



THE FORMWORK

NOE[®]form

Dated: 05.2014

Technical Information



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Thickness	mm	21	15	12	9
Format					
Standard format up to	mm	1500 x 3600	1500 x 3600	1500 x 3000	1500 x 3000
Large format	mm	2700 x 5300			
Surface		Phenolic resin coating 220 g/m ² (both sides)			
Weight	kg/m ²	14.7	10.5	8.4	6.3
Core construction		Glued birch plywood			
Number of plies		15	11	9	7

- High-quality formwork board for smooth fair-faced concrete surfaces
- Plies glued crosswise
- Phenolic resin coating on both sides

- Use
Walls and decks
Concrete surfaces with the highest requirements
Smooth, uniform concrete appearance

- Glue
The plywood board gluing meets the requirements of the following international standards:
 - EN 314-2/Class 3
 - DIN 68705 Part 3/BFU 100
 - BS 6566 Part 8/Type WBP (earlier)
 - EN 312-P5

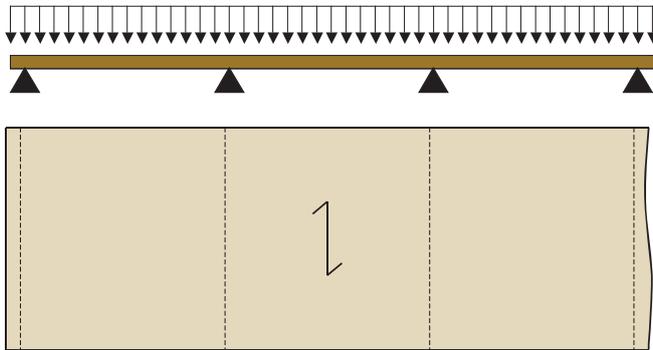
Strength and elasticity properties

Nominal thickness	Thickness tolerance		Modulus of elasticity		Design strength		Shear modulus		Design strength		Weight
	min.	max.	Bending		Bending		Face shear		Shear modulus		
mm	mm	mm	E _m	E _m ⊥	f _m	f _m ⊥	G _r	G _r ⊥	f _r	f _r ⊥	approx. kg/m ²
21	20.0	20.9	9858	7642	39.4	34.3	206.0	186.0	2.59	2.41	14.7
15	14.3	15.3	10316	7184	41.3	33.8	207.0	178.0	2.62	2.39	10.5
12	11.5	12.5	10719	6781	42.9	33.2	207.0	170.0	2.78	2.22	8.4
9	8.8	9.5	11395	6105	45.6	32.1	206.0	155.0	2.68	2.35	6.3

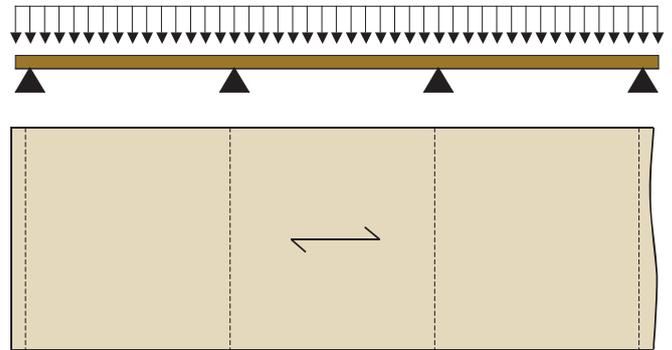
Mechanical properties
 Moisture content = 12 %
 The values comply with EN 789

Permissible concrete pressure

The charts are nomograms for the structural design of NOEform formwork facing, 21 mm and 15 mm thick



↕ = Direction of the outer ply grain

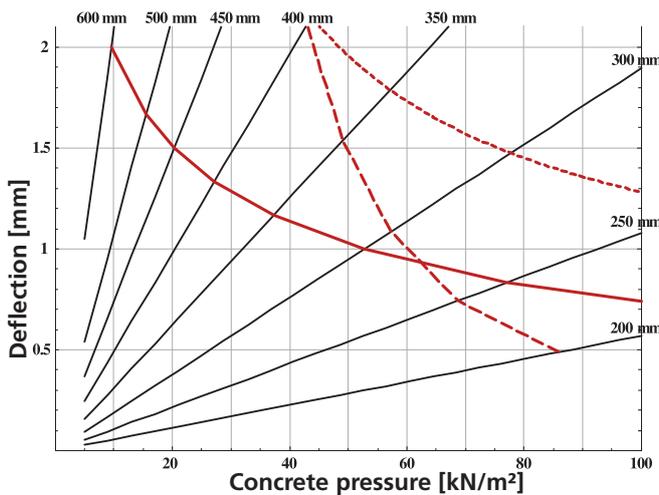


↔ = Direction of the outer ply grain

NOEform 21 mm, 15 plies

Board strip continuous over three spans. Outer ply grain parallel to linear supports. Uniformly distributed load, shear deformation taken into account. Moisture content = 27 %, $E = 5480 \text{ N/mm}^2$

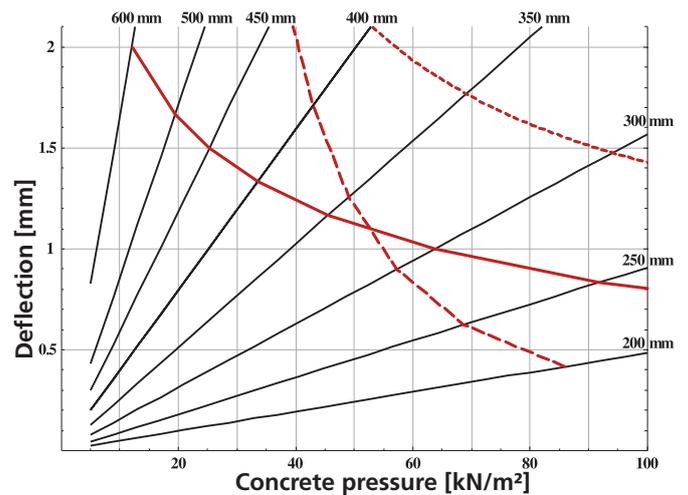
Limit curves: $d = l/300$. —, $s = 8.6 \text{ N/mm}^2$ - - -, $t = 0.7 \text{ N/mm}^2$ - - -



NOEform 21 mm, 15 plies

Board strip continuous over three spans. Outer ply grain perpendicular to linear supports. Uniformly distributed load, shear deformation taken into account. Moisture content = 27 %, $E = 7100 \text{ N/mm}^2$

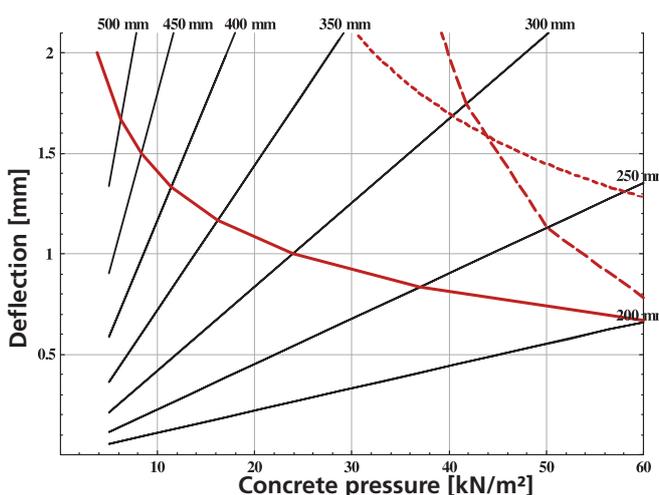
Limit curves: $d = l/300$. —, $s = 10.4 \text{ N/mm}^2$ - - -, $t = 0.7 \text{ N/mm}^2$ - - -



NOEform 15 mm, 11 plies

Board strip continuous over three spans. Outer ply grain parallel to linear supports. Uniformly distributed load, shear deformation taken into account. Moisture content = 27 %, $E = 5150 \text{ N/mm}^2$

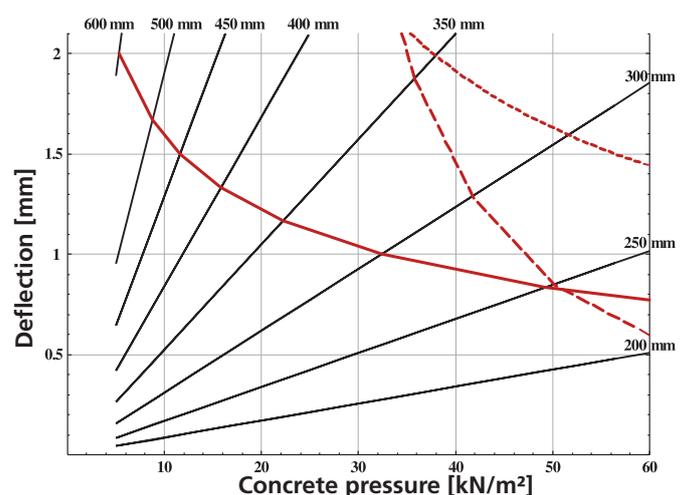
Limit curves: $d = l/300$. —, $s = 8.4 \text{ N/mm}^2$ - - -, $t = 0.7 \text{ N/mm}^2$ - - -



NOEform 15 mm, 11 plies

Board strip continuous over three spans. Outer ply grain perpendicular to linear supports. Uniformly distributed load, shear deformation taken into account. Moisture content = 27 %, $E = 7430 \text{ N/mm}^2$

Limit curves: $d = l/300$. —, $s = 10.75 \text{ N/mm}^2$ - - -, $t = 0.7 \text{ N/mm}^2$ - - -





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NOEform instructions for use

- Handling NOEform carefully will prolong its useful life.
- Observe the following advice when handling NOEform:
- NOEform must be stored on a flat, level and dry supporting surface beneath a waterproof cover.
- Avoid exposing NOEform to excessive heat, dryness or direct sunlight. Otherwise there is the risk the boards will deform or the surface will be damaged.
- In damp atmospheres, remove the packaging bands to prevent damage due to expansion of the boards.
- NOEform formwork facing boards stacked one upon the other are very likely to slip and must be appropriately secured before transport e.g. on a fork lift truck.
- NOEform can be sawn, shaped, drilled and planed with ordinary woodworking tools. Edges and holes must be sealed with NOE edge-sealing paint.
- Use only high-quality release agent to ensure easy and clean formwork stripping. The release agent must be suitable for phenolic resin coatings. NOE recommends the use of its own release agent.
- After stripping, NOEform formwork facing must be thoroughly cleaned and all concrete residues removed.
- NOE recommends that any damage to the formwork facing is repaired using NOErepair before its next use. This will not only prevent the NOEform from swelling, it will also ensure the facing continues to achieve a good concrete finish.
- Apply release agent before each use.