



# Schalltechnisches Gutachten

im Rahmen des Bauleitplanverfahrens

Nr. 280 „Halberstädter Straße“

der Stadt Paderborn;

Teil A: Bestehende Geräusch-Immissions-Situation

durch die Betriebe des Plangebietes Nr. 280

**Auftraggeber(in):** Stadt Paderborn  
Der Bürgermeister  
Stadtplanungsamt  
Pontanusstraße 55  
33102 Paderborn

**Bearbeitung:** Herr Dipl.-Phys. Brokopf / Wa/Fr  
Tel.: (0 52 06) 70 55-10      oder  
Tel.: (0 52 06) 70 55-0      Fax: (0 52 06) 70 55-99  
Mail: [info@akus-online.de](mailto:info@akus-online.de)      Web: [www.akus-online.de](http://www.akus-online.de)

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**Das vorliegende Gutachten darf nur vollständig vervielfältigt werden.  
Auszugskopien bedürfen unserer Zustimmung.**

## 1. Allgemeines und Aufgabenstellung

Die Stadt Paderborn betreibt derzeit das Bauleitplanverfahren Nr. 280 „Halberstädter Straße“.

Die im Plangebiet gelegenen Flächen werden bereits in erheblichem Umfang gewerblich bzw. industriell genutzt.

Anlage 1 zeigt die Örtlichkeiten in einem Übersichtsplan.

Ein wesentliches Planungsziel der Stadt Paderborn ist die Festsetzung von Geräusch-Emissionskontingenten gemäß der DIN 45691 „Geräuschkontingentierung“ (Zitat unter / 5/ in Kapitel 2).

Im vorliegenden Teil A dieses Gutachtens wird die bestehende Geräusch-Immissions-Situation der im Plangebiet Nr. 280 ansässigen Betriebe ermittelt.

In Teil B werden dann die Geräusch-Emissionskontingente gemäß DIN 45691 berechnet, die die Geräusch-Immissionsanteile der im Plangebiet Nr. 280 bestehenden Betriebe abbilden.

Die der vorliegenden Untersuchung zu Grunde liegende Methodik wird in Kapitel 3 beschrieben.

## 2. Berechnungs- und Beurteilungsgrundlagen

- / 1/    **BlmSchG**                    **Bundes-Immissionsschutzgesetz**  
Gesetz zum Schutz vor schädlichen Umwelteinrichtungen durch Luftverunreinigungen, Geräusche, Erschütterungen und ähnliche Vorgänge  
Zuletzt geändert durch die Verordnung zur Umsetzung der Dienstleistungsrichtlinie auf dem Gebiet des Umweltrechts sowie zur Änderung umweltrechtlicher Vorschriften vom 09.11.2010 (BGBl. Teil 1 Nr. 56, S. 1504 ff)
- / 2/    **TA Lärm**                    **"Technische Anleitung zum Schutz gegen Lärm"**  
6. AVwV vom 26.08.1998 zum BlmSchG  
Gemeinsames Ministerialblatt, herausgegeben vom Bundesministerium des Inneren, 49. Jahrgang, ISSN 0939-4729 am 28.08.1998
- / 3/    **BauGB**                        **Baugesetzbuch**  
in der Fassung der Bek. vom 23.09.2004 (BGBl. I S. 2414), zuletzt geändert durch Artikel 4 des Gesetzes vom 24.12.2008 (BGBl. I S. 3018)
- / 4/    **BauNVO**                    **Baunutzungsverordnung (BauNVO)**  
in der Fassung vom 23.01.1990 (BGBl. I S. 132), geändert durch Artikel 3 des Gesetzes vom 22.04.1993 (BGBl. I S. 466)
- / 5/    **DIN 45691**                    **„Geräuschkontingierung“**  
Ausgabe Dezember 2006
- / 6/    **DIN ISO 9613**                **"Dämpfung des Schalls bei der Ausbreitung im Freien"**  
**Teil 2**                        **Allgemeines Berechnungsverfahren**  
Ausgabe 1999-10
- / 7/    **VDI 2720**                    **"Schallschutz durch Abschirmung im Freien"**  
**Blatt 1**                      Ausgabe März 1997

- / 8/      **DIN ES 12354-4**      **"Berechnung der akustischen Eigenschaften von Gebäuden aus den Bauteileigenschaften"**  
Teil 4: Schallübertragung von Räumen ins Freie; Ausgabe April 2001
- / 9/      **DIN 45645**              **„Ermittlung von Beurteilungspegeln aus Messungen“**  
Teil 1                      **Geräuschemissionen in der Nachbarschaft**  
Ausgabe Juli 1996
- /10/      **DIN 45641**              **„Mittlung von Schallpegeln“**  
Ausgabe Juni 1990
- /11/                              **"Parkplatzlärmstudie"**  
Empfehlungen zur Berechnung von Schallemissionen aus Parkplätzen, Autohöfen und Omnibusbahnhöfen sowie von Parkhäusern und Tiefgaragen  
Schriftenreihe des Bayerischen Landesamtes für Umwelt  
6. überarbeitete Auflage - August 2007
- /12/                              **"Technischer Bericht zur Untersuchung der LKW- und Ladegeräusche auf Betriebsgeländen von Frachtzentren, Auslieferungslagern und Speditionen"**  
Schriftenreihe der Hessischen Landesanstalt für Umwelt, Umweltplanung Arbeits- und Umweltschutz, Heft 192, Jahrgang 1995
- /13/                              **"Schalltechnische Hinweise für die Aufstellung von Wertstoffcontainern (Wertstoffsammelstellen)"**  
Bayerisches Landesamt für Umweltschutz  
vom Januar 1993, Nr. 2/5-250-250/91

- /14/ **Lärminderung bei Anlagen zur Schrottaufbereitung;**  
Materialien zur Umwelt im Mecklenburg-Vorpommern, Heft 4/98;  
Landesamt für Umwelt und Natur in Mecklenburg-Vorpommern
- /15/ **D. Piorr: "Weniger Lärm durch Auswahl eines „geeigneten“ Prognosemodells?"**  
Jahresbericht 2000, Landesumweltamt Nordrhein-Westfalen, Essen 2001
- /16/ **D. Piorr: "Zum Nachweis der Einhaltung von Geräuschemissionswerten  
mittels Prognose"**  
Zeitschrift für Lärmbekämpfung, Nr. 5, 2001, S. 172 – 175.
- /17/ **U. Kurze: "Abschätzung der Unsicherheit von Immissionsprognosen"**  
Zeitschrift für Lärmbekämpfung, Nr. 5, 2001, S. 166 – 171.

### 3. Geräusch-Emissionen

Mit zwei Ausnahmen (für die wir betriebstypische Emissionsannahmen getroffen haben) suchten wir die Betriebe des Plangebietes Nr. 280 auf. Die jeweiligen Betriebsbeauftragten – i.d.R. technische Betriebsleiter und/oder die Geschäftsführungen – erläuterten ausführlich die Betriebsabläufe und bezifferten das „Mengenrüst“ z.B. bzgl. des Schwerlastverkehrs, der Ladetätigkeiten, der Betriebszeiten etc. Dabei wurde immer auf eine Voll-Auslastung der Betriebe abgestellt.

In Abhängigkeit von den jeweiligen betrieblichen Gegebenheiten konnten auf der Basis der genannten betrieblichen Aktivitäten bei Zugrundelegen von Studien der Landesumweltämter (siehe z.B. /15/) die Emissionspegel bestimmt werden.

Dort, wo dieses nicht ausreichend war (i.d.R. bei größeren Betrieben), wurden eigene Geräuschpegelmessungen durchgeführt.

Diese Messungen konnten an sogenannten Ersatzmessorten zur Bestimmung der Emissionspegel von Betriebsteilen oder direkt an Einzelquellen durchgeführt werden. Im letzteren Fall wurden im Rahmen von Begehungen (einschließlich der Hallendächer) die relevanten Innenpegel und Emissionspegel von Lüftungsöffnungen, technischen Aggregaten etc. messtechnisch als Schalldruckpegel erfasst.

Die Schalldämm-Maße der Hallenaußenbauteile wurden auf der Basis von eigenen Archivdaten bestimmt; Angaben zum jeweiligen Aufbau der Hallenaußenbauteile erhielten wir dafür von den Betrieben, der bauliche Zustand wurde vor Ort besichtigt und schalltechnisch bewertet.

Aus den gemessenen Schalldruckpegeln wurden, ggf. unter Berücksichtigung der Schalldämm-Maße der Hallenaußenbauteile, die Schall-Leistungspegel der immissionsrelevanten Betriebsaktivitäten bestimmt.

Bei den Schall-Leistungspegeln handelt es sich um schalltechnische Kenngrößen von Betrieben, Anlagenteilen, KFZ etc. für die „Stärke“ ihrer Schallquellen.

Unter Berücksichtigung der zeitlichen Einwirkdauer (z.B. Betriebszeit) ergeben sich aus den Schall-Leistungspegeln die sogenannten Schall-Leistungs-Beurteilungspegel  $L_{WA,r}$ . Bei kontinuierlich über den gesamten Beurteilungs-Zeitraum betriebenen Anlagen sind Schall-Leistungspegel und Schall-Leistungs-Beurteilungspegel identisch.

Die Schall-Leistungs-Beurteilungspegel werden in einem dreidimensionalen schalltechnischen Computermodell sogenannten Punkt-, Linien- und Flächenschallquellen als Emissionspegel zugeordnet.

Diesen Schallquellen werden weitere schalltechnische Eigenschaften – wie etwa eine gerichtete Abstrahlung – zugeordnet, sofern dieses geboten ist.

In dem Computermodell werden ferner die Betriebsgebäude berücksichtigt.

Mit diesem Computermodell werden Schallausbreitungsberechnungen auf die Nachbarschaft durchgeführt.

Anlage 3 zeigt Plots des Modells in Ausschnitten und stellt die Lage der Geräuschquellen dar.

In den Emissions-Messpegeln sind bereits Reflexionsanteile enthalten. Da zudem die besonders kritischen benachbarten Wohnhäuser (Immissionsorte) den Werksgeländen direkt zugewandt sind und damit an den dortigen Aufpunkten keine Reflexionen auftreten, werden die nachfolgenden Schallausbreitungsberechnungen ohne weitere Berücksichtigung der Reflexionen durchgeführt.

***Die unten stehenden Pegel korrespondieren für alle Anlagenteile mit einem kontinuierlichen Betrieb im jeweiligen Beurteilungszeitraum. Für die Nacht wird unterstellt, dass jeder Betrieb zur selben Nachtstunde seine ungünstigste Nachtstunde hat. Damit wird eine „worst-case-Betrachtung“ durchgeführt. In der Regel sind nicht alle Betriebsteile, Maschinen und damit Lüfter etc. permanent in Betrieb. Eine sichere Definition der Netto-Betriebszeiten der einzelnen Maschinen- und Anlagenteile ist produktionsbedingt nicht möglich.***

Pegelschläge gemäß / 2/ für die Tageszeiten mit erhöhter Empfindlichkeit (werktags 06:00 Uhr bis 07:00 Uhr, 20:00 Uhr bis 22:00 Uhr) sind in den Emissionspegeln *nicht* enthalten.

In den wenigen Fällen, in denen – z.T. in langwierigen – Verfahren Firmen behördlicherseits Immissionspegel für bestimmte Immissionsorte z.B. in Verfahren zur Lärminderung vorgegeben wurden (z.B. für die Firmen Peitzmann und HeidelbergCement), wählen wir die Emissionspegel so, dass diese Vorgaben reproduziert werden.

Die Auflistung der Emissionsquellen findet sich in Anlage 4.

Mit der Bezeichnung „Nacht“ ist immer die ungünstigste Nachtstunde im Sinne von / 2/ gemeint.

Ebenfalls in Anlage 4, auf dem Blatt 19, findet sich die Beschreibung der Geräusch-Quellen der Betriebe im Bereich Buchenhof der Gemeinde Borchlen (Lage der Quellen siehe Anlage 3, Blatt 1). Die diesbezüglichen Geräusch-Immissionen werden nachfolgend als Vorbelastung betrachtet.

#### 4. Geräusch-Immissionen

Unter Zugrundelegen der vorgenannten Ausgangsdaten werden EDV-gestützte Schallausbreitungsberechnungen durchgeführt. Dieses geschieht unter Berücksichtigung der Pegelkorrekturen für die Entfernung, Luftabsorption, Topographie, Bewuchs-, Boden- und Meteorologiedämpfung sowie für die Schallabschirmung von Hochbauten und sonstigen Hindernissen.

Das beschriebene Rechenmodell führt zu Immissionserschallpegeln, die den energetischen Mittelwerten bei leichtem Mitwind entsprechen.

Für die vier am stärksten betroffenen Immissionsorte, die wir nachfolgend als Leit-Immissionsorte bezeichnen und die die betroffene Wohnnachbarschaft repräsentieren, werden die Immissionserschallpegel in der nachfolgenden Tabelle 1 numerisch dargestellt.

Bei diesen Leit-Immissionsorten handelt es sich um folgende Gebäude (siehe auch Anlage 2):

- I1: Stephanusstraße 71 (Paderborn),
- I2: Buchenhof 3 (Borchen),
- I3: Zur dicken Linde 44 (Borchen),
- I4: Dessauer Straße 10 (Paderborn).

**Tabelle 1: Immissionsschallpegel für die Ebene des 1. OG; auf ganze dB(A) gerundet**

Immissionsorte	Immissions-Schallpegel in dB(A)	
	Tag	Nacht
I1	53,3	46,2
I2	55,8	50,7
I3	47,6	43,8
I4	55,0	53,8

In Anlage 5 werden die Detail-Ergebnisse der Ausbreitungsberechnungen für alle Immissionsorte dargestellt.

Wir ordnen nachfolgend jedem Betrieb des Plangebietes Nr. 280 denjenigen Immissionsort als Leit-Immissionsort zu, an dem die Betriebe die jeweils höchsten Geräusch-Immissionsanteile aufweisen.

In den nachfolgenden Tabellen 2 bis 5 findet sich diese Zuordnung mit den entsprechenden Immissionspegeln der jeweiligen Betriebe.

**Tabelle 2: Leit-Immissionsort I1**

Flächenbezeichnung/ Firma		Pegel durch bestehende Betriebe in dB(A)	
		Tag	Nacht
FA1	Peitzmann	49,9	-
FA2	BBR Baurec	45,5	-
FA3	HKL	39,5	-
FA4	Immig	43,5	28,5
FA5	HeidelbergCement	44,1	44,1
FA6	Freiluftschaltanlage	23,9	23,9
FA10	Osterholz	19,9	-
FA21	Bunse (zwei Betriebsflächen)	24,9	-
FA24	Finke Zentrallager	11,6	-
FA35	Autowaschanlage	7,8	-
FA37	Kaya Großhandel	12,8	
FA38	Howelpa	18,0	20,0
FA43	Stroetmann Saaten	20,9	-
FA46	Claas Industriebau	32,3	27,0

**Tabelle 3:** Leit-Immissionsort I2

Flächenbezeichnung/ Firma		Pegel durch bestehende Betriebe in dB(A)	
		Tag	Nacht
FA8	Vedder	31,4	-
FA11	Pieper	17,3	-
FA15	ASB	24,0	-
FA16	Friemuth	23,5	21,1
FA17	Temme	27,8	32,9
FA18	BLG	17,9	16,8
FA19	Hansmeier	31,5	31,5
FA20	PPH Paletten	16,0	-
FA22	Leerstand	8,8	-
FA23	Schulte Tiefbau	27,5	16,9
FA25	Welsing	12,4	-
FA30	DHL	20,8	10,1
FA31	Hilti	24,8	-
FA34	Pader Stahl	23,0	-
FA39	Betonwerk	31,6	-
FA41	Hartmann	24,8	31,2
FA42	ER & GE	25,9	19,1
FA48	Westfleisch	37,4	31,3
FA49	Brauerei (Fläche Brauerei und vermietete Betriebsfläche)	39,0	37,6
FA51	Veolia	54,2	48,2
FA52	Stute WEA/Biogas	43,1	43,0
FA53	Stute Fabrik	42,1	41,9
FA54	Mannesmann	25,1	-

**Tabelle 4:** Leit-Immissionsort I3

Flächenbezeichnung/ Firma		Pegel durch bestehende Betriebe in dB(A)	
		Tag	Nacht
FA9	K & M	18,5	-
FA12	Wöhning	19,5	1,2
FA13	ZEB	21,5	-
FA14	OSG	29,4	-
FA36	AdoptSMT	8,9	-
FA40	Ruberg	42,8	12,4

**Tabelle 5:** Leit-Immissionsort I4

Flächenbezeichnung/ Firma		Pegel durch bestehende Betriebe in dB(A)	
		Tag	Nacht
FA7	Raiffeisen	29,4	29,3
FA26	Michels Verw.	45,5	-
FA27	Michels Bord.	6,0	8,5
FA32	Wegener	17,7	21,5
FA33	Kesseldienst	11,3	-
FA44	Vero Gerüstb.	36,5	29,8
FA45	D & S	33,9	32,9
FA47	HDO	53,7	53,5
FA50	Pöhler (zwei Betriebsflächen)	39,7	20,1
FA44	Westo	21,5	18,4

Die Betriebe Michels Kleingewerbe (Fa. 28) und Lidl (Fa. 29) werden keinem Leit-Immissionsort zugeordnet. Dieses hängt mit der spezifischen planerischen Intention zusammen, auf die wir in Teil B des Gutachtens näher eingehen werden.

In Teil B dieses Gutachtens werden die Geräusch-Emissionskontingente gemäß DIN 45691 berechnet, die die Geräusch-Immissionsanteile der in den obigen Tabellen dargestellten Betrieben abbilden.

Die Geräusch-Vorbelastung durch die Betriebe des Buchenhofes in Borchon wird in der folgenden Tabelle 6 dargestellt.

**Tabelle 6: Betriebe des Buchenhofes in Borchon: Immissionsschallpegel für die Ebene des 1. OG; Pegel in dB(A)**

Immissionsorte	Immissions-Schallpegel in dB(A)	
	Tag	Nacht
I1	16,5	8,9
I2	50,8	45,6
I3	35,3	31,6
I4	19,7	13,9

In Anlage 6 werden die Detail-Ergebnisse der Ausbreitungsberechnungen der Geräusch-Vorbelastung für alle Immissionsorte dargestellt.

## 5. Zusammenfassung

Die Stadt Paderborn betreibt das Bauleitplanverfahren Nr. 280 „Halberstädter Straße“.

Die im Plangebiet gelegenen Flächen werden bereits in erheblichem Umfang gewerblich bzw. industriell genutzt.

Ein wesentliches Planungsziel der Stadt Paderborn ist die Festsetzung von Geräusch-Emissionskontingenten gemäß der DIN 45691 „Geräuschkontingentierung“ (Zitat unter / 5/ in Kapitel 2).

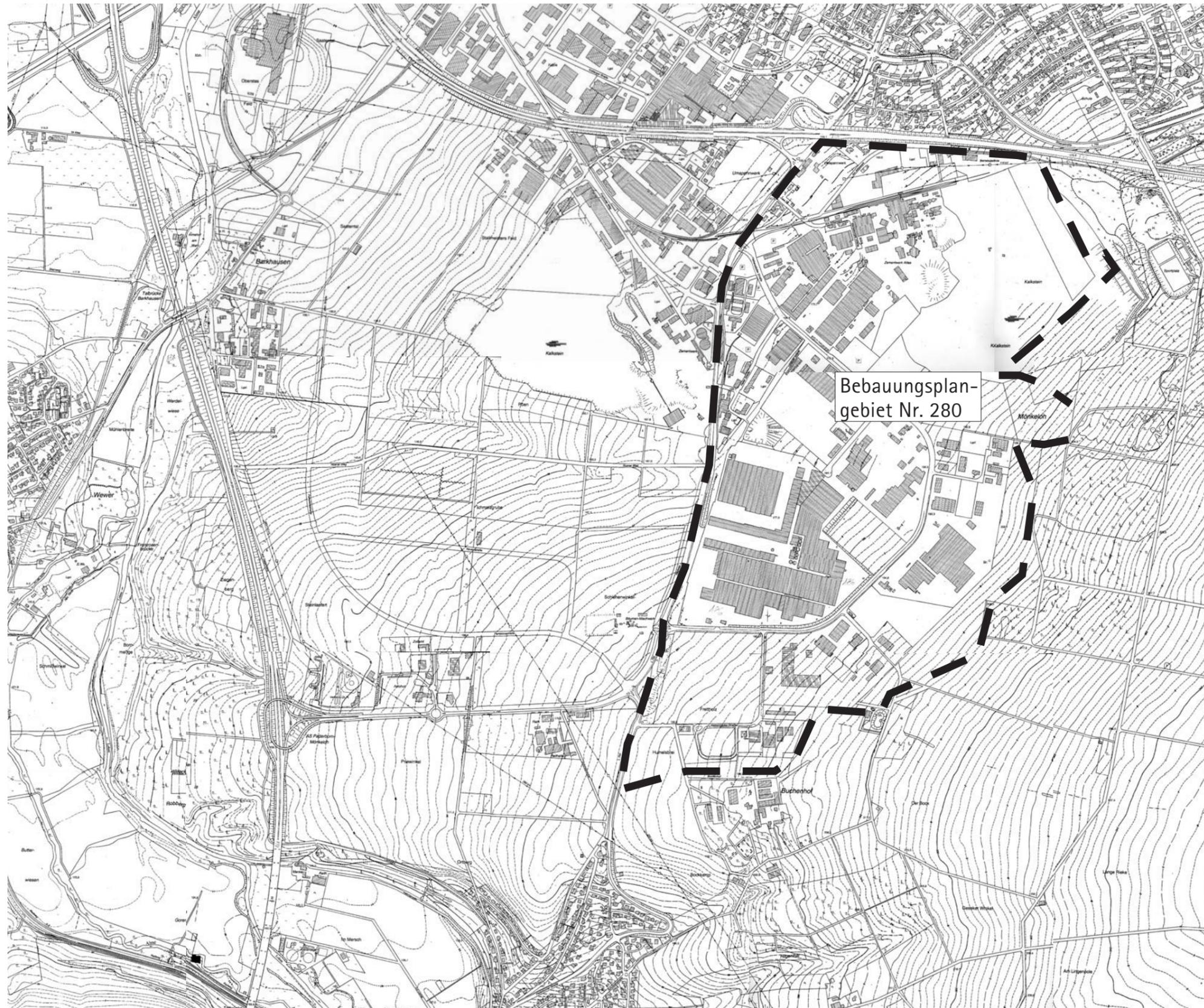
Im vorliegenden Teil A dieses Gutachtens wird die bestehende Geräusch-Immissions-Situation der im Plangebiet Nr. 280 ansässigen Betriebe ermittelt.

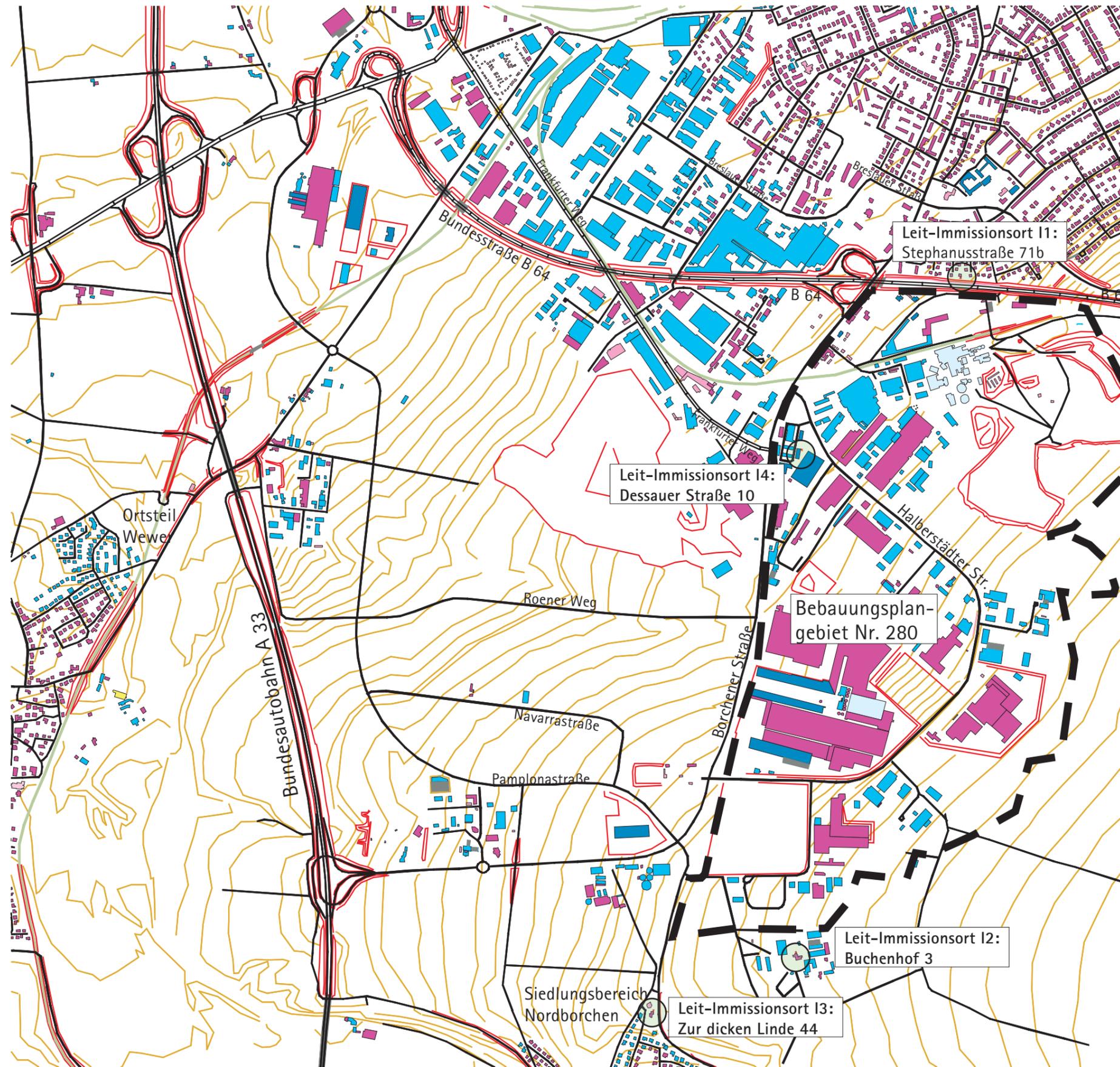
Auf der Basis dieser Ergebnisse werden dann im Teil B die Geräusch-Emissionskontingente gemäß DIN 45691 berechnet, die die Geräusch-Immissionsanteile der im Plangebiet Nr. 280 bestehenden Betriebe abbilden.

gez.

Der Sachverständige  
Dipl.-Phys. Brokopf

(Digitale Version – ohne Unterschrift gültig)



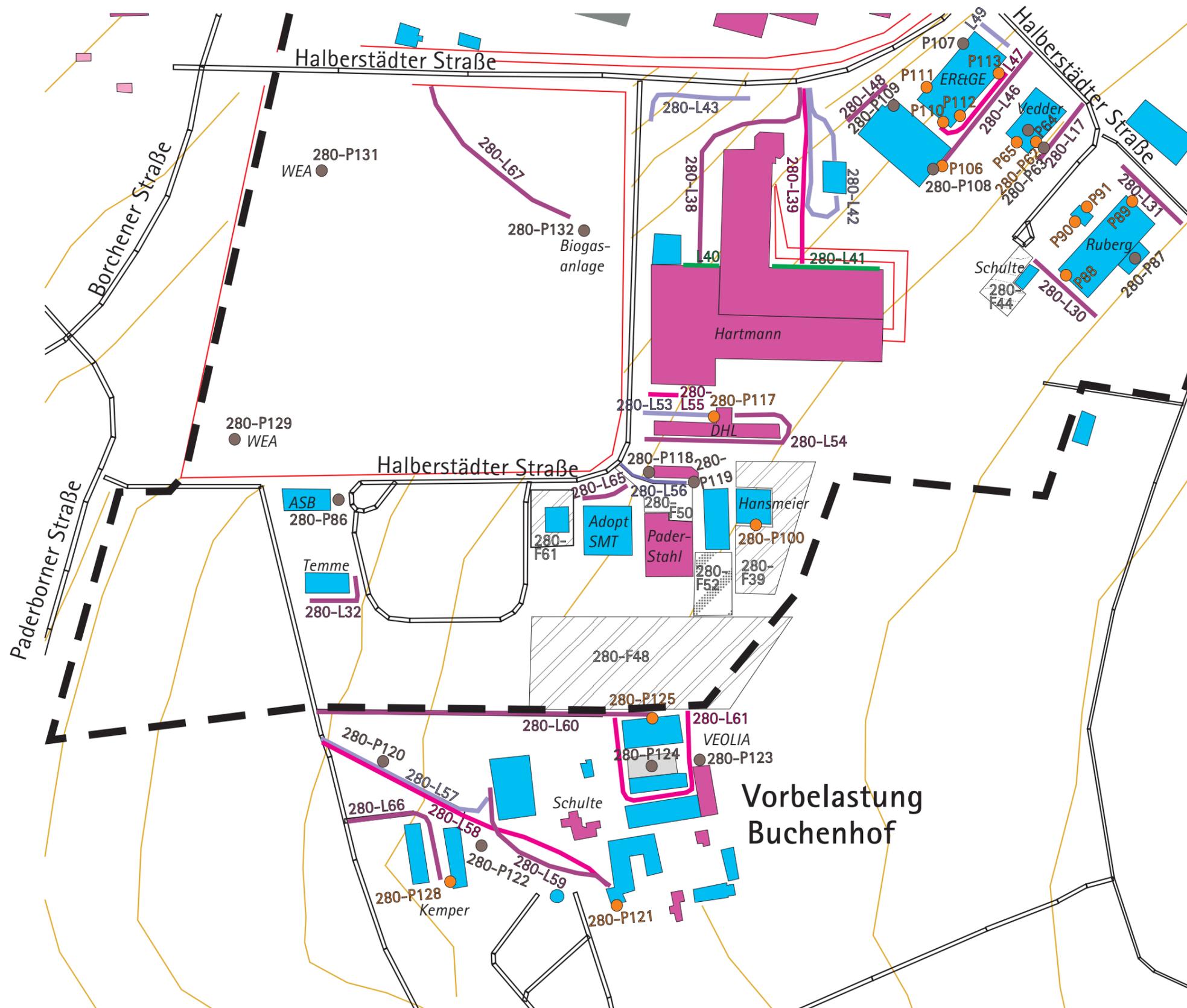


Paderborn / Bauleitplanverfahren Nr. 280 "Halberstädter Straße"  
Gesamt-Lageplan

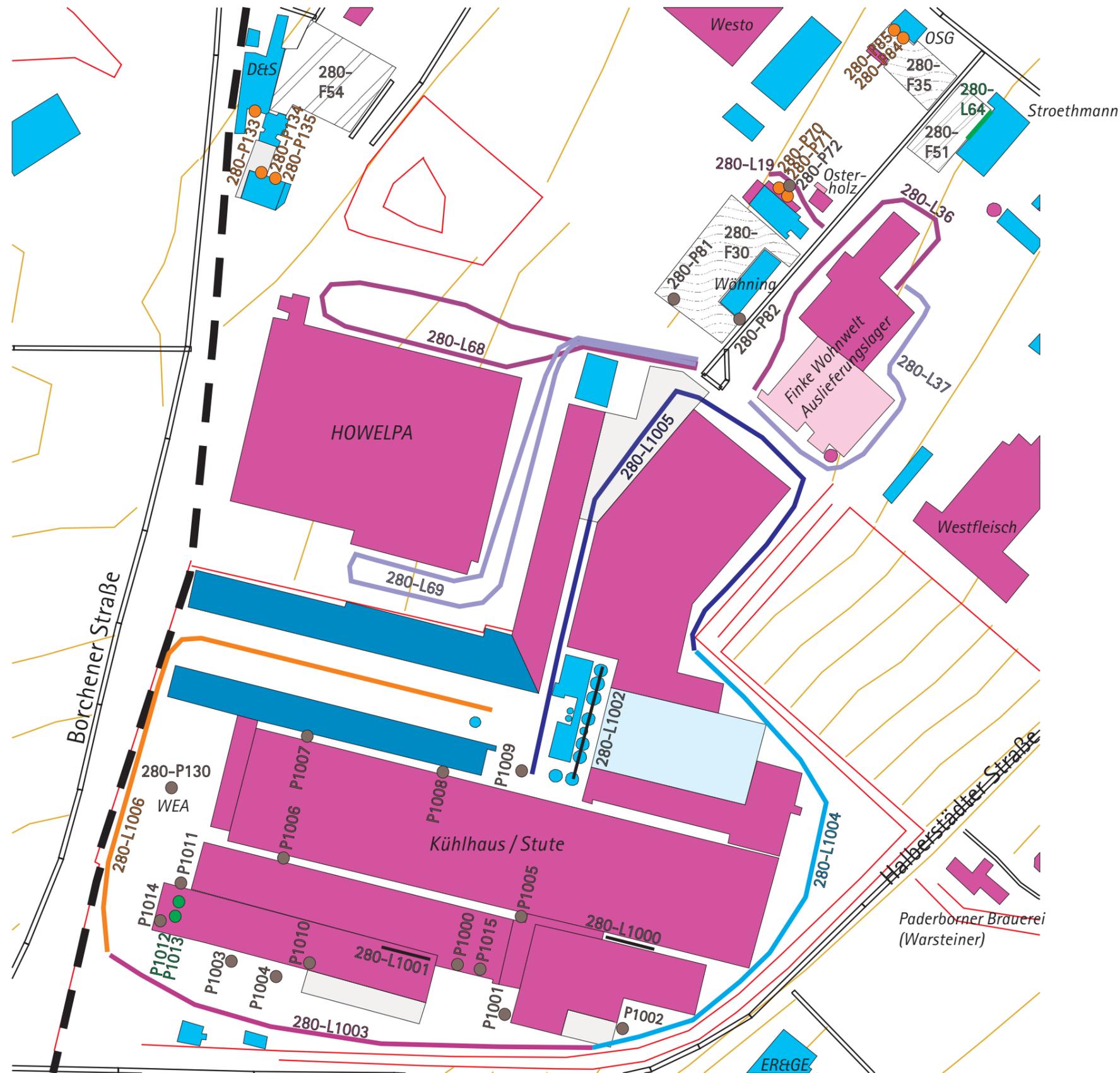


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Maßstab  
ca. 1:15.000







Paderborn / Bauleitplanverfahren Nr. 280 'Halberstädter Straße'  
Lageplan - Ausschnitt 3



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Maßstab  
1 : 3.500

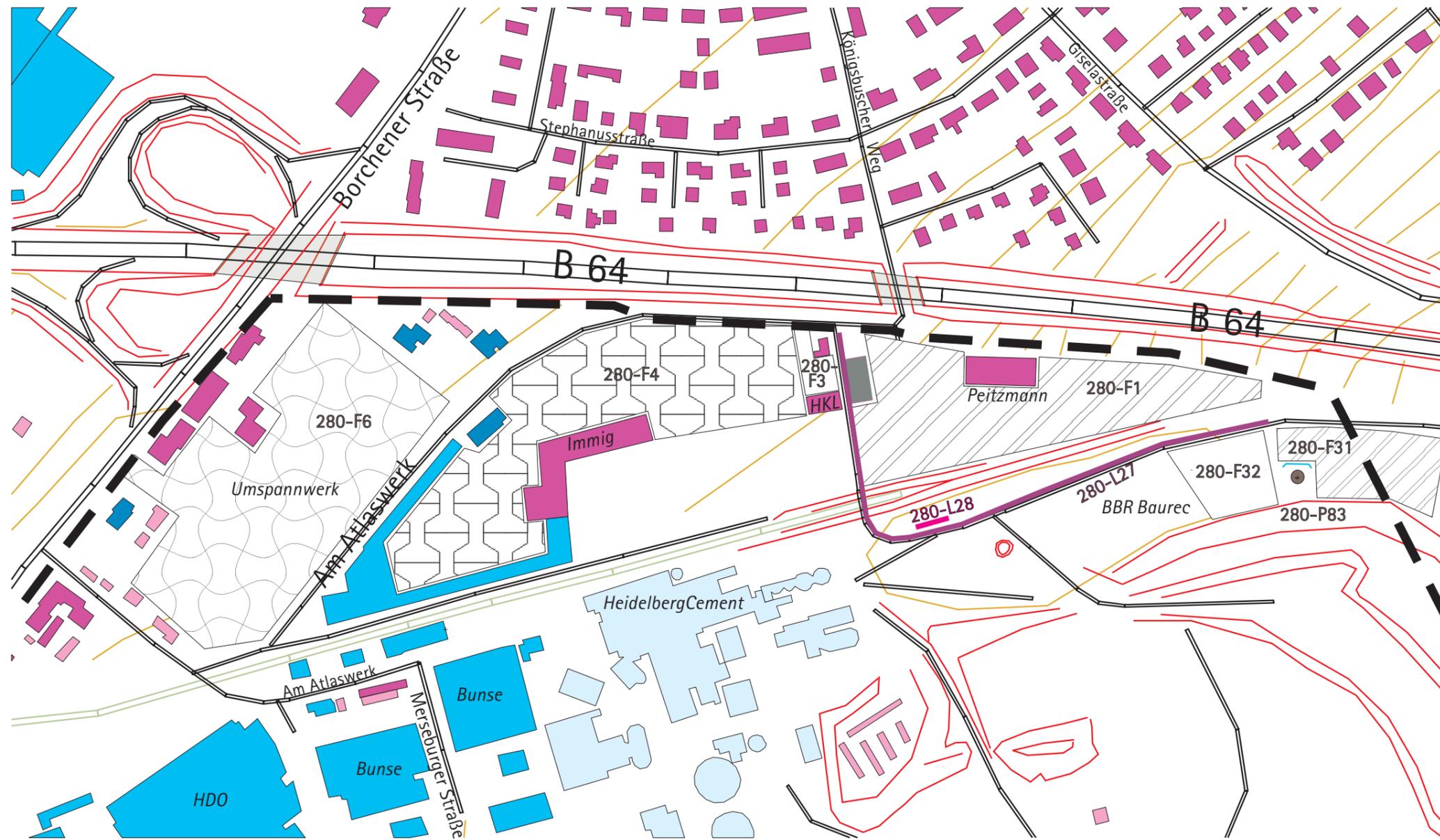


Paderborn / Bauleitplanverfahren Nr. 280 'Halberstädter Straße'  
Lageplan - Ausschnitt 4



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Maßstab  
1 : 3.500



## Geräusch-Quellen aller Firmen im B-Plan Nr. 280

Nachfolgend werden die relevanten Geräusch-Quellen aufgelistet.

Dabei gilt Folgendes: Art 0/4 = Punktschallquelle mit Emissionspegeln in dB(A),  
 Art 1 = Linienschallquelle mit Emissionspegeln in dB(A)/m,  
 Art 2/3 = Flächenschallquelle mit Emissionspegeln in dB(A)/m<sup>2</sup>.

### Firma 1 – Peitzmann GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F1                      Gesamt-Fläche	2	72.9	0.0

### Firma 2 – BBR Baurec

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F31-BBR	2	74.0	0.0
280-F32-BBR	2	70.1	0.0
280-L27-BBR	1	78.8	0.0
280-L28-BBR	1	80.8	0.0
280-P83-BBR	0	113.0	0.0

### Firma 3 – HKL Baumaschinen Center PB

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F3                      Gesamt-Fläche	2	68.8	0.0

### Firma 4 – Karl Immig Bauunternehmung

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F4                      Gesamt-Fläche	2	60.0	45.0

Firma 5 – HeidelbergCement AG

Quellen-Bezeichnung	Art	Emissionspegel		
		Tag	Nacht	
280-F5	Gesamt-Fläche	2	63.2	63.2

Firma 6 – Freiluftschaltanlage / E.ON Netz GmbH

Quellen-Bezeichnung	Art	Emissionspegel		
		Tag	Nacht	
280-F6	Gesamt-Fläche	2	47.5	47.5

Firma 7 – Raiffeisen-Warengenossenschaft

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L15-Raif	1	75.5	76.0
280-L16-Raif	1	68.3	0.0
280-PRaif	0	102.0	102.0

Firma 8 – Schreinerei Vedder

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L17-Vedd	1	61.5	0.0
280-P62-Vedd	4	99.8	0.0
280-P63-Vedd	0	96.0	0.0
280-P64-Vedd	0	89.3	0.0
280-P65-Vedd	0	75.0	0.0

Firma 9 – K & M Fördertechnik

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L18-KM	1	62.0	0.0
280-P66-KM	4	94.0	0.0
280-P67-KM	4	94.0	0.0
280-P68-KM	4	94.0	0.0
280-P69-KM	4	94.0	0.0

Firma 10 – Zimmerei Osterholz

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L19-Oste	1	79.6	0.0
280-P70-Oste	4	100.5	0.0
280-P71-Oste	4	95.5	0.0
280-P72-Oste	0	100.7	0.0

Firma 11 – Pieper – Werkstatt f. kreatives Wohnen

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L25-Piep	1	60.2	0.0
280-L26-Piep	1	72.8	0.0
280-P75-Piep	4	90.5	0.0
280-P76-Piep	0	80.8	0.0
280-P77-Piep	4	95.7	0.0
280-P78-Piep	0	85.8	0.0
280-P79-Piep	0	85.3	0.0
280-P80-Piep	0	88.3	0.0

Firma 12 – Wöhning Gas Handels GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F30-Wöhn	2	65.8	0.0
280-P81-Wöhn	0	77.7	82.0
280-P82-Wöhn	0	84.2	84.2

Firma 13 – Zentra Bauträger / Zentraleinkauf Baubedarf

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F34-ZEB	2	71.3	0.0
280-L29-ZEB	1	58.7	0.0

Firma 14 – OSG GmbH & Co. KG - Landtechnik

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F35-OSG	2	64.7	0.0
280-P84-OSG	4	110.2	0.0
280-P85-OSG	4	89.0	0.0

Firma 15 – ABS – Vertriebsges. für Antriebselemente mbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-P86-ASB	0	89.2	0.0

Firma 16 – Friemuth GmbH & Co. KG

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F36-Frie	2	69.2	67.4
280-P92-Frie	4	92.9	0.0
280-P93-Frie	0	88.0	0.0

Firma 17 – Temme GmbH & Co. KG

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L32-Tem	1	73.1	78.2

Firma 18 – BLG Autotransporte (Harms)

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F37-BLG	2	53.9	0.0
280-F38-BLG	2	0.0	65.9
280-L33-BLG	1	72.0	0.0
280-P94-BLG	0	90.7	0.0
280-P95-BLG	4	90.0	0.0
280-P96-BLG	4	90.0	0.0
280-P97-BLG	4	90.0	0.0
280-P98-BLG	4	90.0	0.0
280-P99-BLG	4	90.0	0.0

Firma 19 – Hansmeier Transporte GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F39-Hans	2	58.7	60.2
280-P100-Hans	4	87.0	0.0

Firma 20 – PPH-GmbH – Holzpaletten+Gitterboxen

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F40-PPH	2	66.0	0.0
280-P101-PPH	4	93.8	0.0

Firma 21 – Bunse Aufzüge / Bunse Maschinenbau

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F42-Bunse	2	55.0	0.0
280-F43-Bunse	2	52.5	0.0
280-L34-Bunse	1	79.2	0.0
280-L35-Bunse	1	70.8	0.0
280-P102-Bunse	4	89.8	0.0
280-P103-Bunse	4	89.8	0.0
280-P104-Bunse	0	99.0	0.0

Firma 22 – Leerstand

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F41-Leer	2	60.0	0.0

Firma 23 – Schulte GmbH - Tiefbau

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F44-Schulte	2	67.6	57.0

Firma 24 – Finke Wohnwelt - Zentrallager

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L36-Finke	1	72.5	0.0
280-L37-Finke	1	59.8	0.0

**Firma 25 – H-T-W Metall- und Fassadenbau (Welsing)**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L44-Welsing	1	79.6	0.0
280-L45-Welsing	1	73.0	0.0
280-P105-Welsing	4	97.5	0.0

**Firma 26 – Michels Verwaltung**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L50-Michels	1	73.1	0.0

**Firma 27 – Bordell (Michels)**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F45-Michels	2	55.5	58.0

**Firma 28 – Kleingewerbe (Michels)**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L51-Michels	1	68.9	0.0

**Firma 29 – Lidl-Markt**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F46-Lidl	2	64.6	0.0
280-L52-Lidl	1	59.2	0.0
280-P114-Lidl	0	95.2	0.0
280-P115-Lidl	0	85.0	0.0
280-P116-Lidl	0	75.0	0.0

Firma 30 – Deutsche Post / DHL

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L53-DHL	1	72.2	69.4
280-L54-DHL	1	70.7	0.0
280-L55-DHL	1	60.0	0.0
280-P117-DHL	0	86.0	0.0

Firma 31 – Hilti Deutschland GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L56-Hilti	1	71.3	0.0
280-P118-Hilti	0	86.0	0.0
280-P119-Hilti	0	96.0	0.0

Firma 32 – Wegener Abschlepp- und Bergedienst

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F49-Wegener	2	64.3	68.6
280-L62-Wegener	1	70.0	73.6
280-P126-Wegener	4	88.0	88.0

Firma 33 – Kesseldienst

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L63-Kessel	1	79.0	0.0

Firma 34 – Pader-Stahl Handels-GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F50-Pader	2	65.2	0.0

Firma 35 - Autowaschstraße

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-P127-Auto	0	94.0	0.0

Firma 36 - AdoptSMT Germany GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L65-Adopt	1	77.0	0.0

Firma 37 - Kaya Großhandel

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F53-Kaya	2	58.8	0.0

Firma 38 - HOWELPA Speditions GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L68-Howelpa	1	73.0	75.0
280-L69-Howelpa	1	67.8	69.8

Firma 39 - Betonwerk Mönkeloh

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F52-Beton	2	60.8	0.0

Firma 40 – Ruberg Mischtechnik GmbH & Co. KG – amixon Team

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L30-Rub	1	79.8	0.0
280-L31-Rub	1	61.9	69.1
280-P87-Rub	0	88.1	88.1
280-P88-Rub	4	78.0	78.0
280-P89-Rub	4	78.0	78.0
280-P90-Rub	4	117.8	0.0
280-P91-Rub	4	117.8	0.0

Firma 41 – F.A. Hartmann GmbH & Co. KG

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L38-Hartm	1	69.0	78.0
280-L39-Hartm	1	73.8	82.8
280-L40-Hartm	1	84.6	91.1
280-L41-Hartm	1	82.9	91.2
280-L42-Hartm	1	72.5	0.0
280-L43-Hartm	1	57.8	65.1

Firma 42 – ER & GE GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L46-ERGE	1	65.0	0.0
280-L47-ERGE	1	78.0	0.0
280-L48-ERGE	1	60.1	66.1
280-L49-ERGE	1	56.2	62.2
280-P106-ERGE	0	104.0	95.0
280-P107-ERGE	4	81.0	81.0
280-P108-ERGE	0	89.0	89.0
280-P109-ERGE	0	89.0	89.0
280-P110-ERGE	4	79.0	79.0
280-P111-ERGE	4	74.0	74.0
280-P112-ERGE	4	74.0	74.0
280-P113-ERGE	4	74.0	74.0

Firma 43 – L. Stroetmann Saat GmbH & Co. KG

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F51-Stroeth	2	60.0	0.0
280-L64-Stroeth	1	89.0	0.0

Firma 44 – Vero-Gerüstbau GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F47-Vero	2	74.3	67.6

Firma 45 – D & S Standstrahltechnik

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F54-D&S	2	70.3	67.3
280-P133-D&S	4	107.0	107.0
280-P134-D&S	4	107.0	107.0
280-P135-D&S	4	107.0	107.0

Firma 46 – Claas Industrietechnik GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F55-Claas	2	62.0	62.0
280-F56-Claas	2	57.0	57.0
280-F57-Claas	2	73.0	0.0
280-F58-Claas	2	55.7	60.7
280-F59-Claas	2	50.0	0.0
280-F60-Claas	2	45.1	0.0
280-L70-Claas	1	73.5	0.0
280-L71-Claas	1	76.5	0.0
280-L72-Claas	1	82.0	0.0
280-L73-Claas	1	80.2	77.2
280-L74-Claas	1	74.8	65.0
280-P136-Claas	4	95.0	95.0
280-P137-Claas	4	90.0	90.0
280-P138-Claas	4	90.0	90.0
280-P139-Claas	4	90.0	90.0
280-P140-Claas	4	90.0	90.0
280-P141-Claas	0	93.0	93.0
280-P142-Claas	0	96.0	96.0
280-P143-Claas	0	88.0	88.0
280-P144-Claas	0	93.6	0.0
280-P145-Claas	0	90.4	0.0
280-P146-Claas	0	89.0	0.0

Firma 47 – HDO Druckguss- und Oberflächentechnik GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F7-HDO	2	53.1	57.4
280-F8-HDO	2	48.8	0.0
280-F9-HDO	2	61.3	61.3
280-F10-HDO	2	64.0	64.0
280-F11-HDO	2	62.0	62.0
280-F12-HDO	2	63.0	63.0
280-F13-HDO	2	70.7	70.7
280-F14-HDO	2	63.8	63.8
280-L1-HDO	1	72.5	0.0
280-L2-HDO	1	68.4	68.4

**Firma 47 – HDO (Fortsetzung)**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L3-HDO	1	78.7	0.0
280-L4-HDO	1	70.8	70.8
280-L5-HDO	1	69.8	69.8
280-L6-HDO	1	70.8	70.8
280-P1-HDO	0	104.1	0.0
280-P2-HDO	0	87.1	0.0
280-P3-HDO	0	88.8	0.0
280-P4-HDO	0	88.8	0.0
280-P5-HDO	0	88.8	0.0
280-P6-HDO	0	104.0	0.0
280-P7-HDO	0	101.0	0.0
280-P8-HDO	4	96.3	96.3
280-P9-HDO	4	96.3	96.3
280-P10-HDO	4	96.3	96.3
280-P11-HDO	4	96.3	96.3
280-P12-HDO	4	97.7	97.7
280-P13-HDO	0	86.8	86.8
280-P14-HDO	0	86.8	86.8
280-P15-HDO	0	85.0	85.0
280-P16-HDO	0	107.0	107.0
280-P17-HDO	0	109.2	109.2
280-P18-HDO	0	100.7	100.7
280-P18a-HDO	0	99.7	99.7
280-P19-HDO	0	92.3	92.3
280-P19a-HDO	0	89.2	89.2
280-P20-HDO	0	89.6	89.6
280-P20a-HDO	0	89.5	89.5
280-P20b-HDO	0	80.0	80.0
280-P21-HDO	0	87.1	87.1
280-P22-HDO	0	94.1	94.1
280-P22a-HDO	0	88.3	88.3
280-P22b-HDO	0	88.3	88.3
280-P23-HDO	0	86.8	86.8
280-P24-HDO	0	92.6	92.6
280-P25-HDO	0	85.9	85.9

Firma 48 - Westfleisch

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F15-WF	2	78.5	55.9
280-F16-WF	2	51.5	57.5
280-F17-WF	2	50.6	56.7
280-F18-WF	2	68.5	68.5
280-L7-WF	1	67.8	68.0
280-L8-WF	1	63.3	63.8
280-L9a-WF	1	68.8	68.6
280-L9b-WF	1	68.8	68.6
280-L9c-WF	1	0.0	92.5
280-L10-WF	1	65.1	0.0
280-P26-WF	0	94.8	94.8
280-P27-WF	0	82.2	82.2
280-P28-WF	0	84.1	84.1
280-P29-WF	0	89.2	89.2
280-P30-WF	0	87.1	0.0
280-P31-WF	0	104.7	104.7
280-P32-WF	0	82.9	0.0
280-P33-WF	0	99.9	99.9
280-P34-WF	4	97.6	97.6
280-P35-WF	4	107.6	107.6
280-P36-WF	4	78.7	78.7
280-P37-WF	4	86.8	86.8
280-P38-WF	0	85.0	85.0
280-P39-WF	0	88.2	88.2
280-P40-WF	4	99.7	100.0
280-P41-WF	4	99.7	100.0
280-P42-WF	0	93.6	0.0
280-P43-WF	0	93.6	0.0

Firma 49 – Warsteiner Brauerei

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F19-Br	2	60.2	60.2
280-F20-Br	2	59.4	59.4
280-F21-Br	2	66.3	66.3
280-F22-Br	2	65.2	65.2
280-F23-Br	2	46.7	48.9
280-F23a-Br	Vermietete Fläche	60.0	0.0
280-L11-Br	1	75.3	75.8
280-L12-Br	1	57.8	0.0
280-L13-Br	1	92.8	0.0
280-L14-Br	1	85.1	85.1
280-P44-Br	0	91.8	0.0
280-P45-Br	0	90.7	96.7
280-P46-Br	4	95.0	95.0
280-P47-Br	4	95.0	95.0
280-P48-Br	0	111.5	111.5
280-P49-Br	4	92.6	92.6
280-P50-Br	0	88.0	88.0
280-P51-Br	0	88.0	88.0
280-P52-Br	0	81.0	81.0
280-P53-Br	0	80.0	80.0
280-P54-Br	4	91.1	91.1
280-P55-Br	4	91.1	91.1
280-P56-Br	4	91.1	91.1
280-P57-Br	4	91.1	91.1
280-P58-Br	4	91.1	91.1
280-P59-Br	4	91.1	91.1
280-P60-Br	4	91.1	91.1
280-P61-Br	4	91.1	91.1

**Firma 50 – Pöhler Entsorgung GmbH**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F24-Pöhl	3	82.0	0.0
280-F25-Pöhl	3	82.0	0.0
280-F26-Pöhl	3	82.0	0.0
280-F27-Pöhl	3	82.0	0.0
280-F28-Pöhl	3	82.0	0.0
280-F29-Pöhl	2	74.6	0.0
280-L20-Pöhl	1	79.0	75.0
280-L21-Pöhl	1	91.2	0.0
280-L22-Pöhl	1	86.4	0.0
280-L23-Pöhl	1	55.4	64.4
280-L24-Pöhl	1	76.0	0.0
280-P73-Pöhl	4	94.3	0.0
280-P74-Pöhl	0	102.1	0.0

**Firma 51 – Veolia Umweltservice West GmbH**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F48-Veolia Lagerfläche im B-Plan	2	69.9	63.9

**Firma 52 – Fläche Stute WEA's + Biogas**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-P129-WEA	0	103.5	103.5
280-P131-WEA	0	106.0	106.0
280-L67-Biogas	1	72.8	0.0
280-P132-Biogas	0	85.0	85.0

**Firma 53 – Fläche Stute**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L1000-Stut-0	1	99.0	99.0
280-L1001-Stut-0	1	74.0	74.0
280-P1000-Stut-0	0	87.0	87.0
280-P1015-Stut-0	0	85.0	85.0
280-P1001-Stut-0	0	86.8	0.0
280-P1002-Stut-0	0	86.8	0.0
280-P1003-Stut-0	0	85.7	0.0
280-P1004-Stut-0	0	98.1	0.0
280-P1005-Stut-0	0	85.3	0.0
280-P1006-Stut-0	0	95.7	95.7
280-P1007-Stut-0	0	97.7	97.7
280-P1008-Stut-0	4	87.8	87.8
280-P1009-Stut-0	0	94.7	94.7
280-L1002-Stut-0	1	66.0	66.0
280-P1010-Stut-0	0	106.4	106.4
280-L1003-Stut-0	1	74.9	70.0
280-L1004-Stut-0	1	75.3	71.2
280-L1005-Stut-0	1	70.2	69.2
280-L1006-Stut-0	1	61.1	0.0
280-P1011-Stut-0	4	97.4	97.4
280-P1012-Stut-0	0	87.5	87.5
280-P1013-Stut-0	0	87.5	87.5
280-P1014-Stut-0	0	80.0	80.0
280-P130-WEA	0	103.5	103.5

**Firma 54 – Mannesmann Mobilfunk**

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-F61	2	55.0	0.0

Firma 55 – Westo GmbH & Co. KG

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-P1018-Westo	4	74.5	74.5
280-P1016-Westo	0	100.0	0.0
280-L1006-Westo	1	68.4	0.0
280-F1000-Westo	2	61.9	61.9
280-L1007-Westo	1	68.4	0.0
280-P1017-Westo	0	88.8	0.0
280-L1008-Westo	1	61.4	67.4
280-L1009-Westo	1	59.7	65.7
280-P1019-Westo	0	87.0	0.0
280-P1020-Westo	0	72.8	72.8
280-P1021-Westo	0	72.8	72.8
280-P1022-Westo	4	68.0	68.0
280-P1023-Westo	4	95.6	95.6
280-L1010-Westo	1	55.0	55.0
280-L1011-Westo	1	55.0	55.0
280-L1012-Westo	1	49.5	49.5

*Vorbelastung durch Betriebe des Buchenhofes in Borchten*

Veolia Umweltservice West GmbH

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L60-Veolia	1	77.6	75.7
280-L61-Veolia	1	85.1	0.0
280-P123-Veolia	0	108.8	0.0
280-P124-Veolia	0	105.0	0.0
280-P125-Veolia	4	89.5	0.0

Schulte Forst- & Gartentechnik

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L57-Schulte	1	61.0	0.0
280-L58-Schulte	1	56.9	0.0
280-L59-Schulte	1	73.1	0.0
280-P120-Schulte	0	0.0	92.2
280-P121-Schulte	4	92.0	0.0
280-P122-Schulte	0	88.0	0.0

Kemper – KFZ-Reparaturen

Quellen-Bezeichnung	Art	Emissionspegel	
		Tag	Nacht
280-L66-Kemper	1	60.4	0.0
280-P128-Kemper	4	89.0	0.0

Projekt: Paderborn

Datum: 03.12.2010

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

Anlage 5, Bl. 1

BLP-08 1139 01A

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
															m
280-F1	16255.5	2	72.9	0.0	137.0	3.0	0.0	0.0	-58.3	-4.3	-0.4	-3.8	49.9	0.0	
280-F10-HDO	2162.7	2	64.0	64.0	699.6	3.0	0.0	0.0	-68.5	-4.5	-1.4	-1.8	22.4	22.4	
280-F1000-Westo	2032.4	2	61.9	61.9	916.5	3.0	0.0	0.0	-70.4	-4.7	-1.8	-11.4	7.8	7.8	
280-F11-HDO	1492.8	2	62.0	62.0	639.8	3.0	0.0	0.0	-67.5	-4.4	-1.3	-2.5	19.2	19.2	
280-F12-HDO	1142.9	2	63.0	63.0	595.3	3.0	0.0	0.0	-66.8	-4.4	-1.2	-2.6	19.8	19.8	
280-F13-HDO	5597.6	2	70.7	70.7	525.8	3.0	0.0	0.0	-66.4	-4.6	-1.1	-2.0	35.4	35.4	
280-F14-HDO	6338.7	2	63.8	63.8	494.6	3.0	0.0	0.0	-65.7	-4.6	-1.0	-1.3	30.4	30.4	
280-F15-WF	5382.7	2	78.5	55.9	1309.5	3.0	0.0	0.0	-73.6	-4.8	-2.6	-12.6	23.3	0.7	
280-F16-WF	3647.5	2	51.5	57.5	1341.7	3.0	0.0	0.0	-73.9	-4.8	-2.6	-11.4	-4.5	1.5	
280-F17-WF	1749.8	2	50.6	56.7	1442.5	3.0	0.0	0.0	-74.4	-4.8	-2.8	-9.4	-7.3	-1.2	
280-F18-WF	7943.3	2	68.5	68.5	1245.6	3.0	0.0	0.0	-73.5	-4.6	-2.5	-4.0	24.0	24.0	
280-F19-Br	14996.8	2	60.2	60.2	1400.7	3.0	0.0	0.0	-74.7	-4.8	-2.9	-10.4	10.4	10.4	
280-F20-Br	9099.1	2	59.4	59.4	1589.8	3.0	0.0	0.0	-75.4	-4.8	-3.1	-13.2	3.6	3.6	
280-F21-Br	5345.6	2	66.3	66.3	1551.3	3.0	0.0	0.0	-75.2	-4.7	-3.0	-6.5	15.3	15.3	
280-F22-Br	22233.1	2	65.2	65.2	1421.2	3.0	0.0	0.0	-74.7	-4.7	-2.9	-4.2	23.4	23.4	
280-F23-Br	5807.6	2	46.7	48.9	1482.7	3.0	0.0	0.0	-74.8	-4.8	-2.9	-8.9	-6.0	-3.8	
280-F23a-Br	4111.5	2	60.0	0.0	1799.9	3.0	0.0	0.0	-76.3	-4.7	-3.5	-5.0	7.7	0.0	
280-F24-Pöhl	85.3	3	82.0	0.0	648.9	6.0	0.0	0.0	-69.7	-4.6	-1.6	-14.6	15.0	0.0	
280-F25-Pöhl	9.0	3	82.0	0.0	914.5	6.0	0.0	0.0	-70.2	-4.7	-1.7	-20.4	-1.3	0.0	
280-F26-Pöhl	43.3	3	82.0	0.0	958.9	6.0	0.0	0.0	-70.8	-4.6	-1.8	-17.7	7.8	0.0	
280-F27-Pöhl	35.2	3	82.0	0.0	955.0	6.0	0.0	0.0	-70.7	-4.6	-1.8	-18.1	6.5	0.0	
280-F28-Pöhl	37.8	3	82.0	0.0	907.6	6.0	0.0	0.0	-70.2	-4.7	-1.7	-5.7	19.7	0.0	
280-F29-Pöhl	4008.7	2	74.6	0.0	969.7	3.0	0.0	0.0	-70.9	-4.7	-1.9	-8.6	25.6	0.0	
280-F3	901.6	2	68.8	0.0	92.9	3.0	0.0	0.0	-52.5	-4.0	-0.2	-4.5	39.5	0.0	
280-F30-Wohn	5358.0	2	65.8	0.0	1128.0	3.0	0.0	0.0	-72.4	-4.8	-2.3	-10.2	14.5	0.0	
280-F31-BBR	5308.8	2	74.0	0.0	436.4	3.0	0.0	0.0	-65.0	-4.6	-1.0	-0.4	41.5	0.0	
280-F32-BBR	3296.1	2	70.1	0.0	368.8	3.0	0.0	0.0	-63.3	-4.6	-0.8	-5.5	32.4	0.0	
280-F34-ZEB	4709.8	2	71.3	0.0	1254.6	3.0	0.0	0.0	-73.1	-4.8	-2.4	-9.3	19.4	0.0	
280-F35-OSG	2084.5	2	64.7	0.0	968.0	3.0	0.0	0.0	-70.9	-4.7	-1.9	-8.4	13.1	0.0	
280-F36-Frie	3953.7	2	69.2	67.4	1180.9	3.0	0.0	0.0	-72.8	-4.8	-2.3	-5.0	21.5	19.7	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 2  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>C</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
															m
280-F37-BLG	18492.7	2	53.9	0.0	1268.4	3.0	0.0	0.0	-73.6	-4.8	-2.6	-7.7	9.0	0.0	
280-F38-BLG	2924.2	2	0.0	65.9	1289.1	3.0	0.0	0.0	-73.5	-4.8	-2.5	-7.0	0.0	13.9	
280-F39-Hans	4497.8	2	58.7	60.2	2146.5	3.0	0.0	0.0	-77.8	-4.8	-4.2	-8.2	1.3	2.8	
280-F4	22856.0	2	60.0	45.0	65.5	3.0	0.0	0.0	-53.5	-3.9	-0.2	-4.8	43.5	28.5	
280-F40-PPH	2103.8	2	66.0	0.0	1208.2	3.0	0.0	0.0	-72.8	-4.7	-2.3	-9.5	11.0	0.0	
280-F41-Leer	1563.1	2	60.0	0.0	1168.8	3.0	0.0	0.0	-72.4	-4.8	-2.3	-12.1	1.4	0.0	
280-F42-Bunse	214.3	2	55.0	0.0	338.0	3.0	0.0	0.0	-61.7	-4.4	-0.7	-2.9	10.0	0.0	
280-F43-Bunse	899.5	2	52.5	0.0	440.1	3.0	0.0	0.0	-64.2	-4.6	-0.9	-7.1	6.5	0.0	
280-F44-Schulte	1153.5	2	67.6	57.0	1947.9	3.0	0.0	0.0	-76.9	-4.7	-3.8	-9.3	4.6	-6.0	
280-F45-Michels	440.6	2	55.5	58.0	999.8	3.0	0.0	0.0	-71.1	-4.7	-1.9	-4.8	0.5	3.0	
280-F47-Vero	5508.1	2	74.3	67.6	421.1	3.0	0.0	0.0	-64.3	-4.5	-0.9	-15.1	28.2	21.5	
280-F48-Veolia	14791.1	2	69.9	63.9	2279.3	3.0	0.0	0.0	-78.4	-4.8	-4.4	-7.5	17.6	11.6	
280-F49-Wegener	1099.0	2	64.3	68.6	1021.8	3.0	0.0	0.0	-71.2	-4.7	-2.0	-8.0	9.7	14.0	
280-F5	47533.5	2	63.2	63.2	222.4	3.0	0.0	0.0	-61.2	-4.2	-0.6	-1.7	44.1	44.1	
280-F50-Pader	1250.3	2	65.2	0.0	2185.4	3.0	0.0	0.0	-77.9	-4.8	-4.2	-12.3	-1.9	0.0	
280-F51-Stroeth	2098.9	2	60.0	0.0	1007.0	3.0	0.0	0.0	-71.3	-4.7	-2.0	-5.9	10.4	0.0	
280-F52-Beton	1648.2	2	60.8	0.0	2235.6	3.0	0.0	0.0	-78.1	-4.8	-4.3	-9.9	-3.0	0.0	
280-F53-Kaya	5200.0	2	58.8	0.0	1072.9	3.0	0.0	0.0	-71.8	-4.8	-2.1	-5.5	12.9	0.0	
280-F54-D&S	5058.2	2	70.3	67.3	1135.2	3.0	0.0	0.0	-72.3	-4.7	-2.2	-4.6	24.6	21.6	
280-F55-Claas	1309.2	2	62.0	62.0	620.1	3.0	0.0	0.0	-67.3	-4.6	-1.2	-8.3	13.0	13.0	
280-F56-Claas	17139.6	2	57.0	57.0	511.5	3.0	0.0	0.0	-67.0	-4.5	-1.3	-4.9	22.8	22.8	
280-F57-Claas	9015.7	2	73.0	0.0	583.9	3.0	0.0	0.0	-67.4	-4.6	-1.3	-10.9	29.5	0.0	
280-F58-Claas	10256.5	2	55.7	60.7	765.5	3.0	0.0	0.0	-69.3	-4.7	-1.6	-10.7	10.6	15.6	
280-F59-Claas	1999.9	2	50.0	0.0	792.7	3.0	0.0	0.0	-69.3	-4.7	-1.5	-14.2	-5.5	0.0	
280-F6	28054.3	2	47.5	47.5	229.0	3.0	0.0	0.0	-61.8	-4.5	-0.7	-2.6	23.9	23.9	
280-F60-Claas	1253.1	2	45.1	0.0	773.7	3.0	0.0	0.0	-69.0	-4.7	-1.5	-11.2	-9.1	0.0	
280-F61-Mannes	1618.1	2	55.0	0.0	2218.5	3.0	0.0	0.0	-78.0	-4.8	-4.3	-3.3	-2.2	0.0	
280-F7-HDO	6151.8	2	53.1	57.4	572.3	3.0	0.0	0.0	-67.0	-4.7	-1.2	-1.1	18.2	22.5	
280-F8-HDO	1603.2	2	48.8	0.0	671.8	3.0	0.0	0.0	-67.9	-4.6	-1.4	-8.2	-0.3	0.0	
280-F9-HDO	3388.4	2	61.3	61.3	665.8	3.0	0.0	0.0	-68.1	-4.6	-1.4	-1.5	22.2	22.2	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 3  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-L1-HDO	278.0	1	1	72.5	0.0	618.9	3.0	0.0	0.0	-67.5	-4.6	-1.3	-9.8	14.9	0.0
280-L10-WF	877.0	1	1	65.1	0.0	1122.9	3.0	0.0	0.0	-73.0	-4.8	-2.4	-10.5	5.0	0.0
280-L1000-Stute	40.0	1	1	99.0	99.0	1724.4	3.0	0.0	0.0	-75.8	-4.6	-3.3	-10.1	22.4	22.4
280-L1001-Stute	40.0	1	1	74.0	74.0	1778.7	3.0	0.0	0.0	-76.0	-4.6	-3.4	-10.1	-2.9	-2.9
280-L1002-Stute	92.7	1	1	66.0	66.0	1525.8	3.0	0.0	0.0	-74.9	-4.7	-3.0	-13.2	-8.9	-8.9
280-L1003-Stute	399.0	1	1	74.9	70.0	1812.9	3.0	0.0	0.0	-76.4	-4.8	-3.5	-11.8	5.5	0.6
280-L1004-Stute	455.0	1	1	75.3	71.2	1490.3	3.0	0.0	0.0	-75.4	-4.8	-3.1	-11.2	8.5	4.4
280-L1005-Stute	625.2	1	1	70.2	69.2	1288.3	3.0	0.0	0.0	-74.0	-4.8	-2.7	-12.6	5.3	4.3
280-L1006-Stute	515.2	1	1	61.1	0.0	1574.2	3.0	0.0	0.0	-75.4	-4.7	-3.3	-11.5	-5.6	0.0
280-L1006-West	632.4	1	1	68.4	0.0	841.9	3.0	0.0	0.0	-70.5	-4.7	-1.8	-11.2	9.3	0.0
280-L1007-West	230.1	1	1	68.4	0.0	902.6	3.0	0.0	0.0	-70.6	-4.7	-1.8	-11.1	4.9	0.0
280-L1008-West	115.1	1	1	61.4	67.4	865.1	3.0	0.0	0.0	-69.9	-4.7	-1.7	-8.9	-2.1	3.9
280-L1009-West	32.1	1	1	59.7	65.7	848.6	3.0	0.0	0.0	-69.7	-4.7	-1.6	-10.9	-10.9	-4.9
280-L1010-West	105.0	1	1	55.0	55.0	958.0	3.0	0.0	0.0	-70.9	-4.6	-1.8	-2.9	-3.8	-3.8
280-L1011-West	105.0	1	1	55.0	55.0	972.8	3.0	0.0	0.0	-70.8	-4.6	-1.9	-2.6	-3.6	-3.6
280-L1012-West	84.9	1	1	49.5	49.5	933.2	3.0	0.0	0.0	-70.5	-4.5	-1.8	-3.3	-10.2	-10.2
280-L11-Br	278.6	1	1	75.3	75.8	1601.7	3.0	0.0	0.0	-75.4	-4.8	-3.1	-10.7	6.9	7.4
280-L12-Br	399.9	1	1	57.8	0.0	1423.4	3.0	0.0	0.0	-74.9	-4.8	-2.9	-10.4	-8.1	0.0
280-L13-Br	130.6	1	1	92.8	0.0	1603.9	3.0	0.0	0.0	-75.4	-4.8	-3.1	-8.6	23.2	0.0
280-L14-Br	17.0	1	1	85.1	85.1	1566.5	3.0	0.0	0.0	-74.9	-4.8	-3.0	-11.0	4.8	4.8
280-L15-Raif	295.1	1	1	75.5	76.0	987.3	3.0	0.0	0.0	-71.5	-4.7	-2.0	-5.2	17.9	18.4
280-L16-Raif	356.5	1	1	68.3	0.0	987.8	3.0	0.0	0.0	-71.6	-4.7	-2.0	-5.7	10.9	0.0
280-L17-Vedd	60.5	1	1	61.5	0.0	1819.4	3.0	0.0	0.0	-76.4	-4.7	-3.5	-3.2	-7.4	0.0
280-L18-KM	54.7	1	1	62.0	0.0	1276.0	3.0	0.0	0.0	-73.2	-4.8	-2.4	-8.9	-8.8	0.0
280-L19-Oste	65.2	1	1	79.6	0.0	1100.6	3.0	0.0	0.0	-71.9	-4.7	-2.1	-10.3	9.8	0.0
280-L2-HDO	574.1	1	1	68.4	68.4	478.6	3.0	0.0	0.0	-66.0	-4.6	-1.1	-6.5	19.0	19.0
280-L20-Pöhl	272.9	1	1	79.0	75.0	830.8	3.0	0.0	0.0	-70.2	-4.7	-1.8	-9.2	18.6	14.6
280-L21-Pöhl	230.1	1	1	91.2	0.0	874.2	3.0	0.0	0.0	-70.7	-4.7	-1.8	-6.8	31.9	0.0
280-L22-Pöhl	175.4	1	1	86.4	0.0	1020.8	3.0	0.0	0.0	-71.2	-4.8	-2.0	-11.5	20.4	0.0
280-L23-Pöhl	144.9	1	1	55.4	64.4	829.5	3.0	0.0	0.0	-70.0	-4.7	-1.7	-7.3	-5.6	3.4

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 4  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L24-Pöhl	89.9	1	76.0	0.0	842.3	3.0	0.0	0.0	-69.8	-4.7	-1.7	-1.0	19.5	0.0	
280-L25-Piep	30.0	1	60.2	0.0	1203.5	3.0	0.0	0.0	-72.7	-4.8	-2.3	-8.6	-12.3	0.0	
280-L26-Piep	105.2	1	72.8	0.0	1219.1	3.0	0.0	0.0	-72.8	-4.8	-2.3	-9.0	5.2	0.0	
280-L27-BBR	447.7	1	78.8	0.0	121.2	3.0	0.0	0.0	-58.2	-4.3	-0.5	-6.3	37.6	0.0	
280-L28-BBR	24.9	1	80.8	0.0	260.0	3.0	0.0	0.0	-59.4	-4.5	-0.5	-4.8	27.1	0.0	
280-L29-ZEB	109.9	1	58.7	0.0	1256.5	3.0	0.0	0.0	-73.2	-4.8	-2.5	-8.7	-9.0	0.0	
280-L3-HDO	40.0	1	78.7	0.0	795.3	3.0	0.0	0.0	-69.1	-4.7	-1.5	-15.8	4.9	0.0	
280-L30-Rub	70.1	1	79.8	0.0	1960.1	3.0	0.0	0.0	-77.1	-4.8	-3.8	-10.4	3.5	0.0	
280-L31-Rub	70.1	1	61.9	69.1	1875.5	3.0	0.0	0.0	-76.6	-4.7	-3.6	-8.3	-11.7	-4.5	
280-L32-Tem	60.1	1	73.1	78.2	2343.3	3.0	0.0	0.0	-78.5	-4.8	-4.5	-7.0	-2.8	2.3	
280-L33-BLG	62.7	1	72.0	0.0	1289.5	3.0	0.0	0.0	-73.5	-4.8	-2.5	-9.4	0.9	0.0	
280-L34-Bunse	120.2	1	79.2	0.0	374.9	3.0	0.0	0.0	-63.3	-4.5	-0.8	-11.4	21.3	0.0	
280-L35-Bunse	74.5	1	70.8	0.0	471.8	6.0	0.0	0.0	-64.7	-4.5	-0.9	-12.3	11.4	0.0	
280-L36-Finke	299.9	1	72.5	0.0	1102.2	3.0	0.0	0.0	-72.3	-4.7	-2.2	-7.7	11.5	0.0	
280-L37-Finke	279.9	1	59.8	0.0	1172.4	3.0	0.0	0.0	-73.0	-4.8	-2.3	-10.6	-5.3	0.0	
280-L38-Hartm	207.5	1	69.0	78.0	1847.6	3.0	0.0	0.0	-76.7	-4.7	-3.6	-8.1	0.2	9.2	
280-L39-Hartm	146.6	1	73.8	82.8	1849.7	3.0	0.0	0.0	-76.7	-4.7	-3.6	-7.9	3.7	12.7	
280-L4-HDO	158.1	1	70.8	70.8	700.3	3.0	0.0	0.0	-68.3	-4.5	-1.4	-5.4	14.5	14.5	
280-L40-Hartm	30.0	1	84.6	91.1	2003.1	3.0	0.0	0.0	-77.1	-4.7	-3.8	-7.6	7.4	13.9	
280-L41-Hartm	89.9	1	82.9	91.2	1978.1	3.0	0.0	0.0	-76.9	-4.8	-3.8	-8.5	9.5	17.8	
280-L42-Hartm	208.9	1	72.5	0.0	1848.7	3.0	0.0	0.0	-76.6	-4.7	-3.6	-8.4	3.5	0.0	
280-L43-Hartm	100.2	1	57.8	65.1	1861.2	3.0	0.0	0.0	-76.5	-4.7	-3.6	-7.8	-13.7	-6.4	
280-L44-Welsing	55.0	1	79.6	0.0	1190.2	3.0	0.0	0.0	-72.6	-4.7	-2.3	-15.5	3.0	0.0	
280-L45-Welsing	30.0	1	73.0	0.0	1152.7	3.0	0.0	0.0	-72.3	-4.7	-2.2	-4.6	5.1	0.0	
280-L46-ERGE	118.9	1	65.0	0.0	1780.9	3.0	0.0	0.0	-76.3	-4.7	-3.4	-5.0	-2.6	0.0	
280-L47-ERGE	80.0	1	78.0	0.0	1806.6	3.0	0.0	0.0	-76.2	-4.7	-3.5	-12.8	0.9	0.0	
280-L48-ERGE	45.0	1	60.1	66.1	1831.1	3.0	0.0	0.0	-76.3	-4.8	-3.5	-8.3	-15.2	-9.2	
280-L49-ERGE	30.1	1	56.2	62.2	1768.0	3.0	0.0	0.0	-75.9	-4.6	-3.4	-5.6	-17.5	-11.5	
280-L5-HDO	120.5	1	69.8	69.8	637.9	3.3	0.0	0.0	-66.4	-4.4	-1.2	-5.1	15.4	15.4	
280-L50-Michels	319.9	1	73.1	0.0	775.8	3.0	0.0	0.0	-69.7	-4.7	-1.6	-8.5	14.8	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkel- maß K <sub>C</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dampf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
															m
280-L53-DHL	60.4	1	72.2	69.4	2125.2	3.0	0.0	0.0	-77.6	-4.8	-4.0	-10.9	-6.2	-9.0	
280-L54-DHL	180.3	1	70.7	0.0	2113.7	3.0	0.0	0.0	-77.7	-4.8	-4.0	-11.4	-3.4	0.0	
280-L55-DHL	25.4	1	60.0	0.0	2115.3	3.0	0.0	0.0	-77.6	-4.8	-4.0	-14.9	-26.1	0.0	
280-L56-Hilti	60.8	1	71.3	0.0	2185.5	3.0	0.0	0.0	-77.8	-4.8	-4.2	-12.2	-8.8	0.0	
280-L6-HDO	89.9	1	70.8	70.8	602.9	3.2	0.0	0.0	-65.5	-4.3	-1.1	-5.6	15.5	15.5	
280-L62-Wegener	138.7	1	70.0	73.6	1073.6	3.0	0.0	0.0	-71.8	-4.8	-2.1	-6.3	7.5	11.1	
280-L63-Kessel	16.0	1	79.0	0.0	1059.7	3.0	0.0	0.0	-71.5	-4.7	-2.0	-14.2	-0.3	0.0	
280-L64-Stroeth	30.0	1	89.0	0.0	1025.1	3.0	0.0	0.0	-71.3	-4.7	-2.0	-6.4	20.5	0.0	
280-L65-Adopt	40.5	1	77.0	0.0	2202.8	3.0	0.0	0.0	-77.9	-4.8	-4.2	-8.6	-1.3	0.0	
280-L67-Biogas	164.8	1	72.8	0.0	1937.3	3.0	0.0	0.0	-77.0	-4.8	-3.7	-7.6	3.0	0.0	
280-L68-Howelpa	635.3	1	73.0	75.0	1262.7	3.0	0.0	0.0	-73.2	-4.8	-2.5	-4.5	17.1	19.1	
280-L69-Howelpa	863.0	1	67.8	69.8	1263.1	3.0	0.0	0.0	-73.9	-4.8	-2.6	-6.1	10.9	12.9	
280-L7-WF	739.6	1	67.8	68.0	1169.9	3.0	0.0	0.0	-73.2	-4.8	-2.4	-10.5	6.7	6.9	
280-L70-Claas	179.9	1	73.5	0.0	574.3	3.0	0.0	0.0	-67.1	-4.6	-1.2	-12.5	11.9	0.0	
280-L71-Claas	90.2	1	76.5	0.0	695.4	3.0	0.0	0.0	-68.1	-4.7	-1.4	-10.2	12.8	0.0	
280-L72-Claas	100.2	1	82.0	0.0	678.8	3.0	0.0	0.0	-68.0	-4.7	-1.3	-12.8	16.6	0.0	
280-L73-Claas	150.0	1	80.2	77.2	490.0	3.0	0.0	0.0	-65.5	-4.6	-1.0	-7.3	24.8	21.8	
280-L74-Claas	685.5	1	74.8	65.0	496.2	3.0	0.0	0.0	-67.5	-4.6	-1.3	-11.3	19.7	9.9	
280-L8-WF	438.5	1	63.3	63.8	1252.4	3.0	0.0	0.0	-73.6	-4.8	-2.5	-9.6	0.3	0.8	
280-L9a-WF	27.5	1	68.8	68.6	1308.9	3.0	0.0	0.0	-73.4	-4.7	-2.5	-18.4	-14.7	-14.9	
280-L9b-WF	27.9	1	68.8	68.6	1378.3	6.0	0.0	0.0	-73.9	-4.8	-2.6	-12.7	-6.6	-6.8	
280-L9c-WF	45.0	1	0.0	92.5	1237.9	3.0	0.0	0.0	-72.9	-4.7	-2.4	-6.5	0.0	23.6	
280-P1-HDO	1.0	0	104.1	0.0	629.1	3.0	0.0	0.0	-67.0	-4.6	-1.2	-6.5	26.0	0.0	
280-P10-HDO	1.0	0	96.3	96.3	581.4	6.0	0.0	0.0	-66.3	-4.6	-1.1	-1.7	26.8	26.8	
280-P100-Hans	1.0	0	87.0	0.0	2205.9	6.0	0.0	0.0	-77.9	-4.8	-4.2	-17.0	-12.8	0.0	
280-P1000-Stute	1.0	0	87.0	87.0	1776.1	3.0	0.0	0.0	-76.0	-4.7	-3.4	-5.3	-1.3	-1.3	
280-P1001-Stute	1.0	0	86.8	0.0	1804.5	3.0	0.0	0.0	-76.1	-4.8	-3.5	-12.4	-8.8	0.0	
280-P1002-Stute	1.0	0	86.8	0.0	1794.7	3.0	0.0	0.0	-76.1	-4.8	-3.4	-13.2	-9.6	0.0	
280-P1003-Stute	1.0	0	85.7	0.0	1835.8	3.0	0.0	0.0	-76.3	-4.8	-3.5	-15.8	-13.6	0.0	
280-P1004-Stute	1.0	0	98.1	0.0	1831.8	3.0	0.0	0.0	-76.3	-4.8	-3.5	-17.6	-3.0	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Refi</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P1005-Stute	1.0	0	85.3	0.0	1724.9	3.0	0.0	0.0	-75.7	-4.8	-3.3	-18.4	-15.8	0.0	
280-P1006-Stute	1.0	0	95.7	95.7	1741.1	3.0	0.0	0.0	-75.8	-4.8	-3.3	-18.1	-5.2	-5.2	
280-P1007-Stute	1.0	0	97.7	97.7	1645.5	3.0	0.0	0.0	-75.3	-4.7	-3.1	-20.3	-4.7	-4.7	
280-P1008-Stute	1.0	0	87.8	87.8	1635.1	6.0	0.0	0.0	-75.3	-4.8	-3.1	-18.6	-9.9	-9.9	
280-P1009-Stute	1.0	0	94.7	94.7	1613.0	3.0	0.0	0.0	-75.2	-4.8	-3.0	-8.0	4.8	4.8	
280-P101-PPH	1.0	0	93.8	0.0	1213.3	6.0	0.0	0.0	-72.7	-4.7	-2.3	-18.5	-0.3	0.0	
280-P1010-Stute	1.0	0	106.4	106.4	1813.9	3.0	0.0	0.0	-76.2	-4.7	-3.5	-1.4	21.7	21.7	
280-P1011-Stute	1.0	0	97.4	97.4	1795.0	6.0	0.0	0.0	-76.1	-4.8	-3.4	-8.8	8.4	8.4	
280-P1012-Stute	1.0	0	87.5	87.5	1806.8	3.0	0.0	0.0	-76.1	-4.7	-3.5	-1.2	3.1	3.1	
280-P1013-Stute	1.0	0	87.5	87.5	1818.0	3.0	0.0	0.0	-76.2	-4.7	-3.5	-1.2	3.0	3.0	
280-P1014-Stute	1.0	0	80.0	80.0	1826.7	3.0	0.0	0.0	-76.2	-4.6	-3.6	-0.1	-3.3	-3.3	
280-P1015-Stute	1.0	0	85.0	85.0	1775.1	3.0	0.0	0.0	-76.0	-4.7	-3.4	-4.9	-2.9	-2.9	
280-P1016-Westö	1.0	0	100.0	0.0	984.1	3.0	0.0	0.0	-70.9	-4.7	-1.9	-15.3	8.3	0.0	
280-P1017-Westö	1.0	0	88.8	0.0	1026.4	3.0	0.0	0.0	-71.2	-4.7	-1.9	-14.1	-2.1	0.0	
280-P1018-Westö	1.0	0	74.5	74.5	941.6	6.0	0.0	0.0	-70.5	-4.7	-1.8	-7.4	-5.7	-5.7	
280-P1019-Westö	1.0	0	87.0	0.0	1004.7	3.0	0.0	0.0	-71.0	-4.7	-1.9	-12.3	-1.8	0.0	
280-P102-Bunse	1.0	0	89.8	0.0	370.5	6.0	0.0	0.0	-62.4	-4.5	-0.7	-17.9	8.7	0.0	
280-P1020-Westö	1.0	0	72.8	72.8	961.3	3.0	0.0	0.0	-70.7	-4.7	-1.8	-5.8	-9.1	-9.1	
280-P1021-Westö	1.0	0	72.8	72.8	964.8	3.0	0.0	0.0	-70.7	-4.7	-1.8	-6.2	-9.5	-9.5	
280-P1022-Westö	1.0	0	68.0	68.0	1002.5	6.0	0.0	0.0	-71.0	-4.7	-1.9	-20.0	-25.4	-25.4	
280-P1023-Westö	1.0	0	95.6	95.6	916.3	6.0	0.0	0.0	-70.2	-4.6	-1.8	-12.6	10.7	10.7	
280-P103-Bunse	1.0	0	89.8	0.0	345.4	6.0	0.0	0.0	-61.8	-4.4	-0.6	-8.0	19.3	0.0	
280-P104-Bunse	1.0	0	99.0	0.0	381.5	3.0	0.0	0.0	-62.6	-4.5	-0.7	-15.0	17.5	0.0	
280-P105-Welsing	1.0	0	97.5	0.0	1187.7	6.0	0.0	0.0	-72.5	-4.7	-2.2	-17.1	5.0	0.0	
280-P106-ERGE	1.0	0	104.0	95.0	1885.8	3.0	0.0	0.0	-76.5	-4.7	-3.6	-12.5	7.8	-1.2	
280-P107-ERGE	1.0	0	81.0	81.0	1781.9	6.0	0.0	0.0	-76.0	-4.7	-3.4	-6.1	-5.1	-5.1	
280-P108-ERGE	1.0	0	89.0	89.0	1886.3	3.0	0.0	0.0	-76.5	-4.7	-3.6	-15.4	-10.1	-10.1	
280-P109-ERGE	1.0	0	89.0	89.0	1840.2	3.0	0.0	0.0	-76.3	-4.6	-3.5	-5.8	-0.1	-0.1	
280-P11-HDO	1.0	0	96.3	96.3	593.9	6.0	0.0	0.0	-66.5	-4.6	-1.1	-1.6	26.7	26.7	
280-P110-ERGE	1.0	0	79.0	79.0	1848.8	6.0	0.0	0.0	-76.3	-4.6	-3.5	-16.0	-17.3	-17.3	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P111-ERGE	1.0	0	74.0	74.0	1821.9	6.0	0.0	0.0	-76.2	-4.7	-3.5	-5.2	-11.5	-11.5	
280-P112-ERGE	1.0	0	74.0	74.0	1841.8	6.0	0.0	0.0	-76.3	-4.7	-3.5	-16.3	-22.7	-22.7	
280-P113-ERGE	1.0	0	74.0	74.0	1801.7	6.0	0.0	0.0	-76.1	-4.6	-3.4	-15.5	-21.5	-21.5	
280-P117-DHL	1.0	0	86.0	0.0	2125.6	3.0	0.0	0.0	-77.5	-4.8	-4.0	-13.0	-12.2	0.0	
280-P118-Hilti	1.0	0	86.0	0.0	2183.1	3.0	0.0	0.0	-77.8	-4.8	-4.1	-10.2	-9.8	0.0	
280-P119-Hilti	1.0	0	96.0	0.0	2182.7	3.0	0.0	0.0	-77.8	-4.7	-4.2	-17.3	-6.8	0.0	
280-P12-HDO	1.0	0	97.7	97.7	709.9	6.0	0.0	0.0	-68.0	-4.7	-1.4	-14.6	13.3	13.3	
280-P126-Wegener	1.0	0	88.0	88.0	1025.0	6.0	0.0	0.0	-71.2	-4.7	-2.0	-8.3	6.0	6.0	
280-P127-Auto	1.0	0	94.0	0.0	1068.2	3.0	0.0	0.0	-71.6	-4.7	-2.0	-9.0	7.8	0.0	
280-P129-WEA	1.0	0	103.5	103.5	2267.2	3.0	0.0	0.0	-78.1	-4.2	-4.3	-0.6	18.0	18.0	
280-P13-HDO	1.0	0	86.8	86.8	645.1	3.0	0.0	0.0	-67.2	-4.6	-1.2	-0.2	14.8	14.8	
280-P130-WEA	1.0	0	103.5	103.5	1730.3	3.0	0.0	0.0	-75.8	-4.0	-3.3	-0.7	21.6	21.6	
280-P131-WEA	1.0	0	106.0	106.0	2032.1	3.0	0.0	0.0	-77.2	-4.0	-3.9	-0.7	22.1	22.1	
280-P132-Biogas	1.0	0	85.0	85.0	2002.4	3.0	0.0	0.0	-77.0	-4.8	-3.8	-6.7	-6.2	-6.2	
280-P133-D&S	1.0	0	107.0	107.0	1221.7	6.0	0.0	0.0	-72.7	-4.7	-2.3	-17.9	13.5	13.5	
280-P134-D&S	1.0	0	107.0	107.0	1261.5	6.0	0.0	0.0	-73.0	-4.8	-2.4	-20.2	10.7	10.7	
280-P135-D&S	1.0	0	107.0	107.0	1258.4	6.0	0.0	0.0	-73.0	-4.8	-2.4	-4.2	26.7	26.7	
280-P136-Claas	1.0	0	95.0	95.0	619.0	6.0	0.0	0.0	-66.8	-4.6	-1.2	-12.0	14.6	14.6	
280-P137-Claas	1.0	0	90.0	90.0	633.0	6.0	0.0	0.0	-67.0	-4.6	-1.2	-17.2	4.2	4.2	
280-P138-Claas	1.0	0	90.0	90.0	593.9	6.0	0.0	0.0	-66.5	-4.6	-1.1	-11.4	10.7	10.7	
280-P139-Claas	1.0	0	90.0	90.0	578.3	6.0	0.0	0.0	-66.2	-4.6	-1.1	-17.8	4.6	4.6	
280-P14-HDO	1.0	0	86.8	86.8	681.7	3.0	0.0	0.0	-67.7	-4.6	-1.3	0.0	14.4	14.4	
280-P140-Claas	1.0	0	90.0	90.0	504.1	6.0	0.0	0.0	-65.0	-4.5	-1.0	-10.5	13.3	13.3	
280-P141-Claas	1.0	0	93.0	93.0	654.3	3.0	0.0	0.0	-67.3	-4.5	-1.2	-12.6	8.7	8.7	
280-P142-Claas	1.0	0	96.0	96.0	694.6	3.0	0.0	0.0	-67.8	-4.6	-1.3	-13.3	10.2	10.2	
280-P143-Claas	1.0	0	88.0	88.0	653.2	3.0	0.0	0.0	-67.3	-4.5	-1.2	-8.2	8.0	8.0	
280-P144-Claas	1.0	0	93.6	0.0	612.7	3.0	0.0	0.0	-66.7	-4.6	-1.2	-16.5	5.8	0.0	
280-P145-Claas	1.0	0	90.4	0.0	618.5	3.0	0.0	0.0	-66.8	-4.6	-1.2	-14.0	5.0	0.0	
280-P146-Claas	1.0	0	89.0	0.0	568.9	3.0	0.0	0.0	-66.1	-4.6	-1.1	-15.9	2.5	0.0	
280-P15-HDO	1.0	0	85.0	85.0	716.2	3.0	0.0	0.0	-68.1	-4.7	-1.4	-14.3	-2.3	-2.3	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dampf D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P16-HDO	1.0	0		107.0	107.0	667.1	3.0	0.0	0.0	-67.5	-4.6	-1.3	-4.6	30.2	30.2
280-P17-HDO	1.0	0		109.2	109.2	635.0	3.0	0.0	0.0	-67.1	-4.6	-1.2	-4.8	32.7	32.7
280-P18-HDO	1.0	0		100.7	100.7	764.1	3.0	0.0	0.0	-68.7	-4.6	-1.5	-10.2	17.0	17.0
280-P18a-HDO	1.0	0		99.7	99.7	761.4	3.0	0.0	0.0	-68.6	-4.6	-1.5	-0.5	25.8	25.8
280-P19-HDO	1.0	0		92.3	92.3	543.4	3.0	0.0	0.0	-65.7	-4.6	-1.0	-7.4	14.9	14.9
280-P19a-HDO	1.0	0		89.2	89.2	543.0	3.0	0.0	0.0	-65.7	-4.3	-1.0	-0.8	19.0	19.0
280-P2-HDO	1.0	0		87.1	0.0	554.2	3.0	0.0	0.0	-65.9	-4.6	-1.0	-8.5	8.2	0.0
280-P20-HDO	1.0	0		89.6	89.6	538.2	3.0	0.0	0.0	-65.6	-4.6	-1.0	-8.8	10.9	10.9
280-P20a-HDO	1.0	0		89.5	89.5	540.1	3.0	0.0	0.0	-65.6	-4.3	-1.1	-1.8	18.4	18.4
280-P20b-HDO	1.0	0		80.0	80.0	537.8	3.0	0.0	0.0	-65.6	-4.3	-1.0	-3.4	7.3	7.3
280-P21-HDO	1.0	0		87.1	87.1	525.6	3.0	0.0	0.0	-65.4	-4.5	-1.0	-13.5	4.1	4.1
280-P22-HDO	1.0	0		94.1	94.1	486.7	3.0	0.0	0.0	-64.7	-4.6	-0.9	-6.3	18.9	18.9
280-P22a-HDO	1.0	0		88.3	88.3	485.2	3.0	0.0	0.0	-64.7	-4.3	-0.9	-0.6	19.4	19.4
280-P22b-HDO	1.0	0		88.3	88.3	487.8	3.0	0.0	0.0	-64.8	-4.3	-0.9	-0.6	19.4	19.4
280-P23-HDO	1.0	0		86.8	86.8	598.3	3.0	0.0	0.0	-66.5	-4.3	-1.2	-0.9	15.5	15.5
280-P24-HDO	1.0	0		92.6	92.6	593.2	3.0	0.0	0.0	-66.5	-4.3	-1.1	-1.2	20.7	20.7
280-P25-HDO	1.0	0		85.9	85.9	600.6	3.0	0.0	0.0	-66.6	-4.6	-1.1	-14.2	0.6	0.6
280-P26-WF	1.0	0		94.8	94.8	1365.5	3.0	0.0	0.0	-73.7	-4.8	-2.6	-19.8	-5.0	-5.0
280-P27-WF	1.0	0		82.2	82.2	1365.5	3.0	0.0	0.0	-73.7	-4.6	-2.6	-3.3	-0.8	-0.8
280-P28-WF	1.0	0		84.1	84.1	1342.8	3.0	0.0	0.0	-73.6	-4.6	-2.5	-2.6	1.9	1.9
280-P29-WF	1.0	0		89.2	89.2	1286.2	3.0	0.0	0.0	-73.2	-4.6	-2.4	-3.5	6.7	6.7
280-P3-HDO	1.0	0		88.8	0.0	558.8	3.0	0.0	0.0	-65.9	-4.6	-1.1	-9.1	9.3	0.0
280-P30-WF	1.0	0		87.1	0.0	1369.2	6.0	0.0	0.0	-73.7	-4.8	-2.6	-10.1	0.0	0.0
280-P31-WF	1.0	0		104.7	104.7	1363.0	6.0	0.0	0.0	-73.7	-4.8	-2.5	-10.0	17.7	17.7
280-P32-WF	1.0	0		82.9	0.0	1282.5	3.0	0.0	0.0	-73.2	-4.8	-2.4	-18.4	-14.6	0.0
280-P33-WF	1.0	0		99.9	99.9	1285.4	3.0	0.0	0.0	-73.2	-4.7	-2.4	-9.0	11.7	11.7
280-P34-WF	2.0	0		97.6	97.6	1282.4	6.0	0.0	0.0	-73.2	-4.7	-2.4	-8.6	15.8	15.8
280-P35-WF	1.0	0		107.6	107.6	1289.8	6.0	0.0	0.0	-73.2	-4.7	-2.4	-8.3	23.0	23.0
280-P36-WF	1.0	0		78.7	78.7	1346.4	6.0	0.0	0.0	-73.6	-4.7	-2.5	-10.5	-8.6	-8.6
280-P37-WF	1.0	0		86.8	86.8	1409.7	6.0	0.0	0.0	-74.0	-4.8	-2.7	-18.8	-9.4	-9.4

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P38-WF	1.0	0	0	85.0	85.0	1244.6	3.0	0.0	0.0	-72.9	-4.5	-2.4	-6.5	0.0	0.0
280-P39-WF	1.0	0	0	88.2	88.2	1108.6	3.0	0.0	0.0	-71.9	-4.7	-2.1	-10.1	0.5	0.5
280-P4-HDO	1.0	0	0	88.8	0.0	515.5	3.0	0.0	0.0	-65.2	-4.6	-1.0	-13.2	6.0	0.0
280-P40-WF	1.0	0	0	99.7	100.0	1198.4	6.0	0.0	0.0	-72.6	-4.7	-2.3	-10.1	14.1	14.4
280-P41-WF	1.0	0	0	99.7	100.0	1215.9	6.0	0.0	0.0	-72.7	-4.7	-2.3	-17.2	6.9	7.2
280-P42-WF	1.0	0	0	93.6	0.0	1203.9	3.0	0.0	0.0	-72.6	-4.7	-2.3	-9.4	5.7	0.0
280-P43-WF	1.0	0	0	93.6	0.0	1306.7	3.0	0.0	0.0	-73.3	-4.8	-2.5	-13.4	0.7	0.0
280-P44-Br	1.0	0	0	91.8	0.0	1451.1	3.0	0.0	0.0	-74.2	-4.8	-2.8	-7.9	3.2	0.0
280-P45-Br	1.0	0	0	90.7	96.7	1472.7	3.0	0.0	0.0	-74.4	-4.8	-2.8	-7.3	2.5	8.5
280-P46-Br	1.0	0	0	95.0	95.0	1575.5	6.0	0.0	0.0	-74.9	-4.8	-3.0	-14.9	1.5	1.5
280-P47-Br	1.0	0	0	95.0	95.0	1573.9	6.0	0.0	0.0	-74.9	-4.8	-3.0	-14.9	1.5	1.5
280-P48-Br	1.0	0	0	111.5	111.5	1656.3	3.0	0.0	0.0	-75.4	-4.8	-3.1	-13.7	15.6	15.6
280-P49-Br	1.0	0	0	92.6	92.6	1648.4	6.0	0.0	0.0	-75.3	-4.8	-3.1	-18.9	-5.4	-5.4
280-P5-HDO	1.0	0	0	88.8	0.0	603.9	3.0	0.0	0.0	-66.6	-4.6	-1.2	-1.0	16.6	0.0
280-P50-Br	1.0	0	0	88.0	88.0	1399.9	3.0	0.0	0.0	-73.9	-4.8	-2.6	-12.9	-5.2	-5.2
280-P51-Br	1.0	0	0	88.0	88.0	1435.6	3.0	0.0	0.0	-74.1	-4.8	-2.7	-8.1	-0.6	-0.6
280-P52-Br	1.0	0	0	81.0	81.0	1395.1	3.0	0.0	0.0	-73.9	-4.8	-2.7	-8.3	-7.6	-7.6
280-P53-Br	1.0	0	0	80.0	80.0	1560.0	3.0	0.0	0.0	-74.9	-4.6	-2.9	-6.3	-7.5	-7.5
280-P54-Br	1.0	0	0	91.1	91.1	1604.7	6.0	0.0	0.0	-75.1	-4.8	-3.0	-18.0	-5.7	-5.7
280-P55-Br	1.0	0	0	91.1	91.1	1611.8	6.0	0.0	0.0	-75.1	-4.8	-3.1	-18.0	-5.8	-5.8
280-P56-Br	1.0	0	0	91.1	91.1	1630.4	6.0	0.0	0.0	-75.2	-4.8	-3.1	-18.0	-5.9	-5.9
280-P57-Br	1.0	0	0	91.1	91.1	1639.2	6.0	0.0	0.0	-75.3	-4.8	-3.1	-18.0	-6.0	-6.0
280-P58-Br	1.0	0	0	91.1	91.1	1557.6	6.0	0.0	0.0	-74.8	-4.8	-3.0	-19.1	-6.5	-6.5
280-P59-Br	1.0	0	0	91.1	91.1	1549.7	6.0	0.0	0.0	-74.8	-4.8	-3.0	-20.3	-7.6	-7.6
280-P6-HDO	1.0	0	0	104.0	0.0	656.3	3.0	0.0	0.0	-67.3	-4.6	-1.3	-9.6	22.5	0.0
280-P60-Br	1.0	0	0	91.1	91.1	1582.1	6.0	0.0	0.0	-75.0	-4.8	-3.0	-11.5	0.9	0.9
280-P61-Br	1.0	0	0	91.1	91.1	1590.6	6.0	0.0	0.0	-75.0	-4.8	-3.0	-10.8	1.6	1.6
280-P62-Vedd	1.0	0	0	99.8	0.0	1856.7	6.0	0.0	0.0	-76.4	-4.7	-3.5	-16.7	2.6	0.0
280-P63-Vedd	1.0	0	0	96.0	0.0	1860.1	3.0	0.0	0.0	-76.4	-4.7	-3.6	-13.4	-0.9	0.0
280-P64-Vedd	1.0	0	0	89.3	0.0	1846.8	3.0	0.0	0.0	-76.3	-4.7	-3.5	-0.1	5.8	0.0

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkel- maß K <sub>D</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dampf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P65-Vedd	1.0	0	75.0	0.0	1857.6	3.0	0.0	0.0	-76.4	-4.7	-3.5	0.0	-8.5	0.0	
280-P66-KM	1.0	0	94.0	0.0	1261.9	6.0	0.0	0.0	-73.0	-4.8	-2.4	-18.8	-0.9	0.0	
280-P67-KM	1.0	0	94.0	0.0	1268.4	6.0	0.0	0.0	-73.1	-4.7	-2.4	-20.3	-2.4	0.0	
280-P68-KM	1.0	0	94.0	0.0	1280.9	6.0	0.0	0.0	-73.2	-4.7	-2.4	-14.2	3.6	0.0	
280-P69-KM	1.0	0	94.0	0.0	1297.0	6.0	0.0	0.0	-73.3	-4.7	-2.5	-17.4	0.2	0.0	
280-P70-HDO	1.0	0	101.0	0.0	621.7	3.0	0.0	0.0	-66.9	-4.6	-1.2	-19.4	10.1	0.0	
280-P70-Oste	1.0	0	100.5	0.0	1111.6	6.0	0.0	0.0	-71.9	-4.7	-2.1	-9.0	16.9	0.0	
280-P71-Oste	1.0	0	95.5	0.0	1115.9	6.0	0.0	0.0	-72.0	-4.7	-2.1	-8.9	11.9	0.0	
280-P72-Oste	1.0	0	100.7	0.0	1107.4	3.0	0.0	0.0	-71.9	-4.7	-2.1	-9.2	13.9	0.0	
280-P73-Pöhl	1.0	0	94.3	0.0	915.7	6.0	0.0	0.0	-70.2	-4.7	-1.8	-7.3	14.6	0.0	
280-P74-Pöhl	1.0	0	102.1	0.0	995.2	3.0	0.0	0.0	-71.0	-4.7	-1.9	-11.9	13.7	0.0	
280-P75-Piep	1.0	0	90.5	0.0	1225.2	6.0	0.0	0.0	-72.8	-4.7	-2.3	-16.4	-1.6	0.0	
280-P76-Piep	1.0	0	80.8	0.0	1215.5	3.0	0.0	0.0	-72.7	-4.7	-2.3	-3.6	-1.4	0.0	
280-P77-Piep	1.0	0	95.7	0.0	1219.6	6.0	0.0	0.0	-72.7	-4.7	-2.3	-15.1	5.0	0.0	
280-P78-Piep	1.0	0	85.8	0.0	1220.0	3.0	0.0	0.0	-72.7	-4.7	-2.3	-3.3	3.9	0.0	
280-P79-Piep	1.0	0	85.3	0.0	1231.6	3.0	0.0	0.0	-72.8	-4.6	-2.4	-3.1	3.7	0.0	
280-P8-HDO	1.0	0	96.3	96.3	556.9	6.0	0.0	0.0	-65.9	-4.6	-1.1	-2.7	26.2	26.2	
280-P80-Piep	1.0	0	88.3	0.0	1230.2	3.0	0.0	0.0	-72.8	-4.6	-2.4	-3.2	6.6	0.0	
280-P81-Wöhn	1.0	0	77.7	82.0	1218.5	3.0	0.0	0.0	-72.7	-4.8	-2.3	-8.4	-9.4	-5.1	
280-P82-Wöhn	1.0	0	84.2	84.2	1219.9	3.0	0.0	0.0	-72.7	-4.8	-2.3	-14.1	-8.6	-8.6	
280-P83-BBR	1.0	0	113.0	0.0	458.6	3.0	0.0	0.0	-64.2	-4.6	-0.9	-3.5	41.2	0.0	
280-P84-OSG	1.0	0	110.2	0.0	972.1	6.0	0.0	0.0	-70.8	-4.7	-1.8	-17.2	19.8	0.0	
280-P85-OSG	1.0	0	89.0	0.0	967.5	6.0	0.0	0.0	-70.7	-4.7	-1.8	-17.2	-1.3	0.0	
280-P86-ASB	1.0	0	89.2	0.0	2280.6	3.0	0.0	0.0	-78.2	-4.8	-4.3	-1.7	1.3	0.0	
280-P87-Rub	1.0	0	88.1	88.1	1944.9	3.0	0.0	0.0	-76.8	-4.7	-3.6	-1.0	3.1	3.1	
280-P88-Rub	1.0	0	78.0	78.0	1964.3	6.0	0.0	0.0	-76.9	-4.7	-3.8	-14.5	-17.7	-17.7	
280-P89-Rub	1.0	0	78.0	78.0	1897.4	6.0	0.0	0.0	-76.6	-4.7	-3.6	-1.5	-4.3	-4.3	
280-P9-HDO	1.0	0	96.3	96.3	568.4	6.0	0.0	0.0	-66.1	-4.6	-1.1	-2.3	26.4	26.4	
280-P90-Rub	1.0	0	117.8	0.0	1915.7	6.0	0.0	0.0	-76.6	-4.7	-3.7	-16.8	20.1	0.0	
280-P91-Rub	1.0	0	117.8	0.0	1906.6	6.0	0.0	0.0	-76.6	-4.7	-3.7	-1.7	35.3	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P92-Frie	1.0	0	92.9	0.0	1240.4	6.0	0.0	0.0	-72.9	-4.8	-2.3	-19.6	-2.7	0.0	
280-P93-Frie	1.0	0	88.0	0.0	1185.9	3.0	0.0	0.0	-72.5	-4.8	-2.2	-4.3	5.3	0.0	
280-P94-BLG	1.0	0	90.7	0.0	1408.5	3.0	0.0	0.0	-74.0	-4.8	-2.7	-14.4	-4.1	0.0	
280-P95-BLG	1.0	0	90.0	0.0	1371.4	6.0	0.0	0.0	-73.7	-4.8	-2.6	-16.5	-3.5	0.0	
280-P96-BLG	1.0	0	90.0	0.0	1379.2	6.0	0.0	0.0	-73.8	-4.8	-2.6	-16.3	-3.4	0.0	
280-P97-BLG	1.0	0	90.0	0.0	1386.7	6.0	0.0	0.0	-73.8	-4.8	-2.6	-16.0	-3.1	0.0	
280-P98-BLG	1.0	0	90.0	0.0	1393.4	6.0	0.0	0.0	-73.9	-4.8	-2.6	-16.0	-3.2	0.0	
280-P99-BLG	1.0	0	90.0	0.0	1399.8	6.0	0.0	0.0	-73.9	-4.8	-2.6	-16.0	-3.3	0.0	
280-PRaif	1.0	0	102.0	102.0	1055.9	3.0	0.0	0.0	-71.5	-4.5	-2.0	-1.6	23.7	23.7	
Summe												53.3	46.2		

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 12  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Prioritätenliste Tag**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-F1	280-F1	49.9	53.3
280-F5	280-F5	44.1	50.7
280-F4	280-F4	43.5	49.6
280-F31-BBR	280-F31-BB	41.5	48.4
280-P83-BBR	280-P83-BB	41.2	47.4
280-F3	280-F3	39.5	46.2
280-L27-BBR	280-L27-BB	37.6	45.2
280-F13-HDO	280-F13-HD	35.4	44.3
280-P91-Rub	280-P91-Ru	35.3	43.7
280-P17-HDO	280-P17-HD	32.7	43.0
280-F32-BBR	280-F32-BB	32.4	42.6
280-L21-Pöhl	280-L21-Pö	31.9	42.2
280-F14-HDO	280-F14-HD	30.4	41.8
280-P16-HDO	280-P16-HD	30.2	41.4
280-F57-Claas	280-F57-CI	29.5	41.1
280-F47-Vero	280-F47-Ve	28.2	40.8
280-L28-BBR	280-L28-BB	27.1	40.5
280-P10-HDO	280-P10-HD	26.8	40.3
280-P135-D&S	280-P135-D	26.7	40.1
280-P11-HDO	280-P11-HD	26.7	39.9
280-P9-HDO	280-P9-HDO	26.4	39.7
280-P8-HDO	280-P8-HDO	26.2	39.5
280-P1-HDO	280-P1-HDO	26.0	39.3
280-P18a-HDO	280-P18a-H	25.8	39.1
280-F29-Pöhl	280-F29-Pö	25.6	38.9
280-L73-Claas	280-L73-CI	24.8	38.7
280-F54-D&S	280-F54-D&	24.6	38.5
280-F18-WF	280-F18-WF	24.0	38.3
280-F6	280-F6	23.9	38.2
280-PRaif	280-PRaif	23.7	38.0
280-F22-Br	280-F22-Br	23.4	37.8

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 13  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I1, 1.OG Prioritätenliste Nacht**

Emittent Name	ID	immissionsschallpegel dB(A)	Summenpegel dB(A)
280-F5	280-F5	44.1	46.2
280-F13-HDO	280-F13-HD	35.4	42.1
280-P17-HDO	280-P17-HD	32.7	41.0
280-F14-HDO	280-F14-HD	30.4	40.3
280-P16-HDO	280-P16-HD	30.2	39.9
280-F4	280-F4	28.5	39.4
280-P10-HDO	280-P10-HD	26.8	39.0
280-P135-D&S	280-P135-D	26.7	38.7
280-P11-HDO	280-P11-HD	26.7	38.5
280-P9-HDO	280-P9-HDO	26.4	38.2
280-P8-HDO	280-P8-HDO	26.2	37.9
280-P18a-HDO	280-P18a-H	25.8	37.6
280-F18-WF	280-F18-WF	24.0	37.3
280-F6	280-F6	23.9	37.0
280-PRaif	280-PRaif	23.7	36.8
280-L9c-WF	280-L9c-WF	23.6	36.6
280-F22-Br	280-F22-Br	23.4	36.4
280-P35-WF	280-P35-WF	23.0	36.2
280-F56-Claas	280-F56-CI	22.8	36.0
280-F7-HDO	280-F7-HDO	22.5	35.7
280-L1000-Stute	280-L1000-	22.4	35.5
280-F10-HDO	280-F10-HD	22.4	35.3
280-F9-HDO	280-F9-HDO	22.2	35.1
280-P131-WEA	280-P131-W	22.1	34.8
280-L73-Claas	280-L73-CI	21.8	34.6
280-P1010-Stute	280-P1010-	21.7	34.4
280-P130-WEA	280-P130-W	21.6	34.1
280-F54-D&S	280-F54-D&	21.6	33.9
280-F47-Vero	280-F47-Ve	21.5	33.6
280-P24-HDO	280-P24-HD	20.7	33.4
280-F12-HDO	280-F12-HD	19.8	33.1

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 16  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
															m
280-F1	16255.5	2	72.9	0.0	2327.4	3.0	0.0	0.0	-78.6	-4.8	-4.6	-1.9	26.2	0.0	
280-F10-HDO	2162.7	2	64.0	64.0	1744.5	3.0	0.0	0.0	-76.1	-4.7	-3.4	0.0	14.3	14.3	
280-F1000-Westo	2032.4	2	61.9	61.9	1507.7	3.0	0.0	0.0	-74.8	-4.7	-2.9	-8.7	5.0	5.0	
280-F11-HDO	1492.8	2	62.0	62.0	1819.1	3.0	0.0	0.0	-76.3	-4.7	-3.5	0.0	10.3	10.3	
280-F12-HDO	1142.9	2	63.0	63.0	1869.6	3.0	0.0	0.0	-76.5	-4.7	-3.6	0.0	9.9	9.9	
280-F13-HDO	5597.6	2	70.7	70.7	1897.9	3.0	0.0	0.0	-76.7	-4.7	-3.7	-0.2	24.0	24.0	
280-F14-HDO	6338.7	2	63.8	63.8	1955.9	3.0	0.0	0.0	-77.1	-4.7	-3.8	0.0	17.3	17.3	
280-F15-WF	5382.7	2	78.5	55.9	1110.5	3.0	0.0	0.0	-72.4	-4.8	-2.2	-1.1	36.4	13.8	
280-F16-WF	3647.5	2	51.5	57.5	1132.8	3.0	0.0	0.0	-72.4	-4.8	-2.2	0.0	8.8	14.8	
280-F17-WF	1749.8	2	50.6	56.7	1044.8	3.0	0.0	0.0	-71.5	-4.8	-2.0	-0.2	5.6	11.7	
280-F18-WF	7943.3	2	68.5	68.5	1125.2	3.0	0.0	0.0	-72.5	-4.6	-2.3	0.0	29.2	29.2	
280-F19-Br	14996.8	2	60.2	60.2	1146.7	3.0	0.0	0.0	-72.8	-4.8	-2.3	-7.0	16.2	16.2	
280-F20-Br	9099.1	2	59.4	59.4	930.0	3.0	0.0	0.0	-71.0	-4.8	-1.9	-3.9	18.5	18.5	
280-F21-Br	5345.6	2	65.3	66.3	943.3	3.0	0.0	0.0	-71.0	-4.6	-1.9	-0.1	27.1	27.1	
280-F22-Br	22233.1	2	65.2	65.2	1053.2	3.0	0.0	0.0	-72.1	-4.6	-2.1	-0.1	31.1	31.1	
280-F23-Br	5807.6	2	46.7	48.9	942.9	3.0	0.0	0.0	-71.0	-4.8	-2.0	-3.9	3.7	5.9	
280-F23a-Br	4111.5	2	60.0	0.0	717.3	3.0	0.0	0.0	-68.4	-4.6	-1.4	-0.6	22.3	0.0	
280-F24-Pöhl	85.3	3	82.0	0.0	1649.2	6.0	0.0	0.0	-75.4	-4.7	-3.1	-0.1	22.1	0.0	
280-F25-Pöhl	9.0	3	82.0	0.0	1605.2	6.0	0.0	0.0	-75.1	-4.7	-3.0	-1.0	11.8	0.0	
280-F26-Pöhl	43.3	3	82.0	0.0	1576.9	6.0	0.0	0.0	-75.0	-4.7	-3.0	0.0	19.8	0.0	
280-F27-Pöhl	35.2	3	82.0	0.0	1590.5	6.0	0.0	0.0	-75.1	-4.7	-3.0	-1.0	17.8	0.0	
280-F28-Pöhl	37.8	3	82.0	0.0	1637.7	6.0	0.0	0.0	-75.3	-4.7	-3.1	-18.5	0.3	0.0	
280-F29-Pöhl	4008.7	2	74.6	0.0	1516.9	3.0	0.0	0.0	-74.9	-4.8	-3.0	-1.8	27.4	0.0	
280-F3	901.6	2	68.8	0.0	2382.0	3.0	0.0	0.0	-78.6	-4.8	-4.6	-11.0	0.5	0.0	
280-F30-Wöhn	5358.0	2	65.8	0.0	1232.1	3.0	0.0	0.0	-73.2	-4.7	-2.5	-8.9	14.9	0.0	
280-F31-BBR	5308.8	2	74.0	0.0	2437.2	3.0	0.0	0.0	-78.9	-4.8	-4.7	-3.5	20.4	0.0	
280-F32-BBR	3296.1	2	70.1	0.0	2393.6	3.0	0.0	0.0	-78.7	-4.8	-4.6	-3.9	14.4	0.0	
280-F34-ZEB	4709.8	2	71.3	0.0	1266.1	3.0	0.0	0.0	-73.3	-4.7	-2.5	-6.0	22.5	0.0	
280-F35-OSG	2084.5	2	64.7	0.0	1458.7	3.0	0.0	0.0	-74.5	-4.8	-2.8	-6.3	10.6	0.0	
280-F36-Frie	3953.7	2	69.2	67.4	1386.3	3.0	0.0	0.0	-74.2	-4.7	-2.7	-1.7	23.0	21.2	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 17  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-F37-BLG	18492.7	2	53.9	0.0	1261.6	3.0	0.0	0.0	-73.6	-4.7	-2.6	-1.2	15.6	0.0	
280-F38-BLG	2924.2	2	0.0	65.9	1351.0	3.0	0.0	0.0	-73.9	-4.7	-2.6	-3.7	0.0	16.8	
280-F39-Hans	4497.8	2	58.7	60.2	231.3	3.0	0.0	0.0	-60.0	-4.5	-0.5	-1.7	30.0	31.5	
280-F4	22856.0	2	60.0	45.0	2174.8	3.0	0.0	0.0	-78.3	-4.8	-4.4	-6.8	10.4	-4.6	
280-F40-PPH	2103.8	2	66.0	0.0	1477.1	3.0	0.0	0.0	-74.5	-4.8	-2.8	-6.2	11.9	0.0	
280-F41-Leer	1563.1	2	60.0	0.0	1385.1	3.0	0.0	0.0	-74.0	-4.8	-2.7	-2.7	8.8	0.0	
280-F42-Bunse	214.3	2	55.0	0.0	2132.3	3.0	0.0	0.0	-77.6	-4.7	-4.1	0.0	-7.0	0.0	
280-F43-Bunse	899.5	2	52.5	0.0	2082.6	3.0	0.0	0.0	-77.4	-4.8	-4.0	-13.3	-16.4	0.0	
280-F44-Schulte	1153.5	2	67.6	57.0	549.0	3.0	0.0	0.0	-66.1	-4.6	-1.1	-0.2	27.5	16.9	
280-F45-Michels	440.6	2	55.5	58.0	1564.6	3.0	0.0	0.0	-74.9	-4.8	-3.0	-2.4	-2.1	0.4	
280-F47-Vero	5508.1	2	74.3	67.6	1975.9	3.0	0.0	0.0	-77.1	-4.7	-3.8	-6.4	20.8	14.1	
280-F48-Veolia	14791.1	2	69.9	63.9	85.1	3.0	0.0	0.0	-53.8	-3.8	-0.2	-1.7	54.2	48.2	
280-F49-Wegener	1099.0	2	64.3	68.6	1481.9	3.0	0.0	0.0	-74.5	-4.8	-2.9	-0.7	12.9	17.2	
280-F5	47533.5	2	63.2	63.2	2005.1	3.0	0.0	0.0	-77.6	-4.7	-4.1	-1.8	22.9	22.9	
280-F50-Pader	1250.3	2	65.2	0.0	257.4	3.0	0.0	0.0	-59.8	-4.4	-0.5	-10.1	23.0	0.0	
280-F51-Stroeth	2098.9	2	60.0	0.0	1413.6	3.0	0.0	0.0	-74.2	-4.7	-2.8	-6.7	5.9	0.0	
280-F52-Beton	1648.2	2	60.8	0.0	196.7	3.0	0.0	0.0	-57.9	-4.2	-0.4	-0.6	31.6	0.0	
280-F53-Kaya	5200.0	2	58.8	0.0	1419.5	3.0	0.0	0.0	-74.3	-4.8	-2.8	-3.7	11.5	0.0	
280-F54-D&S	5058.2	2	70.3	67.3	1368.8	3.0	0.0	0.0	-73.9	-4.8	-2.7	-0.2	26.8	23.8	
280-F55-Claas	1309.2	2	62.0	62.0	1808.6	3.0	0.0	0.0	-76.2	-4.7	-3.5	0.0	9.9	9.9	
280-F56-Claas	17139.6	2	57.0	57.0	1679.1	3.0	0.0	0.0	-76.2	-4.7	-3.4	0.0	16.1	16.1	
280-F57-Claas	9015.7	2	73.0	0.0	1692.2	3.0	0.0	0.0	-76.1	-4.8	-3.4	-0.4	28.8	0.0	
280-F58-Claas	10256.5	2	55.7	60.7	1582.4	3.0	0.0	0.0	-75.4	-4.7	-3.1	-4.9	8.8	13.8	
280-F59-Claas	1999.9	2	50.0	0.0	1650.0	3.0	0.0	0.0	-75.6	-4.7	-3.2	-6.6	-5.9	0.0	
280-F6	28054.3	2	47.5	47.5	2114.3	3.0	0.0	0.0	-77.9	-4.8	-4.3	-2.0	4.1	4.1	
280-F60-Claas	1253.1	2	45.1	0.0	1701.5	3.0	0.0	0.0	-75.8	-4.7	-3.3	-4.8	-11.4	0.0	
280-F61-Mannes	1618.1	2	55.0	0.0	223.1	3.0	0.0	0.0	-58.6	-4.4	-0.5	-0.1	25.1	0.0	
280-F7-HDO	6151.8	2	53.1	57.4	1951.8	3.0	0.0	0.0	-77.1	-4.8	-3.8	-3.5	2.9	7.2	
280-F8-HDO	1603.2	2	48.8	0.0	1802.7	3.0	0.0	0.0	-76.3	-4.8	-3.5	-11.4	-14.1	0.0	
280-F9-HDO	3388.4	2	61.3	61.3	1774.3	3.0	0.0	0.0	-76.2	-4.7	-3.5	0.0	13.3	13.3	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 18  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>D</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>EM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L1-HDO	278.0	1	72.5	0.0	1798.1	3.0	0.0	0.0	-76.6	-4.8	-3.6	-6.1	7.0	0.0	
280-L10-WF	877.0	1	65.1	0.0	1105.5	3.0	0.0	0.0	-72.8	-4.8	-2.3	-1.4	14.3	0.0	
280-L1000-Stute	40.0	1	99.0	99.0	748.0	3.0	0.0	0.0	-68.4	-4.6	-1.4	-0.9	41.1	41.1	
280-L1001-Stute	40.0	1	74.0	74.0	707.5	3.0	0.0	0.0	-67.9	-4.5	-1.3	-0.1	17.5	17.5	
280-L1002-Stute	92.7	1	66.0	66.0	867.2	3.0	0.0	0.0	-70.2	-4.6	-1.7	-11.1	-0.6	-0.6	
280-L1003-Stute	399.0	1	74.9	70.0	638.1	3.0	0.0	0.0	-67.4	-4.7	-1.3	-2.8	25.9	21.0	
280-L1004-Stute	455.0	1	75.3	71.2	660.7	3.0	0.0	0.0	-69.2	-4.8	-1.6	-8.8	18.7	14.6	
280-L1005-Stute	625.2	1	70.2	69.2	895.9	3.0	0.0	0.0	-71.4	-4.8	-2.0	-6.4	14.7	13.7	
280-L1006-Stute	515.2	1	61.1	0.0	754.8	3.0	0.0	0.0	-70.0	-4.7	-1.6	-2.7	10.3	0.0	
280-L1006-West	632.4	1	68.4	0.0	1436.5	3.0	0.0	0.0	-74.7	-4.8	-2.8	-5.0	10.2	0.0	
280-L1007-West	230.1	1	68.4	0.0	1473.8	3.0	0.0	0.0	-74.7	-4.7	-2.9	-3.0	7.8	0.0	
280-L1008-West	115.1	1	61.4	67.4	1582.8	3.0	0.0	0.0	-75.1	-4.7	-3.0	-12.6	-12.4	-6.4	
280-L1009-West	32.1	1	59.7	65.7	1626.0	3.0	0.0	0.0	-75.3	-4.7	-3.1	-13.6	-20.9	-14.9	
280-L1010-West	105.0	1	55.0	55.0	1482.1	3.0	0.0	0.0	-74.5	-4.7	-2.9	0.0	-5.8	-5.8	
280-L1011-West	105.0	1	55.0	55.0	1468.0	3.0	0.0	0.0	-74.5	-4.7	-2.8	0.0	-5.7	-5.7	
280-L1012-West	84.9	1	49.5	49.5	1514.8	3.0	0.0	0.0	-74.8	-4.7	-2.9	0.0	-12.5	-12.5	
280-L11-Br	278.6	1	75.3	75.8	927.9	3.0	0.0	0.0	-70.7	-4.8	-1.8	-5.2	18.4	18.9	
280-L12-Br	399.9	1	57.8	0.0	1002.3	3.0	0.0	0.0	-72.2	-4.8	-2.2	-6.3	-0.6	0.0	
280-L13-Br	130.6	1	92.8	0.0	925.3	3.0	0.0	0.0	-70.3	-4.8	-1.8	-4.9	33.3	0.0	
280-L14-Br	17.0	1	85.1	85.1	1005.0	3.0	0.0	0.0	-71.1	-4.8	-1.9	-13.4	7.3	7.3	
280-L15-Raif	295.1	1	75.5	76.0	1470.6	3.0	0.0	0.0	-74.8	-4.8	-2.9	-0.8	18.0	18.5	
280-L16-Raif	356.5	1	68.3	0.0	1472.1	3.0	0.0	0.0	-74.7	-4.8	-2.9	-0.6	11.9	0.0	
280-L17-Vedd	60.5	1	61.5	0.0	696.3	3.0	0.0	0.0	-67.9	-4.7	-1.2	-0.1	6.6	0.0	
280-L18-KM	54.7	1	62.0	0.0	1425.3	3.0	0.0	0.0	-74.2	-4.7	-2.7	-5.0	-6.1	0.0	
280-L19-Oste	65.2	1	79.6	0.0	1342.2	3.0	0.0	0.0	-73.5	-4.7	-2.6	-12.6	5.2	0.0	
280-L2-HDO	574.1	1	68.4	68.4	1871.8	3.0	0.0	0.0	-76.9	-4.8	-3.7	-10.5	1.2	1.2	
280-L20-Pöhl	272.9	1	79.0	75.0	1559.7	3.0	0.0	0.0	-75.2	-4.8	-3.0	-1.5	20.0	16.0	
280-L21-Pöhl	230.1	1	91.2	0.0	1518.8	3.0	0.0	0.0	-75.0	-4.8	-3.0	-2.3	30.8	0.0	
280-L22-Pöhl	175.4	1	86.4	0.0	1408.4	3.0	0.0	0.0	-74.1	-4.8	-2.8	-0.9	27.3	0.0	
280-L23-Pöhl	144.9	1	55.4	64.4	1550.9	3.0	0.0	0.0	-75.1	-4.8	-3.0	-4.6	-9.4	-0.4	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo- dampf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
	m m <sup>2</sup>														
280-L24-Pöhl	89.9	1	76.0	0.0	1614.3	3.0	0.0	0.0	-75.4	-4.7	-3.1	0.0	13.4	0.0	
280-L25-Piep	30.0	1	60.2	0.0	1356.2	3.0	0.0	0.0	-73.7	-4.8	-2.6	-0.1	-5.1	0.0	
280-L26-Piep	105.2	1	72.8	0.0	1346.6	3.0	0.0	0.0	-73.6	-4.8	-2.6	-2.3	10.8	0.0	
280-L27-BBR	447.7	1	78.8	0.0	2295.2	3.0	0.0	0.0	-78.6	-4.8	-4.5	-2.3	16.2	0.0	
280-L28-BBR	24.9	1	80.8	0.0	2309.4	3.0	0.0	0.0	-78.4	-4.8	-4.4	-0.7	7.6	0.0	
280-L29-ZEB	109.9	1	58.7	0.0	1232.0	3.0	0.0	0.0	-73.1	-4.8	-2.4	0.0	-0.1	0.0	
280-L3-HDO	40.0	1	78.7	0.0	1735.5	3.0	0.0	0.0	-75.8	-4.8	-3.3	-6.4	5.5	0.0	
280-L30-Rub	70.1	1	79.8	0.0	597.4	3.0	0.0	0.0	-66.6	-4.6	-1.1	-0.7	26.5	0.0	
280-L31-Rub	70.1	1	61.9	69.1	703.8	3.0	0.0	0.0	-68.0	-4.6	-1.3	-5.0	2.6	9.8	
280-L32-Tem	60.1	1	73.1	78.2	253.7	3.0	0.0	0.0	-59.4	-4.4	-0.5	-0.3	27.8	32.9	
280-L33-BLG	62.7	1	72.0	0.0	1358.4	3.0	0.0	0.0	-73.9	-4.7	-2.6	-0.3	9.6	0.0	
280-L34-Bunse	120.2	1	79.2	0.0	2034.0	3.0	0.0	0.0	-77.4	-4.8	-3.9	-6.5	8.5	0.0	
280-L35-Bunse	74.5	1	70.8	0.0	1995.4	6.0	0.0	0.0	-77.1	-4.7	-3.8	-5.1	2.9	0.0	
280-L36-Finke	299.9	1	72.5	0.0	1202.1	3.0	0.0	0.0	-73.4	-4.7	-2.5	-12.1	5.7	0.0	
280-L37-Finke	279.9	1	59.8	0.0	1157.1	3.0	0.0	0.0	-72.7	-4.8	-2.3	-5.5	0.1	0.0	
280-L38-Hartm	207.5	1	69.0	78.0	470.2	3.0	0.0	0.0	-65.8	-4.6	-1.1	-7.9	14.0	23.0	
280-L39-Hartm	146.6	1	73.8	82.8	497.1	3.0	0.0	0.0	-66.0	-4.6	-1.1	-5.0	20.0	29.0	
280-L4-HDO	158.1	1	70.8	70.8	1739.3	3.0	0.0	0.0	-76.1	-4.7	-3.4	-2.1	7.7	7.7	
280-L40-Hartm	30.0	1	84.6	91.1	464.1	3.0	0.0	0.0	-64.4	-4.6	-0.9	-18.1	12.7	19.2	
280-L41-Hartm	89.9	1	82.9	91.2	483.5	3.0	0.0	0.0	-64.9	-4.6	-1.0	-17.9	15.3	23.6	
280-L42-Hartm	208.9	1	72.5	0.0	535.9	3.0	0.0	0.0	-66.3	-4.6	-1.1	-4.1	20.8	0.0	
280-L43-Hartm	100.2	1	57.8	65.1	581.5	3.0	0.0	0.0	-66.6	-4.7	-1.1	-2.2	4.4	11.7	
280-L44-Welsing	55.0	1	79.6	0.0	1518.4	3.0	0.0	0.0	-74.6	-4.8	-2.9	-4.9	10.9	0.0	
280-L45-Welsing	30.0	1	73.0	0.0	1528.6	3.0	0.0	0.0	-74.7	-4.8	-2.9	0.0	6.5	0.0	
280-L46-ERGE	118.9	1	65.0	0.0	621.2	3.0	0.0	0.0	-67.5	-4.7	-1.3	-0.4	13.0	0.0	
280-L47-ERGE	80.0	1	78.0	0.0	645.3	3.0	0.0	0.0	-67.5	-4.7	-1.3	-1.9	22.8	0.0	
280-L48-ERGE	45.0	1	60.1	66.1	620.7	3.0	0.0	0.0	-67.1	-4.7	-1.2	-7.1	-2.3	3.7	
280-L49-ERGE	30.1	1	56.2	62.2	733.7	3.0	0.0	0.0	-68.4	-4.7	-1.4	-13.1	-15.4	-9.4	
280-L5-HDO	120.5	1	69.8	69.8	1812.3	5.7	0.0	0.0	-77.1	-4.7	-3.5	-1.5	7.6	7.6	
280-L50-Michels	319.9	1	73.1	0.0	1638.1	3.0	0.0	0.0	-75.7	-4.8	-3.2	-1.5	14.1	0.0	

Projekt: Paderborn

Anlage 5, Bl. 20

Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>j</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
280-L53-DHL	60.4	1	72.2	69.4	336.9	3.0	0.0	0.0	-61.7	-4.6	-0.6	-11.7	12.9	10.1
280-L54-DHL	180.3	1	70.7	0.0	315.7	3.0	0.0	0.0	-61.7	-4.5	-0.6	-8.0	19.9	0.0
280-L55-DHL	25.4	1	60.0	0.0	352.9	3.0	0.0	0.0	-61.8	-4.6	-0.7	-7.9	0.2	0.0
280-L56-Hilti	60.8	1	71.3	0.0	281.6	3.0	0.0	0.0	-60.2	-4.4	-0.5	-8.4	17.2	0.0
280-L6-HDO	89.9	1	70.8	70.8	1869.0	5.7	0.0	0.0	-77.3	-4.7	-3.6	-1.4	7.1	7.1
280-L62-Wegener	138.7	1	70.0	73.6	1426.7	3.0	0.0	0.0	-74.2	-4.8	-2.7	0.0	10.8	14.4
280-L63-Kessel	16.0	1	79.0	0.0	1480.0	3.0	0.0	0.0	-74.4	-4.7	-2.8	0.0	10.2	0.0
280-L64-Stroeth	30.0	1	89.0	0.0	1444.9	3.0	0.0	0.0	-74.3	-4.7	-2.8	-15.4	7.7	0.0
280-L65-Adopt	40.5	1	77.0	0.0	260.4	3.0	0.0	0.0	-59.4	-4.6	-0.5	-14.3	15.8	0.0
280-L67-Biogas	164.8	1	72.8	0.0	496.5	3.0	0.0	0.0	-65.7	-4.7	-1.0	0.0	24.8	0.0
280-L68-Howelpa	635.3	1	73.0	75.0	1184.4	3.0	0.0	0.0	-72.6	-4.8	-2.3	-8.2	14.2	16.2
280-L69-Howelpa	863.0	1	67.8	69.8	986.4	3.0	0.0	0.0	-71.7	-4.8	-2.1	-8.2	11.5	13.5
280-L7-WF	739.6	1	67.8	68.0	1106.3	3.0	0.0	0.0	-72.8	-4.8	-2.3	-1.6	16.1	16.3
280-L70-Claas	179.9	1	73.5	0.0	1796.7	3.0	0.0	0.0	-76.4	-4.7	-3.5	-6.7	5.9	0.0
280-L71-Claas	90.2	1	76.5	0.0	1717.5	3.0	0.0	0.0	-75.9	-4.7	-3.3	-3.6	9.6	0.0
280-L72-Claas	100.2	1	82.0	0.0	1779.2	3.0	0.0	0.0	-76.1	-4.7	-3.4	-13.7	5.2	0.0
280-L73-Claas	150.0	1	80.2	77.2	1895.2	3.0	0.0	0.0	-76.8	-4.8	-3.7	-12.4	5.4	2.4
280-L74-Claas	685.5	1	74.8	65.0	1579.0	3.0	0.0	0.0	-76.1	-4.8	-3.3	-3.8	16.4	6.6
280-L8-WF	438.5	1	63.3	63.8	1105.8	3.0	0.0	0.0	-72.4	-4.8	-2.2	-1.3	10.1	10.6
280-L9a-WF	27.5	1	68.8	68.6	1214.1	3.0	0.0	0.0	-72.8	-4.8	-2.3	-4.2	0.3	0.1
280-L9b-WF	27.9	1	68.8	68.6	1143.7	6.0	0.0	0.0	-72.2	-4.7	-2.2	-18.3	-10.0	-10.2
280-L9c-WF	45.0	1	0.0	92.5	1230.7	3.0	0.0	0.0	-72.9	-4.7	-2.4	-6.2	0.0	23.9
280-P1-HDO	1.0	0	104.1	0.0	1980.7	3.0	0.0	0.0	-76.9	-4.8	-3.8	-7.3	12.4	0.0
280-P10-HDO	1.0	0	95.3	96.3	2006.7	6.0	0.0	0.0	-77.0	-4.8	-3.8	-20.3	-5.5	-5.5
280-P100-Hans	1.0	0	87.0	0.0	282.9	6.0	0.0	0.0	-60.0	-4.4	-0.5	-0.4	26.2	0.0
280-P1000-Stute	1.0	0	87.0	87.0	704.5	3.0	0.0	0.0	-68.0	-4.6	-1.3	-0.2	14.1	14.1
280-P1001-Stute	1.0	0	85.8	0.0	670.0	3.0	0.0	0.0	-67.5	-4.8	-1.3	-6.4	8.0	0.0
280-P1002-Stute	1.0	0	85.8	0.0	679.3	3.0	0.0	0.0	-67.6	-4.8	-1.3	-10.5	3.8	0.0
280-P1003-Stute	1.0	0	85.7	0.0	709.9	3.0	0.0	0.0	-68.0	-4.7	-1.3	0.0	12.9	0.0
280-P1004-Stute	1.0	0	98.1	0.0	694.5	3.0	0.0	0.0	-67.8	-4.7	-1.3	0.0	25.5	0.0

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P1005-Stute	1.0	0	0	85.3	0.0	750.1	3.0	0.0	0.0	-68.5	-4.8	-1.4	-18.2	-6.4	0.0
280-P1006-Stute	1.0	0	0	95.7	95.7	789.4	3.0	0.0	0.0	-68.9	-4.7	-1.5	-18.9	2.9	2.9
280-P1007-Stute	1.0	0	0	97.7	97.7	883.5	3.0	0.0	0.0	-69.9	-4.7	-1.7	-20.3	2.2	2.2
280-P1008-Stute	1.0	0	0	87.8	87.8	855.0	6.0	0.0	0.0	-69.6	-4.7	-1.6	-19.8	-3.7	-3.7
280-P1009-Stute	1.0	0	0	94.7	94.7	864.6	3.0	0.0	0.0	-69.7	-4.7	-1.7	-12.2	7.7	7.7
280-P101-PPH	1.0	0	0	93.8	0.0	1508.9	6.0	0.0	0.0	-74.6	-4.7	-2.8	-1.9	13.8	0.0
280-P1010-Stute	1.0	0	0	106.4	106.4	702.6	3.0	0.0	0.0	-67.9	-4.4	-1.5	-0.4	33.5	33.5
280-P1011-Stute	1.0	0	0	97.4	97.4	777.1	6.0	0.0	0.0	-68.8	-4.7	-1.5	-15.3	11.3	11.3
280-P1012-Stute	1.0	0	0	87.5	87.5	765.0	3.0	0.0	0.0	-68.7	-4.5	-1.4	0.0	14.1	14.1
280-P1013-Stute	1.0	0	0	87.5	87.5	754.5	3.0	0.0	0.0	-68.6	-4.4	-1.5	0.0	14.2	14.2
280-P1014-Stute	1.0	0	0	80.0	80.0	752.3	3.0	0.0	0.0	-68.5	-4.2	-1.5	0.0	7.3	7.3
280-P1015-Stute	1.0	0	0	85.0	85.0	702.4	3.0	0.0	0.0	-67.9	-4.6	-1.4	0.0	12.3	12.3
280-P1016-Westö	1.0	0	0	100.0	0.0	1488.2	3.0	0.0	0.0	-74.5	-4.7	-2.8	-8.7	10.4	0.0
280-P1017-Westö	1.0	0	0	88.8	0.0	1465.8	3.0	0.0	0.0	-74.3	-4.7	-2.8	0.0	8.1	0.0
280-P1018-Westö	1.0	0	0	74.5	74.5	1565.6	6.0	0.0	0.0	-74.9	-4.7	-3.0	-20.3	-24.3	-24.3
280-P1019-Westö	1.0	0	0	87.0	0.0	1507.1	3.0	0.0	0.0	-74.6	-4.7	-2.9	0.0	5.9	0.0
280-P102-Bunse	1.0	0	0	89.8	0.0	2133.1	6.0	0.0	0.0	-77.6	-4.8	-4.0	-9.0	-1.6	0.0
280-P1020-Westö	1.0	0	0	72.8	72.8	1511.8	3.0	0.0	0.0	-74.6	-4.7	-2.9	0.0	-8.3	-8.3
280-P1021-Westö	1.0	0	0	72.8	72.8	1507.7	3.0	0.0	0.0	-74.6	-4.6	-2.9	0.0	-8.2	-8.2
280-P1022-Westö	1.0	0	0	68.0	68.0	1479.0	6.0	0.0	0.0	-74.4	-4.7	-2.8	-0.8	-10.6	-10.6
280-P1023-Westö	1.0	0	0	95.6	95.6	1578.2	6.0	0.0	0.0	-75.0	-4.7	-3.0	-18.4	-1.4	-1.4
280-P103-Bunse	1.0	0	0	89.8	0.0	2151.2	6.0	0.0	0.0	-77.7	-4.8	-4.1	-16.8	-9.5	0.0
280-P104-Bunse	1.0	0	0	99.0	0.0	2114.1	3.0	0.0	0.0	-77.5	-4.8	-4.0	-10.4	3.4	0.0
280-P105-Welsing	1.0	0	0	97.5	0.0	1537.1	6.0	0.0	0.0	-74.7	0.0	-2.9	-25.1	-1.1	0.0
280-P106-ERGE	1.0	0	0	104.0	95.0	617.3	3.0	0.0	0.0	-66.8	-4.6	-1.2	-11.9	20.7	11.7
280-P107-ERGE	1.0	0	0	81.0	81.0	716.5	6.0	0.0	0.0	-68.1	-4.7	-1.4	-15.2	-4.2	-4.2
280-P108-ERGE	1.0	0	0	89.0	89.0	615.9	3.0	0.0	0.0	-66.8	-4.7	-1.2	-12.8	4.7	4.7
280-P109-ERGE	1.0	0	0	89.0	89.0	646.5	3.0	0.0	0.0	-67.2	-4.5	-1.2	0.0	17.3	17.3
280-P11-HDO	1.0	0	0	96.3	96.3	1998.7	6.0	0.0	0.0	-77.0	-4.8	-3.8	-19.2	-4.4	-4.4
280-P110-ERGE	1.0	0	0	79.0	79.0	651.2	6.0	0.0	0.0	-67.3	-4.6	-1.2	-5.6	4.5	4.5

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo.-dampf. D <sub>EM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P111-ERGE	1.0	0		74.0	74.0	671.1	6.0	0.0	0.0	-67.5	-4.6	-1.3	-13.4	-8.6	-8.6
280-P112-ERGE	1.0	0		74.0	74.0	662.3	6.0	0.0	0.0	-67.4	-4.6	-1.2	-4.7	0.2	0.2
280-P113-ERGE	1.0	0		74.0	74.0	709.4	6.0	0.0	0.0	-68.0	-4.6	-1.3	0.0	4.3	4.3
280-P117-DHL	1.0	0		86.0	0.0	348.4	3.0	0.0	0.0	-61.8	-4.4	-0.7	-17.8	2.7	0.0
280-P118-Hilti	1.0	0		86.0	0.0	288.8	3.0	0.0	0.0	-60.2	-4.4	-0.5	-0.5	21.9	0.0
280-P119-Hilti	1.0	0		96.0	0.0	290.9	3.0	0.0	0.0	-60.3	-4.4	-0.5	-12.6	19.6	0.0
280-P12-HDO	1.0	0		97.7	97.7	1874.9	6.0	0.0	0.0	-76.5	-4.8	-3.5	-18.0	-1.1	-1.1
280-P126-Wegener	1.0	0		88.0	88.0	1530.9	6.0	0.0	0.0	-74.7	-4.8	-2.9	0.0	9.7	9.7
280-P127-Auto	1.0	0		94.0	0.0	1449.0	3.0	0.0	0.0	-74.2	-4.7	-2.8	-14.7	-1.3	0.0
280-P129-WEA	1.0	0		103.5	103.5	424.5	3.0	0.0	0.0	-63.6	-1.6	-0.8	0.0	40.5	40.5
280-P13-HDO	1.0	0		86.8	86.8	1968.5	3.0	0.0	0.0	-76.9	-4.8	-3.7	-0.5	2.0	2.0
280-P130-WEA	1.0	0		103.5	103.5	856.2	3.0	0.0	0.0	-69.7	-3.2	-1.6	0.0	31.8	31.8
280-P131-WEA	1.0	0		106.0	106.0	578.5	3.0	0.0	0.0	-66.2	-2.1	-1.2	0.0	39.5	39.5
280-P132-Biogas	1.0	0		85.0	85.0	484.2	3.0	0.0	0.0	-64.7	-4.6	-1.0	0.0	16.1	16.1
280-P133-D&S	1.0	0		107.0	107.0	1385.1	6.0	0.0	0.0	-73.8	-4.8	-2.7	-3.0	26.9	26.9
280-P134-D&S	1.0	0		107.0	107.0	1335.0	6.0	0.0	0.0	-73.5	0.0	-2.5	-25.0	10.1	10.1
280-P135-D&S	1.0	0		107.0	107.0	1329.6	6.0	0.0	0.0	-73.5	-4.8	-2.5	-16.8	13.5	13.5
280-P136-Claas	1.0	0		95.0	95.0	1853.0	6.0	0.0	0.0	-76.4	-4.7	-3.5	-16.8	-2.3	-2.3
280-P137-Claas	1.0	0		90.0	90.0	1848.3	6.0	0.0	0.0	-76.3	-4.7	-3.5	-14.5	-4.9	-4.9
280-P138-Claas	1.0	0		90.0	90.0	1886.0	6.0	0.0	0.0	-76.5	-4.7	-3.6	-17.1	-7.8	-7.8
280-P139-Claas	1.0	0		90.0	90.0	1901.5	6.0	0.0	0.0	-76.6	-4.7	-3.6	-10.6	-1.4	-1.4
280-P14-HDO	1.0	0		86.8	86.8	1953.1	3.0	0.0	0.0	-76.8	-4.8	-3.7	0.0	2.6	2.6
280-P140-Claas	1.0	0		90.0	90.0	1970.3	6.0	0.0	0.0	-76.9	-4.7	-3.8	-18.4	-9.6	-9.6
280-P141-Claas	1.0	0		93.0	93.0	1819.3	3.0	0.0	0.0	-76.2	-4.7	-3.4	-4.2	5.5	5.5
280-P142-Claas	1.0	0		96.0	96.0	1778.3	3.0	0.0	0.0	-76.0	-4.7	-3.4	-15.0	-2.0	-2.0
280-P143-Claas	1.0	0		88.0	88.0	1819.2	3.0	0.0	0.0	-76.2	-4.6	-3.5	0.0	4.8	4.8
280-P144-Claas	1.0	0		93.6	0.0	1866.3	3.0	0.0	0.0	-76.4	-4.8	-3.5	-0.4	9.6	0.0
280-P145-Claas	1.0	0		90.4	0.0	1859.8	3.0	0.0	0.0	-76.4	-4.7	-3.5	-0.4	6.5	0.0
280-P146-Claas	1.0	0		89.0	0.0	1905.8	3.0	0.0	0.0	-76.6	-4.7	-3.7	-5.0	0.2	0.0
280-P15-HDO	1.0	0		85.0	85.0	1915.3	3.0	0.0	0.0	-76.6	-4.8	-3.7	-2.4	-1.4	-1.4

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 23  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P16-HDO	1.0	0	0	107.0	107.0	1900.7	3.0	0.0	0.0	-76.6	-4.7	-3.6	0.0	23.2	23.2
280-P17-HDO	1.0	0	0	109.2	109.2	1888.7	3.0	0.0	0.0	-76.5	-4.7	-3.6	-5.6	19.9	19.9
280-P18-HDO	1.0	0	0	100.7	100.7	1770.4	3.0	0.0	0.0	-76.0	-4.7	-3.3	-15.3	2.4	2.4
280-P18a-HDO	1.0	0	0	99.7	99.7	1774.4	3.0	0.0	0.0	-76.0	-4.6	-3.4	0.0	16.8	16.8
280-P19-HDO	1.0	0	0	92.3	92.3	1962.2	3.0	0.0	0.0	-76.9	-4.7	-3.7	-15.2	-7.1	-7.1
280-P19a-HDO	1.0	0	0	89.2	89.2	1963.3	3.0	0.0	0.0	-76.9	-4.7	-3.7	0.0	5.1	5.1
280-P2-HDO	1.0	0	0	87.1	0.0	1950.3	3.0	0.0	0.0	-76.8	-4.7	-3.7	-13.2	-10.2	0.0
280-P20-HDO	1.0	0	0	89.6	89.6	1972.3	3.0	0.0	0.0	-76.9	-4.7	-3.8	-18.4	-13.0	-13.0
280-P20a-HDO	1.0	0	0	89.5	89.5	1969.7	3.0	0.0	0.0	-76.9	-4.7	-3.7	0.0	5.4	5.4
280-P20b-HDO	1.0	0	0	80.0	80.0	1973.4	3.0	0.0	0.0	-76.9	-4.7	-3.8	0.0	-4.2	-4.2
280-P21-HDO	1.0	0	0	87.1	87.1	1994.0	3.0	0.0	0.0	-77.0	-4.7	-3.8	-17.1	-14.4	-14.4
280-P22-HDO	1.0	0	0	94.1	94.1	2063.1	3.0	0.0	0.0	-77.3	-4.8	-3.9	-20.0	-10.8	-10.8
280-P22a-HDO	1.0	0	0	88.3	88.3	2063.9	3.0	0.0	0.0	-77.3	-4.7	-3.9	-16.4	-12.8	-12.8
280-P22b-HDO	1.0	0	0	88.3	88.3	2062.0	3.0	0.0	0.0	-77.3	-4.7	-3.9	-15.4	-11.8	-11.8
280-P23-HDO	1.0	0	0	86.8	86.8	1908.9	3.0	0.0	0.0	-76.6	-4.6	-3.7	0.0	3.1	3.1
280-P24-HDO	1.0	0	0	92.6	92.6	1908.2	3.0	0.0	0.0	-76.6	-4.7	-3.7	0.0	8.7	8.7
280-P25-HDO	1.0	0	0	85.9	85.9	1989.4	3.0	0.0	0.0	-77.0	-4.8	-3.8	-17.4	-16.0	-16.0
280-P26-WF	1.0	0	0	94.8	94.8	1158.8	3.0	0.0	0.0	-72.3	-4.8	-2.2	-16.0	0.6	0.6
280-P27-WF	1.0	0	0	82.2	82.2	1158.8	3.0	0.0	0.0	-72.3	-4.6	-2.2	0.0	4.4	4.4
280-P28-WF	1.0	0	0	84.1	84.1	1160.2	3.0	0.0	0.0	-72.3	-4.6	-2.2	-8.3	-2.0	-2.0
280-P29-WF	1.0	0	0	89.2	89.2	1229.1	3.0	0.0	0.0	-72.8	-4.6	-2.3	0.0	10.8	10.8
280-P3-HDO	1.0	0	0	88.8	0.0	1939.7	3.0	0.0	0.0	-76.8	-4.7	-3.7	-18.4	-13.7	0.0
280-P30-WF	1.0	0	0	87.1	0.0	1153.9	6.0	0.0	0.0	-72.2	-4.8	-2.2	-15.3	-3.3	0.0
280-P31-WF	1.0	0	0	104.7	104.7	1161.6	6.0	0.0	0.0	-72.3	-4.8	-2.2	-15.8	13.7	13.7
280-P32-WF	1.0	0	0	82.9	0.0	1256.5	3.0	0.0	0.0	-73.0	-4.8	-2.4	-19.7	-15.9	0.0
280-P33-WF	1.0	0	0	99.9	99.9	1237.4	3.0	0.0	0.0	-72.9	-4.8	-2.3	-19.8	1.1	1.1
280-P34-WF	2.0	0	0	97.6	97.6	1225.8	6.0	0.0	0.0	-72.8	-4.7	-2.3	-18.3	6.6	6.6
280-P35-WF	1.0	0	0	107.6	107.6	1223.6	6.0	0.0	0.0	-72.8	-4.7	-2.3	-19.0	12.9	12.9
280-P36-WF	1.0	0	0	78.7	78.7	1151.1	6.0	0.0	0.0	-72.2	-4.7	-2.2	-11.7	-8.0	-8.0
280-P37-WF	1.0	0	0	86.8	86.8	1115.5	6.0	0.0	0.0	-71.9	-4.7	-2.2	0.0	12.1	12.1

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 24  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>D</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P38-WF	1.0	0	0	85.0	85.0	1286.2	3.0	0.0	0.0	-73.2	-4.5	-2.4	0.0	6.2	6.2
280-P39-WF	1.0	0	0	88.2	88.2	1426.6	3.0	0.0	0.0	-74.1	-4.7	-2.7	-1.9	5.9	5.9
280-P4-HDO	1.0	0	0	88.8	0.0	1997.1	3.0	0.0	0.0	-77.0	-4.8	-3.8	-11.5	-7.2	0.0
280-P40-WF	1.0	0	0	99.7	100.0	1324.9	6.0	0.0	0.0	-73.4	-4.7	-2.5	-17.8	5.4	5.7
280-P41-WF	1.0	0	0	99.7	100.0	1303.3	6.0	0.0	0.0	-73.3	-4.7	-2.5	-5.8	17.5	17.8
280-P42-WF	1.0	0	0	93.6	0.0	1332.4	3.0	0.0	0.0	-73.5	-4.8	-2.5	-8.6	5.3	0.0
280-P43-WF	1.0	0	0	93.6	0.0	1190.6	3.0	0.0	0.0	-72.5	-4.8	-2.2	0.0	15.2	0.0
280-P44-Br	1.0	0	0	91.8	0.0	1215.9	3.0	0.0	0.0	-72.7	-4.8	-2.3	-20.2	-7.1	0.0
280-P45-Br	1.0	0	0	90.7	96.7	1212.4	3.0	0.0	0.0	-72.7	-4.8	-2.3	-18.0	-6.0	0.0
280-P46-Br	1.0	0	0	95.0	95.0	1043.4	6.0	0.0	0.0	-71.4	-4.8	-2.0	-20.1	0.8	0.8
280-P47-Br	1.0	0	0	95.0	95.0	1043.5	6.0	0.0	0.0	-71.4	-4.8	-2.0	-20.1	0.8	0.8
280-P48-Br	1.0	0	0	111.5	111.5	952.8	3.0	0.0	0.0	-70.6	-4.7	-1.8	-0.2	35.4	35.4
280-P49-Br	1.0	0	0	92.6	92.6	957.9	6.0	0.0	0.0	-70.6	-4.8	-1.8	-1.9	17.6	17.6
280-P5-HDO	1.0	0	0	88.8	0.0	1999.7	3.0	0.0	0.0	-77.0	-4.8	-3.8	-1.3	3.0	0.0
280-P50-Br	1.0	0	0	88.0	88.0	1210.0	3.0	0.0	0.0	-72.7	-4.8	-2.2	0.0	9.4	9.4
280-P51-Br	1.0	0	0	88.0	88.0	1165.3	3.0	0.0	0.0	-72.3	-4.8	-2.2	0.0	9.8	9.8
280-P52-Br	1.0	0	0	81.0	81.0	1197.9	3.0	0.0	0.0	-72.6	-4.8	-2.2	0.0	2.5	2.5
280-P53-Br	1.0	0	0	80.0	80.0	1032.4	3.0	0.0	0.0	-71.3	-4.5	-2.0	-0.2	3.4	3.4
280-P54-Br	1.0	0	0	91.1	91.1	1063.9	6.0	0.0	0.0	-71.5	-4.8	-2.0	-0.7	16.2	16.2
280-P55-Br	1.0	0	0	91.1	91.1	1063.9	6.0	0.0	0.0	-71.5	-4.8	-2.0	-0.5	16.4	16.4
280-P56-Br	1.0	0	0	91.1	91.1	1064.3	6.0	0.0	0.0	-71.5	-4.8	-2.0	-2.6	14.3	14.3
280-P57-Br	1.0	0	0	91.1	91.1	1064.7	6.0	0.0	0.0	-71.5	-4.8	-2.1	-3.1	13.8	13.8
280-P58-Br	1.0	0	0	91.1	91.1	1146.9	6.0	0.0	0.0	-72.2	-4.8	-2.2	-19.3	-3.2	-3.2
280-P59-Br	1.0	0	0	91.1	91.1	1158.9	6.0	0.0	0.0	-72.3	-4.8	-2.2	-13.7	2.2	2.2
280-P6-HDO	1.0	0	0	104.0	0.0	1870.1	3.0	0.0	0.0	-76.4	-4.7	-3.6	-17.7	2.7	0.0
280-P60-Br	1.0	0	0	91.1	91.1	1143.0	6.0	0.0	0.0	-72.2	-4.8	-2.2	-20.1	-4.1	-4.1
280-P61-Br	1.0	0	0	91.1	91.1	1143.2	6.0	0.0	0.0	-72.2	-4.8	-2.2	-19.9	-3.9	-3.9
280-P62-Vedd	1.0	0	0	99.8	0.0	676.6	6.0	0.0	0.0	-67.6	-4.7	-1.2	-0.1	30.4	0.0
280-P63-Vedd	1.0	0	0	96.0	0.0	676.2	3.0	0.0	0.0	-67.6	-4.7	-1.3	-0.1	23.5	0.0
280-P64-Vedd	1.0	0	0	89.3	0.0	681.4	3.0	0.0	0.0	-67.7	-4.6	-1.2	0.0	17.0	0.0

Projekt: Paderborn

Anlage 5, Bl. 25

Datum: 03.12.2010

BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P65-Vedd	1.0	0	75.0	0.0	668.3	3.0	0.0	0.0	-67.5	-4.6	-1.2	0.0	2.9	0.0	
280-P66-KM	1.0	0	94.0	0.0	1454.0	6.0	0.0	0.0	-74.3	-4.7	-2.8	-6.2	10.1	0.0	
280-P67-KM	1.0	0	94.0	0.0	1460.4	6.0	0.0	0.0	-74.3	-4.7	-2.8	-8.6	7.7	0.0	
280-P68-KM	1.0	0	94.0	0.0	1454.7	6.0	0.0	0.0	-74.3	-4.7	-2.7	0.0	16.4	0.0	
280-P69-KM	1.0	0	94.0	0.0	1439.4	6.0	0.0	0.0	-74.2	-4.7	-2.7	-20.3	-3.8	0.0	
280-P7-HDO	1.0	0	101.0	0.0	1955.0	3.0	0.0	0.0	-76.8	-4.8	-3.7	-9.4	7.4	0.0	
280-P70-Oste	1.0	0	100.5	0.0	1360.3	6.0	0.0	0.0	-73.7	-4.7	-2.6	-19.3	4.3	0.0	
280-P71-Oste	1.0	0	95.5	0.0	1356.2	6.0	0.0	0.0	-73.6	-4.7	-2.6	-19.3	-0.6	0.0	
280-P72-Oste	1.0	0	100.7	0.0	1364.6	3.0	0.0	0.0	-73.7	-4.7	-2.6	-17.3	3.5	0.0	
280-P73-Pöhl	1.0	0	94.3	0.0	1631.1	6.0	0.0	0.0	-75.2	-4.7	-3.1	-19.4	-4.0	0.0	
280-P74-Pöhl	1.0	0	102.1	0.0	1561.0	3.0	0.0	0.0	-74.9	-4.8	-2.9	0.0	20.6	0.0	
280-P75-Piep	1.0	0	90.5	0.0	1362.6	6.0	0.0	0.0	-73.7	-4.8	-2.5	0.0	13.6	0.0	
280-P76-Piep	1.0	0	80.8	0.0	1371.9	3.0	0.0	0.0	-73.7	-4.7	-2.6	0.0	0.9	0.0	
280-P77-Piep	1.0	0	95.7	0.0	1383.9	6.0	0.0	0.0	-73.8	-4.8	-2.6	-14.5	4.1	0.0	
280-P78-Piep	1.0	0	85.8	0.0	1378.4	3.0	0.0	0.0	-73.8	-4.7	-2.6	0.0	5.8	0.0	
280-P79-Piep	1.0	0	85.3	0.0	1366.8	3.0	0.0	0.0	-73.7	-4.7	-2.6	0.0	5.5	0.0	
280-P8-HDO	1.0	0	96.3	96.3	2022.5	6.0	0.0	0.0	-77.1	-4.8	-3.9	-20.3	-5.6	-5.6	
280-P80-Piep	1.0	0	88.3	0.0	1364.2	3.0	0.0	0.0	-73.7	-4.7	-2.5	0.0	8.6	0.0	
280-P81-Wöhn	1.0	0	77.7	82.0	1255.6	3.0	0.0	0.0	-73.0	-4.7	-2.4	-10.2	-11.5	-7.2	
280-P82-Wöhn	1.0	0	84.2	84.2	1251.9	3.0	0.0	0.0	-73.0	-4.8	-2.4	-9.1	-4.0	-4.0	
280-P83-BBR	1.0	0	113.0	0.0	2442.6	3.0	0.0	0.0	-78.8	-4.8	-4.6	-8.9	17.0	0.0	
280-P84-OSG	1.0	0	110.2	0.0	1504.7	6.0	0.0	0.0	-74.5	-4.8	-2.9	-5.7	26.4	0.0	
280-P85-OSG	1.0	0	89.0	0.0	1508.4	6.0	0.0	0.0	-74.6	-4.8	-2.8	-9.4	1.4	0.0	
280-P86-ASB	1.0	0	89.2	0.0	326.6	3.0	0.0	0.0	-61.3	-4.6	-0.6	-0.1	24.0	0.0	
280-P87-Rub	1.0	0	88.1	88.1	656.1	3.0	0.0	0.0	-67.3	-4.4	-1.3	0.0	16.5	16.5	
280-P88-Rub	1.0	0	78.0	78.0	604.8	6.0	0.0	0.0	-66.6	-4.6	-1.2	-0.2	9.7	9.7	
280-P89-Rub	1.0	0	78.0	78.0	688.8	6.0	0.0	0.0	-67.8	-4.6	-1.3	-16.0	-7.5	-7.5	
280-P9-HDO	1.0	0	96.3	96.3	2015.1	6.0	0.0	0.0	-77.1	-4.8	-3.8	-20.3	-5.6	-5.6	
280-P90-Rub	1.0	0	117.8	0.0	646.4	6.0	0.0	0.0	-67.2	-4.6	-1.2	-2.2	46.8	0.0	
280-P91-Rub	1.0	0	117.8	0.0	657.6	6.0	0.0	0.0	-67.4	-4.6	-1.2	-17.0	31.8	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P92-Frie	1.0	0		92.9	0.0	1395.4	6.0	0.0	0.0	-73.9	-4.7	-2.7	-1.1	14.6	0.0
280-P93-Frie	1.0	0		88.0	0.0	1448.1	3.0	0.0	0.0	-74.2	-4.8	-2.7	-16.3	-9.0	0.0
280-P94-BLG	1.0	0		90.7	0.0	1296.1	3.0	0.0	0.0	-73.3	-4.6	-2.4	0.0	11.5	0.0
280-P95-BLG	1.0	0		90.0	0.0	1342.2	6.0	0.0	0.0	-73.6	-4.6	-2.5	-20.3	-7.0	0.0
280-P96-BLG	1.0	0		90.0	0.0	1334.9	6.0	0.0	0.0	-73.5	-4.6	-2.6	-15.6	-2.1	0.0
280-P97-BLG	1.0	0		90.0	0.0	1328.0	6.0	0.0	0.0	-73.5	-4.6	-2.5	-15.6	-2.1	0.0
280-P98-BLG	1.0	0		90.0	0.0	1321.7	6.0	0.0	0.0	-73.4	-4.6	-2.5	-15.2	-1.6	0.0
280-P99-BLG	1.0	0		90.0	0.0	1315.8	6.0	0.0	0.0	-73.4	-4.6	-2.5	-13.9	-0.3	0.0
280-PRaif	1.0	0		102.0	102.0	1564.7	3.0	0.0	0.0	-74.9	-4.6	-3.0	0.0	20.7	20.7
Summe													55.8	50.7	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 27  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Prioritätenliste Tag**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-F48-Veolia	280-F48-Ve	54.2	55.8
280-P90-Rub	280-P90-Ru	46.8	50.7
280-L1000-Stute	280-L1000-	41.1	48.4
280-P129-WEA	280-P129-W	40.5	47.5
280-P131-WEA	280-P131-W	39.5	46.5
280-F15-WF	280-F15-WF	36.4	45.6
280-P48-Br	280-P48-Br	35.4	45.0
280-P1010-Stute	280-P1010-	33.5	44.5
280-L13-Br	280-L13-Br	33.3	44.1
280-P91-Rub	280-P91-Ru	31.8	43.8
280-P130-WEA	280-P130-W	31.8	43.5
280-F52-Beton	280-F52-Be	31.6	43.2
280-F22-Br	280-F22-Br	31.1	42.9
280-L21-Pöhl	280-L21-Pö	30.8	42.6
280-P62-Vedd	280-P62-Ve	30.4	42.3
280-F39-Hans	280-F39-Ha	30.0	42.0
280-F18-WF	280-F18-WF	29.2	41.7
280-F57-Claas	280-F57-CI	28.8	41.4
280-L32-Tem	280-L32-Te	27.8	41.2
280-F44-Schulte	280-F44-Sc	27.5	41.0
280-F29-Pöhl	280-F29-Pö	27.4	40.8
280-L22-Pöhl	280-L22-Pö	27.3	40.6
280-F21-Br	280-F21-Br	27.1	40.4
280-P133-D&S	280-P133-D	26.9	40.2
280-F54-D&S	280-F54-D&	26.8	40.0
280-L30-Rub	280-L30-Ru	26.5	39.8
280-P84-OSG	280-P84-OS	26.4	39.6
280-P100-Hans	280-P100-H	26.2	39.3
280-F1	280-F1	26.2	39.1
280-L1003-Stute	280-L1003-	25.9	38.9
280-P1004-Stute	280-P1004-	25.5	38.7

Projekt: Paderborn  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I2, 1.OG Prioritätenliste Nacht**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-F48-Veolia	280-F48-Ve	48.2	50.7
280-L1000-Stute	280-L1000-	41.1	47.1
280-P129-WEA	280-P129-W	40.5	45.9
280-P131-WEA	280-P131-W	39.5	44.4
280-P48-Br	280-P48-Br	35.4	42.7
280-P1010-Stute	280-P1010-	33.5	41.8
280-L32-Tem	280-L32-Te	32.9	41.1
280-P130-WEA	280-P130-W	31.8	40.4
280-F39-Hans	280-F39-Ha	31.5	39.7
280-F22-Br	280-F22-Br	31.1	39.0
280-F18-WF	280-F18-WF	29.2	38.2
280-L39-Hartm	280-L39-Ha	29.0	37.6
280-F21-Br	280-F21-Br	27.1	37.0
280-P133-D&S	280-P133-D	26.9	36.5
280-F13-HDO	280-F13-HD	24.0	36.0
280-L9c-WF	280-L9c-WF	23.9	35.7
280-F54-D&S	280-F54-D&	23.8	35.5
280-L41-Hartm	280-L41-Ha	23.6	35.1
280-P16-HDO	280-P16-HD	23.2	34.8
280-L38-Hartm	280-L38-Ha	23.0	34.5
280-F5	280-F5	22.9	34.2
280-F36-Frie	280-F36-Fr	21.2	33.9
280-L1003-Stute	280-L1003-	21.0	33.6
280-PRaif	280-PRaif	20.7	33.4
280-P17-HDO	280-P17-HD	19.9	33.1
280-L40-Hartm	280-L40-Ha	19.2	32.9
280-L11-Br	280-L11-Br	18.9	32.7
280-L15-Raif	280-L15-Ra	18.5	32.6
280-F20-Br	280-F20-Br	18.5	32.4
280-P41-WF	280-P41-WF	17.8	32.2
280-P49-Br	280-P49-Br	17.6	32.0

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 29  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>D</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo.-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-F1	16255.5	2	72.9	0.0	2709.6	3.0	0.0	0.0	-80.0	-4.8	-5.3	-0.5	25.4	0.0	
280-F10-HDO	2162.7	2	64.0	64.0	2061.0	3.0	0.0	0.0	-77.5	-4.8	-4.0	0.0	12.2	12.2	
280-F1000-Westo	2032.4	2	61.9	61.9	1881.2	3.0	0.0	0.0	-76.7	-4.8	-3.6	-2.3	8.7	8.7	
280-F11-HDO	1492.8	2	62.0	62.0	2142.0	3.0	0.0	0.0	-77.7	-4.8	-4.1	0.0	8.2	8.2	
280-F12-HDO	1142.9	2	63.0	63.0	2200.0	3.0	0.0	0.0	-78.0	-4.8	-4.2	0.0	7.7	7.7	
280-F13-HDO	5597.6	2	70.7	70.7	2215.6	3.0	0.0	0.0	-78.1	-4.8	-4.3	0.0	22.1	22.1	
280-F14-HDO	6338.7	2	63.8	63.8	2266.0	3.0	0.0	0.0	-78.3	-4.8	-4.4	0.0	15.4	15.4	
280-F15-WF	5382.7	2	78.5	55.9	1573.6	3.0	0.0	0.0	-75.3	-4.8	-3.1	-0.7	33.0	10.4	
280-F16-WF	3647.5	2	51.5	57.5	1607.5	3.0	0.0	0.0	-75.3	-4.8	-3.1	0.0	5.0	11.0	
280-F17-WF	1749.8	2	50.6	56.7	1519.3	3.0	0.0	0.0	-74.7	-4.8	-2.9	0.0	1.7	7.8	
280-F18-WF	7943.3	2	68.5	68.5	1575.8	3.0	0.0	0.0	-75.3	-4.7	-3.1	0.0	25.5	25.5	
280-F19-Br	14996.8	2	60.2	60.2	1660.6	3.0	0.0	0.0	-75.8	-4.8	-3.3	-3.3	15.8	15.8	
280-F20-Br	9099.1	2	59.4	59.4	1425.1	3.0	0.0	0.0	-74.6	-4.8	-2.9	-0.7	17.1	17.1	
280-F21-Br	5345.6	2	66.3	66.3	1437.7	3.0	0.0	0.0	-74.6	-4.7	-2.8	0.0	22.6	22.6	
280-F22-Br	22233.1	2	65.2	65.2	1551.0	3.0	0.0	0.0	-75.3	-4.7	-3.1	0.0	26.8	26.8	
280-F23-Br	5807.6	2	46.7	48.9	1424.7	3.0	0.0	0.0	-74.5	-4.8	-2.9	-0.5	2.7	4.9	
280-F23a-Br	4111.5	2	60.0	0.0	1230.1	3.0	0.0	0.0	-72.8	-4.7	-2.4	0.0	17.2	0.0	
280-F24-Pöhl	85.3	3	82.0	0.0	1970.9	6.0	0.0	0.0	-76.9	-4.8	-3.8	0.0	19.9	0.0	
280-F25-Pöhl	9.0	3	82.0	0.0	1921.4	6.0	0.0	0.0	-76.7	-4.8	-3.6	0.0	10.5	0.0	
280-F26-Pöhl	43.3	3	82.0	0.0	1882.6	6.0	0.0	0.0	-76.5	-4.8	-3.6	0.0	17.6	0.0	
280-F27-Pöhl	35.2	3	82.0	0.0	1891.1	6.0	0.0	0.0	-76.6	-4.8	-3.6	0.0	16.6	0.0	
280-F28-Pöhl	37.8	3	82.0	0.0	1939.9	6.0	0.0	0.0	-76.8	-4.8	-3.7	-16.1	0.5	0.0	
280-F29-Pöhl	4008.7	2	74.6	0.0	1824.0	3.0	0.0	0.0	-76.4	-4.8	-3.5	-1.2	25.8	0.0	
280-F3	901.6	2	68.8	0.0	2757.0	3.0	0.0	0.0	-79.9	-4.8	-5.3	-2.0	7.5	0.0	
280-F30-Wohn	5358.0	2	65.8	0.0	1614.5	3.0	0.0	0.0	-75.4	-4.8	-3.2	-1.3	19.5	0.0	
280-F31-BBR	5308.8	2	74.0	0.0	2869.1	3.0	0.0	0.0	-80.2	-4.8	-5.5	-0.3	21.4	0.0	
280-F32-BBR	3296.1	2	70.1	0.0	2817.7	3.0	0.0	0.0	-80.2	-4.8	-5.4	-0.6	15.4	0.0	
280-F34-ZEB	4709.8	2	71.3	0.0	1738.3	3.0	0.0	0.0	-76.1	-4.8	-3.4	-3.4	21.4	0.0	
280-F35-OSG	2084.5	2	64.7	0.0	1859.5	3.0	0.0	0.0	-76.5	-4.8	-3.6	-0.7	13.4	0.0	
280-F36-Frie	3953.7	2	69.2	67.4	1866.3	3.0	0.0	0.0	-76.8	-4.8	-3.7	-1.0	20.1	18.3	

Projekt: Paderborn

Datum: 03.12.2010

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

Anlage 5, Bl. 30

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**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
															m
280-F37-BLG	18492.7	2	53.9	0.0	1753.6	3.0	0.0	0.0	-76.3	-4.8	-3.5	-0.4	12.7	0.0	
280-F38-BLG	2924.2	2	0.0	65.9	1844.5	3.0	0.0	0.0	-76.5	-4.8	-3.6	-0.9	0.0	15.9	
280-F39-Hans	4497.8	2	58.7	60.2	762.5	3.0	0.0	0.0	-69.2	-4.7	-1.5	-1.8	19.2	20.7	
280-F4	22856.0	2	60.0	45.0	2511.4	3.0	0.0	0.0	-79.6	-4.8	-5.1	-1.2	14.0	-1.0	
280-F40-PPH	2103.8	2	66.0	0.0	1965.9	3.0	0.0	0.0	-77.0	-4.8	-3.8	-2.0	12.7	0.0	
280-F41-Leer	1553.1	2	60.0	0.0	1844.3	3.0	0.0	0.0	-76.4	-4.8	-3.6	-0.8	7.4	0.0	
280-F42-Bunse	214.3	2	55.0	0.0	2481.7	3.0	0.0	0.0	-79.0	-4.8	-4.7	0.0	-9.1	0.0	
280-F43-Bunse	899.5	2	52.5	0.0	2396.3	3.0	0.0	0.0	-78.6	-4.8	-4.6	-9.2	-14.1	0.0	
280-F44-Schulte	1153.5	2	57.6	57.0	1062.8	3.0	0.0	0.0	-71.6	-4.7	-2.1	0.0	20.9	10.3	
280-F45-Michels	440.6	2	55.5	58.0	1845.6	3.0	0.0	0.0	-76.4	-4.8	-3.5	-2.0	-3.7	-1.2	
280-F47-Vero	5508.1	2	74.3	67.6	2347.0	3.0	0.0	0.0	-78.6	-4.8	-4.5	-0.9	24.0	17.3	
280-F48-Veolia	14791.1	2	69.9	63.9	565.1	3.0	0.0	0.0	-67.3	-4.7	-1.2	-0.1	39.5	33.5	
280-F49-Wegener	1099.0	2	64.3	68.6	1777.7	3.0	0.0	0.0	-76.1	-4.8	-3.4	-0.1	11.4	15.7	
280-F5	47533.5	2	63.2	63.2	2382.8	3.0	0.0	0.0	-79.1	-4.8	-4.8	0.0	22.4	22.4	
280-F50-Pader	1250.3	2	65.2	0.0	730.3	3.0	0.0	0.0	-68.5	-4.7	-1.4	-7.2	15.6	0.0	
280-F51-Stroeth	2098.9	2	60.0	0.0	1821.4	3.0	0.0	0.0	-76.4	-4.8	-3.5	-0.7	8.9	0.0	
280-F52-Beton	1648.2	2	60.8	0.0	722.2	3.0	0.0	0.0	-68.4	-4.7	-1.4	-0.5	19.2	0.0	
280-F53-Kaya	5200.0	2	58.8	0.0	1873.6	3.0	0.0	0.0	-76.7	-4.8	-3.7	-1.2	10.7	0.0	
280-F54-D&S	5058.2	2	70.3	67.3	1649.6	3.0	0.0	0.0	-75.5	-4.8	-3.2	-0.1	24.8	21.8	
280-F55-Claas	1309.2	2	62.0	62.0	2180.8	3.0	0.0	0.0	-77.8	-4.8	-4.2	0.0	7.5	7.5	
280-F56-Claas	17139.6	2	57.0	57.0	2028.2	3.0	0.0	0.0	-77.8	-4.7	-4.1	0.0	13.8	13.8	
280-F57-Claas	9015.7	2	73.0	0.0	2078.8	3.0	0.0	0.0	-77.8	-4.8	-4.2	0.0	26.8	0.0	
280-F58-Claas	10256.5	2	55.7	60.7	1957.4	3.0	0.0	0.0	-77.2	-4.8	-3.8	-0.4	10.7	15.7	
280-F59-Claas	1999.9	2	50.0	0.0	1996.4	3.0	0.0	0.0	-77.2	-4.8	-3.8	-0.8	-2.5	0.0	
280-F6	28054.3	2	47.5	47.5	2426.2	3.0	0.0	0.0	-79.2	-4.8	-4.8	-0.1	4.2	4.2	
280-F60-Claas	1253.1	2	45.1	0.0	2029.9	3.0	0.0	0.0	-77.3	-4.8	-3.9	-2.2	-11.0	0.0	
280-F61-Mannes	1618.1	2	55.0	0.0	646.8	3.0	0.0	0.0	-67.5	-4.7	-1.3	0.0	14.8	0.0	
280-F7-HDO	6151.8	2	53.1	57.4	2232.3	3.0	0.0	0.0	-78.2	-4.8	-4.4	-0.7	4.0	8.3	
280-F8-HDO	1603.2	2	48.8	0.0	2102.9	3.0	0.0	0.0	-77.6	-4.8	-4.1	-3.0	-7.6	0.0	
280-F9-HDO	3388.4	2	61.3	61.3	2084.3	3.0	0.0	0.0	-77.6	-4.7	-4.1	0.0	11.3	11.3	

Projekt: Paderborn

Anlage 5, Bl. 31

Datum: 03.12.2010

BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
280-L1-HDO	278.0	1	72.5	0.0	2099.3	3.0	0.0	0.0	-77.8	-4.8	-4.2	-1.6	9.6	0.0
280-L10-WF	877.0	1	65.1	0.0	1565.4	3.0	0.0	0.0	-75.6	-4.8	-3.2	-0.2	11.8	0.0
280-L1000-Stute	40.0	1	99.0	99.0	1166.0	3.0	0.0	0.0	-72.5	-4.7	-2.2	0.0	36.9	36.9
280-L1001-Stute	40.0	1	74.0	74.0	1061.5	3.0	0.0	0.0	-71.5	-4.6	-2.0	-0.2	13.0	13.0
280-L1002-Stute	92.7	1	66.0	66.0	1260.8	3.0	0.0	0.0	-73.3	-4.7	-2.5	-11.6	-5.2	-5.2
280-L1003-Stute	399.0	1	74.9	70.0	952.7	3.0	0.0	0.0	-70.8	-4.8	-1.9	-2.0	22.5	17.6
280-L1004-Stute	455.0	1	75.3	71.2	1088.8	3.0	0.0	0.0	-73.1	-4.8	-2.4	-4.0	18.7	14.6
280-L1005-Stute	625.2	1	70.2	69.2	1271.9	3.0	0.0	0.0	-74.2	-4.8	-2.8	-3.9	13.6	12.6
280-L1006-Stute	515.2	1	61.1	0.0	983.4	3.0	0.0	0.0	-72.2	-4.8	-2.1	-2.1	8.1	0.0
280-L1006-Westo	632.4	1	68.4	0.0	1800.1	3.0	0.0	0.0	-76.6	-4.8	-3.5	-2.4	10.2	0.0
280-L1007-Westo	230.1	1	68.4	0.0	1822.7	3.0	0.0	0.0	-76.5	-4.8	-3.5	-2.0	6.3	0.0
280-L1008-Westo	115.1	1	61.4	67.4	1928.7	3.0	0.0	0.0	-76.8	-4.8	-3.7	-7.6	-9.8	-3.8
280-L1009-Westo	32.1	1	59.7	65.7	1969.9	3.0	0.0	0.0	-77.0	-4.8	-3.8	-12.0	-21.7	-15.7
280-L1010-Westo	105.0	1	55.0	55.0	1846.1	3.0	0.0	0.0	-76.4	-4.8	-3.5	0.0	-8.4	-8.4
280-L1011-Westo	105.0	1	55.0	55.0	1830.8	3.0	0.0	0.0	-76.3	-4.8	-3.5	0.0	-8.3	-8.3
280-L1012-Westo	84.9	1	49.5	49.5	1876.6	3.0	0.0	0.0	-76.5	-4.8	-3.6	0.0	-15.0	-15.0
280-L11-Br	278.6	1	75.3	75.8	1417.3	3.0	0.0	0.0	-74.3	-4.8	-2.8	-1.7	17.3	17.8
280-L12-Br	399.9	1	57.8	0.0	1518.9	3.0	0.0	0.0	-75.5	-4.8	-3.1	-2.1	-0.6	0.0
280-L13-Br	130.6	1	92.8	0.0	1414.7	3.0	0.0	0.0	-74.1	-4.8	-2.7	-2.7	30.8	0.0
280-L14-Br	17.0	1	85.1	85.1	1499.1	3.0	0.0	0.0	-74.5	-4.8	-2.9	0.0	16.3	16.3
280-L15-Raif	295.1	1	75.5	76.0	1737.9	3.0	0.0	0.0	-76.2	-4.8	-3.4	-0.5	16.4	16.9
280-L16-Raif	356.5	1	68.3	0.0	1738.1	3.0	0.0	0.0	-76.1	-4.8	-3.4	-0.7	9.9	0.0
280-L17-Vedd	60.5	1	61.5	0.0	1179.9	3.0	0.0	0.0	-72.5	-4.8	-2.3	0.0	0.8	0.0
280-L18-KM	54.7	1	62.0	0.0	1917.2	3.0	0.0	0.0	-76.8	-4.8	-3.7	-5.0	-9.8	0.0
280-L19-Oste	65.2	1	79.6	0.0	1734.4	3.0	0.0	0.0	-75.8	-4.8	-3.3	-7.1	7.8	0.0
280-L2-HDO	574.1	1	68.4	68.4	2193.5	3.0	0.0	0.0	-78.2	-4.8	-4.3	-6.6	3.2	3.2
280-L20-Pöhl	272.9	1	79.0	75.0	1865.9	3.0	0.0	0.0	-76.7	-4.8	-3.6	-0.1	19.3	15.3
280-L21-Pöhl	230.1	1	91.2	0.0	1826.1	3.0	0.0	0.0	-76.5	-4.8	-3.6	-0.4	30.6	0.0
280-L22-Pöhl	175.4	1	86.4	0.0	1764.6	3.0	0.0	0.0	-76.0	-4.8	-3.4	0.0	25.7	0.0
280-L23-Pöhl	144.9	1	55.4	64.4	1877.5	3.0	0.0	0.0	-76.7	-4.8	-3.7	0.0	-7.1	1.9

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 32  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L24-Pöhl	89.9	1	76.0	0.0	1925.4	3.0	0.0	0.0	-76.9	-4.8	-3.7	0.0	11.2	0.0	
280-L25-Piep	30.0	1	60.2	0.0	1817.5	3.0	0.0	0.0	-76.3	-4.8	-3.5	0.0	-8.5	0.0	
280-L26-Piep	105.2	1	72.8	0.0	1806.4	3.0	0.0	0.0	-76.2	-4.8	-3.5	-0.7	8.9	0.0	
280-L27-BBR	447.7	1	78.8	0.0	2682.7	3.0	0.0	0.0	-79.8	-4.8	-5.3	-1.4	15.0	0.0	
280-L28-BBR	24.9	1	80.8	0.0	2699.2	3.0	0.0	0.0	-79.7	-4.8	-5.1	-0.1	6.1	0.0	
280-L29-ZEB	109.9	1	58.7	0.0	1708.3	3.0	0.0	0.0	-75.9	-4.8	-3.3	0.0	-3.8	0.0	
280-L3-HDO	40.0	1	78.7	0.0	2048.2	3.0	0.0	0.0	-77.2	-4.8	-3.9	-1.2	8.7	0.0	
280-L30-Rub	70.1	1	79.8	0.0	1113.8	3.0	0.0	0.0	-72.0	-4.7	-2.1	-0.9	19.7	0.0	
280-L31-Rub	70.1	1	61.9	69.1	1220.4	3.0	0.0	0.0	-72.7	-4.7	-2.3	-1.6	0.1	7.3	
280-L32-Tem	60.1	1	73.1	78.2	490.5	3.0	0.0	0.0	-65.0	-4.6	-0.9	-0.5	21.2	26.3	
280-L33-BLG	62.7	1	72.0	0.0	1847.7	3.0	0.0	0.0	-76.5	-4.8	-3.5	0.0	6.3	0.0	
280-L34-Bunse	120.2	1	79.2	0.0	2382.7	3.0	0.0	0.0	-78.7	-4.8	-4.6	-3.7	9.3	0.0	
280-L35-Bunse	74.5	1	70.8	0.0	2336.5	6.0	0.0	0.0	-78.4	-4.8	-4.5	-2.8	3.1	0.0	
280-L36-Finke	299.9	1	72.5	0.0	1604.8	3.0	0.0	0.0	-75.8	-4.8	-3.2	-2.5	12.1	0.0	
280-L37-Finke	279.9	1	59.8	0.0	1571.4	3.0	0.0	0.0	-75.3	-4.8	-3.1	-3.0	-0.8	0.0	
280-L38-Hartm	207.5	1	69.0	78.0	909.6	3.0	0.0	0.0	-70.8	-4.7	-1.9	-2.1	13.8	22.8	
280-L39-Hartm	146.6	1	73.8	82.8	967.6	3.0	0.0	0.0	-71.1	-4.8	-1.9	-2.1	16.7	25.7	
280-L4-HDO	158.1	1	70.8	70.8	2062.9	3.0	0.0	0.0	-77.3	-4.8	-4.0	-1.8	6.0	6.0	
280-L40-Hartm	30.0	1	84.6	91.1	903.0	3.0	0.0	0.0	-70.1	-4.6	-1.7	-20.5	3.7	10.2	
280-L41-Hartm	89.9	1	82.9	91.2	948.3	3.0	0.0	0.0	-70.6	-4.7	-1.8	-16.2	10.0	18.3	
280-L42-Hartm	208.9	1	72.5	0.0	999.3	3.0	0.0	0.0	-71.2	-4.8	-2.0	-1.2	17.6	0.0	
280-L43-Hartm	100.2	1	57.8	65.1	971.9	3.0	0.0	0.0	-71.0	-4.7	-1.9	0.0	1.3	8.6	
280-L44-Welsing	55.0	1	79.6	0.0	1998.9	3.0	0.0	0.0	-77.1	-4.8	-3.8	-7.8	4.6	0.0	
280-L45-Welsing	30.0	1	73.0	0.0	2011.5	3.0	0.0	0.0	-77.2	-4.8	-3.8	0.0	3.1	0.0	
280-L46-ERGE	118.9	1	65.0	0.0	1113.5	3.0	0.0	0.0	-72.2	-4.8	-2.2	-1.0	6.6	0.0	
280-L47-ERGE	80.0	1	78.0	0.0	1125.7	3.0	0.0	0.0	-72.2	-4.8	-2.2	-1.1	17.8	0.0	
280-L48-ERGE	45.0	1	60.1	66.1	1084.6	3.0	0.0	0.0	-71.7	-4.8	-2.1	0.0	-0.9	5.1	
280-L49-ERGE	30.1	1	56.2	62.2	1210.6	3.0	0.0	0.0	-72.6	-4.8	-2.3	-11.7	-19.3	-13.3	
280-L5-HDO	120.5	1	69.8	69.8	2141.8	5.6	0.0	0.0	-78.4	-4.8	-4.2	-1.4	5.5	5.5	
280-L50-Michels	319.9	1	73.1	0.0	1918.1	3.0	0.0	0.0	-77.0	-4.8	-3.8	-0.8	12.9	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L53-DHL	60.4	1	72.2	69.4	781.9	3.0	0.0	0.0	-69.0	-4.7	-1.5	-4.8	11.1	8.3	
280-L54-DHL	180.3	1	70.7	0.0	768.5	3.0	0.0	0.0	-69.4	-4.7	-1.6	-2.5	16.3	0.0	
280-L55-DHL	25.4	1	60.0	0.0	799.4	3.0	0.0	0.0	-69.2	-4.7	-1.5	0.0	-0.2	0.0	
280-L56-Hilti	60.8	1	71.3	0.0	738.5	3.0	0.0	0.0	-68.5	-4.7	-1.4	-3.9	11.8	0.0	
280-L6-HDO	89.9	1	70.8	70.8	2199.1	5.6	0.0	0.0	-78.7	-4.8	-4.3	-1.3	5.0	5.0	
280-L62-Wegener	138.7	1	70.0	73.6	1720.3	3.0	0.0	0.0	-75.8	-4.8	-3.3	0.0	8.6	12.2	
280-L63-Kessel	16.0	1	79.0	0.0	1780.8	3.0	0.0	0.0	-76.0	-4.8	-3.4	0.0	7.9	0.0	
280-L64-Stroeth	30.0	1	89.0	0.0	1853.2	3.0	0.0	0.0	-76.6	-4.8	-3.6	-12.0	8.1	0.0	
280-L65-Adopt	40.5	1	77.0	0.0	695.8	3.0	0.0	0.0	-68.1	-4.7	-1.4	-11.2	8.9	0.0	
280-L67-Biogas	164.8	1	72.8	0.0	859.2	3.0	0.0	0.0	-69.7	-4.8	-1.6	0.0	19.9	0.0	
280-L68-Howeipa	635.3	1	73.0	75.0	1501.6	3.0	0.0	0.0	-74.8	-4.8	-2.9	-6.0	13.6	15.6	
280-L69-Howelpa	863.0	1	67.8	69.8	1309.6	3.0	0.0	0.0	-74.1	-4.8	-2.8	-3.8	12.8	14.8	
280-L7-WF	739.6	1	67.8	68.0	1565.9	3.0	0.0	0.0	-75.5	-4.8	-3.2	-0.8	13.3	13.5	
280-L70-Claas	179.9	1	73.5	0.0	2168.0	3.0	0.0	0.0	-77.9	-4.8	-4.2	-1.0	9.3	0.0	
280-L71-Claas	90.2	1	76.5	0.0	2096.5	3.0	0.0	0.0	-77.5	-4.8	-4.0	-2.1	8.6	0.0	
280-L72-Claas	100.2	1	82.0	0.0	2117.5	3.0	0.0	0.0	-77.7	-4.8	-4.0	-8.1	8.5	0.0	
280-L73-Claas	150.0	1	80.2	77.2	2243.3	3.0	0.0	0.0	-78.3	-4.8	-4.3	-8.0	7.7	4.7	
280-L74-Claas	685.5	1	74.8	65.0	1953.4	3.0	0.0	0.0	-77.8	-4.8	-4.0	-1.6	16.1	6.3	
280-L8-WF	438.5	1	63.3	63.8	1565.5	3.0	0.0	0.0	-75.2	-4.8	-3.1	-0.3	7.4	7.9	
280-L9a-WF	27.5	1	68.8	68.6	1665.1	3.0	0.0	0.0	-75.5	-4.8	-3.2	-0.5	0.3	0.1	
280-L9b-WF	27.9	1	68.8	68.6	1601.8	6.0	0.0	0.0	-75.2	-4.8	-3.0	-17.2	-12.7	-12.9	
280-L9c-WF	45.0	1	0.0	92.5	1662.3	3.0	0.0	0.0	-75.5	-4.8	-3.2	-0.7	0.0	25.9	
280-P1-HDO	1.0	0	104.1	0.0	2273.3	3.0	0.0	0.0	-78.1	-4.8	-4.4	-3.9	14.1	0.0	
280-P10-HDO	1.0	0	96.3	96.3	2307.7	6.0	0.0	0.0	-78.3	-4.8	-4.4	-20.2	-7.3	-7.3	
280-P100-Hans	1.0	0	87.0	0.0	797.2	6.0	0.0	0.0	-69.0	-4.7	-1.5	-3.1	12.9	0.0	
280-P1000-Stute	1.0	0	87.0	87.0	1079.1	3.0	0.0	0.0	-71.7	-4.7	-2.0	-0.1	9.6	9.6	
280-P1001-Stute	1.0	0	86.8	0.0	1066.0	3.0	0.0	0.0	-71.6	-4.8	-2.0	-0.8	8.7	0.0	
280-P1002-Stute	1.0	0	86.8	0.0	1113.4	3.0	0.0	0.0	-71.9	-4.8	-2.1	-4.8	4.3	0.0	
280-P1003-Stute	1.0	0	85.7	0.0	993.4	3.0	0.0	0.0	-70.9	-4.7	-2.0	-0.1	9.2	0.0	
280-P1004-Stute	1.0	0	98.1	0.0	999.7	3.0	0.0	0.0	-71.0	-4.8	-1.9	-0.1	21.5	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P1005-Stute	1.0	0	0	85.3	0.0	1138.1	3.0	0.0	0.0	-72.1	-4.8	-2.2	-19.2	-11.9	0.0
280-P1006-Stute	1.0	0	0	95.7	95.7	1088.3	3.0	0.0	0.0	-71.7	-4.7	-2.1	-15.9	2.4	2.4
280-P1007-Stute	1.0	0	0	97.7	97.7	1183.6	3.0	0.0	0.0	-72.5	-4.8	-2.2	-18.5	0.8	0.8
280-P1008-Stute	1.0	0	0	87.8	87.8	1203.5	6.0	0.0	0.0	-72.6	-4.8	-2.3	-19.5	-7.3	-7.3
280-P1009-Stute	1.0	0	0	94.7	94.7	1237.7	3.0	0.0	0.0	-72.9	-4.8	-2.3	-10.0	5.8	5.8
280-P101-PPH	1.0	0	0	93.8	0.0	1995.9	6.0	0.0	0.0	-77.0	-4.8	-3.8	0.0	12.3	0.0
280-P1010-Stute	1.0	0	0	106.4	106.4	1019.6	3.0	0.0	0.0	-71.2	-4.6	-1.9	0.0	29.8	29.8
280-P1011-Stute	1.0	0	0	97.4	97.4	1035.4	6.0	0.0	0.0	-71.3	-4.7	-2.0	-20.2	3.3	3.3
280-P1012-Stute	1.0	0	0	87.5	87.5	1023.5	3.0	0.0	0.0	-71.2	-4.7	-1.9	0.0	10.8	10.8
280-P1013-Stute	1.0	0	0	87.5	87.5	1012.2	3.0	0.0	0.0	-71.1	-4.7	-1.9	0.0	10.9	10.9
280-P1014-Stute	1.0	0	0	80.0	80.0	1004.4	3.0	0.0	0.0	-71.0	-4.5	-2.0	0.0	3.9	3.9
280-P1015-Stute	1.0	0	0	85.0	85.0	1085.2	3.0	0.0	0.0	-71.7	-4.7	-2.0	0.0	7.7	7.7
280-P1016-Westo	1.0	0	0	100.0	0.0	1858.2	3.0	0.0	0.0	-76.4	-4.8	-3.5	0.0	16.4	0.0
280-P1017-Westo	1.0	0	0	88.8	0.0	1802.6	3.0	0.0	0.0	-76.1	-4.8	-3.5	0.0	5.5	0.0
280-P1018-Westo	1.0	0	0	74.5	74.5	1889.9	6.0	0.0	0.0	-76.5	-4.8	-3.6	-16.3	-22.6	-22.6
280-P1019-Westo	1.0	0	0	87.0	0.0	1827.2	3.0	0.0	0.0	-76.2	-4.8	-3.5	0.0	3.6	0.0
280-P102-Bunse	1.0	0	0	89.8	0.0	2469.5	6.0	0.0	0.0	-78.9	-4.8	-4.7	-3.9	1.6	0.0
280-P1020-Westo	1.0	0	0	72.8	72.8	1878.1	3.0	0.0	0.0	-76.5	-4.8	-3.6	0.0	-11.0	-11.0
280-P1021-Westo	1.0	0	0	72.8	72.8	1876.7	3.0	0.0	0.0	-76.5	-4.8	-3.6	0.0	-11.0	-11.0
280-P1022-Westo	1.0	0	0	68.0	68.0	1828.5	6.0	0.0	0.0	-76.2	-4.8	-3.5	0.0	-12.4	-12.4
280-P1023-Westo	1.0	0	0	95.6	95.6	1913.0	6.0	0.0	0.0	-76.6	-4.8	-3.7	-16.6	-1.9	-1.9
280-P103-Bunse	1.0	0	0	89.8	0.0	2491.1	6.0	0.0	0.0	-78.9	-4.8	-4.8	-15.9	-10.4	0.0
280-P104-Bunse	1.0	0	0	99.0	0.0	2453.7	3.0	0.0	0.0	-78.8	-4.8	-4.7	-6.2	5.6	0.0
280-P105-Welsing	1.0	0	0	97.5	0.0	2022.4	6.0	0.0	0.0	-77.1	0.0	-3.9	-25.1	-4.4	0.0
280-P106-ERGE	1.0	0	0	104.0	95.0	1102.7	3.0	0.0	0.0	-71.8	-4.8	-2.1	-13.2	13.2	4.2
280-P107-ERGE	1.0	0	0	81.0	81.0	1187.6	6.0	0.0	0.0	-72.5	-4.8	-2.2	-0.1	5.5	5.5
280-P108-ERGE	1.0	0	0	89.0	89.0	1100.7	3.0	0.0	0.0	-71.8	-4.8	-2.1	-9.3	2.1	2.1
280-P109-ERGE	1.0	0	0	89.0	89.0	1111.3	3.0	0.0	0.0	-71.9	-4.7	-2.1	-0.1	11.3	11.3
280-P11-HDO	1.0	0	0	96.3	96.3	2297.8	6.0	0.0	0.0	-78.2	-4.8	-4.4	-18.0	-5.0	-5.0
280-P110-ERGE	1.0	0	0	79.0	79.0	1130.4	6.0	0.0	0.0	-72.1	-4.8	-2.1	-2.8	1.3	1.3

Projekt: Paderborn  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>D</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P111-ERGE	1.0	0	74.0	74.0	1141.0	6.0	0.0	0.0	-72.1	-4.8	-2.2	-1.0	-2.0	-2.0	
280-P112-ERGE	1.0	0	74.0	74.0	1143.8	6.0	0.0	0.0	-72.2	-4.8	-2.2	-8.6	-9.6	-9.6	
280-P113-ERGE	1.0	0	74.0	74.0	1191.8	6.0	0.0	0.0	-72.5	-4.8	-2.2	-9.9	-11.4	-11.4	
280-P117-DHL	1.0	0	86.0	0.0	823.4	3.0	0.0	0.0	-69.3	-4.7	-1.6	-12.2	-0.6	0.0	
280-P118-Hilti	1.0	0	86.0	0.0	753.1	3.0	0.0	0.0	-68.5	-4.7	-1.5	-1.7	10.9	0.0	
280-P119-Hilti	1.0	0	96.0	0.0	774.3	3.0	0.0	0.0	-68.8	-4.7	-1.5	-3.4	18.8	0.0	
280-P12-HDO	1.0	0	97.7	97.7	2169.8	6.0	0.0	0.0	-77.7	-4.8	-4.1	-16.7	-1.5	-1.5	
280-P126-Wegener	1.0	0	88.0	88.0	1823.8	6.0	0.0	0.0	-76.2	-4.8	-3.5	0.0	7.6	7.6	
280-P127-Auto	1.0	0	94.0	0.0	1879.2	3.0	0.0	0.0	-76.5	-4.8	-3.6	-14.8	-4.6	0.0	
280-P129-WEA	1.0	0	103.5	103.5	568.0	3.0	0.0	0.0	-66.1	-2.5	-1.0	0.0	36.9	36.9	
280-P13-HDO	1.0	0	86.8	86.8	2259.1	3.0	0.0	0.0	-78.1	-4.8	-4.3	0.0	0.7	0.7	
280-P130-WEA	1.0	0	103.5	103.5	1107.7	3.0	0.0	0.0	-71.9	-3.6	-2.1	0.0	28.3	28.3	
280-P131-WEA	1.0	0	106.0	106.0	803.7	3.0	0.0	0.0	-69.1	-2.9	-1.6	0.0	35.4	35.4	
280-P132-Biogas	1.0	0	85.0	85.0	863.4	3.0	0.0	0.0	-69.7	-4.7	-1.6	-0.1	10.1	10.1	
280-P133-D&S	1.0	0	107.0	107.0	1644.3	6.0	0.0	0.0	-75.3	-4.8	-3.1	0.0	27.9	27.9	
280-P134-D&S	1.0	0	107.0	107.0	1597.1	6.0	0.0	0.0	-75.1	0.0	-3.0	-20.0	13.0	13.0	
280-P135-D&S	1.0	0	107.0	107.0	1596.3	6.0	0.0	0.0	-75.1	-4.8	-3.0	-14.4	13.8	13.8	
280-P136-Claas	1.0	0	95.0	95.0	2222.1	6.0	0.0	0.0	-77.9	-4.8	-4.2	-16.0	-3.8	-3.8	
280-P137-Claas	1.0	0	90.0	90.0	2196.1	6.0	0.0	0.0	-77.8	-4.8	-4.2	-8.1	-0.8	-0.8	
280-P138-Claas	1.0	0	90.0	90.0	2235.2	6.0	0.0	0.0	-78.0	-4.8	-4.3	-16.1	-9.0	-9.0	
280-P139-Claas	1.0	0	90.0	90.0	2250.8	6.0	0.0	0.0	-78.0	-4.8	-4.3	-6.9	0.1	0.1	
280-P14-HDO	1.0	0	86.8	86.8	2236.1	3.0	0.0	0.0	-78.0	-4.8	-4.3	0.0	0.8	0.8	
280-P140-Claas	1.0	0	90.0	90.0	2326.4	6.0	0.0	0.0	-78.3	-4.8	-4.4	-20.3	-13.7	-13.7	
280-P141-Claas	1.0	0	93.0	93.0	2195.2	3.0	0.0	0.0	-77.8	-4.8	-4.2	0.0	7.3	7.3	
280-P142-Claas	1.0	0	96.0	96.0	2153.5	3.0	0.0	0.0	-77.7	-4.8	-4.1	-13.5	-3.0	-3.0	
280-P143-Claas	1.0	0	88.0	88.0	2182.7	3.0	0.0	0.0	-77.8	-4.7	-4.1	-0.1	2.4	2.4	
280-P144-Claas	1.0	0	93.6	0.0	2249.0	3.0	0.0	0.0	-78.0	-4.8	-4.4	0.0	7.5	0.0	
280-P145-Claas	1.0	0	90.4	0.0	2241.9	3.0	0.0	0.0	-78.0	-4.8	-4.3	0.0	4.4	0.0	
280-P146-Claas	1.0	0	89.0	0.0	2281.6	3.0	0.0	0.0	-78.2	-4.8	-4.3	0.0	2.8	0.0	
280-P15-HDO	1.0	0	85.0	85.0	2196.6	3.0	0.0	0.0	-77.8	-4.8	-4.2	0.0	-0.7	-0.7	

Projekt: Paderborn  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P16-HDO	1.0	0	107.0	107.0	2203.3	3.0	0.0	0.0	-77.9	-4.8	-4.2	0.0	21.2	21.2	
280-P17-HDO	1.0	0	109.2	109.2	2209.5	3.0	0.0	0.0	-77.9	-4.8	-4.2	-2.7	20.7	20.7	
280-P18-HDO	1.0	0	100.7	100.7	2082.4	3.0	0.0	0.0	-77.4	-4.8	-4.0	-14.6	1.0	1.0	
280-P18a-HDO	1.0	0	99.7	99.7	2086.0	3.0	0.0	0.0	-77.4	-4.7	-3.9	0.0	14.8	14.8	
280-P19-HDO	1.0	0	92.3	92.3	2293.7	3.0	0.0	0.0	-78.2	-4.8	-4.4	-14.3	-8.3	-8.3	
280-P19a-HDO	1.0	0	89.2	89.2	2294.6	3.0	0.0	0.0	-78.2	-4.7	-4.4	0.0	3.0	3.0	
280-P2-HDO	1.0	0	87.1	0.0	2282.2	3.0	0.0	0.0	-78.2	-4.8	-4.3	-12.7	-11.8	0.0	
280-P20-HDO	1.0	0	89.6	89.6	2301.6	3.0	0.0	0.0	-78.2	-4.8	-4.4	-16.8	-13.5	-13.5	
280-P20a-HDO	1.0	0	89.5	89.5	2299.4	3.0	0.0	0.0	-78.2	-4.8	-4.3	0.0	3.3	3.3	
280-P20b-HDO	1.0	0	80.0	80.0	2302.4	3.0	0.0	0.0	-78.2	-4.8	-4.3	0.0	-6.2	-6.2	
280-P21-HDO	1.0	0	87.1	87.1	2319.6	3.0	0.0	0.0	-78.3	-4.8	-4.4	-15.6	-14.9	-14.9	
280-P22-HDO	1.0	0	94.1	94.1	2379.6	3.0	0.0	0.0	-78.5	-4.8	-4.5	-19.3	-11.9	-11.9	
280-P22a-HDO	1.0	0	88.3	88.3	2380.8	3.0	0.0	0.0	-78.5	-4.8	-4.5	-13.7	-12.1	-12.1	
280-P22b-HDO	1.0	0	88.3	88.3	2378.6	3.0	0.0	0.0	-78.5	-4.8	-4.5	-13.8	-12.2	-12.2	
280-P23-HDO	1.0	0	86.8	86.8	2238.6	3.0	0.0	0.0	-78.0	-4.7	-4.3	0.0	1.0	1.0	
280-P24-HDO	1.0	0	92.6	92.6	2241.2	3.0	0.0	0.0	-78.0	-4.8	-4.3	0.0	6.6	6.6	
280-P25-HDO	1.0	0	85.9	85.9	2288.8	3.0	0.0	0.0	-78.2	-4.8	-4.4	-16.9	-17.2	-17.2	
280-P26-WF	1.0	0	94.8	94.8	1612.4	3.0	0.0	0.0	-75.1	-4.8	-3.1	-14.9	-2.0	-2.0	
280-P27-WF	1.0	0	82.2	82.2	1612.3	3.0	0.0	0.0	-75.1	-4.7	-3.1	0.0	0.5	0.5	
280-P28-WF	1.0	0	84.1	84.1	1599.7	3.0	0.0	0.0	-75.1	-4.7	-3.0	-9.3	-6.8	-6.8	
280-P29-WF	1.0	0	89.2	89.2	1672.3	3.0	0.0	0.0	-75.5	-4.7	-3.1	0.0	7.1	7.1	
280-P3-HDO	1.0	0	88.8	0.0	2274.8	3.0	0.0	0.0	-78.1	-4.8	-4.3	-17.5	-14.8	0.0	
280-P30-WF	1.0	0	87.1	0.0	1607.2	6.0	0.0	0.0	-75.1	-4.8	-3.1	-5.9	2.3	0.0	
280-P31-WF	1.0	0	104.7	104.7	1615.1	6.0	0.0	0.0	-75.2	-4.8	-3.1	-13.5	12.2	12.2	
280-P32-WF	1.0	0	82.9	0.0	1710.6	3.0	0.0	0.0	-75.7	-4.8	-3.2	-20.1	-19.9	0.0	
280-P33-WF	1.0	0	99.9	99.9	1684.6	3.0	0.0	0.0	-75.5	-4.8	-3.2	-18.9	-1.4	-1.4	
280-P34-WF	2.0	0	97.6	97.6	1668.2	6.0	0.0	0.0	-75.4	-4.8	-3.2	-14.2	7.0	7.0	
280-P35-WF	1.0	0	107.6	107.6	1665.9	6.0	0.0	0.0	-75.4	-4.8	-3.2	-12.8	15.5	15.5	
280-P36-WF	1.0	0	78.7	78.7	1586.7	6.0	0.0	0.0	-75.0	-4.8	-3.0	0.0	0.0	0.0	
280-P37-WF	1.0	0	86.8	86.8	1572.8	6.0	0.0	0.0	-74.9	-4.8	-3.0	0.0	8.2	8.2	

Projekt: Paderborn  
 Datum: 03.12.2010  
 Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

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**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>Q</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P38-WF	1.0	0	85.0	85.0	1734.2	3.0	0.0	0.0	-75.8	-4.6	-3.3	0.0	2.5	2.5	
280-P39-WF	1.0	0	88.2	88.2	1867.2	3.0	0.0	0.0	-76.4	-4.8	-3.6	0.0	4.5	4.5	
280-P4-HDO	1.0	0	88.8	0.0	2326.0	3.0	0.0	0.0	-78.3	-4.8	-4.4	-12.7	-10.3	0.0	
280-P40-WF	1.0	0	99.7	100.0	1766.4	6.0	0.0	0.0	-75.9	-4.8	-3.4	-16.0	3.7	4.0	
280-P41-WF	1.0	0	99.7	100.0	1743.9	6.0	0.0	0.0	-75.8	-4.8	-3.3	0.0	19.9	20.2	
280-P42-WF	1.0	0	93.6	0.0	1779.9	3.0	0.0	0.0	-76.0	-4.8	-3.4	-5.2	5.3	0.0	
280-P43-WF	1.0	0	93.6	0.0	1623.5	3.0	0.0	0.0	-75.2	-4.8	-3.1	0.0	11.6	0.0	
280-P44-Br	1.0	0	91.8	0.0	1714.2	3.0	0.0	0.0	-75.7	-4.8	-3.3	-19.8	-10.7	0.0	
280-P45-Br	1.0	0	90.7	96.7	1714.9	3.0	0.0	0.0	-75.7	-4.8	-3.3	-20.2	-12.2	-6.2	
280-P46-Br	1.0	0	95.0	95.0	1543.1	6.0	0.0	0.0	-74.8	-4.8	-2.9	-17.8	-1.2	-1.2	
280-P47-Br	1.0	0	95.0	95.0	1542.8	6.0	0.0	0.0	-74.8	-4.8	-2.9	-17.8	-1.2	-1.2	
280-P48-Br	1.0	0	111.5	111.5	1457.1	3.0	0.0	0.0	-74.3	-4.8	-2.7	0.0	30.8	30.8	
280-P49-Br	1.0	0	92.6	92.6	1460.8	6.0	0.0	0.0	-74.3	-4.8	-2.8	-12.1	2.7	2.7	
280-P5-HDO	1.0	0	88.8	0.0	2295.4	3.0	0.0	0.0	-78.2	-4.8	-4.4	0.0	2.5	0.0	
280-P50-Br	1.0	0	88.0	88.0	1693.8	3.0	0.0	0.0	-75.6	-4.8	-3.2	0.0	5.5	5.5	
280-P51-Br	1.0	0	88.0	88.0	1649.9	3.0	0.0	0.0	-75.3	-4.8	-3.2	0.0	5.8	5.8	
280-P52-Br	1.0	0	81.0	81.0	1677.4	3.0	0.0	0.0	-75.5	-4.8	-3.2	0.0	-1.4	-1.4	
280-P53-Br	1.0	0	80.0	80.0	1525.0	3.0	0.0	0.0	-74.7	-4.6	-2.9	0.0	-0.9	-0.9	
280-P54-Br	1.0	0	91.1	91.1	1574.4	6.0	0.0	0.0	-74.9	-4.8	-3.0	0.0	12.5	12.5	
280-P55-Br	1.0	0	91.1	91.1	1575.9	6.0	0.0	0.0	-75.0	-4.8	-2.9	0.0	12.5	12.5	
280-P56-Br	1.0	0	91.1	91.1	1580.1	6.0	0.0	0.0	-75.0	-4.8	-3.0	0.0	12.4	12.4	
280-P57-Br	1.0	0	91.1	91.1	1582.3	6.0	0.0	0.0	-75.0	-4.8	-3.0	0.0	12.4	12.4	
280-P58-Br	1.0	0	91.1	91.1	1658.3	6.0	0.0	0.0	-75.4	-4.8	-3.1	-17.6	-5.8	-5.8	
280-P59-Br	1.0	0	91.1	91.1	1670.2	6.0	0.0	0.0	-75.5	-4.8	-3.2	-15.5	-3.8	-3.8	
280-P6-HDO	1.0	0	104.0	0.0	2189.0	3.0	0.0	0.0	-77.8	-4.8	-4.2	-16.4	1.9	0.0	
280-P60-Br	1.0	0	91.1	91.1	1658.6	6.0	0.0	0.0	-75.4	-4.8	-3.1	-17.1	-5.3	-5.3	
280-P61-Br	1.0	0	91.1	91.1	1660.3	6.0	0.0	0.0	-75.4	-4.8	-3.2	-17.2	-5.4	-5.4	
280-P62-Vedd	1.0	0	99.8	0.0	1176.1	6.0	0.0	0.0	-72.4	-4.7	-2.2	-10.2	14.4	0.0	
280-P63-Vedd	1.0	0	96.0	0.0	1177.3	3.0	0.0	0.0	-72.4	-4.8	-2.2	0.0	17.7	0.0	
280-P64-Vedd	1.0	0	89.3	0.0	1177.6	3.0	0.0	0.0	-72.4	-4.6	-2.3	0.0	11.1	0.0	

Projekt: Paderborn

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung $S_m$ m	Raumwinkelmaß $K_0$ dB	Richtwirkung $D_i$ dB	Reflexionen $D_{Ref}$ dB	Entfernung $D_s$ dB	Boden+ Meteo- dampf. $D_{EM}$ dB	Luftab- sorption $D_L$ dB	Abschir- mung $D_e$ dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P65-Vedd	1.0	0		75.0	0.0	1164.5	3.0	0.0	0.0	-72.3	-4.6	-2.3	0.0	-3.1	0.0
280-P66-KM	1.0	0		94.0	0.0	1944.1	6.0	0.0	0.0	-76.8	-4.8	-3.7	0.0	12.8	0.0
280-P67-KM	1.0	0		94.0	0.0	1952.5	6.0	0.0	0.0	-76.8	-4.8	-3.8	-1.9	10.9	0.0
280-P68-KM	1.0	0		94.0	0.0	1948.5	6.0	0.0	0.0	-76.8	-4.8	-3.7	0.0	12.8	0.0
280-P69-KM	1.0	0		94.0	0.0	1934.5	6.0	0.0	0.0	-76.7	-4.8	-3.7	0.0	12.9	0.0
280-P7-HDO	1.0	0		101.0	0.0	2257.0	3.0	0.0	0.0	-78.1	-4.8	-4.3	-3.7	11.2	0.0
280-P70-Oste	1.0	0		100.5	0.0	1742.3	6.0	0.0	0.0	-75.8	-4.8	-3.3	-18.9	1.8	0.0
280-P71-Oste	1.0	0		95.5	0.0	1740.4	6.0	0.0	0.0	-75.8	-4.8	-3.3	-18.9	-3.2	0.0
280-P72-Oste	1.0	0		100.7	0.0	1748.1	3.0	0.0	0.0	-75.9	-4.8	-3.3	-16.1	1.7	0.0
280-P73-Pöhl	1.0	0		94.3	0.0	1932.3	6.0	0.0	0.0	-76.7	-4.8	-3.7	-16.9	-3.7	0.0
280-P74-Pöhl	1.0	0		102.1	0.0	1854.8	3.0	0.0	0.0	-76.4	-4.8	-3.5	-6.1	12.4	0.0
280-P75-Piep	1.0	0		90.5	0.0	1827.9	6.0	0.0	0.0	-76.2	-4.8	-3.5	0.0	10.1	0.0
280-P76-Piep	1.0	0		80.8	0.0	1836.3	3.0	0.0	0.0	-76.3	-4.7	-3.5	0.0	-2.6	0.0
280-P77-Piep	1.0	0		95.7	0.0	1852.5	6.0	0.0	0.0	-76.4	-4.8	-3.5	-15.5	-0.4	0.0
280-P78-Piep	1.0	0		85.8	0.0	1845.9	3.0	0.0	0.0	-76.3	-4.7	-3.6	0.0	2.3	0.0
280-P79-Piep	1.0	0		85.3	0.0	1835.1	3.0	0.0	0.0	-76.3	-4.7	-3.5	0.0	2.0	0.0
280-P8-HDO	1.0	0		96.3	96.3	2327.2	6.0	0.0	0.0	-78.3	-4.8	-4.4	-20.3	-7.4	-7.4
280-P80-Piep	1.0	0		88.3	0.0	1831.5	3.0	0.0	0.0	-76.3	-4.7	-3.5	0.0	5.0	0.0
280-P81-Wöhn	1.0	0		77.7	82.0	1624.5	3.0	0.0	0.0	-75.2	-4.8	-3.2	-0.3	-4.7	-0.4
280-P82-Wöhn	1.0	0		84.2	84.2	1636.0	3.0	0.0	0.0	-75.3	-4.8	-3.1	-6.1	-4.0	-4.0
280-P83-BBR	1.0	0		113.0	0.0	2866.5	3.0	0.0	0.0	-80.1	-4.8	-5.5	-0.1	23.6	0.0
280-P84-OSG	1.0	0		110.2	0.0	1898.0	6.0	0.0	0.0	-76.6	-4.8	-3.6	0.0	29.3	0.0
280-P85-OSG	1.0	0		89.0	0.0	1899.7	6.0	0.0	0.0	-76.6	-4.8	-3.6	-7.6	0.5	0.0
280-P86-ASB	1.0	0		89.2	0.0	561.0	3.0	0.0	0.0	-66.0	-4.7	-1.1	-0.7	18.0	0.0
280-P87-Rub	1.0	0		88.1	88.1	1182.9	3.0	0.0	0.0	-72.5	-4.6	-2.2	-0.1	9.9	9.9
280-P88-Rub	1.0	0		78.0	78.0	1126.5	6.0	0.0	0.0	-72.0	-4.7	-2.2	0.0	3.2	3.2
280-P89-Rub	1.0	0		78.0	78.0	1208.5	6.0	0.0	0.0	-72.6	-4.7	-2.3	-13.3	-10.8	-10.8
280-P9-HDO	1.0	0		95.3	96.3	2318.1	6.0	0.0	0.0	-78.3	-4.8	-4.4	-20.1	-7.2	-7.2
280-P90-Rub	1.0	0		117.8	0.0	1161.8	6.0	0.0	0.0	-72.3	-4.7	-2.2	0.0	42.7	0.0
280-P91-Rub	1.0	0		117.8	0.0	1172.7	6.0	0.0	0.0	-72.4	-4.7	-2.2	-15.7	26.9	0.0

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel		
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P92-Frie	1.0	0		92.9	0.0	1872.0	6.0	0.0	0.0	-76.4	-4.8	-3.6	0.0	12.2	0.0
280-P93-Frie	1.0	0		88.0	0.0	1920.3	3.0	0.0	0.0	-76.7	-4.8	-3.6	-14.5	-10.5	0.0
280-P94-BLG	1.0	0		90.7	0.0	1796.2	3.0	0.0	0.0	-76.1	-4.8	-3.4	0.0	7.5	0.0
280-P95-BLG	1.0	0		90.0	0.0	1840.5	6.0	0.0	0.0	-76.3	-4.8	-3.5	-16.1	-6.6	0.0
280-P96-BLG	1.0	0		90.0	0.0	1833.9	6.0	0.0	0.0	-76.3	-4.8	-3.5	-15.4	-5.9	0.0
280-P97-BLG	1.0	0		90.0	0.0	1827.6	6.0	0.0	0.0	-76.2	-4.8	-3.5	-15.4	-5.8	0.0
280-P98-BLG	1.0	0		90.0	0.0	1821.9	6.0	0.0	0.0	-76.2	-4.8	-3.4	-15.1	-5.5	0.0
280-P99-BLG	1.0	0		90.0	0.0	1816.5	6.0	0.0	0.0	-76.2	-4.8	-3.4	-14.5	-4.9	0.0
280-PRaif	1.0	0		102.0	102.0	1827.7	3.0	0.0	0.0	-76.2	-4.7	-3.5	0.0	18.8	18.8
Summe													47.6	43.8	

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Prioritätenliste Tag**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-P90-Rub	280-P90-Ru	42.7	47.6
280-F48-Veolia	280-F48-Ve	39.5	46.0
280-P129-WEA	280-P129-W	36.9	44.9
280-L1000-Stute	280-L1000-	36.9	44.1
280-P131-WEA	280-P131-W	35.4	43.2
280-F15-WF	280-F15-WF	33.0	42.4
280-P48-Br	280-P48-Br	30.8	41.9
280-L13-Br	280-L13-Br	30.8	41.5
280-L21-Pöhl	280-L21-Pö	30.6	41.1
280-P1010-Stute	280-P1010-	29.8	40.7
280-P84-OSG	280-P84-OS	29.3	40.3
280-P130-WEA	280-P130-W	28.3	40.0
280-P133-D&S	280-P133-D	27.9	39.7
280-P91-Rub	280-P91-Ru	26.9	39.4
280-F57-Claas	280-F57-CI	26.8	39.1
280-F22-Br	280-F22-Br	26.8	38.9
280-F29-Pöhl	280-F29-Pö	25.8	38.6
280-L22-Pöhl	280-L22-Pö	25.7	38.4
280-F18-WF	280-F18-WF	25.5	38.1
280-F1	280-F1	25.4	37.9
280-F54-D&S	280-F54-D&	24.8	37.6
280-F47-Vero	280-F47-Ve	24.0	37.4
280-P83-BBR	280-P83-BB	23.6	37.2
280-F21-Br	280-F21-Br	22.6	37.0
280-L1003-Stute	280-L1003-	22.5	36.8
280-F5	280-F5	22.4	36.7
280-F13-HDO	280-F13-HD	22.1	36.5
280-P1004-Stute	280-P1004-	21.5	36.3
280-F34-ZEB	280-F34-ZE	21.4	36.2
280-F31-BBR	280-F31-BB	21.4	36.1
280-P16-HDO	280-P16-HD	21.2	35.9

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I3, 1.OG Prioritätenliste Nacht**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-L1000-Stute	280-L1000-	36.9	43.8
280-P129-WEA	280-P129-W	36.9	42.8
280-P131-WEA	280-P131-W	35.4	41.5
280-F48-Veolia	280-F48-Ve	33.5	40.2
280-F48-Br	280-F48-Br	30.8	39.2
280-P1010-Stute	280-P1010-	29.8	38.5
280-P130-WEA	280-P130-W	28.3	37.9
280-P133-D&S	280-P133-D	27.9	37.4
280-F22-Br	280-F22-Br	26.8	36.8
280-L32-Tem	280-L32-Te	26.3	36.4
280-L9c-WF	280-L9c-WF	25.9	35.9
280-L39-Hartm	280-L39-Ha	25.7	35.5
280-F18-WF	280-F18-WF	25.5	35.0
280-L38-Hartm	280-L38-Ha	22.8	34.5
280-F21-Br	280-F21-Br	22.6	34.2
280-F5	280-F5	22.4	33.9
280-F13-HDO	280-F13-HD	22.1	33.6
280-F54-D&S	280-F54-D&	21.8	33.2
280-P16-HDO	280-P16-HD	21.2	32.9
280-P17-HDO	280-P17-HD	20.7	32.6
280-F39-Hans	280-F39-Ha	20.7	32.3
280-P41-WF	280-P41-WF	20.2	32.0
280-PRaif	280-PRaif	18.8	31.7
280-L41-Hartm	280-L41-Ha	18.3	31.5
280-F36-Frie	280-F36-Fr	18.3	31.3
280-L11-Br	280-L11-Br	17.8	31.0
280-L1003-Stute	280-L1003-	17.6	30.8
280-F47-Vero	280-F47-Ve	17.3	30.6
280-F20-Br	280-F20-Br	17.1	30.4
280-L15-Raif	280-L15-Ra	16.9	30.2
280-L14-Br	280-L14-Br	16.3	30.0

Projekt: Paderborn  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>G</sub> dB	Richtwirkung D <sub>I</sub> dB	Reflexionen D <sub>RefI</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-F1	16255.5	2	72.9	0.0	805.2	3.0	0.0	0.0	-70.3	-4.7	-1.8	-5.9	33.6	0.0	
280-F10-HDO	2162.7	2	64.0	64.0	148.7	3.0	0.0	0.0	-56.1	-3.3	-0.3	-3.7	35.7	35.7	
280-F1000-Westo	2032.4	2	61.9	61.9	420.7	3.0	0.0	0.0	-64.0	-4.6	-0.8	-15.0	11.9	11.9	
280-F11-HDO	1492.8	2	62.0	62.0	202.9	3.0	0.0	0.0	-58.2	-3.6	-0.4	-1.6	31.4	31.4	
280-F12-HDO	1142.9	2	63.0	63.0	250.5	3.0	0.0	0.0	-59.6	-3.9	-0.5	-0.8	30.2	30.2	
280-F13-HDO	5597.6	2	70.7	70.7	221.8	3.0	0.0	0.0	-59.6	-4.4	-0.5	-0.4	44.8	44.8	
280-F14-HDO	6338.7	2	63.8	63.8	230.3	3.0	0.0	0.0	-60.0	-4.4	-0.5	-0.4	37.9	37.9	
280-F15-WF	5382.7	2	78.5	55.9	886.0	3.0	0.0	0.0	-70.2	-4.7	-1.8	-15.9	24.2	1.6	
280-F16-WF	3647.5	2	51.5	57.5	937.1	3.0	0.0	0.0	-70.7	-4.7	-1.8	-13.5	-2.5	3.5	
280-F17-WF	1749.8	2	50.6	56.7	958.2	3.0	0.0	0.0	-71.0	-4.7	-1.9	-12.6	-6.1	0.0	
280-F18-WF	7943.3	2	68.5	68.5	833.7	3.0	0.0	0.0	-69.7	-4.5	-1.6	-10.7	22.1	22.1	
280-F19-Br	14996.8	2	60.2	60.2	1054.3	3.0	0.0	0.0	-72.5	-4.8	-2.2	-13.2	10.4	10.4	
280-F20-Br	9099.1	2	59.4	59.4	1165.3	3.0	0.0	0.0	-72.7	-4.8	-2.3	-14.3	6.0	6.0	
280-F21-Br	5345.6	2	66.3	66.3	1101.0	3.0	0.0	0.0	-72.1	-4.6	-2.2	-10.8	15.0	15.0	
280-F22-Br	22233.1	2	65.2	65.2	1058.4	3.0	0.0	0.0	-72.3	-4.6	-2.2	-11.4	19.5	19.5	
280-F23-Br	5807.6	2	46.7	48.9	1037.7	3.0	0.0	0.0	-71.6	-4.7	-2.0	-11.6	-4.5	-2.3	
280-F23a-Br	4111.5	2	60.0	0.0	1264.4	3.0	0.0	0.0	-73.2	-4.6	-2.5	-7.2	9.6	0.0	
280-F24-Pöhl	85.3	3	82.0	0.0	224.5	6.0	0.0	0.0	-58.0	-4.1	-0.4	-20.9	22.6	0.0	
280-F25-Pöhl	9.0	3	82.0	0.0	231.8	6.0	0.0	0.0	-58.3	-4.3	-0.4	-20.7	12.4	0.0	
280-F26-Pöhl	43.3	3	82.0	0.0	231.7	6.0	0.0	0.0	-58.4	-4.1	-0.4	-20.9	19.4	0.0	
280-F27-Pöhl	35.2	3	82.0	0.0	212.3	6.0	0.0	0.0	-57.6	-4.1	-0.4	-20.9	19.4	0.0	
280-F28-Pöhl	37.8	3	82.0	0.0	175.7	6.0	0.0	0.0	-55.9	-4.0	-0.3	-17.9	24.7	0.0	
280-F29-Pöhl	4008.7	2	74.6	0.0	197.9	3.0	0.0	0.0	-58.7	-4.4	-0.5	-16.1	32.5	0.0	
280-F3	901.6	2	68.8	0.0	809.1	3.0	0.0	0.0	-69.4	-4.6	-1.6	-0.7	23.3	0.0	
280-F30-Wöhn	5358.0	2	65.8	0.0	550.1	3.0	0.0	0.0	-66.6	-4.6	-1.1	-12.9	19.2	0.0	
280-F31-BBR	5308.6	2	74.0	0.0	1079.2	3.0	0.0	0.0	-71.9	-4.7	-2.2	-0.8	32.7	0.0	
280-F32-BBR	3296.1	2	70.1	0.0	1008.4	3.0	0.0	0.0	-71.3	-4.7	-2.0	-0.6	27.8	0.0	
280-F34-ZEB	4709.8	2	71.3	0.0	929.3	3.0	0.0	0.0	-70.5	-4.7	-1.8	-13.3	18.8	0.0	
280-F35-OSG	2084.5	2	64.7	0.0	526.1	3.0	0.0	0.0	-65.9	-4.6	-1.1	-13.6	13.9	0.0	
280-F36-Frie	3953.7	2	69.2	67.4	944.0	3.0	0.0	0.0	-70.8	-4.7	-1.9	-13.6	15.4	13.6	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 43  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
280-F37-BLG	18492.7	2	53.9	0.0	979.4	3.0	0.0	0.0	-71.6	-4.7	-2.0	-11.6	7.8	0.0
280-F38-BLG	2924.2	2	0.0	65.9	1035.2	3.0	0.0	0.0	-71.7	-4.7	-2.0	-12.4	0.0	10.9
280-F39-Hans	4497.8	2	58.7	60.2	1504.2	3.0	0.0	0.0	-74.8	-4.7	-3.0	-11.5	2.3	3.8
280-F4	22856.0	2	60.0	45.0	494.0	3.0	0.0	0.0	-67.3	-4.6	-1.3	-2.7	28.9	13.9
280-F40-PPH	2103.8	2	66.0	0.0	1014.9	3.0	0.0	0.0	-71.3	-4.7	-2.0	-8.7	13.6	0.0
280-F41-Leer	1563.1	2	60.0	0.0	851.8	3.0	0.0	0.0	-70.0	-4.7	-1.7	-14.0	2.6	0.0
280-F42-Bunse	214.3	2	55.0	0.0	510.9	3.0	0.0	0.0	-65.2	-4.6	-1.0	-0.8	7.9	0.0
280-F43-Bunse	899.5	2	52.5	0.0	355.7	3.0	0.0	0.0	-62.4	-4.5	-0.7	-12.6	3.1	0.0
280-F44-Schulte	1153.5	2	67.6	57.0	1366.3	3.0	0.0	0.0	-73.9	-4.7	-2.6	-10.1	8.0	-2.6
280-F45-Michels	440.6	2	55.5	58.0	208.2	3.0	0.0	0.0	-57.7	-4.3	-0.4	-15.1	6.0	8.5
280-F47-Vero	5508.1	2	74.3	67.6	452.1	3.0	0.0	0.0	-65.0	-4.6	-1.0	-5.9	36.5	29.8
280-F48-Veolia	14791.1	2	69.9	63.9	1628.5	3.0	0.0	0.0	-75.5	-4.7	-3.2	-7.8	21.5	15.5
280-F49-Wegener	1099.0	2	64.3	68.6	260.2	3.0	0.0	0.0	-60.2	-4.4	-0.5	-15.2	15.8	20.1
280-F5	47533.5	2	63.2	63.2	501.0	3.0	0.0	0.0	-66.9	-4.5	-1.2	-1.3	37.5	37.5
280-F50-Pader	1250.3	2	65.2	0.0	1503.2	3.0	0.0	0.0	-74.8	-4.7	-2.9	-9.6	5.3	0.0
280-F51-Stroeth	2098.9	2	60.0	0.0	600.5	3.0	0.0	0.0	-66.7	-4.6	-1.2	-12.7	9.2	0.0
280-F52-Beton	1648.2	2	60.8	0.0	1578.3	3.0	0.0	0.0	-75.1	-4.7	-3.1	-11.7	-0.5	0.0
280-F53-Kaya	5200.0	2	58.8	0.0	782.8	3.0	0.0	0.0	-69.4	-4.7	-1.6	-7.5	14.0	0.0
280-F54-D&S	5058.2	2	70.3	67.3	344.2	3.0	0.0	0.0	-62.6	-4.5	-0.7	-10.9	30.0	27.0
280-F55-Claas	1309.2	2	62.0	62.0	409.3	3.0	0.0	0.0	-63.8	-4.4	-0.8	-3.8	21.7	21.7
280-F56-Claas	17139.6	2	57.0	57.0	253.2	3.0	0.0	0.0	-61.6	-4.1	-0.7	-3.3	31.0	31.0
280-F57-Claas	9015.7	2	73.0	0.0	479.3	3.0	0.0	0.0	-65.5	-4.6	-1.0	-6.2	36.5	0.0
280-F58-Claas	10256.5	2	55.7	60.7	333.0	3.0	0.0	0.0	-63.2	-4.6	-0.8	-13.6	14.9	19.9
280-F59-Claas	1999.9	2	50.0	0.0	246.2	3.0	0.0	0.0	-60.0	-4.4	-0.5	-14.2	5.3	0.0
280-F6	28054.3	2	47.5	47.5	374.2	3.0	0.0	0.0	-64.9	-4.5	-0.9	-0.8	22.2	22.2
280-F60-Claas	1253.1	2	45.1	0.0	180.6	3.0	0.0	0.0	-56.9	-4.3	-0.4	-13.5	2.6	0.0
280-F61-Mannes	1618.1	2	55.0	0.0	1525.7	3.0	0.0	0.0	-74.8	-4.7	-2.9	-5.5	0.3	0.0
280-F7-HDO	6151.8	2	53.1	57.4	164.1	3.0	0.0	0.0	-58.0	-4.3	-0.4	-3.1	26.8	31.1
280-F8-HDO	1603.2	2	48.8	0.0	106.7	3.0	0.0	0.0	-53.7	-3.9	-0.2	-2.5	22.5	0.0
280-F9-HDO	3388.4	2	61.3	61.3	119.0	3.0	0.0	0.0	-55.2	-4.1	-0.3	-0.8	38.0	38.0

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 44  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>D</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L1-HDO	278.0	1	72.5	0.0	96.6	3.0	0.0	0.0	-55.0	-3.8	-0.2	-4.3	35.8	0.0	
280-L10-WF	877.0	1	65.1	0.0	711.2	3.0	0.0	0.0	-69.4	-4.7	-1.6	-13.5	6.5	0.0	
280-L1000-Stute	40.0	1	99.0	99.0	1083.1	3.0	0.0	0.0	-71.7	-4.6	-2.1	-11.2	26.7	26.7	
280-L1001-Stute	40.0	1	74.0	74.0	1075.8	3.0	0.0	0.0	-71.6	-4.5	-2.0	-14.8	-1.8	-1.8	
280-L1002-Stute	92.7	1	66.0	66.0	870.8	3.0	0.0	0.0	-70.2	-4.6	-1.7	-14.7	-4.3	-4.3	
280-L1003-Stute	399.0	1	74.9	70.0	1105.0	3.0	0.0	0.0	-72.1	-4.8	-2.2	-13.2	9.7	4.8	
280-L1004-Stute	455.0	1	75.3	71.2	881.1	3.0	0.0	0.0	-71.3	-4.8	-1.9	-13.2	11.7	7.6	
280-L1005-Stute	625.2	1	70.2	69.2	676.0	3.0	0.0	0.0	-68.9	-4.7	-1.4	-12.9	11.6	10.6	
280-L1006-Stute	515.2	1	61.1	0.0	841.2	3.0	0.0	0.0	-70.1	-4.7	-1.8	-10.7	2.0	0.0	
280-L1006-Westo	632.4	1	68.4	0.0	280.7	3.0	0.0	0.0	-61.7	-4.5	-0.7	-16.9	14.0	0.0	
280-L1007-Westo	230.1	1	68.4	0.0	286.6	3.0	0.0	0.0	-61.2	-4.5	-0.6	-18.1	9.0	0.0	
280-L1008-Westo	115.1	1	61.4	67.4	341.9	3.0	0.0	0.0	-62.2	-4.5	-0.7	-15.8	0.0	6.0	
280-L1009-Westo	32.1	1	59.7	65.7	300.2	3.0	0.0	0.0	-60.6	-4.5	-0.6	-16.3	-5.8	0.2	
280-L1010-Westo	105.0	1	55.0	55.0	372.7	3.0	0.0	0.0	-62.9	-4.1	-0.8	-15.7	-7.0	-7.0	
280-L1011-Westo	105.0	1	55.0	55.0	376.3	3.0	0.0	0.0	-63.0	-4.1	-0.8	-15.6	-7.0	-7.0	
280-L1012-Westo	84.9	1	49.5	49.5	377.9	3.0	0.0	0.0	-62.7	-4.1	-0.7	-15.9	-13.3	-13.3	
280-L11-Br	278.6	1	75.3	75.8	1089.9	3.0	0.0	0.0	-72.5	-4.8	-2.2	-12.3	9.1	9.6	
280-L12-Br	399.9	1	57.8	0.0	1080.3	3.0	0.0	0.0	-72.6	-4.8	-2.3	-13.3	-8.1	0.0	
280-L13-Br	130.6	1	92.8	0.0	1092.7	3.0	0.0	0.0	-72.2	-4.7	-2.2	-11.1	24.9	0.0	
280-L14-Br	17.0	1	85.1	85.1	1107.3	3.0	0.0	0.0	-71.9	-4.7	-2.1	-14.2	5.6	5.6	
280-L15-Raif	295.1	1	75.5	76.0	174.8	3.0	0.0	0.0	-58.7	-4.3	-0.5	-14.1	24.2	24.7	
280-L16-Raif	356.5	1	68.3	0.0	174.5	3.0	0.0	0.0	-58.8	-4.3	-0.5	-14.5	17.2	0.0	
280-L17-Vedd	60.5	1	61.5	0.0	1267.9	3.0	0.0	0.0	-73.2	-4.6	-2.4	-13.4	-13.2	0.0	
280-L18-KM	54.7	1	62.0	0.0	1043.6	3.0	0.0	0.0	-71.5	-4.7	-2.0	-14.0	-11.7	0.0	
280-L19-Oste	65.2	1	79.6	0.0	551.9	3.0	0.0	0.0	-66.2	-4.6	-1.1	-14.2	12.8	0.0	
280-L2-HDO	574.1	1	68.4	68.4	187.6	3.0	0.0	0.0	-59.0	-4.3	-0.4	-10.5	23.4	23.4	
280-L20-Pöhl	272.9	1	79.0	75.0	170.4	3.0	0.0	0.0	-57.8	-4.3	-0.4	-18.5	24.0	20.0	
280-L21-Pöhl	230.1	1	91.2	0.0	147.2	3.0	0.0	0.0	-56.6	-4.2	-0.4	-17.8	37.5	0.0	
280-L22-Pöhl	175.4	1	86.4	0.0	326.3	3.0	0.0	0.0	-62.6	-4.6	-0.7	-14.9	27.3	0.0	
280-L23-Pöhl	144.9	1	55.4	64.4	237.6	3.0	0.0	0.0	-58.7	-4.4	-0.5	-18.9	-4.1	4.9	

Projekt: Paderborn

Datum: 03.12.2010

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

Anlage 5, Bl. 45

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**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L24-Pöhl	89.9	1	76.0	0.0	190.8	3.0	0.0	0.0	-56.7	-3.7	-0.4	-15.6	20.8	0.0	
280-L25-Piep	30.0	1	60.2	0.0	873.4	3.0	0.0	0.0	-69.8	-4.7	-1.7	-13.2	-13.3	0.0	
280-L26-Piep	105.2	1	72.8	0.0	888.7	3.0	0.0	0.0	-70.2	-4.7	-1.7	-13.2	4.3	0.0	
280-L27-BBR	447.7	1	78.8	0.0	792.4	3.0	0.0	0.0	-69.8	-4.6	-1.8	-4.4	25.8	0.0	
280-L28-BBR	24.9	1	80.8	0.0	822.5	3.0	0.0	0.0	-69.4	-4.7	-1.6	-11.1	9.2	0.0	
280-L29-ZEB	109.9	1	58.7	0.0	907.4	3.0	0.0	0.0	-70.4	-4.7	-1.8	-13.2	-9.9	0.0	
280-L3-HDO	40.0	1	78.7	0.0	147.2	3.0	0.0	0.0	-54.4	-4.0	-0.3	-12.8	25.1	0.0	
280-L30-Rub	70.1	1	79.8	0.0	1387.5	3.0	0.0	0.0	-74.0	-4.7	-2.7	-12.2	5.8	0.0	
280-L31-Rub	70.1	1	61.9	69.1	1342.4	3.0	0.0	0.0	-73.7	-4.7	-2.6	-9.9	-9.4	-2.2	
280-L32-Tem	60.1	1	73.1	78.2	1614.1	3.0	0.0	0.0	-75.1	-4.8	-3.1	-6.6	2.3	7.4	
280-L33-BLG	62.7	1	72.0	0.0	1038.5	3.0	0.0	0.0	-71.5	-4.7	-2.0	-12.7	0.2	0.0	
280-L34-Bunse	120.2	1	79.2	0.0	430.3	3.0	0.0	0.0	-64.1	-4.6	-0.8	-11.3	20.6	0.0	
280-L35-Bunse	74.5	1	70.8	0.0	381.0	6.0	0.0	0.0	-62.9	-4.5	-0.7	-7.9	17.9	0.0	
280-L36-Finke	299.9	1	72.5	0.0	623.5	3.0	0.0	0.0	-67.4	-4.6	-1.2	-14.2	11.1	0.0	
280-L37-Finke	279.9	1	59.8	0.0	693.2	3.0	0.0	0.0	-68.4	-4.7	-1.4	-14.6	-3.6	0.0	
280-L38-Hartm	207.5	1	69.0	78.0	1199.8	3.0	0.0	0.0	-73.0	-4.6	-2.4	-8.5	4.8	13.8	
280-L39-Hartm	146.6	1	73.8	82.8	1203.4	3.0	0.0	0.0	-73.1	-4.6	-2.4	-8.2	8.3	17.3	
280-L4-HDO	158.1	1	70.8	70.8	153.9	3.0	0.0	0.0	-56.3	-3.3	-0.3	-11.0	24.7	24.7	
280-L40-Hartm	30.0	1	84.6	91.1	1337.5	3.0	0.0	0.0	-73.7	-4.7	-2.5	-8.0	11.8	18.3	
280-L41-Hartm	89.9	1	82.9	91.2	1344.6	3.0	0.0	0.0	-73.5	-4.7	-2.6	-10.9	11.8	20.1	
280-L42-Hartm	208.9	1	72.5	0.0	1200.6	3.0	0.0	0.0	-72.9	-4.6	-2.4	-8.3	8.6	0.0	
280-L43-Hartm	100.2	1	57.8	65.1	1194.0	3.0	0.0	0.0	-72.6	-4.6	-2.3	-9.4	-10.0	-2.7	
280-L44-Welsing	55.0	1	79.6	0.0	1013.4	3.0	0.0	0.0	-71.3	-4.7	-1.9	-9.2	11.0	0.0	
280-L45-Welsing	30.0	1	73.0	0.0	987.7	3.0	0.0	0.0	-70.9	-4.7	-1.9	-6.4	5.0	0.0	
280-L46-ERGE	118.9	1	65.0	0.0	1215.4	3.0	0.0	0.0	-72.8	-4.6	-2.4	-13.7	-6.7	0.0	
280-L47-ERGE	80.0	1	78.0	0.0	1225.0	3.0	0.0	0.0	-72.9	-4.6	-2.4	-17.0	1.2	0.0	
280-L48-ERGE	45.0	1	60.1	66.1	1209.1	3.0	0.0	0.0	-72.8	-4.6	-2.3	-10.3	-12.2	-6.2	
280-L49-ERGE	30.1	1	56.2	62.2	1184.2	3.0	0.0	0.0	-72.5	-4.6	-2.3	-11.2	-18.5	-12.5	
280-L5-HDO	120.5	1	69.8	69.8	205.7	3.4	0.0	0.0	-57.3	-3.6	-0.4	-9.9	22.1	22.1	
280-L50-Michels	319.9	1	73.1	0.0	52.2	3.0	0.0	0.0	-51.0	-2.5	-0.1	-2.1	45.5	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dampf D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-L53-DHL	60.4	1	72.2	69.4	1458.6	3.0	0.0	0.0	-74.3	-4.8	-2.8	-12.4	-3.2	-6.0	
280-L54-DHL	180.3	1	70.7	0.0	1465.0	3.0	0.0	0.0	-74.5	-4.7	-2.8	-13.5	-1.1	0.0	
280-L55-DHL	25.4	1	60.0	0.0	1443.3	3.0	0.0	0.0	-74.2	-4.8	-2.7	-16.3	-22.9	0.0	
280-L56-Hilti	60.8	1	71.3	0.0	1505.5	3.0	0.0	0.0	-74.6	-4.7	-2.9	-8.9	-0.9	0.0	
280-L6-HDO	89.9	1	70.8	70.8	247.9	3.2	0.0	0.0	-58.5	-3.7	-0.5	-4.9	25.0	25.0	
280-L62-Wegener	138.7	1	70.0	73.6	314.4	3.0	0.0	0.0	-61.7	-4.5	-0.7	-14.4	11.5	15.1	
280-L63-Kessel	16.0	1	79.0	0.0	309.5	3.0	0.0	0.0	-60.9	-4.4	-0.6	-15.1	11.3	0.0	
280-L64-Stroeth	30.0	1	89.0	0.0	632.1	3.0	0.0	0.0	-67.0	-4.6	-1.2	-12.6	19.6	0.0	
280-L65-Adopt	40.5	1	77.0	0.0	1521.7	3.0	0.0	0.0	-74.7	-4.7	-2.9	-6.1	5.8	0.0	
280-L67-Biogas	164.8	1	72.8	0.0	1200.0	3.0	0.0	0.0	-72.9	-4.8	-2.4	-10.1	5.9	0.0	
280-L68-Howelpa	635.3	1	73.0	75.0	544.4	3.0	0.0	0.0	-66.6	-4.6	-1.1	-9.9	20.1	22.1	
280-L69-Howelpa	863.0	1	67.8	69.8	612.7	3.0	0.0	0.0	-68.0	-4.7	-1.3	-11.8	12.7	14.7	
280-L7-WF	739.6	1	67.8	68.0	792.5	3.0	0.0	0.0	-69.8	-4.7	-1.6	-13.3	8.2	8.4	
280-L70-Claas	179.9	1	73.5	0.0	396.9	3.0	0.0	0.0	-64.2	-4.6	-0.9	-11.2	16.6	0.0	
280-L71-Claas	90.2	1	76.5	0.0	455.9	3.0	0.0	0.0	-64.3	-4.6	-0.9	-13.6	13.9	0.0	
280-L72-Claas	100.2	1	82.0	0.0	239.3	3.0	0.0	0.0	-59.6	-4.4	-0.5	-14.6	24.4	0.0	
280-L73-Claas	150.0	1	80.2	77.2	347.4	3.0	0.0	0.0	-62.7	-4.5	-0.7	-10.0	25.4	22.4	
280-L74-Claas	685.5	1	74.8	65.0	235.5	3.0	0.0	0.0	-62.5	-4.5	-0.7	-13.1	23.8	14.0	
280-L8-WF	438.5	1	63.3	63.8	806.1	3.0	0.0	0.0	-69.7	-4.7	-1.7	-14.6	0.0	0.5	
280-L9a-WF	27.5	1	68.8	68.6	885.0	3.0	0.0	0.0	-70.0	-4.7	-1.7	-20.3	-12.3	-12.5	
280-L9b-WF	27.9	1	68.8	68.6	910.1	6.0	0.0	0.0	-70.3	-4.7	-1.8	-17.3	-6.5	-6.7	
280-L9c-WF	45.0	1	0.0	92.5	787.6	3.0	0.0	0.0	-68.9	-4.7	-1.5	-13.3	0.0	21.8	
280-P1-HDO	1.0	0	104.1	0.0	214.9	3.0	0.0	0.0	-57.6	-4.2	-0.4	-12.4	31.2	0.0	
280-P10-HDO	1.0	0	96.3	96.3	257.7	6.0	0.0	0.0	-59.2	-4.4	-0.5	-17.4	19.3	19.3	
280-P100-Hans	1.0	0	87.0	0.0	1556.5	6.0	0.0	0.0	-74.8	-4.7	-3.0	-19.6	-11.0	0.0	
280-P1000-Stute	1.0	0	87.0	87.0	1090.2	3.0	0.0	0.0	-71.8	-4.7	-2.1	-10.9	-1.4	-1.4	
280-P1001-Stute	1.0	0	86.8	0.0	1132.2	3.0	0.0	0.0	-72.1	-4.8	-2.1	-12.9	-4.1	0.0	
280-P1002-Stute	1.0	0	86.8	0.0	1156.9	3.0	0.0	0.0	-72.3	-4.7	-2.2	-14.7	-6.0	0.0	
280-P1003-Stute	1.0	0	85.7	0.0	1094.7	3.0	0.0	0.0	-71.8	-4.8	-2.1	-20.2	-12.0	0.0	
280-P1004-Stute	1.0	0	98.1	0.0	1101.7	3.0	0.0	0.0	-71.8	-4.8	-2.1	-19.6	0.9	0.0	

Projekt: Paderborn

Anlage 5, Bl. 47

Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P1005-Stute	1.0	0	85.3	0.0	1054.4	3.0	0.0	0.0	-71.5	-4.8	-2.0	-20.2	-12.0	0.0	
280-P1006-Stute	1.0	0	95.7	95.7	1006.0	3.0	0.0	0.0	-71.1	-4.7	-1.9	-20.2	-1.1	-1.1	
280-P1007-Stute	1.0	0	97.7	97.7	909.2	3.0	0.0	0.0	-70.2	-4.6	-1.7	-20.4	1.9	1.9	
280-P1008-Stute	1.0	0	87.8	87.8	937.5	6.0	0.0	0.0	-70.4	-4.7	-1.8	-20.3	-5.2	-5.2	
280-P1009-Stute	1.0	0	94.7	94.7	940.2	3.0	0.0	0.0	-70.5	-4.7	-1.8	-13.5	5.4	5.4	
280-P101-PPH	1.0	0	93.8	0.0	1032.5	6.0	0.0	0.0	-71.3	-4.7	-2.0	-18.9	1.0	0.0	
280-P1010-Stute	1.0	0	106.4	106.4	1090.0	3.0	0.0	0.0	-71.7	-4.7	-2.1	-7.3	21.7	21.7	
280-P1011-Stute	1.0	0	97.4	97.4	1039.3	6.0	0.0	0.0	-71.3	-4.7	-2.0	-11.2	12.3	12.3	
280-P1012-Stute	1.0	0	87.5	87.5	1051.9	3.0	0.0	0.0	-71.4	-4.7	-2.0	-5.4	5.1	5.1	
280-P1013-Stute	1.0	0	87.5	87.5	1063.3	3.0	0.0	0.0	-71.5	-4.7	-2.0	-5.3	5.1	5.1	
280-P1014-Stute	1.0	0	80.0	80.0	1069.8	3.0	0.0	0.0	-71.6	-4.5	-2.0	-0.5	2.7	2.7	
280-P1015-Stute	1.0	0	85.0	85.0	1095.6	3.0	0.0	0.0	-71.8	-4.7	-2.1	-11.1	-3.6	-3.6	
280-P1016-Westö	1.0	0	100.0	0.0	459.9	3.0	0.0	0.0	-64.3	-4.6	-0.9	-18.8	12.7	0.0	
280-P1017-Westö	1.0	0	88.8	0.0	379.8	3.0	0.0	0.0	-62.6	-4.5	-0.7	-15.6	6.7	0.0	
280-P1018-Westö	1.0	0	74.5	74.5	279.3	6.0	0.0	0.0	-59.9	-4.4	-0.5	-18.4	-4.2	-4.2	
280-P1019-Westö	1.0	0	87.0	0.0	314.4	3.0	0.0	0.0	-61.0	-4.5	-0.6	-14.9	7.4	0.0	
280-P102-Bunse	1.0	0	89.8	0.0	470.3	6.0	0.0	0.0	-64.4	-4.5	-0.9	-6.5	17.8	0.0	
280-P1020-Westö	1.0	0	72.8	72.8	436.3	3.0	0.0	0.0	-63.8	-4.3	-0.8	-9.9	-4.7	-4.7	
280-P1021-Westö	1.0	0	72.8	72.8	447.9	3.0	0.0	0.0	-64.0	-4.4	-0.8	-9.7	-4.9	-4.9	
280-P1022-Westö	1.0	0	68.0	68.0	401.9	6.0	0.0	0.0	-63.1	-4.5	-0.8	-20.5	-16.5	-16.5	
280-P1023-Westö	1.0	0	95.6	95.6	300.3	6.0	0.0	0.0	-60.6	-4.3	-0.6	-17.1	17.6	17.6	
280-P103-Bunse	1.0	0	89.8	0.0	497.4	6.0	0.0	0.0	-64.9	-4.5	-1.0	-17.9	5.9	0.0	
280-P104-Bunse	1.0	0	99.0	0.0	465.8	3.0	0.0	0.0	-64.4	-4.6	-0.9	-10.3	20.1	0.0	
280-P105-Welsing	1.0	0	97.5	0.0	1024.3	6.0	0.0	0.0	-71.2	-4.7	-1.9	-17.5	6.3	0.0	
280-P106-ERGE	1.0	0	104.0	95.0	1285.4	3.0	0.0	0.0	-73.2	-4.6	-2.4	-16.6	8.3	-0.7	
280-P107-ERGE	1.0	0	81.0	81.0	1191.0	6.0	0.0	0.0	-72.5	-4.6	-2.3	-13.4	-7.7	-7.7	
280-P108-ERGE	1.0	0	89.0	89.0	1284.8	3.0	0.0	0.0	-73.2	-4.6	-2.4	-17.3	-7.4	-7.4	
280-P109-ERGE	1.0	0	89.0	89.0	1225.6	3.0	0.0	0.0	-72.8	-4.5	-2.3	-10.0	0.5	0.5	
280-P11-HDO	1.0	0	96.3	96.3	245.9	6.0	0.0	0.0	-58.8	-4.3	-0.5	-16.1	21.1	21.1	
280-P110-ERGE	1.0	0	79.0	79.0	1250.2	6.0	0.0	0.0	-72.9	-4.6	-2.4	-17.7	-14.5	-14.5	

Projekt: Paderborn  
 Datum: 03.12.2010  
 Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

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**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>e</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P111-ERGE	1.0	0		74.0	74.0	1218.3	6.0	0.0	0.0	-72.7	-4.6	-2.3	-11.3	-12.8	-12.8
280-P112-ERGE	1.0	0		74.0	74.0	1248.6	6.0	0.0	0.0	-72.9	-4.6	-2.4	-20.4	-22.2	-22.2
280-P113-ERGE	1.0	0		74.0	74.0	1222.0	6.0	0.0	0.0	-72.7	-4.6	-2.3	-18.9	-20.4	-20.4
280-P117-DHL	1.0	0		86.0	0.0	1464.4	3.0	0.0	0.0	-74.3	-4.7	-2.8	-13.1	-7.8	0.0
280-P118-Hilti	1.0	0		86.0	0.0	1508.3	3.0	0.0	0.0	-74.6	-4.7	-2.9	-5.1	-0.2	0.0
280-P119-Hilti	1.0	0		96.0	0.0	1517.5	3.0	0.0	0.0	-74.6	-4.7	-2.9	-19.3	-4.4	0.0
280-P12-HDO	1.0	0		97.7	97.7	126.9	6.0	0.0	0.0	-53.1	-3.9	-0.2	0.0	45.5	45.5
280-P126-Wegener	1.0	0		88.0	88.0	260.7	6.0	0.0	0.0	-59.3	-4.4	-0.5	-19.9	8.5	8.5
280-P127-Auto	1.0	0		94.0	0.0	714.6	3.0	0.0	0.0	-68.1	-4.6	-1.3	-13.6	7.5	0.0
280-P129-WEA	1.0	0		103.5	103.5	1512.2	3.0	0.0	0.0	-74.6	-3.9	-2.9	-4.0	20.1	20.1
280-P13-HDO	1.0	0		86.8	86.8	199.4	3.0	0.0	0.0	-57.0	-4.2	-0.4	-0.3	26.6	26.6
280-P130-WEA	1.0	0		103.5	103.5	968.0	3.0	0.0	0.0	-70.7	-3.5	-1.8	-1.3	28.8	28.8
280-P131-WEA	1.0	0		106.0	106.0	1278.7	3.0	0.0	0.0	-73.1	-3.6	-2.5	-1.1	28.2	28.2
280-P132-Biogas	1.0	0		85.0	85.0	1305.2	3.0	0.0	0.0	-73.3	-4.8	-2.5	-9.5	-3.9	-3.9
280-P133-D&S	1.0	0		107.0	107.0	420.3	6.0	0.0	0.0	-63.5	-4.5	-0.8	-18.9	23.7	23.7
280-P134-D&S	1.0	0		107.0	107.0	468.0	6.0	0.0	0.0	-64.4	-4.6	-0.9	-20.4	21.0	21.0
280-P135-D&S	1.0	0		107.0	107.0	469.8	6.0	0.0	0.0	-64.4	-4.5	-0.9	-11.2	30.3	30.3
280-P136-Claas	1.0	0		95.0	95.0	432.9	6.0	0.0	0.0	-63.7	-4.5	-0.8	-16.7	13.7	13.7
280-P137-Claas	1.0	0		90.0	90.0	330.3	6.0	0.0	0.0	-61.4	-4.4	-0.6	-18.1	10.0	10.0
280-P138-Claas	1.0	0		90.0	90.0	352.3	6.0	0.0	0.0	-61.9	-4.4	-0.7	-16.5	10.9	10.9
280-P139-Claas	1.0	0		90.0	90.0	360.0	6.0	0.0	0.0	-62.1	-4.4	-0.7	-12.8	14.4	14.4
280-P14-HDO	1.0	0		86.8	86.8	172.0	3.0	0.0	0.0	-55.7	-4.1	-0.3	0.0	28.5	28.5
280-P140-Claas	1.0	0		90.0	90.0	428.4	6.0	0.0	0.0	-63.6	-4.5	-0.8	-18.3	7.2	7.2
280-P141-Claas	1.0	0		93.0	93.0	454.5	3.0	0.0	0.0	-64.2	-4.4	-0.9	-10.6	14.4	14.4
280-P142-Claas	1.0	0		96.0	96.0	441.0	3.0	0.0	0.0	-63.9	-4.6	-0.8	-13.9	14.1	14.1
280-P143-Claas	1.0	0		88.0	88.0	394.5	3.0	0.0	0.0	-62.9	-4.2	-0.8	0.0	21.5	21.5
280-P144-Claas	1.0	0		93.6	0.0	504.0	3.0	0.0	0.0	-65.0	-4.6	-1.0	-8.4	15.9	0.0
280-P145-Claas	1.0	0		90.4	0.0	498.6	3.0	0.0	0.0	-65.0	-4.6	-1.0	-9.0	12.2	0.0
280-P146-Claas	1.0	0		89.0	0.0	486.2	3.0	0.0	0.0	-64.7	-4.6	-0.9	-10.3	9.8	0.0
280-P15-HDO	1.0	0		85.0	85.0	132.6	3.0	0.0	0.0	-53.5	-3.8	-0.2	0.0	29.5	29.5

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche	Art	Tag	Nacht	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag	Nacht	
	m m <sup>2</sup>		dB(A)	dB(A)									dB(A)	dB(A)	
280-P16-HDO	1.0	0	107.0	107.0	171.5	3.0	0.0	0.0	-55.7	-4.1	-0.3	-0.7	48.0	48.0	
280-P17-HDO	1.0	0	109.2	109.2	231.0	3.0	0.0	0.0	-58.3	-4.3	-0.4	-0.5	47.3	47.3	
280-P18-HDO	1.0	0	100.7	100.7	152.2	3.0	0.0	0.0	-54.6	-3.6	-0.3	-21.4	23.1	23.1	
280-P18a-HDO	1.0	0	99.7	99.7	150.7	3.0	0.0	0.0	-54.6	-3.6	-0.3	-1.0	42.5	42.5	
280-P19-HDO	1.0	0	92.3	92.3	320.5	3.0	0.0	0.0	-61.1	-4.4	-0.6	-20.7	7.0	7.0	
280-P19a-HDO	1.0	0	89.2	89.2	320.2	3.0	0.0	0.0	-61.1	-3.9	-0.7	-0.9	24.7	24.7	
280-P2-HDO	1.0	0	87.1	0.0	314.0	3.0	0.0	0.0	-60.9	-4.4	-0.6	-19.9	2.7	0.0	
280-P20-HDO	1.0	0	89.6	89.6	318.7	3.0	0.0	0.0	-61.1	-4.4	-0.6	-20.6	4.4	4.4	
280-P20a-HDO	1.0	0	89.5	89.5	318.3	3.0	0.0	0.0	-61.1	-3.9	-0.6	-0.9	25.0	25.0	
280-P20b-HDO	1.0	0	80.0	80.0	318.5	3.0	0.0	0.0	-61.1	-3.9	-0.6	-0.9	15.5	15.5	
280-P21-HDO	1.0	0	87.1	87.1	321.2	3.0	0.0	0.0	-61.1	-4.3	-0.6	-20.4	2.3	2.3	
280-P22-HDO	1.0	0	94.1	94.1	349.1	3.0	0.0	0.0	-61.9	-4.4	-0.7	-19.8	8.7	8.7	
280-P22a-HDO	1.0	0	88.3	88.3	350.5	3.0	0.0	0.0	-61.9	-4.0	-0.7	-16.8	6.8	6.8	
280-P22b-HDO	1.0	0	88.3	88.3	348.0	3.0	0.0	0.0	-61.8	-4.0	-0.7	-17.0	6.7	6.7	
280-P23-HDO	1.0	0	86.8	86.8	279.5	3.0	0.0	0.0	-59.9	-3.7	-0.6	0.0	24.9	24.9	
280-P24-HDO	1.0	0	92.6	92.6	292.7	3.0	0.0	0.0	-60.3	-3.8	-0.6	0.0	29.3	29.3	
280-P25-HDO	1.0	0	85.9	85.9	238.0	3.0	0.0	0.0	-58.5	-4.3	-0.5	-15.7	8.5	8.5	
280-P26-WF	1.0	0	94.8	94.8	902.0	3.0	0.0	0.0	-70.1	-4.7	-1.7	-20.3	-0.9	-0.9	
280-P27-WF	1.0	0	82.2	82.2	901.8	3.0	0.0	0.0	-70.1	-4.5	-1.7	-14.8	-7.6	-7.6	
280-P28-WF	1.0	0	84.1	84.1	850.4	3.0	0.0	0.0	-69.6	-4.5	-1.6	-12.8	-3.0	-3.0	
280-P29-WF	1.0	0	89.2	89.2	834.4	3.0	0.0	0.0	-69.4	-4.5	-1.6	-7.0	8.1	8.1	
280-P3-HDO	1.0	0	88.8	0.0	320.3	3.0	0.0	0.0	-61.1	-4.4	-0.6	-18.8	5.3	0.0	
280-P30-WF	1.0	0	87.1	0.0	902.9	6.0	0.0	0.0	-70.1	-4.7	-1.7	-14.7	0.0	0.0	
280-P31-WF	1.0	0	104.7	104.7	900.8	6.0	0.0	0.0	-70.1	-4.7	-1.7	-14.8	17.5	17.5	
280-P32-WF	1.0	0	82.9	0.0	870.1	3.0	0.0	0.0	-69.8	-4.7	-1.7	-20.3	-12.4	0.0	
280-P33-WF	1.0	0	99.9	99.9	846.9	3.0	0.0	0.0	-69.6	-4.7	-1.6	-13.1	12.1	12.1	
280-P34-WF	2.0	0	97.6	97.6	832.4	6.0	0.0	0.0	-69.4	-4.6	-1.6	-13.9	15.3	15.3	
280-P35-WF	1.0	0	107.6	107.6	833.0	6.0	0.0	0.0	-69.4	-4.6	-1.6	-13.3	22.9	22.9	
280-P36-WF	1.0	0	78.7	78.7	842.1	6.0	0.0	0.0	-69.5	-4.6	-1.6	-13.5	-6.3	-6.3	
280-P37-WF	1.0	0	86.8	86.8	933.8	6.0	0.0	0.0	-70.4	-4.7	-1.8	-18.5	-4.5	-4.5	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 50  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m²	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo.- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P38-WF	1.0	0	85.0	85.0	834.2	3.0	0.0	0.0	-69.4	-4.4	-1.6	-7.0	4.1	4.1	
280-P39-WF	1.0	0	88.2	88.2	767.8	3.0	0.0	0.0	-68.7	-4.6	-1.5	-14.2	0.4	0.4	
280-P4-HDO	1.0	0	88.8	0.0	335.3	3.0	0.0	0.0	-61.5	-4.5	-0.6	-17.7	5.9	0.0	
280-P40-WF	1.0	0	99.7	100.0	794.9	6.0	0.0	0.0	-69.0	-4.6	-1.5	-12.8	16.0	16.3	
280-P41-WF	1.0	0	99.7	100.0	797.8	6.0	0.0	0.0	-69.0	-4.6	-1.5	-17.2	11.6	11.9	
280-P42-WF	1.0	0	93.6	0.0	819.7	3.0	0.0	0.0	-69.3	-4.7	-1.5	-10.7	8.5	0.0	
280-P43-WF	1.0	0	93.6	0.0	813.7	3.0	0.0	0.0	-69.2	-4.7	-1.6	-17.9	1.5	0.0	
280-P44-Br	1.0	0	91.8	0.0	1105.4	3.0	0.0	0.0	-71.9	-4.7	-2.1	-12.2	2.0	0.0	
280-P45-Br	1.0	0	90.7	96.7	1132.6	3.0	0.0	0.0	-72.1	-4.8	-2.1	-11.8	0.9	6.9	
280-P46-Br	1.0	0	95.0	95.0	1144.7	6.0	0.0	0.0	-72.2	-4.7	-2.2	-17.0	3.0	3.0	
280-P47-Br	1.0	0	95.0	95.0	1142.4	6.0	0.0	0.0	-72.2	-4.7	-2.2	-16.1	3.9	3.9	
280-P48-Br	1.0	0	111.5	111.5	1192.9	3.0	0.0	0.0	-72.5	-4.7	-2.3	-18.5	14.7	14.7	
280-P49-Br	1.0	0	92.6	92.6	1185.2	6.0	0.0	0.0	-72.5	-4.7	-2.2	-20.2	-3.0	-3.0	
280-P5-HDO	1.0	0	88.8	0.0	239.3	3.0	0.0	0.0	-58.6	-4.3	-0.5	-11.8	15.1	0.0	
280-P50-Br	1.0	0	88.0	88.0	1024.2	3.0	0.0	0.0	-71.2	-4.7	-1.9	-12.2	-0.9	-0.9	
280-P51-Br	1.0	0	88.0	88.0	1037.5	3.0	0.0	0.0	-71.3	-4.7	-2.0	-12.6	-1.5	-1.5	
280-P52-Br	1.0	0	81.0	81.0	1004.3	3.0	0.0	0.0	-71.0	-4.7	-1.9	-13.1	-8.6	-8.6	
280-P53-Br	1.0	0	80.0	80.0	1111.8	3.0	0.0	0.0	-71.9	-4.5	-2.1	-11.0	-8.1	-8.1	
280-P54-Br	1.0	0	91.1	91.1	1201.7	6.0	0.0	0.0	-72.6	-4.7	-2.3	-18.5	-2.9	-2.9	
280-P55-Br	1.0	0	91.1	91.1	1211.5	6.0	0.0	0.0	-72.7	-4.8	-2.3	-18.2	-2.7	-2.7	
280-P56-Br	1.0	0	91.1	91.1	1236.5	6.0	0.0	0.0	-72.8	-4.8	-2.4	-20.3	-5.0	-5.0	
280-P57-Br	1.0	0	91.1	91.1	1248.3	6.0	0.0	0.0	-72.9	-4.8	-2.4	-18.2	-3.1	-3.1	
280-P58-Br	1.0	0	91.1	91.1	1197.7	6.0	0.0	0.0	-72.6	-4.8	-2.3	-20.2	-4.6	-4.6	
280-P59-Br	1.0	0	91.1	91.1	1195.8	6.0	0.0	0.0	-72.6	-4.8	-2.3	-20.2	-4.6	-4.6	
280-P6-HDO	1.0	0	104.0	0.0	213.3	3.0	0.0	0.0	-57.6	-4.2	-0.4	-15.8	27.6	0.0	
280-P60-Br	1.0	0	91.1	91.1	1226.9	6.0	0.0	0.0	-72.8	-4.8	-2.3	-18.1	-2.8	-2.8	
280-P61-Br	1.0	0	91.1	91.1	1237.8	6.0	0.0	0.0	-72.9	-4.8	-2.3	-17.3	-2.2	-2.2	
280-P62-Vedd	1.0	0	99.8	0.0	1287.9	6.0	0.0	0.0	-73.2	-4.6	-2.4	-19.2	4.5	0.0	
280-P63-Vedd	1.0	0	96.0	0.0	1293.1	3.0	0.0	0.0	-73.2	-4.6	-2.5	-16.7	0.1	0.0	
280-P64-Vedd	1.0	0	89.3	0.0	1275.4	3.0	0.0	0.0	-73.1	-4.5	-2.4	-9.0	1.4	0.0	

Projekt: Paderborn  
Datum: 03.12.2010

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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+Meteo-dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-P65-Vedd	1.0	0	75.0	0.0	1282.4	3.0	0.0	0.0	-73.2	-4.5	-2.4	-10.5	-14.5	0.0	
280-P66-KM	1.0	0	94.0	0.0	1048.1	6.0	0.0	0.0	-71.4	-4.7	-2.0	-18.9	1.1	0.0	
280-P67-KM	1.0	0	94.0	0.0	1062.3	6.0	0.0	0.0	-71.5	-4.7	-2.0	-20.3	-0.4	0.0	
280-P68-KM	1.0	0	94.0	0.0	1073.7	6.0	0.0	0.0	-71.6	-4.7	-2.0	-15.0	4.8	0.0	
280-P69-KM	1.0	0	94.0	0.0	1081.6	6.0	0.0	0.0	-71.7	-4.7	-2.0	-19.4	0.3	0.0	
280-P7-HDO	1.0	0	101.0	0.0	214.1	3.0	0.0	0.0	-57.6	-4.2	-0.4	-7.2	33.2	0.0	
280-P70-Oste	1.0	0	100.5	0.0	564.9	6.0	0.0	0.0	-66.0	-4.6	-1.1	-14.2	18.9	0.0	
280-P71-Oste	1.0	0	95.5	0.0	573.7	6.0	0.0	0.0	-66.2	-4.6	-1.1	-13.3	14.6	0.0	
280-P72-Oste	1.0	0	100.7	0.0	566.8	3.0	0.0	0.0	-66.1	-4.6	-1.1	-14.0	16.1	0.0	
280-P73-Pöhl	1.0	0	94.3	0.0	178.9	6.0	0.0	0.0	-56.1	-4.1	-0.3	-17.9	20.7	0.0	
280-P74-Pöhl	1.0	0	102.1	0.0	232.3	3.0	0.0	0.0	-58.3	-4.4	-0.4	-16.6	24.0	0.0	
280-P75-Piep	1.0	0	90.5	0.0	901.7	6.0	0.0	0.0	-70.1	-4.7	-1.7	-17.1	1.1	0.0	
280-P76-Piep	1.0	0	80.8	0.0	896.0	3.0	0.0	0.0	-70.0	-4.6	-1.7	-6.5	-0.9	0.0	
280-P77-Piep	1.0	0	95.7	0.0	917.1	6.0	0.0	0.0	-70.2	-4.7	-1.8	-19.4	3.9	0.0	
280-P78-Piep	1.0	0	85.8	0.0	911.4	3.0	0.0	0.0	-70.2	-4.6	-1.7	-6.7	3.7	0.0	
280-P79-Piep	1.0	0	85.3	0.0	917.3	3.0	0.0	0.0	-70.3	-4.5	-1.8	-6.5	3.6	0.0	
280-P8-HDO	1.0	0	96.3	96.3	281.1	6.0	0.0	0.0	-60.0	-4.4	-0.5	-19.2	16.6	16.6	
280-P80-Piep	1.0	0	88.3	0.0	911.9	3.0	0.0	0.0	-70.2	-4.5	-1.7	-6.5	6.7	0.0	
280-P81-Wöhn	1.0	0	77.7	82.0	603.2	3.0	0.0	0.0	-66.6	-4.6	-1.1	-8.0	-1.4	2.9	
280-P82-Wöhn	1.0	0	84.2	84.2	638.6	3.0	0.0	0.0	-67.1	-4.7	-1.2	-17.2	-4.8	-4.8	
280-P83-BBR	1.0	0	113.0	0.0	1083.3	3.0	0.0	0.0	-71.7	-4.7	-1.9	-0.8	34.9	0.0	
280-P84-OSG	1.0	0	110.2	0.0	540.6	6.0	0.0	0.0	-65.7	-4.6	-1.0	-14.6	28.6	0.0	
280-P85-OSG	1.0	0	89.0	0.0	531.9	6.0	0.0	0.0	-65.5	-4.6	-1.0	-14.7	7.5	0.0	
280-P86-ASB	1.0	0	89.2	0.0	1544.6	3.0	0.0	0.0	-74.8	-4.8	-3.0	-4.2	3.6	0.0	
280-P87-Rub	1.0	0	88.1	88.1	1403.5	3.0	0.0	0.0	-73.9	-4.6	-2.7	-2.7	5.4	5.4	
280-P88-Rub	1.0	0	78.0	78.0	1400.4	6.0	0.0	0.0	-73.9	-4.7	-2.6	-15.6	-14.8	-14.8	
280-P89-Rub	1.0	0	78.0	78.0	1357.6	6.0	0.0	0.0	-73.7	-4.7	-2.5	-2.9	-1.7	-1.7	
280-P9-HDO	1.0	0	96.3	96.3	270.1	6.0	0.0	0.0	-59.6	-4.4	-0.5	-18.6	17.7	17.7	
280-P90-Rub	1.0	0	117.8	0.0	1356.8	6.0	0.0	0.0	-73.7	-4.7	-2.6	-17.4	23.5	0.0	
280-P91-Rub	1.0	0	117.8	0.0	1350.9	6.0	0.0	0.0	-73.6	-4.7	-2.6	-12.5	28.5	0.0	

Projekt: Paderborn  
 Datum: 03.12.2010  
 Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

Anlage 5, Bl. 52  
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**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelskorrektur durch								Teilbeurteilungspegel		
Name	Länge Fläche		Art	Tag dB(A)	Nacht dB(A)	Entfernung $S_m$ m	Raumwinkelmaß $K_0$ dB	Richtwirkung $D_i$ dB	Reflexionen $D_{Ref}$ dB	Entfernung $D_s$ dB	Boden+Meteo.-dämpf. $D_{BM}$ dB	Luftabsorption $D_L$ dB	Abschirmung $D_e$ dB	Tag dB(A)	Nacht dB(A)
	m	m <sup>2</sup>													
280-P92-Frie	1.0	0	0	92.9	0.0	962.5	6.0	0.0	0.0	-70.7	-4.7	-1.8	-19.0	0.8	0.0
280-P93-Frie	1.0	0	0	88.0	0.0	934.8	3.0	0.0	0.0	-70.4	-4.7	-1.8	-12.4	-0.1	0.0
280-P94-BLG	1.0	0	0	90.7	0.0	1111.8	3.0	0.0	0.0	-71.9	-4.7	-2.1	-11.3	1.8	0.0
280-P95-BLG	1.0	0	0	90.0	0.0	1099.4	6.0	0.0	0.0	-71.8	-4.7	-2.1	-19.4	-3.9	0.0
280-P96-BLG	1.0	0	0	90.0	0.0	1103.9	6.0	0.0	0.0	-71.9	-4.7	-2.1	-17.5	-2.1	0.0
280-P97-BLG	1.0	0	0	90.0	0.0	1108.2	6.0	0.0	0.0	-71.9	-4.7	-2.1	-18.0	-2.6	0.0
280-P98-BLG	1.0	0	0	90.0	0.0	1112.1	6.0	0.0	0.0	-71.9	-4.7	-2.1	-17.7	-2.3	0.0
280-P99-BLG	1.0	0	0	90.0	0.0	1115.8	6.0	0.0	0.0	-72.0	-4.7	-2.1	-17.4	-2.1	0.0
280-PRaif	1.0	0	0	102.0	102.0	237.4	3.0	0.0	0.0	-58.5	-3.4	-0.5	-14.7	27.4	27.4
Summe													55.0	53.8	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 53  
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Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Prioritätenliste Tag**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-P16-HDO	280-P16-HD	48.0	55.0
280-P17-HDO	280-P17-HD	47.3	54.0
280-L50-Michels	280-L50-Mi	45.5	53.0
280-P12-HDO	280-P12-HD	45.5	52.1
280-F13-HDO	280-F13-HD	44.8	51.0
280-P18a-HDO	280-P18a-H	42.5	49.9
280-F9-HDO	280-F9-HDO	38.0	49.0
280-F14-HDO	280-F14-HD	37.9	48.6
280-L21-Pöhl	280-L21-Pö	37.5	48.2
280-F5	280-F5	37.5	47.8
280-F57-Claas	280-F57-CI	36.5	47.4
280-F47-Vero	280-F47-Ve	36.5	47.0
280-L1-HDO	280-L1-HDO	35.8	46.6
280-F10-HDO	280-F10-HD	35.7	46.3
280-P83-BBR	280-P83-BB	34.9	45.9
280-F1	280-F1	33.6	45.5
280-P7-HDO	280-P7-HDO	33.2	45.2
280-F31-BBR	280-F31-BB	32.7	44.9
280-F29-Pöhl	280-F29-Pö	32.5	44.7
280-F11-HDO	280-F11-HD	31.4	44.4
280-P1-HDO	280-P1-HDO	31.2	44.2
280-F56-Claas	280-F56-CI	31.0	44.0
280-P135-D&S	280-P135-D	30.3	43.7
280-F12-HDO	280-F12-HD	30.2	43.5
280-F54-D&S	280-F54-D&	30.0	43.3
280-P15-HDO	280-P15-HD	29.5	43.1
280-P24-HDO	280-P24-HD	29.3	42.9
280-F4	280-F4	28.9	42.7
280-P130-WEA	280-P130-W	28.8	42.6
280-P84-OSG	280-P84-OS	28.6	42.4
280-P91-Rub	280-P91-Ru	28.5	42.2

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 5, Bl. 54  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Immissionsschallpegel

**Immissionsort: I4, 1.OG Prioritätenliste Nacht**

Emittent Name	ID	Immissionsschallpegel dB(A)	Summenpegel dB(A)
280-P16-HDO	280-P16-HD	48.0	53.8
280-P17-HDO	280-P17-HD	47.3	52.5
280-P12-HDO	280-P12-HD	45.5	50.9
280-F13-HDO	280-F13-HD	44.8	49.5
280-P18a-HDO	280-P18a-H	42.5	47.7
280-F9-HDO	280-F9-HDO	38.0	46.1
280-F14-HDO	280-F14-HD	37.9	45.4
280-F5	280-F5	37.5	44.5
280-F10-HDO	280-F10-HD	35.7	43.6
280-F11-HDO	280-F11-HD	31.4	42.8
280-F7-HDO	280-F7-HDO	31.1	42.5
280-F56-Claas	280-F56-CI	31.0	42.1
280-P135-D&S	280-P135-D	30.3	41.8
280-F12-HDO	280-F12-HD	30.2	41.5
280-F47-Vero	280-F47-Ve	29.8	41.1
280-P15-HDO	280-P15-HD	29.5	40.8
280-P24-HDO	280-P24-HD	29.3	40.4
280-P130-WEA	280-P130-W	28.8	40.1
280-P14-HDO	280-P14-HD	28.5	39.8
280-P131-WEA	280-P131-W	28.2	39.4
280-PRaif	280-PRaif	27.4	39.1
280-F54-D&S	280-F54-D&	27.0	38.8
280-L1000-Stute	280-L1000-	26.7	38.5
280-P13-HDO	280-P13-HD	26.6	38.2
280-P20a-HDO	280-P20a-H	25.0	37.9
280-L6-HDO	280-L6-HDO	25.0	37.6
280-P23-HDO	280-P23-HD	24.9	37.4
280-P19a-HDO	280-P19a-H	24.7	37.1
280-L4-HDO	280-L4-HDO	24.7	36.9
280-L15-Raif	280-L15-Ra	24.7	36.6
280-P133-D&S	280-P133-D	23.7	36.3

Projekt: Paderborn

Anlage 6, Bl. 1

Datum: 03.12.2010

BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Vorbelastung - Immissionsschallpegel

**Immissionsort: 11, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>D</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Refi</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
280-L57-Schulte	160.0	1	61.0	0.0	2475.4	3.0	0.0	0.0	-79.0	-4.8	-4.7	-3.7	-8.0	0.0
280-L58-Schulte	267.9	1	56.9	0.0	2476.7	3.0	0.0	0.0	-79.0	-4.8	-4.7	-5.1	-11.3	0.0
280-L59-Schulte	145.2	1	73.1	0.0	2484.6	3.0	0.0	0.0	-79.0	-4.8	-4.8	-10.8	-3.6	0.0
280-L60-Veolia	279.9	1	77.6	75.7	2379.2	3.0	0.0	0.0	-78.7	-4.8	-4.6	-4.5	10.6	8.7
280-L66-Kemper	120.2	1	60.4	0.0	2509.2	3.0	0.0	0.0	-79.1	-4.8	-4.8	-2.9	-9.3	0.0
280-P120-Schulte	1.0	0	0.0	92.2	2477.3	3.0	0.0	0.0	-78.9	-4.8	-4.7	-9.7	0.0	-4.8
280-P121-Schulte	1.0	0	92.0	0.0	2539.8	6.0	0.0	0.0	-79.1	-4.8	-4.8	-18.5	-11.1	0.0
280-P122-Schulte	1.0	0	88.0	0.0	2519.5	3.0	0.0	0.0	-79.0	-4.8	-4.8	-10.0	-9.5	0.0
280-P123-Veolia	1.0	0	108.8	0.0	2408.9	3.0	0.0	0.0	-78.6	-4.8	-4.6	-7.0	14.9	0.0
280-P124-Veolia	1.0	0	105.0	0.0	2421.3	3.0	0.0	0.0	-78.7	-4.8	-4.6	-20.1	-2.1	0.0
280-P125-Veolia	1.0	0	89.5	0.0	2381.5	6.0	0.0	0.0	-78.5	-4.8	-4.6	-7.6	-1.8	0.0
280-P128-Kemper	1.0	0	89.0	0.0	2555.2	6.0	0.0	0.0	-79.1	-4.8	-4.9	-16.3	-12.0	0.0
Summe												16.5	8.9	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 6, Bl. 2  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Vorbelastung - Immissionsschallpegel

**Immissionsort: I2, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Refi</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dampf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L57-Schulte	160.0	1	61.0	0.0	77.1	3.0	0.0	0.0	-52.7	-3.7	-0.3	-5.3	23.2	0.0	
280-L58-Schulte	267.9	1	56.9	0.0	37.6	3.0	0.0	0.0	-47.0	-2.7	-0.1	-8.9	25.4	0.0	
280-L59-Schulte	145.2	1	73.1	0.0	50.6	3.0	0.0	0.0	-46.2	-2.6	-0.1	-10.2	38.5	0.0	
280-L60-Veolia	279.9	1	77.6	75.7	80.8	3.0	0.0	0.0	-51.8	-3.5	-0.2	-1.8	47.2	45.3	
280-L66-Kemper	120.2	1	60.4	0.0	121.3	3.0	0.0	0.0	-53.7	-3.9	-0.3	-4.0	21.2	0.0	
280-P120-Schulte	1.0	0	0.0	92.2	164.4	3.0	0.0	0.0	-55.3	-3.9	-0.3	-1.3	0.0	33.3	
280-P121-Schulte	1.0	0	92.0	0.0	85.3	6.0	0.0	0.0	-49.6	-3.0	-0.2	-22.0	23.0	0.0	
280-P122-Schulte	1.0	0	88.0	0.0	83.3	3.0	0.0	0.0	-49.4	-3.2	-0.2	-5.1	32.7	0.0	
280-P123-Veolia	1.0	0	108.8	0.0	112.1	3.0	0.0	0.0	-52.0	-3.6	-0.2	-9.7	45.5	0.0	
280-P124-Veolia	1.0	0	105.0	0.0	74.3	3.0	0.0	0.0	-48.4	-2.9	-0.1	-13.2	43.2	0.0	
280-P125-Veolia	1.0	0	89.5	0.0	101.3	6.0	0.0	0.0	-51.1	-3.3	-0.2	-19.4	21.0	0.0	
280-P128-Kemper	1.0	0	89.0	0.0	118.7	6.0	0.0	0.0	-52.5	-3.5	-0.2	-19.5	18.6	0.0	
Summe												50.8	45.6		

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 6, Bl. 3  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Vorbelastung - Immissionsschallpegel

**Immissionsort: I3, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch								Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfernung S <sub>m</sub> m	Raumwinkelmaß K <sub>0</sub> dB	Richtwirkung D <sub>i</sub> dB	Reflexionen D <sub>Ref</sub> dB	Entfernung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftabsorption D <sub>L</sub> dB	Abschirmung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)
280-L57-Schulte	160.0	1	61.0	0.0	416.5	3.0	0.0	0.0	-63.7	-4.6	-0.8	-0.7	14.5	0.0
280-L58-Schulte	257.9	1	56.9	0.0	417.9	3.0	0.0	0.0	-64.3	-4.6	-0.9	-1.0	11.7	0.0
280-L59-Schulte	145.2	1	73.1	0.0	482.8	3.0	0.0	0.0	-65.2	-4.6	-1.0	-1.7	23.5	0.0
280-L60-Veolia	279.9	1	77.6	75.7	450.7	3.0	0.0	0.0	-65.2	-4.6	-1.0	-0.1	32.5	30.6
280-L66-Kemper	120.2	1	60.4	0.0	387.8	3.0	0.0	0.0	-63.3	-4.6	-0.8	-2.3	11.5	0.0
280-P120-Schulte	1.0	0	0.0	92.2	427.3	3.0	0.0	0.0	-63.6	-4.5	-0.8	0.0	0.0	24.6
280-P121-Schulte	1.0	0	92.0	0.0	558.7	6.0	0.0	0.0	-65.9	-4.6	-1.1	0.0	24.7	0.0
280-P122-Schulte	1.0	0	88.0	0.0	466.4	3.0	0.0	0.0	-64.4	-4.6	-0.9	-9.6	9.8	0.0
280-P123-Veolia	1.0	0	108.8	0.0	661.6	3.0	0.0	0.0	-67.4	-4.6	-1.3	-8.2	28.5	0.0
280-P124-Veolia	1.0	0	105.0	0.0	623.1	3.0	0.0	0.0	-66.9	-4.6	-1.2	-15.4	18.1	0.0
280-P125-Veolia	1.0	0	89.5	0.0	640.9	6.0	0.0	0.0	-67.1	-4.6	-1.2	-14.5	6.3	0.0
280-P128-Kemper	1.0	0	89.0	0.0	432.3	6.0	0.0	0.0	-63.7	-4.5	-0.9	0.0	24.3	0.0
Summe												35.3	31.6	

Projekt: Paderborn  
Datum: 03.12.2010

Anlage 6, Bl. 4  
BLP-08 1139 01A

Emissionsart: B-Plan Nr. 280 - Vorbelastung - Immissionsschallpegel

**Immissionsort: I4, 1.OG Mittelwerte**

Emittent		Emissionspegel			Pegelkorrektur durch									Teilbeurteilungspegel	
Name	Länge Fläche m m <sup>2</sup>	Art	Tag dB(A)	Nacht dB(A)	Entfer- nung S <sub>m</sub> m	Raum- winkel- maß K <sub>0</sub> dB	Richt- wirkung D <sub>i</sub> dB	Refle- xionen D <sub>Ref</sub> dB	Entfer- nung D <sub>s</sub> dB	Boden+ Meteo- dämpf. D <sub>BM</sub> dB	Luftab- sorption D <sub>L</sub> dB	Abschir- mung D <sub>e</sub> dB	Tag dB(A)	Nacht dB(A)	
280-L57-Schulte	160.0	1	61.0	0.0	1747.5	3.0	0.0	0.0	-75.9	-4.8	-3.4	-3.0	-3.0	0.0	
280-L58-Schulte	267.9	1	56.9	0.0	1749.3	3.0	0.0	0.0	-76.1	-4.8	-3.4	-4.8	-6.8	0.0	
280-L59-Schulte	145.2	1	73.1	0.0	1786.5	3.0	0.0	0.0	-76.2	-4.8	-3.5	-11.5	-0.2	0.0	
280-L60-Veolia	279.9	1	77.6	75.7	1708.7	3.0	0.0	0.0	-75.6	-4.7	-3.3	-4.7	14.8	12.9	
280-L66-Kemper	120.2	1	60.4	0.0	1798.0	3.0	0.0	0.0	-76.3	-4.8	-3.4	-2.8	-5.0	0.0	
280-P120-Schulte	1.0	0	0.0	92.2	1759.2	3.0	0.0	0.0	-75.9	-4.8	-3.3	-2.5	0.0	6.8	
280-P121-Schulte	1.0	0	92.0	0.0	1867.2	6.0	0.0	0.0	-76.4	-4.8	-3.6	-18.9	-7.5	0.0	
280-P122-Schulte	1.0	0	88.0	0.0	1820.8	3.0	0.0	0.0	-76.2	-4.8	-3.4	-2.9	1.7	0.0	
280-P123-Veolia	1.0	0	108.8	0.0	1750.4	3.0	0.0	0.0	-75.9	-4.8	-3.3	-8.3	17.6	0.0	
280-P124-Veolia	1.0	0	105.0	0.0	1753.0	3.0	0.0	0.0	-75.9	-4.8	-3.3	-20.2	1.9	0.0	
280-P125-Veolia	1.0	0	89.5	0.0	1712.5	6.0	0.0	0.0	-75.7	-4.7	-3.3	-9.4	0.5	0.0	
280-P128-Kemper	1.0	0	89.0	0.0	1852.4	6.0	0.0	0.0	-76.4	-4.8	-3.5	-18.0	-9.6	0.0	
Summe												19.7	13.9		