

Mesh and Woven 120 Economy Green Barrier



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Noise barrier for reducing road traffic noise. Type: "DET GRØNNE ELEMENT - FACADE flettet pil"
Width = 1540 mm; Column material acacia
Distance between steeltubes = 600mm
Sides: Armor plate net and woven willow or woven willow on both sides.
Acoustic element with 120 mm isolation type RockDelta Stenuid Dual 200/80 kg/m²

Dry and reduced wet self weight of an acoustic element:

Dry weight	Approximately 32 kg/m ²
Reduced Wet weight	Approximately 43 kg/m ²

Material data (Characteristic values):

	Compressive strenght $f_{c,0,k}$	Bending strenght $f_{m,k}$	Modulus of elasticity E_s
Acacia	35 MPa	40 MPa	11600 MPa
Steel S235	$f_{yk} = 235$ MPa		2100 GPa

Resistance to loads (*if characteristic value):

Maximum vertical load an element can withstand: 1,0 kN/m*

Normal (90°) load an acoustic element can withstand (Due to wind and static) 0,94 kN/m² *

Normal (90°) load a structural element can withstand (Due to wind, selfweight and static):

Coloumns

Height	Dim.	Maximum uniform load	Maximum bending moment at ground level
1,5m	100x100mm	3,86kN/m	4,31kNm
2,0m	100x100mm	2,15kN/m	4,31kNm
2,5m	100x125mm	2,16 kN/m	6,75kNm
3,0m	100x150mm	2,18 kN/m	9,79kNm
Steel bars	3/4" (Upper)	1,60 kN/m	
	3/4" (Lower)	1,60 kN/m	

Sound Absorption: DL_{α} 9 dB

Airborne sound insulation: DL_R 22 dB

Sound reduction index: R_w 26 dB

Light reflectivity: NPD

Risk of falling debris: Class 0

Expected Durability of Non Acoustic Characteristics:

Service Life, Acoustic element:	50 years
Service Life, Structural element: Material (Undressed and in contact with the ground)	
Acacia	years > 36