



KOHLHAUER® NOISE BARRIERS – QUALITY OF LIFE LIGNA® – WOODEN NOISE PROTECTION SYSTEMS

Argentina · Austria · Belgium · Chile · China · France · Germany · Greece · Hong Kong · Italy · Korea · Latvia · Netherlands · Poland · Portugal · Russia · Spain · Sweden · Switzerland · United Kingdom

NEW



**Absorbing or reflecting
noise protection**

High durability

Environmental



KOHLHAUER LIGNA®

DESCRIPTION

Kohlhauer offers high-quality noise barrier systems that fulfill highest demands in terms of shape and function. Both variants of the wooden elements – absorbing and reflective ones – satisfy the requirements of German highway regulations ZTV-Lsw 06 and are tested in accordance to EN standards. Thus, CE certification for both systems are available.

All noise barrier elements can be easily mounted between preinstalled posts, founded in or on individual foundations. Rampipe-founding or Drillpile-founding for Heights up to 6,0 m is possible.

ACOUSTIC PROPERTIES

Absorbing Elements:	29 dB Airborne noise insulation	(acc. to DIN EN 1793-2)
	10 dB Sound absorption	(acc. to DIN EN 1793-2)
Reflecting Elements:	25 dB Airborne noise insulation	(acc. to DIN EN 1793-2)

TYPES

- One or both sided highly absorbent
- Reflecting

DIMENSIONS

Width:	Axle dimension less 40 mm
Post distance:	max. 5,0 m
Thickness:	ca. 0,13 m
Height:	up to 6,0 m
Weight:	ca. 55 kg/m ²

The panels are mounted above one another. Special dimensions are available for adapting the barrier to the topography of the land, as well as adapter pieces for installing doors and entry gates.



„REFLECTING“



„ABSORBING“

MATERIAL

Impregnated pine wood
Other materials on demand

WOOD PRESERVATIVE

Chemical wood preservative is by wolmanizing according to DIN 68 800 using CX-salt (chrome-free). The color is green. Dyeing is possible to a limited extent. The

impregnation is resistant to thawing salt and is vegetation friendly, as well as environmentally and permanently.

CONSTRUCTION

One-sided absorbent: The upper and lower frames are made of profiled cross timbers. Tongue and groove boards are nailed or screwed into these from behind in a vertical arrangement. All screws and nails are made of grooved stainless steel according to DIN 267, part 11. An absorption plate with a raw density of $\geq 100\text{kg/cbm}$ is mounted in front of the boards. Hollow between the absorption plate and the backplane plank. The front of this absorption plate is covered in black glass fibre matting. A casing of vertical flattened round rods core-separated and milled) is nailed to the barrier on the sound entry surface. Vertical filler blocks with a milled groove for gripping the sealing tape are mounted to the post connections. Wedges at the back are an additional means of fixing the barrier in place.

FASTENERS

Screws, grooved nails made of stainless steel V4A in compliance with DIN 267, Part 11.

ASSEMBLY

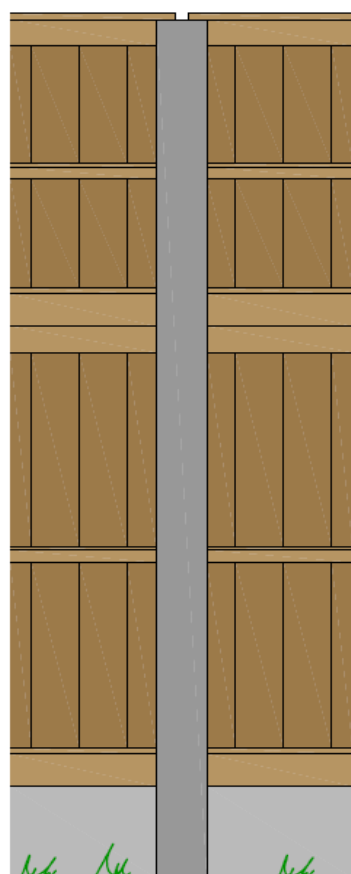
The barrier components are lifted in between steel posts (e.g. IPBL 160) from above. An additional locking mechanism is carried out through the back wedges.

SALE AND TECHNICAL CONSULTING

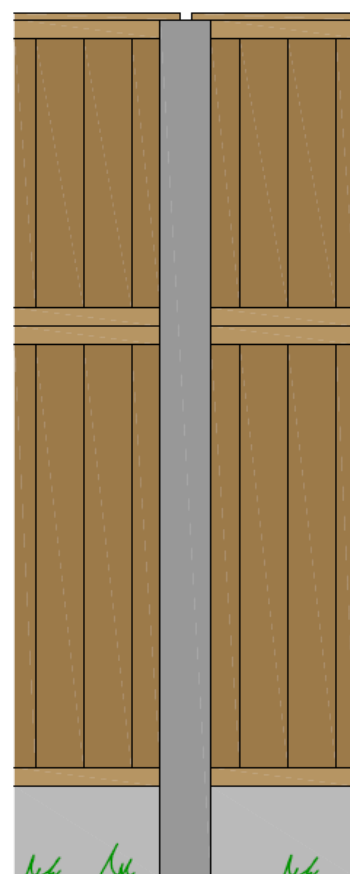
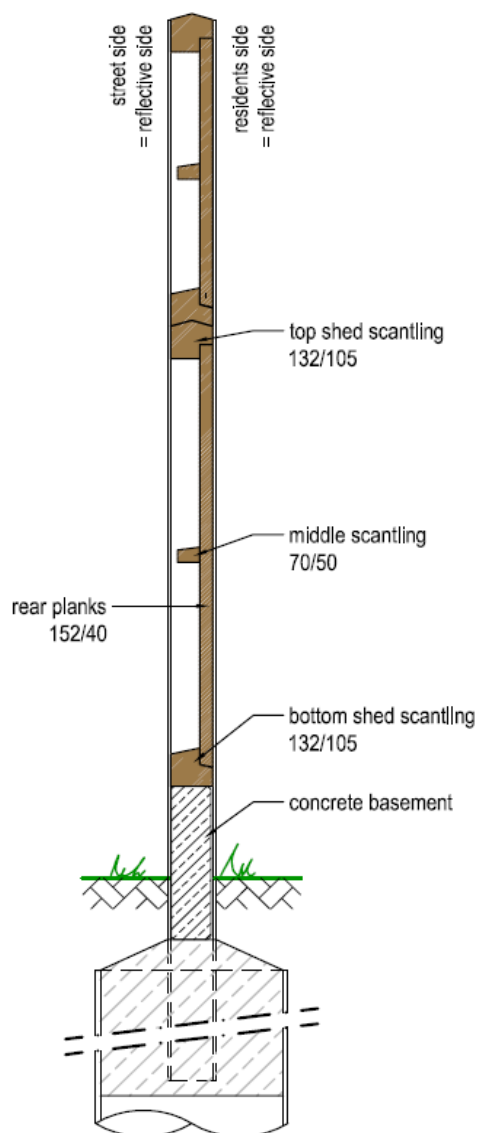
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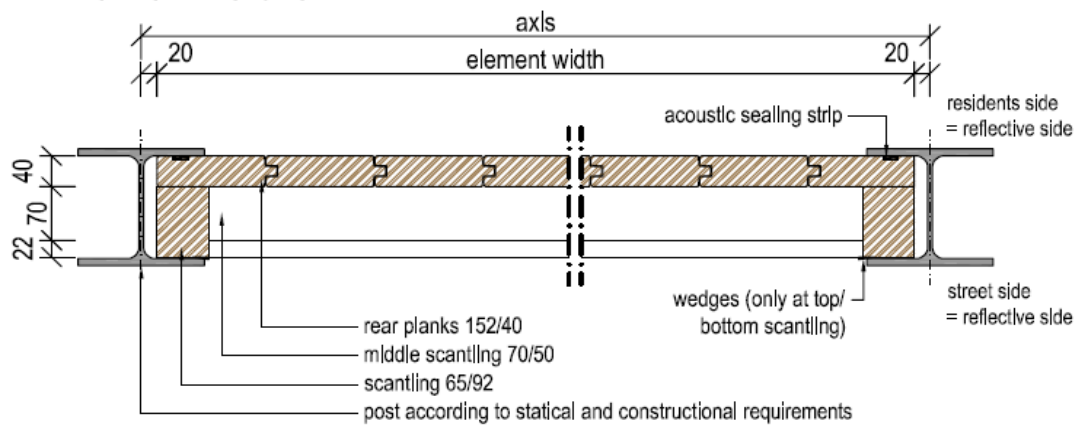


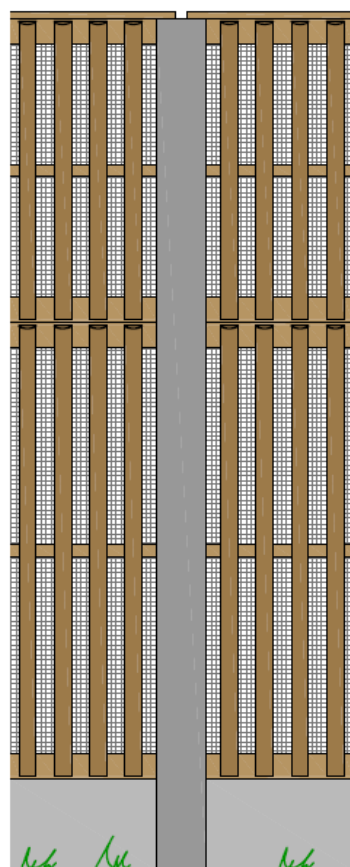
VIEW
STREET SIDE



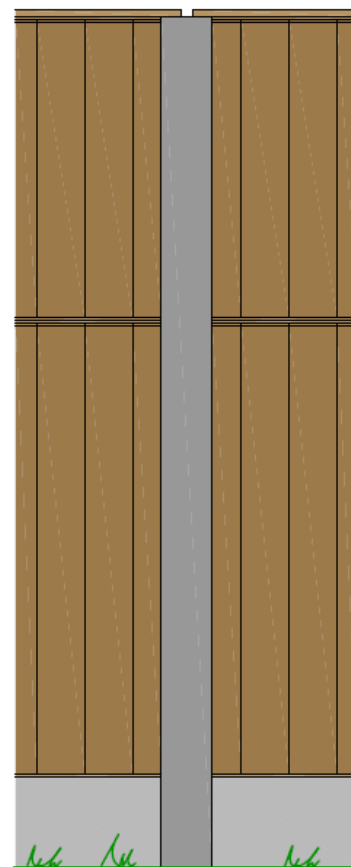
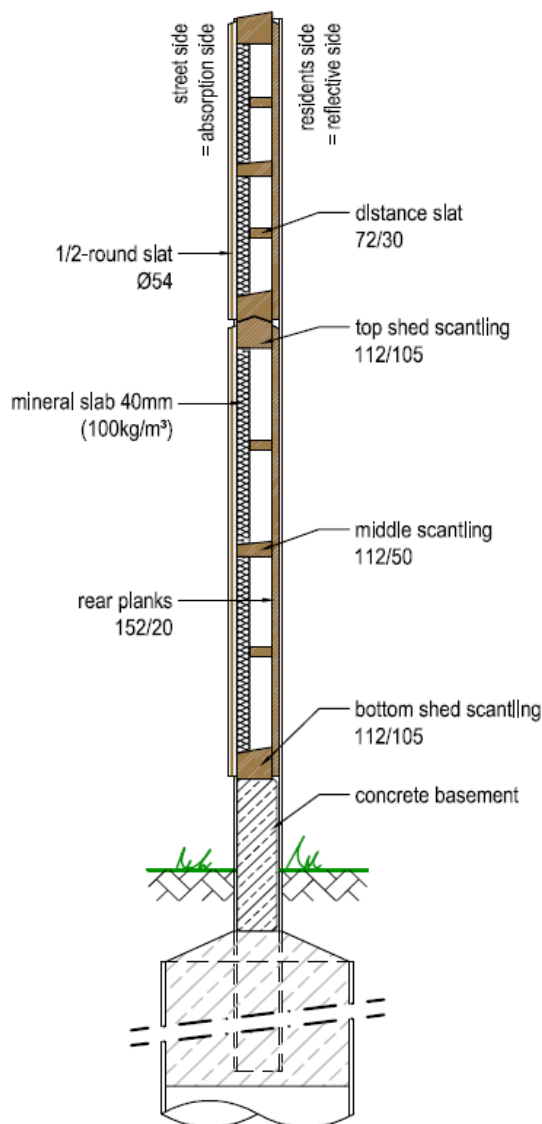
VIEW
RESIDENTS SIDE

HORIZONTAL SECTION





VIEW
STREET SIDE



VIEW
RESIDENTS SIDE

HORIZONTAL SECTION

