. Max. bracket spacing 1.80 m

## 5 90° corner solutions



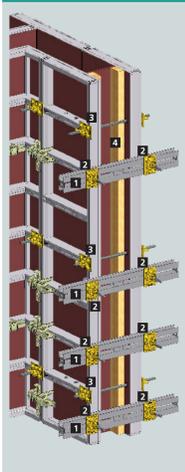
- NOEalu L external corner panel
- NOEalu L internal corner panel
- Tie
- NOE Alulock, Part No. 402512
- Swivel plate with wing nut, Part No. 691700 and connection screw, Part No. 135019
- Wedge brace, Part No. 402530

## 6 Corner solutions 60° up to 150°



- NOEalu L external corner hinge
  - NOEalu L internal corner hinge
  - NOE Alulock, Part No. 402512
  - Alignment channel, Part No. 135210
  - Tie
  - Compensation piece
- Please note:  
 ■ Adjustable corners can be used from 60° up to 150°  
 ■ For acute angles and large wall thicknesses, the ties pass through the wall corners or additional bracing.  
 ■ For angles < 75°, mask the hinge of the internal corner  
 ■ Compensation piece internal only from 90° angle

## 7 Stop-end formwork



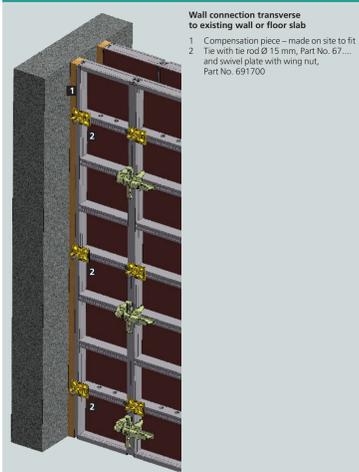
- Extension channel, Part No. 135208
- Wedge brace, Part No. 402530 with connection screw, Part No. 135019 and wing nut with swivel plate, Part No. 691700
- Tie
- Squared timber – made on site to fit

The following wall panels must be connected using NOE Alulock in such a way so as to transmit the tensile forces arising from the concrete pressure on the stop end NOE Alulock. This is particularly the case for narrow panels (refer to "9 Carrying tensile forces").

**Number of extension channels**

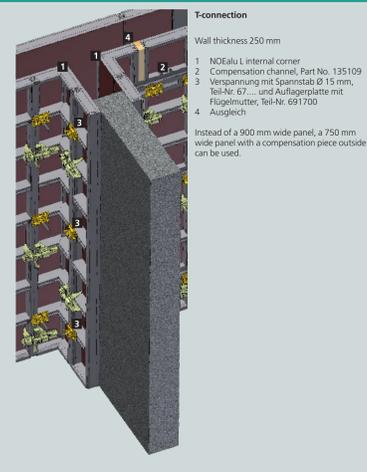
Panel height mm	No. of extension channels	Max. wall thickness mm
3000	4	300
	5	450
2750	4	300
	5	450
1500	3	300
	4	450
900	2	450

## 8 Wall connection



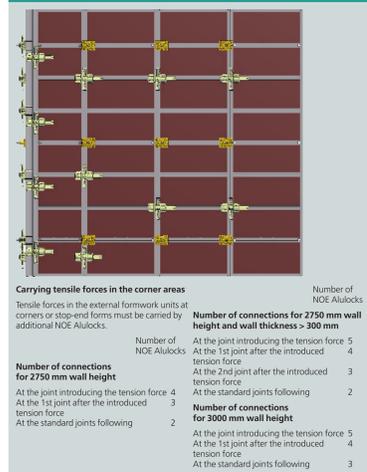
- Wall connection transverse to existing wall or floor slab**
- Compensation piece – made on site to fit
  - Tie with tie rod Ø 15 mm, Part No. 67... and swivel plate with wing nut, Part No. 691700

## 9 Carrying tensile forces



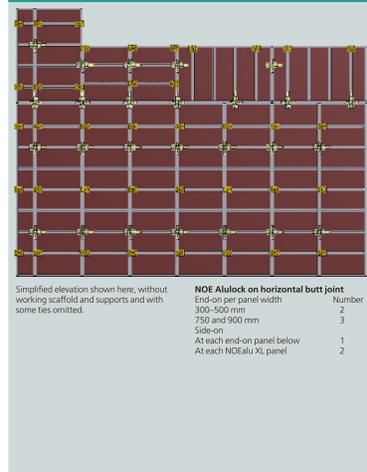
- T-connection**
- NOEalu L internal corner
  - Compensation channel, Part No. 135109
  - Verspannung mit Spannstab Ø 15 mm, Teil-Nr. 67... und Auflagerplatte mit Flügelmutter, teil-Nr. 691700
  - Ausgleich
- Instead of a 900 mm wide panel, a 750 mm wide panel with a compensation piece outside can be used.

## 10 Extensions



- Carrying tensile forces in the corner areas**
- Tensile forces in the external formwork units at corners or stop-ends forms must be carried by additional NOE Alulocks.
- Number of connections for 2750 mm wall height and wall thickness > 300 mm**
- | At the joint introducing the tension force | At the 1st joint after the introduced tension force | At the 2nd joint after the introduced tension force | At the standard joints following |
|--|---|---|----------------------------------|
| 5  | 4   | 3   | 2                                |
- Number of connections for 3000 mm wall height**
- | At the joint introducing the tension force | At the 1st joint after the introduced tension force | At the standard joints following |
|--|---|----------------------------------|
| 5  | 4   | 3                                |

## 11 Foundation formwork



- Foundation clamp, Part No. 402500
- Strip-steel stressing device, Part No. 108029
- Tying claw, Part No. 402540 and swivel plate with wing nut, Part No. 691700
- Tie rod, Part No. 67...
- NOE Alulock, Part No. 402512

Length of the perforated steel  $L = B + 350$  mm

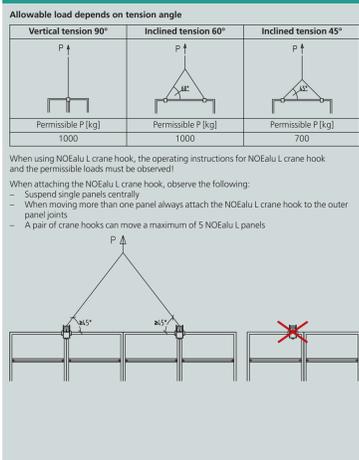
Distance (E) of the foundation clamp

$$E = \frac{48}{(25 \times H)} \text{ [m]}$$

Example: For H = 0.9 m, E = 2.35 m

Each panel requires at least 2 foundation clamps.

## 12 Crane transport



**Allowable load depends on tension angle**

Vertical tension 90°	Inclined tension 60°	Inclined tension 45°
Permissible P [kg]	Permissible P [kg]	Permissible P [kg]
1000	1000	700

When using NOEalu L crane hook, the operating instructions for NOEalu L crane hook and the permissible loads must be observed!

When attaching the NOEalu L crane hook, observe the following:

- Suspend single panels centrally
- When moving more than one panel always attach the NOEalu L crane hook to the outer panel joints
- A pair of crane hooks can move a maximum of 5 NOEalu L panels

## 13 NOEalu L panels

Description	Width mm	Height mm	Panel area m <sup>2</sup>	Weight approx. kg	Part No.
<b>NOEalu XL panels (purchase only)</b>					
NOEalu XL panels	2000	2750	5.50	172.35	402460
with 15 mm NOEform facing	2000	1500	3.00	95.800	402442
	2000	900	1.80	43.500	402444
<b>NOEalu L panels</b>					
NOEalu L panels	900	2750	2.48	54.248	402420
2750 mm high	750	2750	2.06	47.112	402422
with 15 mm NOEform facing	600	1500	0.90	23.300	402421
	550	1500	0.82	21.733	402423
	500	1500	0.75	20.095	402424
	450	1500	0.68	19.078	402425
	400	1500	0.60	17.660	402426
	300	1500	0.45	14.895	402428
	300	2750	1.10	30.460	402410
	300	2750	0.83	25.700	402412
<b>NOEalu L panels</b>					
NOEalu L panels	900	1500	1.35	31.805	402420
1500 mm high	750	1500	1.13	27.563	402422
with 15 mm NOEform facing	600	1500	0.90	23.300	402421
	550	1500	0.82	21.733	402423
	500	1500	0.75	20.095	402424
	450	1500	0.68	19.078	402425
	400	1500	0.60	17.660	402426
	300	1500	0.45	14.895	402428
	300	2750	1.13	27.563	402436

## 14 NOEalu L panels

Description	Width mm	Height mm	Panel area m <sup>2</sup>	Weight approx. kg	Part No.
<b>NOEalu L panels</b>					
NOEalu L panels	900	900	0.81	20.055	402450
900 mm high	750	900	0.67	17.338	402452
with 15 mm NOEform facing	600	900	0.54	14.700	402454
* = purchase only	500	900	0.45	13.808	402456
	450	900	0.41	12.875	402458
	400	900	0.36	12.003	402460
	300	900	0.27	9.385	402464
<b>NOEalu L corner solutions</b>					
NOEalu L external corner panel	900	2750	2.48	53.838	402418
for forming external corner and props up to 700x700 mm, with 15 mm NOEform facing	900	1500	1.35	31.665	402434
* = purchase only	900	900	0.81	20.075	402470
<b>NOEalu L</b>					
NOEalu L external corner angle	100	2750	14.560		402466
for forming external corner and props up to 700x700 mm, with 15 mm NOEform facing	100	1500	8.800		402464
* = purchase only	100	900	4.970		402462
<b>NOEalu L internal corner</b>					
NOEalu L internal corner	300	2750	1.65	41.625	402416
with 15 mm NOEform facing	300	1500	0.90	23.650	402432
* = purchase only	300	900	0.54	15.520	402468

## 15 NOEalu L panels

Description	Width mm	Height mm	Panel area m <sup>2</sup>	Weight approx. kg	Part No.
<b>NOEalu L</b>					
NOEalu L external corner hinge	130	2750	0.35	38.400	106421
60-150° steel, painted	130	1500	0.19	21.900	106420
* = purchase only	130	900	0.23	15.200	106419
<b>NOEalu L</b>					
NOEalu L internal corner hinge	250	2750	1.38	65.800	106416
60-150° steel, painted	250	1500	0.75	39.800	106415
* = purchase only	250	900	0.45	26.500	106413