

**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-11 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP MVX-1004-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	10	4	18	Original HIT-HP MVX-1004-18-100-35	12.7
1	8	4	18	HIT-HP MVX-0804-18-100-35	12.6
2	6	4	18	HIT-HP MVX-0604-18-100-35	12.9
3	4	4	18	HIT-HP MVX-0404-18-100-35	13.0
4	2	4	18	HIT-HP MVX-0204-18-100-35	14.2
5	2	3	18	HIT-HP MVX-0203-18-100-35	14.5
6	2	2	18	HIT-HP MVX-0202-18-100-35	15.1

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

B.-Eng. R. Dettling

Note: This translation of the original German version has not been verified by the original issuing institute.

**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433- 09 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP MVX-1406-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	14	6	18	Original HIT-HP MVX-1406-18-100-35	10.7
1	12	6	18	HIT-HP MVX-1206-18-100-35	11.0
2	10	6	18	HIT-HP MVX-1006-18-100-35	10.9
3	8	6	18	HIT-HP MVX-0806-18-100-35	11.0
4	6	6	18	HIT-HP MVX-0606-18-100-35	11.8
5	4	6	18	HIT-HP MVX-0406-18-100-35	12.2

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-13 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP MVX-1808-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	18	8	18	Original HIT-HP MVX-1808-18-100-35	9.4
1	16	8	18	HIT-HP MVX-1608-18-100-35	9.9
2	14	8	18	HIT-HP MVX-1408-18-100-35	9.7
3	12	8	18	HIT-HP MVX-1208-18-100-35	10.0
4	10	8	18	HIT-HP MVX-1008-18-100-35	9.8
5	8	8	18	HIT-HP MVX-0808-18-100-35	10.0
6	6	8	18	HIT-HP MVX-0608-18-100-35	10.4
7	4	8	18	HIT-HP MVX-0408-18-100-35	10.7

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-12 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP ZVX-0802-18-100-35-06**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	8 $\varnothing$ 6	2	18	Original HIT-HP ZVX-0802-18-100-35-06	14.5
1	7 $\varnothing$ 6	2	18	HIT-HP ZVX-0702-18-100-35-06	14.6
2	6 $\varnothing$ 6	2	18	HIT-HP ZVX-0602-18-100-35-06	15.2
3	4 $\varnothing$ 6	2	18	HIT-HP ZVX-0402-18-100-35-06	16.1
4	3 $\varnothing$ 6	2	18	HIT-HP ZVX-0302-18-100-35-06	16.3
5	2 $\varnothing$ 6	2	18	HIT-HP ZVX-0202-18-100-35-06	16.0
6	2 $\varnothing$ 6	0	18	HIT-HP ZVX-0200-18-100-35-06	21.2

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-10 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP ZVX-0802-18-100-35-08**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number and diameter of shear bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	8 $\varnothing$ 8	2	18	Original HIT-HP ZVX-0802-18-100-35-08	14.5
1	6 $\varnothing$ 8	2	18	HIT-HP ZVX-0602-18-100-35-08	14.6
2	5 $\varnothing$ 8	2	18	HIT-HP ZVX-0502-18-100-35-08	15.2
3	4 $\varnothing$ 8	2	18	HIT-HP ZVX-0402-18-100-35-08	16.1
4	3 $\varnothing$ 8	2	18	HIT-HP ZVX-0302-18-100-35-08	16.3
5	2 $\varnothing$ 8	2	18	HIT-HP ZVX-0202-18-100-35-08	16.0
6	2 $\varnothing$ 8	0	18	HIT-HP ZVX-0200-18-100-35-08	21.2

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
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Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-08 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-HP ZVX-0604-18-100-35-10**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	8 $\varnothing$ 10	4	18	Original HIT-HP ZVX-0804-18-100-35-10	11.1
1	6 $\varnothing$ 10	4	18	HIT-HP ZVX-0604-18-100-35-10	10.8
2	4 $\varnothing$ 10	4	18	HIT-HP ZVX-0404-18-100-35-10	12.6
3	4 $\varnothing$ 10	2	18	HIT-HP ZVX-0402-18-100-35-10	14.0
4	4 $\varnothing$ 10	0	18	HIT-HP ZVX-0400-18-100-35-10	17.0
5	2 $\varnothing$ 10	0	18	HIT-HP ZVX-0200-18-100-35-10	19.2

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-03 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP MVX-1004-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	10	4	18	Original HIT-SP MVX-1004-18-100-35	13.7
1	8	4	18	HIT-SP MVX-0804-18-100-35	13.9
2	6	4	18	HIT-SP MVX-0604-18-100-35	14.3
3	4	4	18	HIT-SP MVX-0404-18-100-35	14.1
4	2	4	18	HIT-SP MVX-0204-18-100-35	15.2

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH*, Brückenstraße 9 in 71364 Winnenden)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-05 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP MVX-1406-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	14	6	18	Original HIT-SP MVX-1406-18-100-35	12.5
1	12	6	18	HIT-SP MVX-1206-18-100-35	12.3
2	10	6	18	HIT-SP MVX-1006-18-100-35	12.5
3	8	6	18	HIT-SP MVX-0806-18-100-35	12.9
4	6	6	18	HIT-SP MVX-0606-18-100-35	13.3
5	4	6	18	HIT-SP MVX-0406-18-100-35	12.9

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
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Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433- 02 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP MVX-1808-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	18	8	18	Original HIT-SP MVX-1808-18-100-35	10.4
1	16	8	18	HIT-SP MVX-1608-18-100-35	9.9
2	14	8	18	HIT-SP MVX-1408-18-100-35	10.2
3	12	8	18	HIT-SP MVX-1208-18-100-35	10.4
4	10	8	18	HIT-SP MVX-1008-18-100-35	10.3
5	8	8	18	HIT-SP MVX-0808-18-100-35	10.8
6	6	8	18	HIT-SP MVX-0608-18-100-35	10.9
7	4	8	18	HIT-SP MVX-0408-18-100-35	11.0

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

B.-Eng. R. Dettling

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-01 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP MVX-1810-18-100-35**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number of tension bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	18	8	18	Original HIT-SP MVX-1810-18-100-35	10.6
1	16	8	18	HIT-SP MVX-1610-18-100-35	10.3
2	14	8	18	HIT-SP MVX-1410-18-100-35	10.7
3	12	8	18	HIT-SP MVX-1210-18-100-35	10.3
4	10	8	18	HIT-SP MVX-1010-18-100-35	11.3
5	8	8	18	HIT-SP MVX-0810-18-100-35	11.4
6	6	8	18	HIT-SP MVX-0610-18-100-35	11.7

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

B.-Eng. R. Dettling

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-04 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP ZVX-0802-18-100-35-06**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number and diameter of shear bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	8 $\varnothing$ 6	2	18	Original HIT-SP ZVX-0802-18-100-35-06	15.9
1	6 $\varnothing$ 6	2	18	HIT-SP ZVX-0602-18-100-35-06	14.9
2	5 $\varnothing$ 6	2	18	HIT-SP ZVX-0502-18-100-35-06	15.2
3	4 $\varnothing$ 6	2	18	HIT-SP ZVX-0402-18-100-35-06	15.5
4	3 $\varnothing$ 6	2	18	HIT-SP ZVX-0302-18-100-35-06	15.9
5	2 $\varnothing$ 6	2	18	HIT-SP ZVX-0202-18-100-35-06	16.2
6	2 $\varnothing$ 6	0	18	HIT-SP ZVX-0200-18-100-35-06	25.0

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
(*Sound Engineering Development and Testing Institute, STEP GmbH, Brückenstraße 9 in 71364 Winnenden*)

Winnenden den 10.05.2022

Dipl.-Ing. (FH) C. Fichtel

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**Result overview of impact sound reduction in accordance
with EAD 050001-01-0301 (adopted version)**

for Test Report 91433-06 from 03.05.2022.

Applicant Leviat GmbH, Liebigstrasse 14 in 40764 Langenfeld

Product **HALFEN HIT-SP ZVX-0802-18-100-35-08**

Test set-up Test setup in accordance with EAD 050001-01-0301

Modification	Number and diameter of shear bars	Number of CSBs compression shear bearings	Element height in cm	corresponds approx.with model/type	ΔL_w [dB]
Original	8 $\varnothing$ 8	2	18	Original HIT-SP ZVX-0802-18-100-35-08	14.4
1	6 $\varnothing$ 8	2	18	HIT-SP ZVX-0602-18-100-35-08	14.6
2	5 $\varnothing$ 8	2	18	HIT-SP ZVX-0502-18-100-35-08	15.2
3	4 $\varnothing$ 8	2	18	HIT-SP ZVX-0402-18-100-35-08	15.8
4	3 $\varnothing$ 8	2	18	HIT-SP ZVX-0302-18-100-35-08	17.2
5	2 $\varnothing$ 8	2	18	HIT-SP ZVX-0202-18-100-35-08	17.4
6	2 $\varnothing$ 8	0	18	HIT-SP ZVX-0200-18-100-35-08	22.7

 ΔL_w : weighted impact sound reduction**Schalltechnisches Entwicklungs- und Prüfinstitut, STEP GmbH**, Brückenstraße 9 in 71364 Winnenden
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Winnenden den 10.05.2022

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