

PRODUCT - INFORMATION # 6 / 2011

New at HL



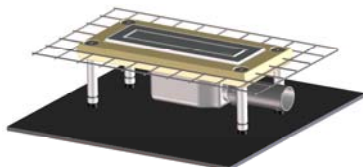
HL Sound protection

Certificate for HL50F(W)/HL52/HL523N/
HL530/HL5100/HL510N-series/HL90-series

HL50F(W)



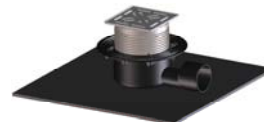
HL52



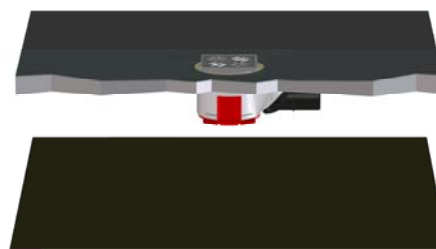
HL530



HL5100/HL510N-series/HL90-series



HL523N



Description

Why Sound protection: Transmission of sound from other living and working areas or from outside is not welcome, because of different reasons:

- Sound may reduce your concentration during work.
- It may be unhealthy.
- Private conversations should stay private.
- Sound may be felt as disturbing during reading, television...

HL HUTTERER & LECHNER GmbH, Brauhausgasse 3-5, 2325 HIMBERG,
Tel.: +43/(0)2235/86291-0; FaxDW 31 od. 52; <http://www.hutterer-lechner.com>; e-mail: office@hutterer-lechner.com

Barrier-free shower systems like shower channels, shower boards or floor drains transfer drainage sound and impact noises in surrounding rooms, because they are integrated in the screed. Therefore a sound bridge may emerge between screed and the raw concrete.

Sound protection is handled in German standard DIN 4109 and Austrian standard ÖNorm 8115-2. Constructional requests may be from minimal to increased sound protection.

DIN 4109 - regulations

- Regulates the allowed sound level of service plants in protectable rooms.
- Denominations are approved stand of the art.
- They are valid, if there are no further agreements concerning sound protection.

Protectable rooms acc. DIN 4109 are:

- Living- and bedrooms
- Nurseries
- Offices and working rooms
- Seminary rooms, class rooms

The use of DIN4109 is independent from the type of the building, but always valid, if there are protectable rooms in the building, e.g. hotels, retirement homes, offices, seminary rooms...

In your own living area the DIN 4109 has no validity, only in surrounding protectable rooms.

Barrier-free shower systems of HL Hutterer & Lechner may now be equipped with special sound protection pads (HL6100, HL6200, HL6300, HL6400, HL6500).

These systems have now been inspected by the German „Fraunhofer Institut“ acc. DIN 4109 and Ö-Norm 8115-2.

Result: **All systems match with increased requests to sound protection** in accordance with the recommended installation circumstances .


Test results and technical comments please see at www.hutterer-lechner.com.

Installation sound level L_{in} in dB(A) – DIN 4109
Facility sound level $L_{Aeq,nT}$ in dB(A) ÖNORM B 8115-2

Requirements acc. DIN 4109 / ÖNORM 8115-2:

Minimum requirement: 30 dB(A)

Increased requirement: 25 dB(A)






	Shower channel HL50 series	Shower block HL530	Shower board HL523N	Short channel HL52	Floor drains HL5100, HL90 HL510N
					
DIN 4109	20 dB(A)	25 dB(A)	21 dB(A)	20 dB(A)	12 dB(A)
ÖNORM 8115-2	---	21 dB(A)	17 dB(A)	---	<10 dB(A)

Comments:

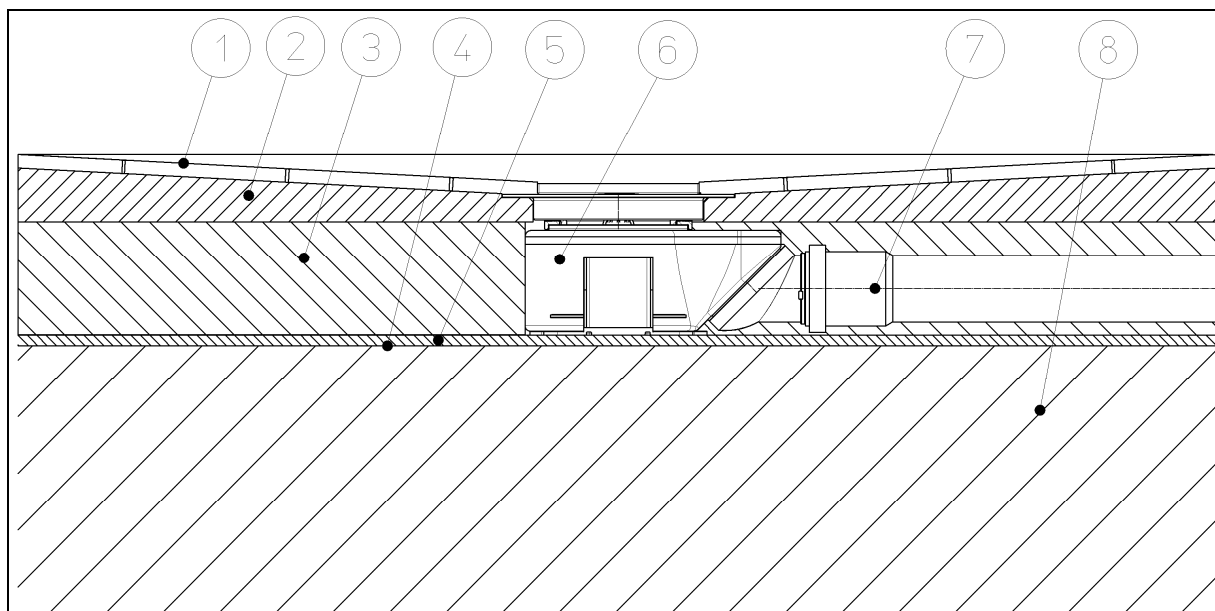
Determined results correlate to the room below (basement), acc. DIN4109.

The sound simulates a mechanical vibration at the top level of customary shower heads.

HL Sound protection pads and correlating systems

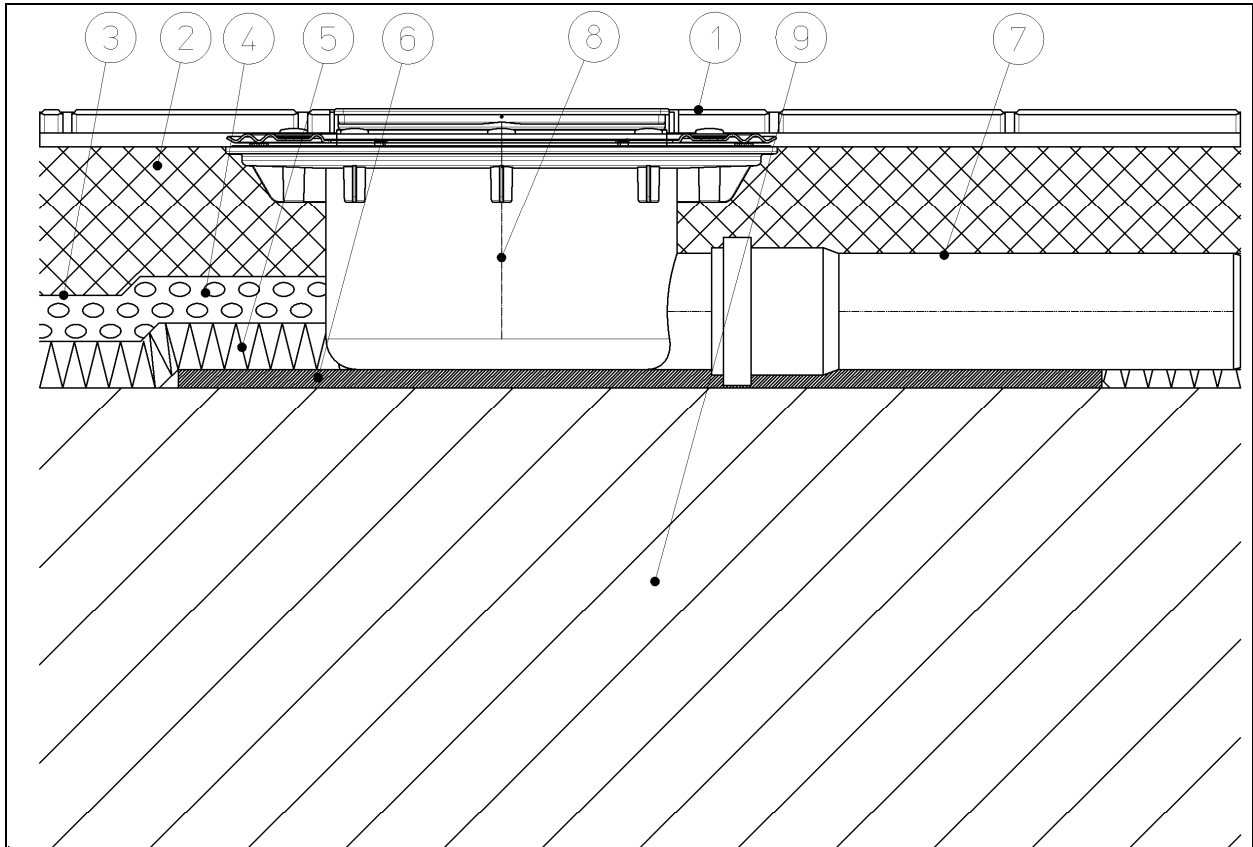
<p>HL6100 Sound protection pad to HL50-series 500x250x8 mm</p>	
<p>HL6200 Sound protection pad to series HL52, HL90, HL510N, HL5100 500x500x8 mm</p>	
<p>HL6300 Sound protection pad for HL523N-90x90 2 pieces 900x450x8/4 mm</p>	
<p>HL6400 Sound protection pad for HL523N-120x120 2 pieces 1200x600x8/4 mm</p>	
<p>HL6500 Sound protection pad for HL530 1 piece 1200x256x8/4 mm 1 piece 1200x260x5 mm</p>	

Sectional drawing HL523N-series



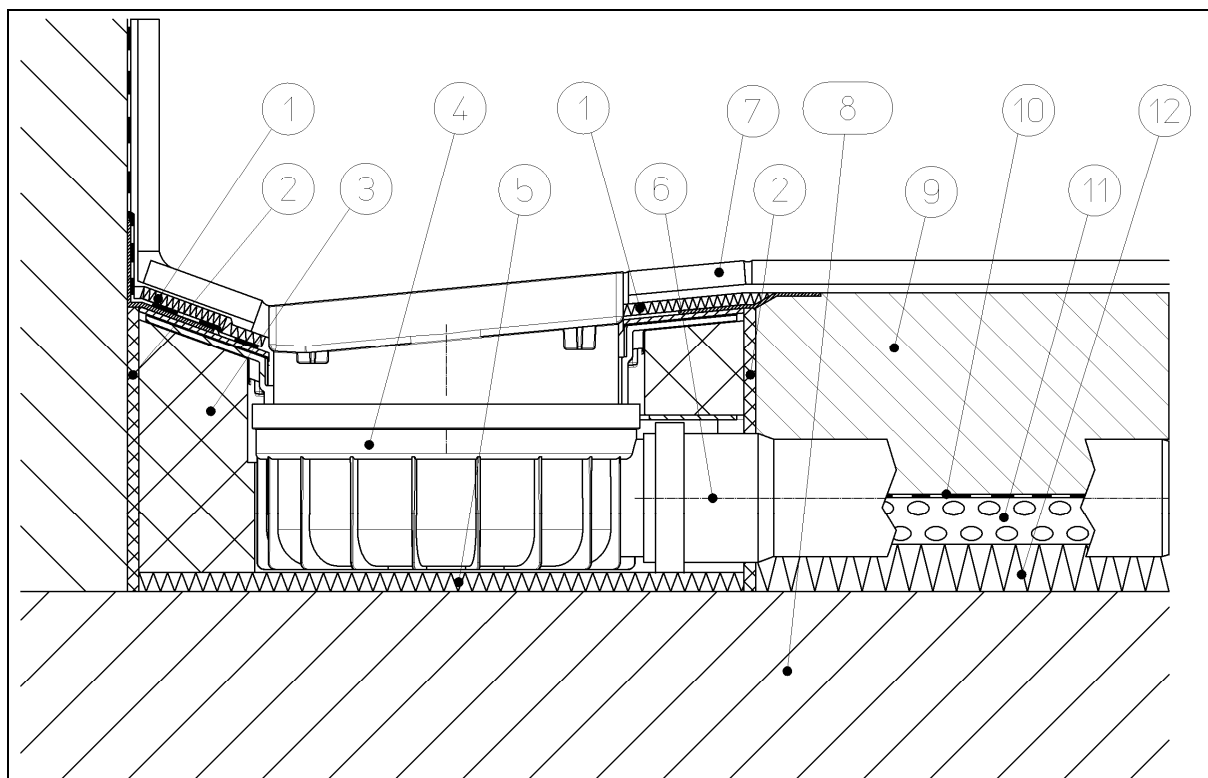
8	Betondecke	min. 190mm	Rohdichte: 2300 kg/m ³
7	Abwasserleitung		DN50 Schallschutzrohr mit Schallschutzisolierung
6	Ablauf		HL520 Ablaufgehäuse mit Montageelement
5	Schallschutzelement	4/8	900x900x8mm
4	Polyethylenfolie		
3	Zementestrich	min. 85mm	ZE 20, Verkehrslast 1,5 kN/m ²
2	Duschelement	min. 40mm	HL523N
1	Bodenbelag	min. 10mm	Fliese inkl. Kleber
Pos	Bezeichnung	Aufbau	Beschreibung

Sectional drawing HL5100/HL510N-series/HL90-series



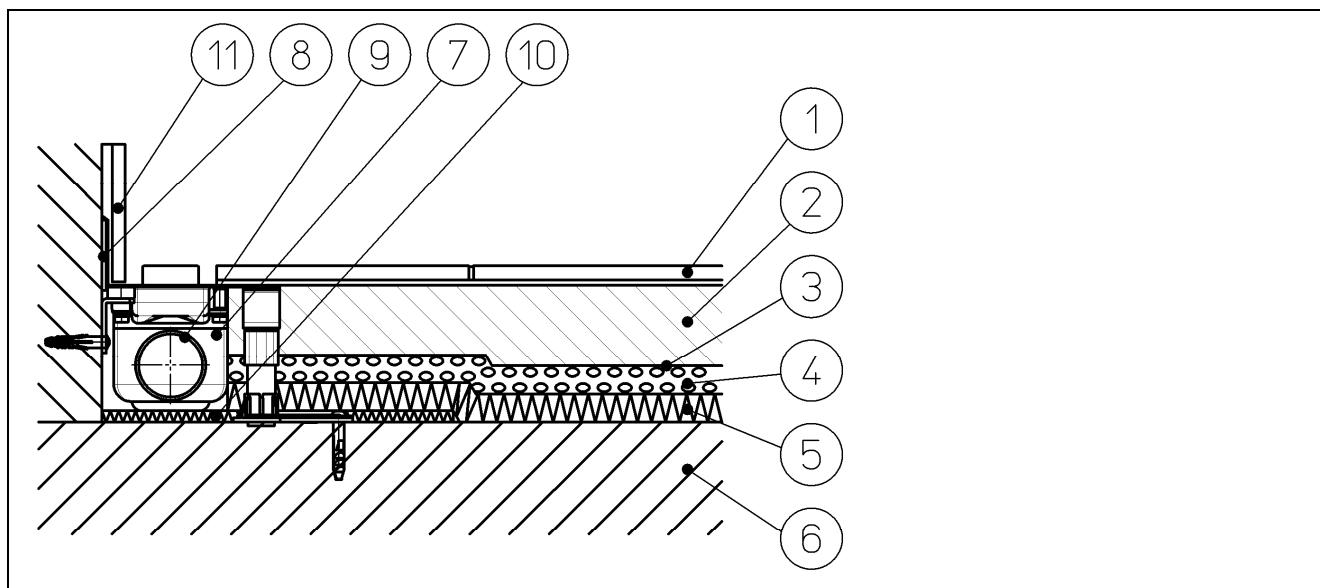
9	Betondecke	min. 200 mm	Rohdichte: 2300 kg/m ³
8	Ablauf		HL5100 Serie mit Abdichtgarnitur HL8300 Serie
7	Abwasserleitung		Schallschutzrohr DN50 mit Schallschutzisolierung
6	Schallschutzelement	min. 8 mm	500x500x8 mm
5	Wärmedämmung	min. 20 mm	EPS 040
4	Trittschalldämmung	min. 20 mm	Mineralwolle-Dämmplatte
3	Polyethylenfolie		
2	Zementestrich	min. 65 mm	ZE 20, Verkehrslast 1,5 kN/m ²
1	Bodenbelag	min. 10 mm	Fliese inkl. Kleber
Pos	Bezeichnung	Aufbau	Beschreibung

Sectional drawing HL530



12	Trittschalldämmung	min. 20mm	Mineralwolle-Dämmplatte
11	wärmedämmung	min. 20mm	EPS 040
10	Polyethylenfolie		
9	Zementestrich	min. 80mm	ZE 20, Verkehrslast 1,5 kN/m ²
8	Befestigung	min. 190mm	Rohdichte: 2300 kg/m ³
7	Bodenbelag	min. 10mm	Fliese inkl. Kleber
6	Abwasserleitung		DN 50 Schallschutzrohr mit Schallschutzisolierung
5	Schallschutzelement	4/8	1200x256x8mm
4	Ablauf		Ablaufgehäuse zu HL530
3	HL530 Duschblock	115mm	EPS Grundkörper 1200x256x115mm
2	PE-Randdämmstreifen	min. 4mm	
1	Schallschutzelement	5mm	
Pos	Bezeichnung	Aufbau	Beschreibung

Sectional drawing HL50-series



11	Fliese		
10	Schallschutzelement	min. 8mm	500 x 250 x 8mm
9	Abwasserleitung		DN 50 Schallschutzrohr mit Schallschutzisolierung
8	Randdämmstreifen		PE 120/8
7	Ablauf		Edelstahl Duschrinne "W"
6	Befondecke	min. 190mm	Rohdichte: 2300 kg/m ³
5	Wärmedämmung	min. 20mm	EPS 040
4	Trittschalldämmung	min. 20mm	Mineralwolle-Dämmplatte
3	Polyethylenfolie		
2	Zementestrich	min. 50mm	ZE 20, Verkehrslast 1,5 kN/m ²
1	Bodenbelag	min. 10mm	Fliese inkl. Kleber
Pos	Bezeichnung	Aufbau	Beschreibung

Sectional drawing HL52

