



EVOLUTION
OF
SILENCE

HOW
KOHHLHAUER
IS
BREAKING
NEW
GROUND
IN
NOISE CONTROL

**EVO
LU
TI
ON**

NOISE BARRIERS FOR MOTORWAYS & RAILWAYS IN THE EUROPEAN UNION – EUROPEAN REGULATIONS & CONSTRUCTION TECHNOLOGY (ENBF) CONFERENCE

Before we begin, I would like to express my sincere gratitude to the organisers of this event, ENBF and EA. Thank you for your outstanding work, dedication, and the effort you have invested to bring us all together today.

We truly appreciate the professionalism and passion that made this event possible.



BREAKING NEW GROUND IN NOISE PROTECTION

KOHLHAUER IN BRIEF

- **Leading service provider** for noise and environmental protection technology in Germany and the EU
- Headquarter in Gaggenau, Germany, **since 1993**
- Other locations in **Germany, Poland, India**
- **6.000 m²** production area
- **8.000 m²** of storage capacity across Europe
- More than **1.2 million m²** noise-barrier panels produced and delivered over the past 32 years
- A team of more than **70 employees** worldwide
- Global partnerships and collaborations
- Complete in-house development, manufacturing, and national/international distribution
- **Owner-managed** family business
- Recognised for **innovation**, forward-thinking solutions, and reliable partnership



MARKET LEADING



GAGGENAU



SINCE 1993



GALE
LOCATIONS



50 EMPLOYEES



OWNER-MANAGED

THE KOHLHAUER PRODUCT RANGE

UNIQUE, FORWARD-LOOKING
AND CONSTANTLY EVOLVING

- Our noise protection elements meet all **European standards** and have been **certified many times over**.
- Among other things through **voluntary external monitoring** of all products and production facilities by the **MFPA Leipzig GmbH**.



Standard-compliant and future-oriented

We create standards for the highest quality and safety





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TRANSPARENT

ALMOST INVISIBLE NOISE BARRIERS FOR URBAN SPACES AND GREAT VIEWS

- FILLINGS – from extruded acrylic glass to special laminated safety glass
- **KOHLHAUER SCORSA® FRAME** – innovative, durable, economical
- **KOHLHAUER SCORSA® FLEX** – transparent frame systems for curved noise barriers
- **KOHLHAUER CLEARWALL®** – the absorbent solution
- **KOHLHAUER SCORSA® POINT FIX** – innovative fixation for transparent noise protection
- **KOHLHAUER SCORSA® BORA** – noise protection solutions for wind-exposed locations

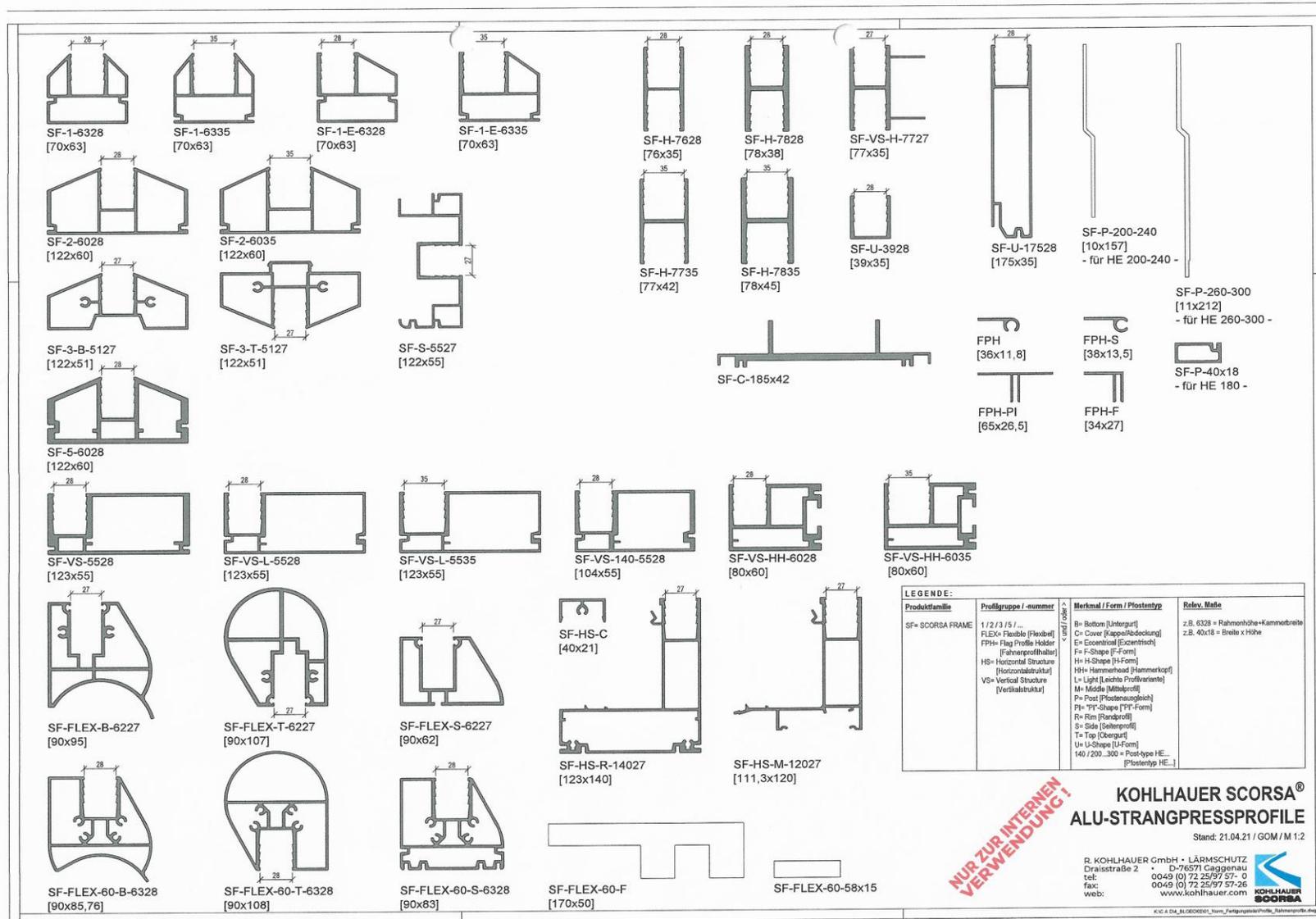
ADVANTAGES

of KOHLHAUER SCORSA®

- + Sturdy profile frames made of coated aluminium
- + Available with different pane materials
- + Optional bird protection strips
- + Extensive range of colors for individual design
- + CE-certifications are available

NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME PROFILES OVERVIEW



Technical drawings of various Scorsa frame profiles, including cross-sections and side views. Each drawing is labeled with a model name and its dimensions in millimeters.

Model List:

- SF-1-6328 [70x63]
- SF-1-6335 [70x63]
- SF-1-E-6328 [70x63]
- SF-1-E-6335 [70x63]
- SF-H-7628 [76x35]
- SF-H-7828 [78x38]
- SF-VS-H-7727 [77x35]
- SF-2-6028 [122x60]
- SF-2-6035 [122x60]
- SF-H-7735 [77x42]
- SF-H-7835 [78x45]
- SF-U-3928 [39x35]
- SF-U-17528 [175x35]
- SF-P-200-240 [10x157] - für HE 200-240 -
- SF-P-260-300 [11x212] - für HE 260-300 -
- SF-3-B-5127 [122x51]
- SF-3-T-5127 [122x51]
- SF-S-5527 [122x55]
- SF-C-185x42
- FPH [36x11,8]
- FPH-S [38x13,5]
- FPH-PI [65x26,5]
- FPH-F [34x27]
- SF-P-40x18 - für HE 180 -
- SF-5-6028 [122x60]
- SF-VS-5528 [123x55]
- SF-VS-L-5528 [123x55]
- SF-VS-L-5535 [123x55]
- SF-VS-140-5528 [104x55]
- SF-VS-HH-6028 [80x60]
- SF-VS-HH-6035 [80x60]
- SF-FLEX-B-6227 [90x95]
- SF-FLEX-T-6227 [90x107]
- SF-FLEX-S-6227 [90x62]
- SF-FLEX-60-B-6328 [90x85,76]
- SF-FLEX-60-T-6328 [90x108]
- SF-FLEX-60-S-6328 [90x83]
- SF-FLEX-60-F [170x50]
- SF-FLEX-60-58x15
- SF-HS-C [40x21]
- SF-HS-R-14027 [123x140]
- SF-HS-M-12027 [111,3x120]

LEGENDE:

Produktfamilie	Profilgruppe / -nummer	Merkmal / Form / Pfostenstyp	Relev. Maße
SF= SCORSA FRAME	1/2/3/5/... FLEX= Flexibel (Flexibel) FPH= Flag Profile Holder (Fahnenprofilhalter) E= Eccentrical (Eccentrisch) F= F-Shape (F-Form) H= H-Shape (H-Form) HH= Hammerhead (Hammerkopf) L= Light (Leichte Profilvariante) M= Middle (Mitteprofil) P= Post (Postenausgleich) PH= "P"-Shape (P"-Form) R= Rim (Randprofil) S= Side (Seitenprofil) T= Top (Übergurt) U= U-Shape (U-Form) 140/200...300 = Post-type HE... (Postentyp HE...)		z.B. 6328 = Rahmenhöhe+Kammerbreite z.B. 40x18 = Breite x Höhe

NUR ZUR INTERNEN VERWENDUNG!

KOHLHAUER SCORSA®
ALU-STRANGPRESSPROFILE

Stand: 21.04.21 / GOM / M 1:2

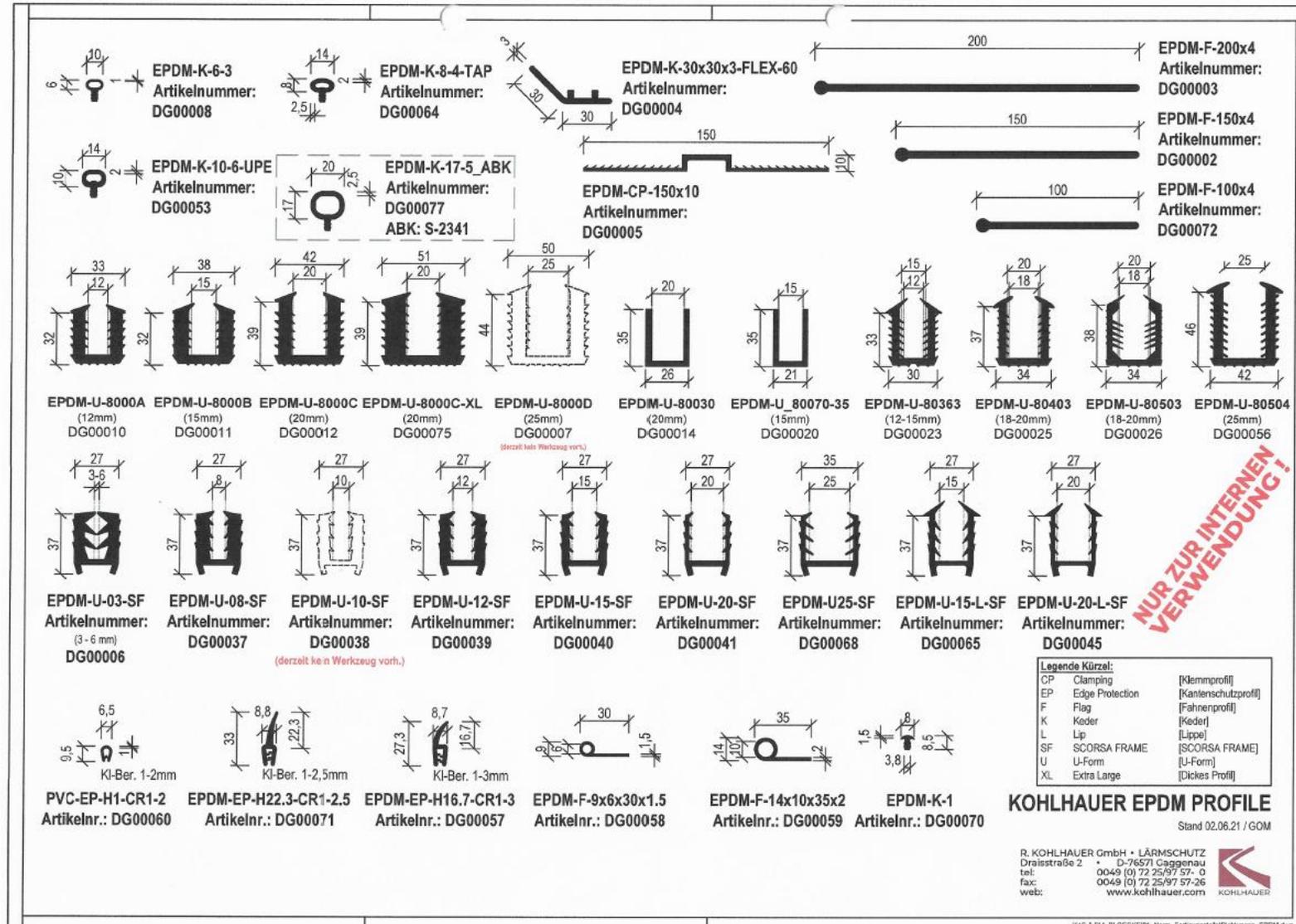
R. KOHLHAUER GmbH • LÄRMSCHUTZ
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DN-A2 - 954420

NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

EPDM PROFILES OVERVIEW



The diagram illustrates various EPDM profiles with their dimensions and part numbers. It includes:

- Clamping Profiles (K):** EPDM-K-6-3, EPDM-K-8-4-TAP, EPDM-K-10-6-UPE, EPDM-K-17-5_ABK.
- Edge Protection Profiles (EP):** EPDM-EP-H1-CR1-2, EPDM-EP-H22.3-CR1-2.5, EPDM-EP-H16.7-CR1-3.
- Flag Profiles (F):** EPDM-F-9x6x30x1.5, EPDM-F-14x10x35x2, EPDM-F-200x4, EPDM-F-150x4, EPDM-F-100x4.
- U-Form Profiles (U):** EPDM-U-8000A through EPDM-U-80504, EPDM-U-03-SF through EPDM-U-20-L-SF.
- Other Profiles:** EPDM-K-30x30x3-FLEX-60, EPDM-CP-150x10, EPDM-K-1.

Legende Kürzel:

CP	Clamping	[Klemmprofil]
EP	Edge Protection	[Kantenschutzprofil]
F	Flag	[Fahnenprofil]
K	Keder	[Keder]
L	Lip	[Lippe]
SF	SCORSA FRAME	[SCORSA FRAME]
U	U-Form	[U-Form]
XL	Extra Large	[Dickes Profil]

KOHLHAUER EPDM PROFILE
Stand 02.06.21 / GOM

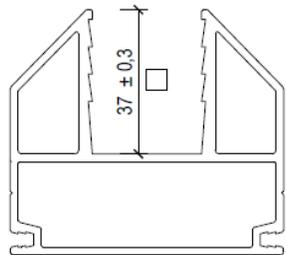
R. KOHLHAUER GmbH • LÄRMSCHUTZ
Draistraße 2 • D-76571 Caggiano
tel: 0049 (0) 72 25/97 57-0
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web: www.kohlhauer.com

NUR ZUR INTERNEN VERWENDUNG!

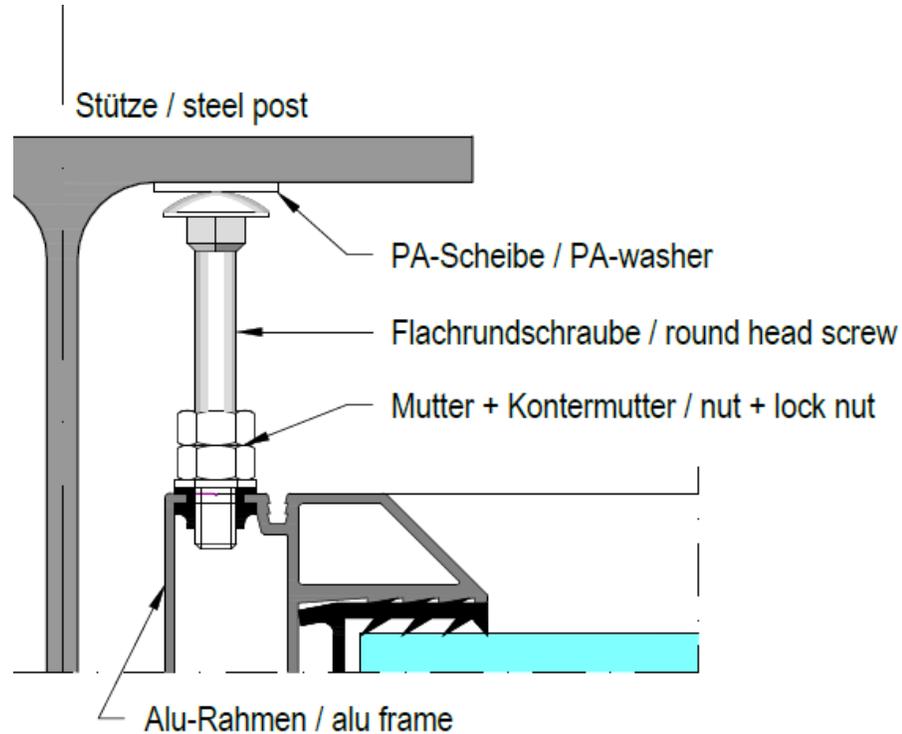
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME SF-1

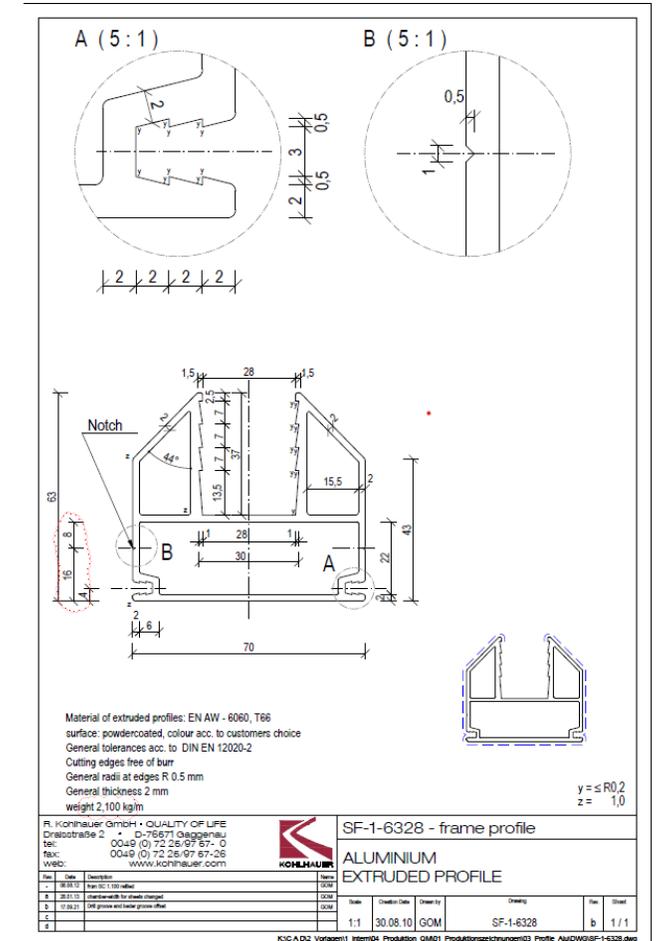
Scorsa SF1



Installation Detail SF-1

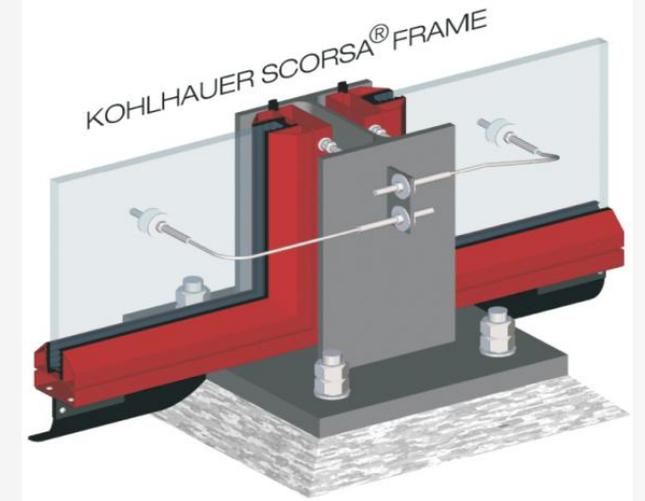
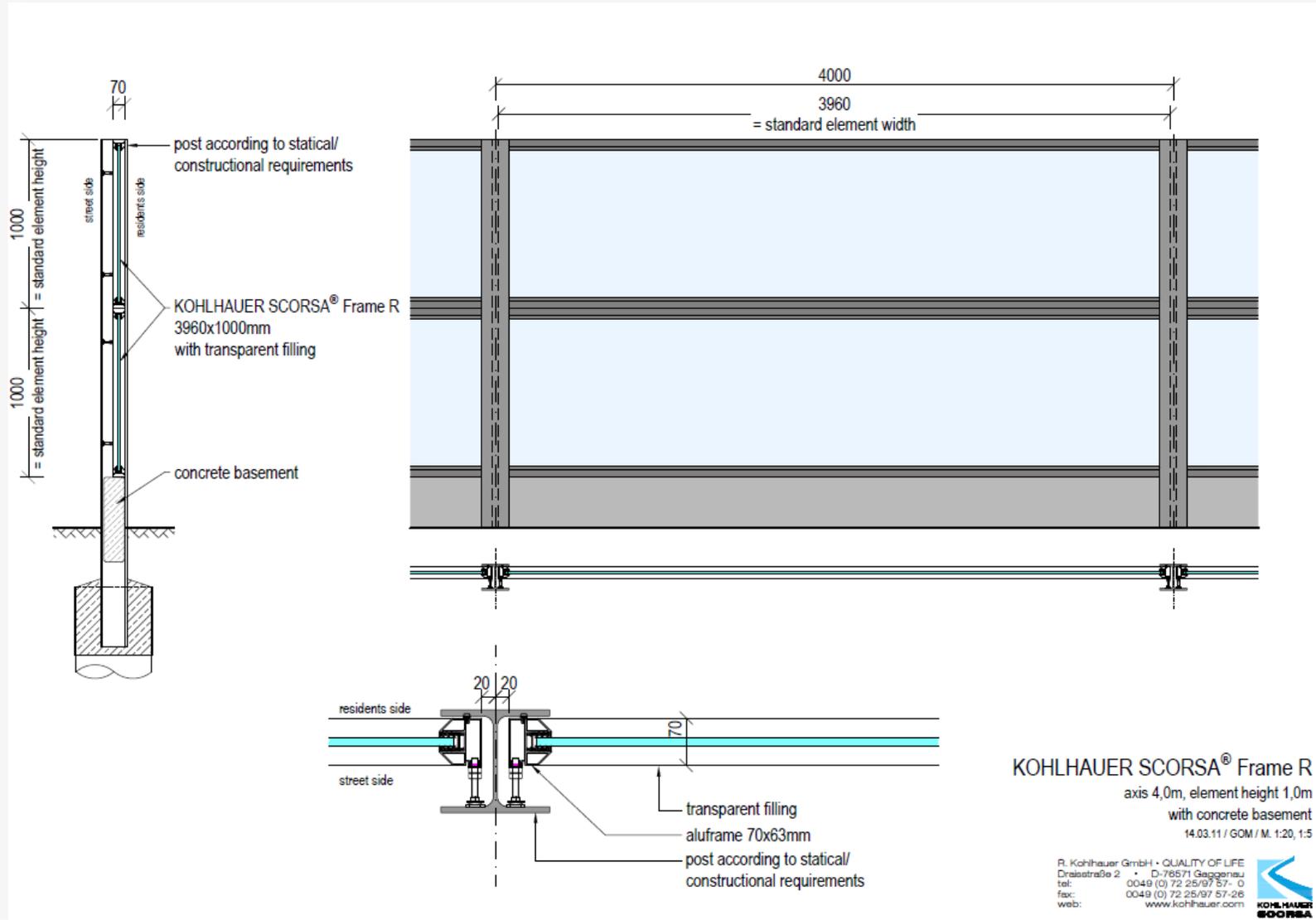


Drawing for Extrusion tool SF1



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

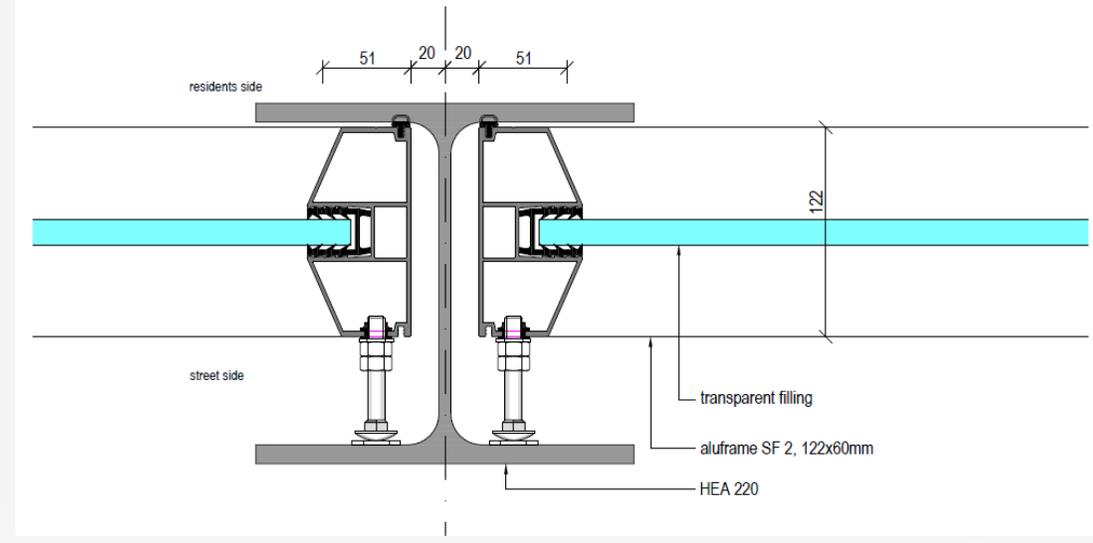
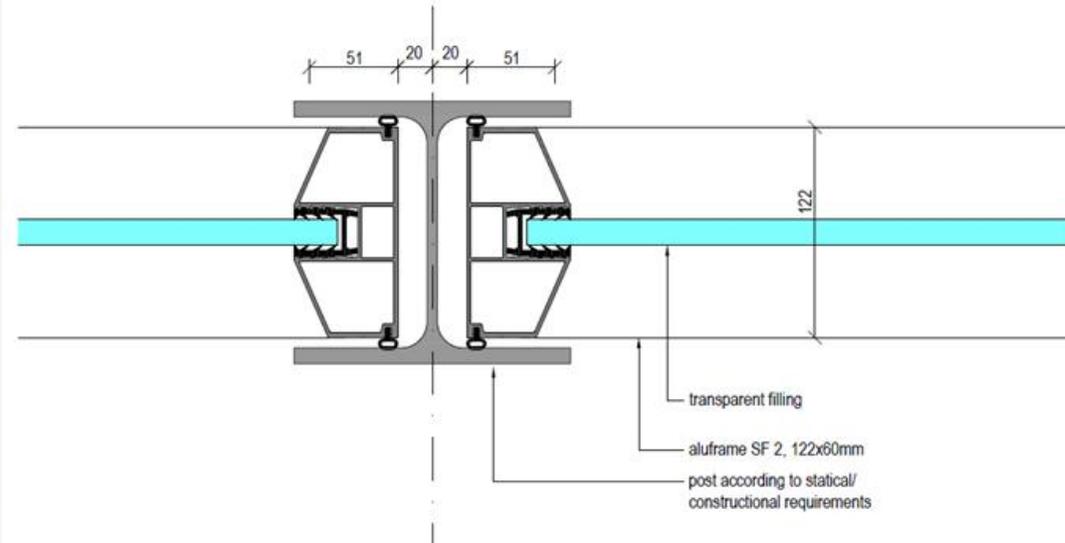
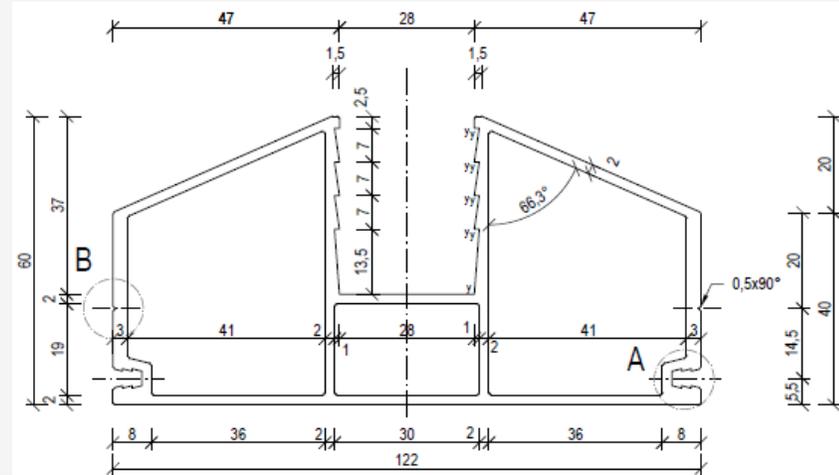
INSTALLATION SCORSA SF-1



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

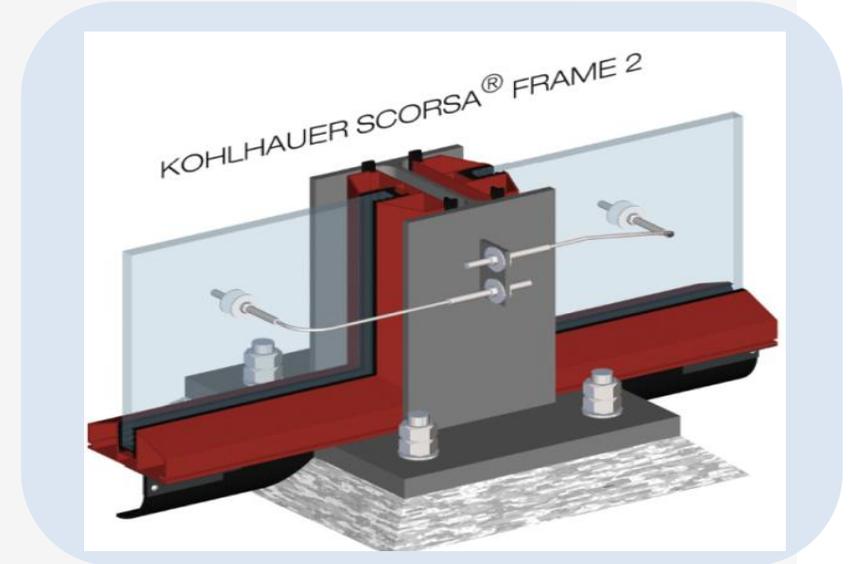
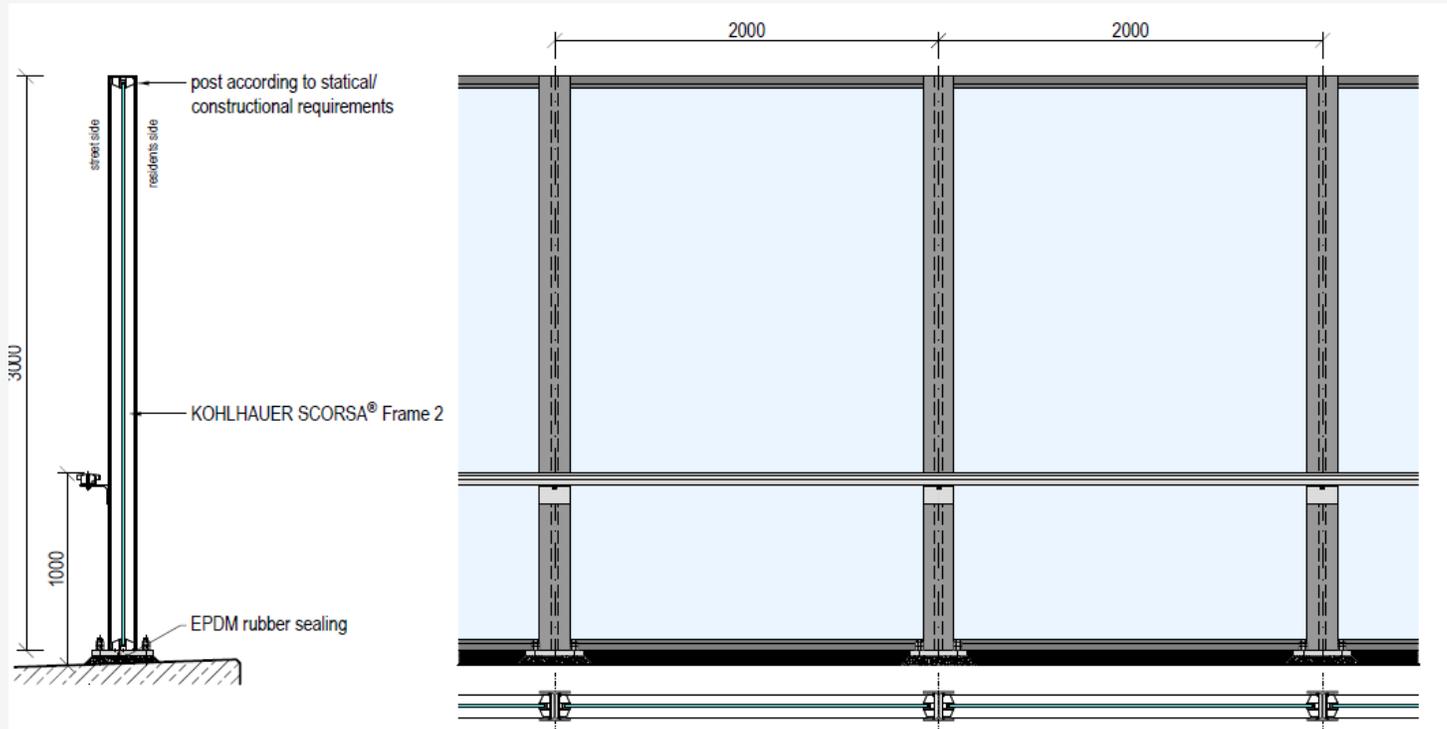
SCORSA SF-2

SCORSA SF-2



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME SF-2



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME EXAMPLES



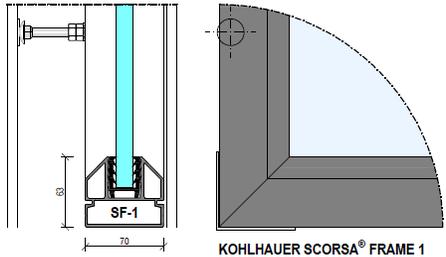
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME EXAMPLES

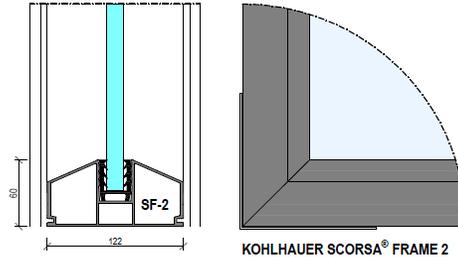


NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

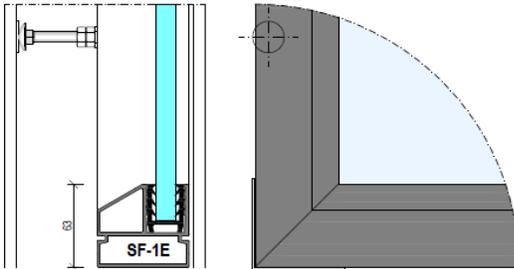
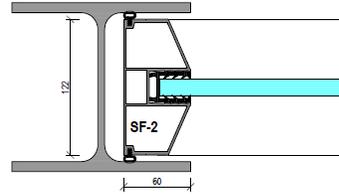
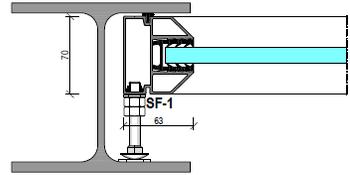
SCORSA SF-1 SF-2 SF-3 SF-5



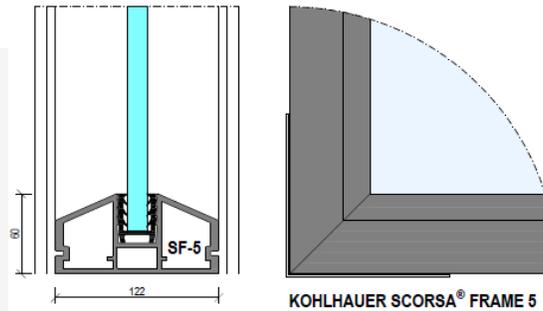
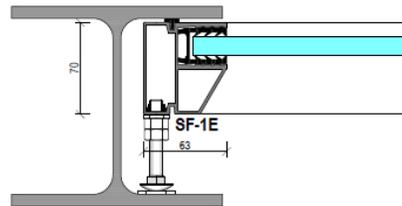
KOHLHAUER SCORSA® FRAME 1
(FRAME B / FRAME R)



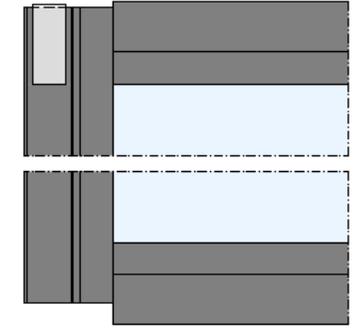
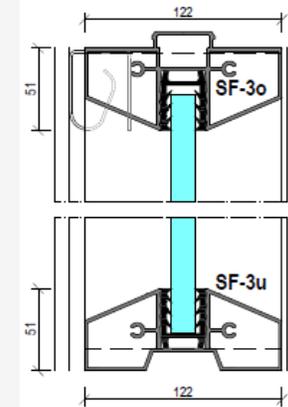
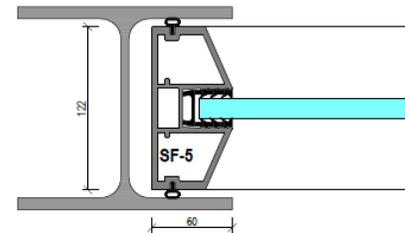
KOHLHAUER SCORSA® FRAME 2



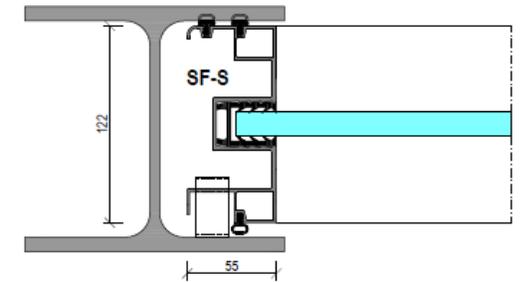
KOHLHAUER SCORSA® FRAME 1
(FRAME B / FRAME R)



KOHLHAUER SCORSA® FRAME 5

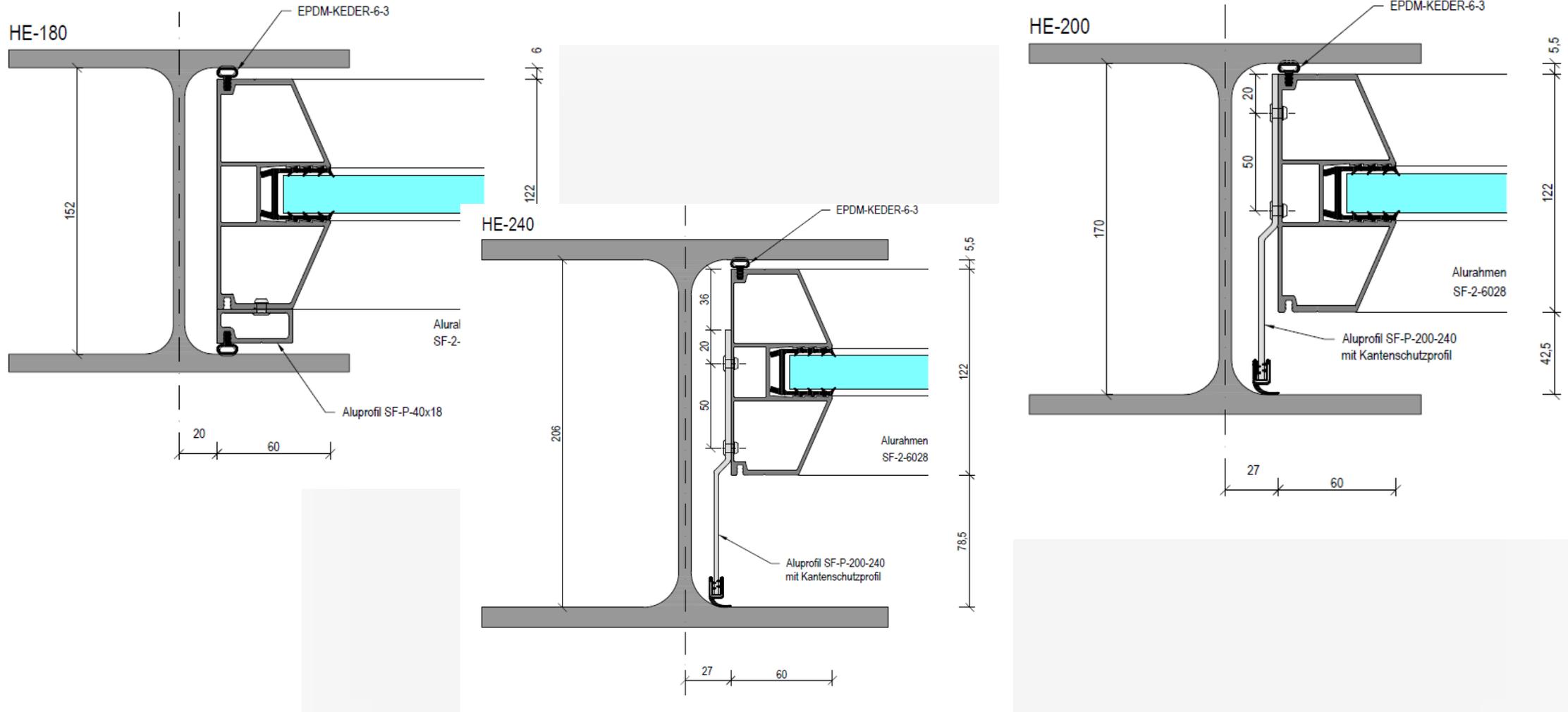


KOHLHAUER SCORSA® FRAME 3



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME SF2 ADAPTION TO DIFFERENT POST SIZES



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA SF-2 ASSEMBLING



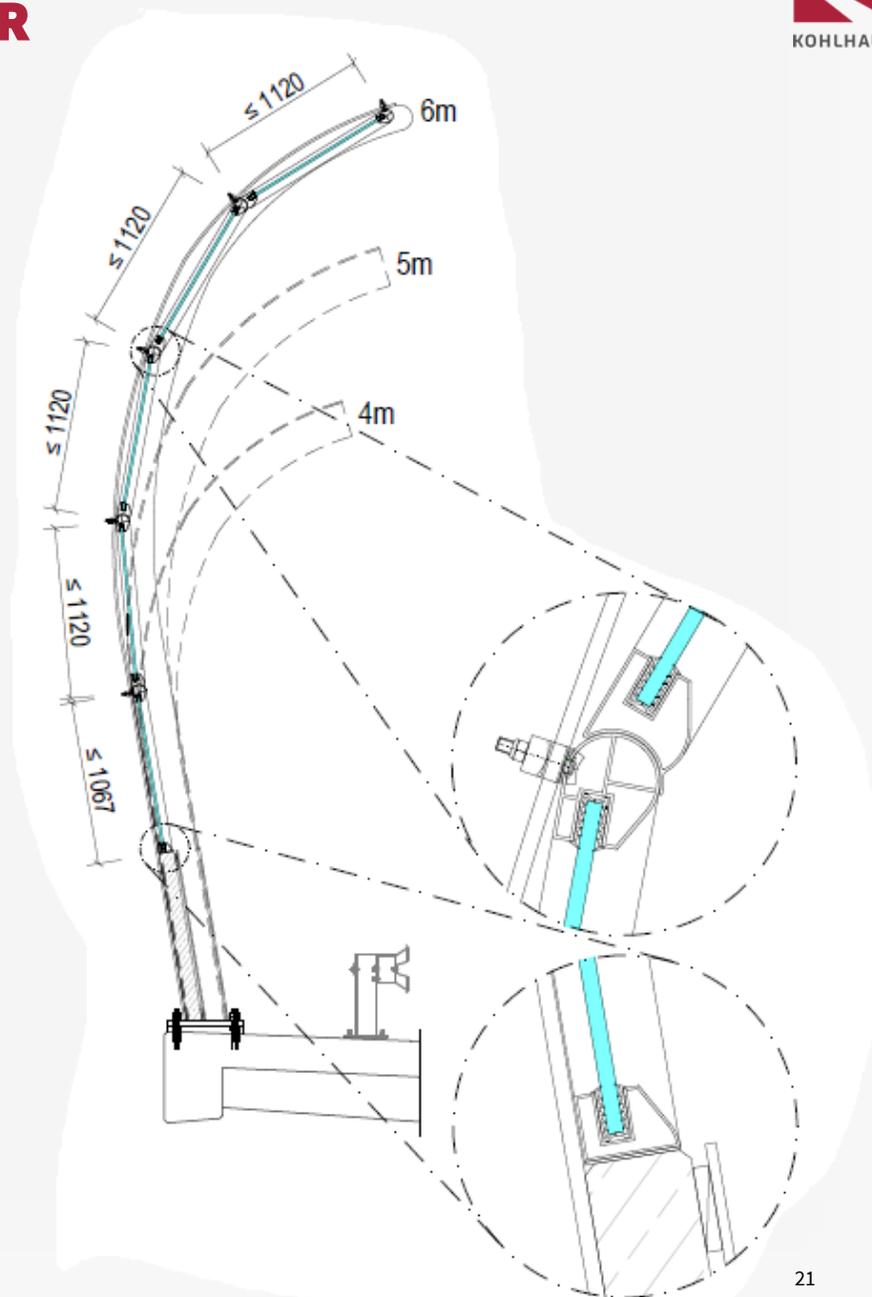
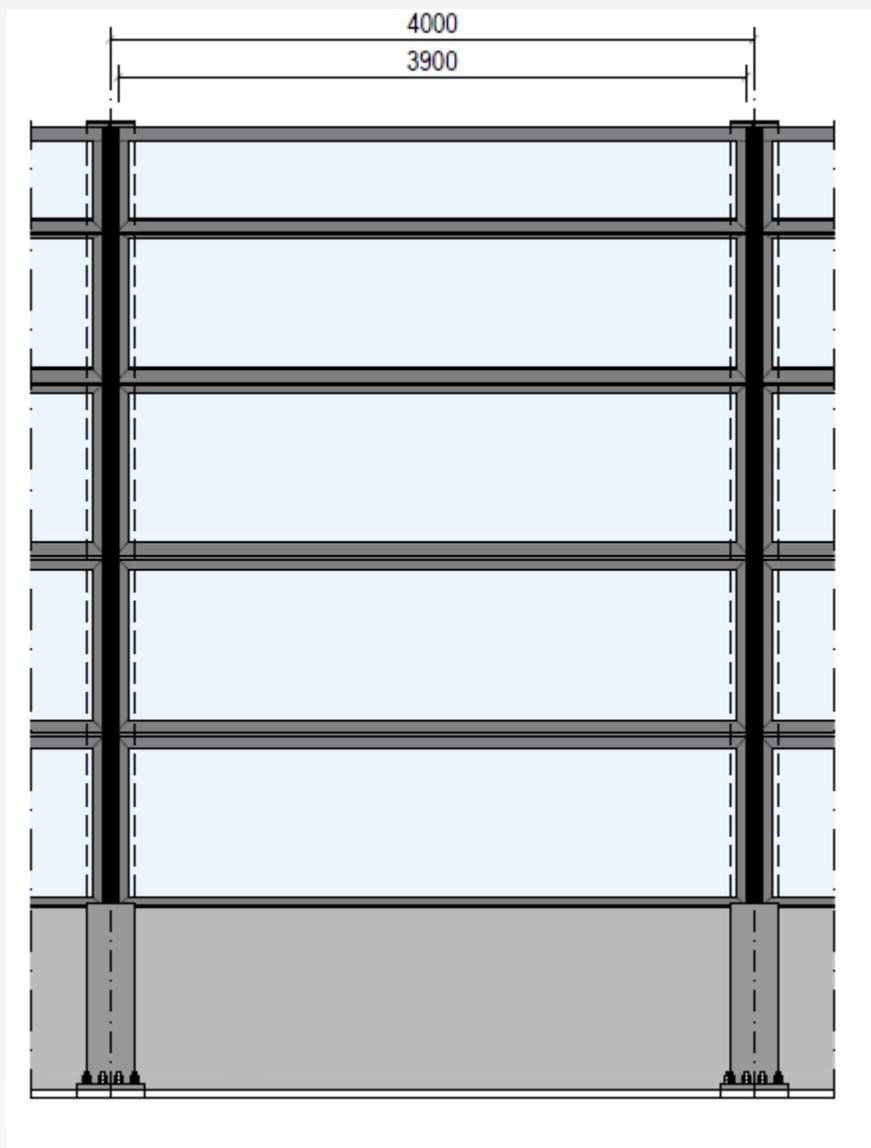
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

PREDIMENSIONING WINDLOADS

PREDIMENSIONING TABLE FOR ALUMINIUM PROFILES SYSTEM SCORSA											
ATTENTION: To be used by engineering skilled personal only!											
Characteristic line loads for a single profile of type SF-2, SF-3 and SF-4 [kN/m]											
Axis distance		a [m]									
I [cm ⁴]		1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	
SF-2	126	20,1	8,3	4,5	2,8	1,9	1,4	1,1	0,8	0,6	
SF-3	107	17,0	7,0	3,8	2,4	1,6	1,2	0,9	0,7	0,5	
SF-4	180	28,7	11,8	6,4	4,0	2,8	2,0	1,5	1,2	0,8	
Characteristic distributed loads for an element of height H made by horizontal profiles of type SF-2, SF-3 and SF-4 [kN/m ²]											
Element height	Axis distance		a [m]								
[m]	I [cm ⁴]		1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
1,0	SF-2	126	40,1	16,6	9,0	5,8	3,9	2,8	2,1	1,7	1,2
	SF-3	107	34,1	14,1	7,6	4,8	3,3	2,4	1,8	1,4	1,0
	SF-4	180	57,3	23,7	12,9	8,1	5,5	4,0	3,1	2,4	1,7
		I [cm ⁴]	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
1,5	SF-2	126	26,8	11,1	6,0	3,8	2,6	1,9	1,4	1,1	0,8
	SF-3	107	22,7	9,4	5,1	3,2	2,2	1,6	1,2	1,0	0,7
	SF-4	180	38,2	15,8	8,6	5,4	3,7	2,7	2,0	1,8	1,1
	I [cm ⁴]	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	
2,0	SF-2	126	20,1	8,3	4,5	2,8	1,9	1,4	1,1	0,8	0,6
	SF-3	107	17,0	7,0	3,8	2,4	1,6	1,2	0,9	0,7	0,5
	SF-4	180	28,7	11,8	6,4	4,0	2,8	2,0	1,5	1,2	0,8
	I [cm ⁴]	1,0	1,5	2,0							
3,0	SF-2	126	13,4	5,5	3,0						XT / CC t=15 mm
	SF-3	107	11,4	4,7	2,5						XT / CC t=20 mm
	SF-4	180	19,1	7,9	4,3						
	I [cm ⁴]	1,0	1,5	2,0							
4,0	SF-2	126	10,0	4,1	2,3						WITHOUT ANY WARRANTY !
	SF-3	107	8,5	3,5	1,9						IN CASE OF DOUBTS CONTACT AUTHOR !
	SF-4	180	14,3	5,9	3,2						
rev. 0.0 / 12-03-13 / vcf											

NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

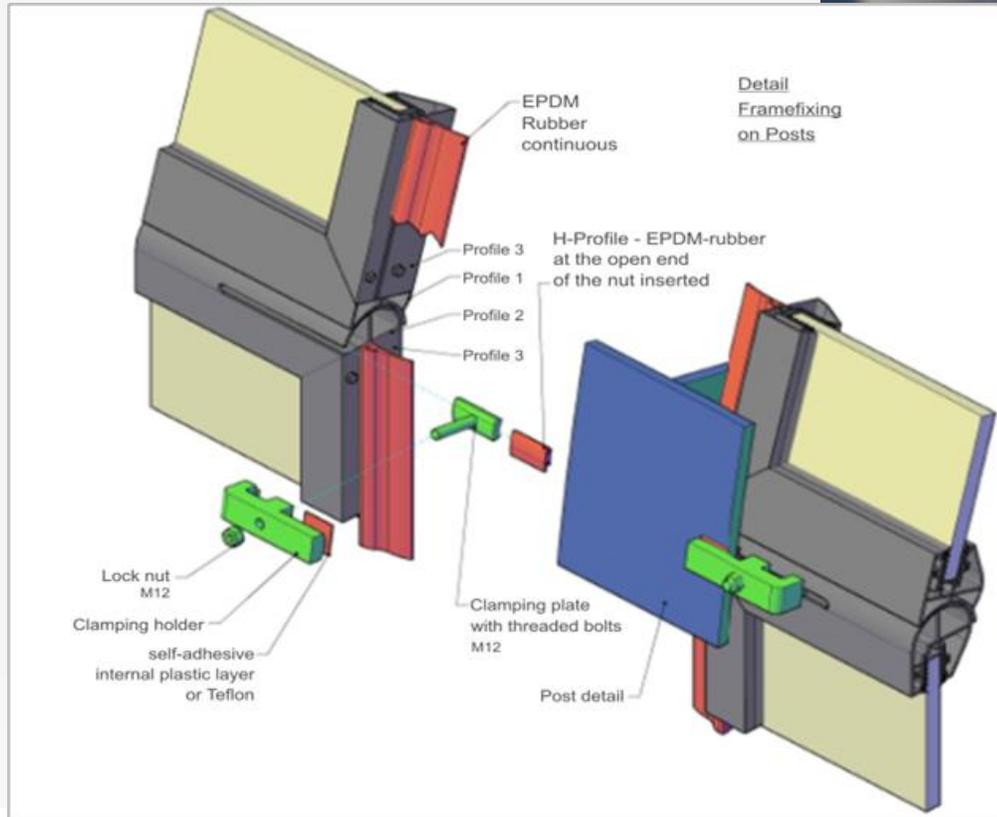
SCORSA FLEX



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

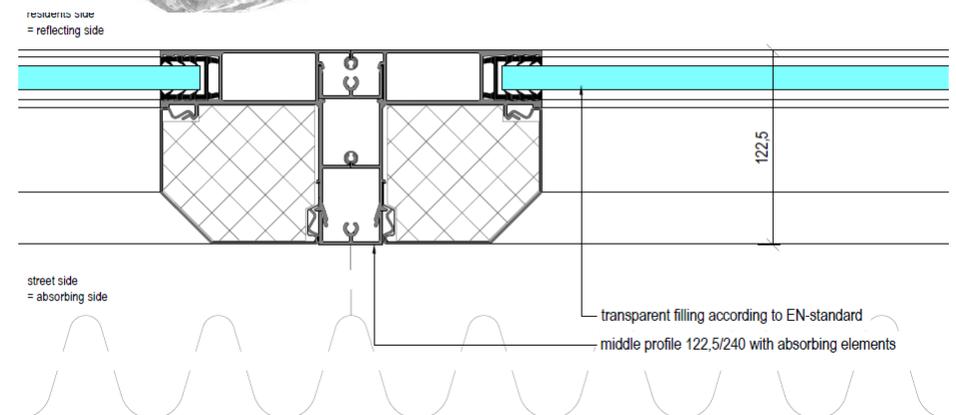
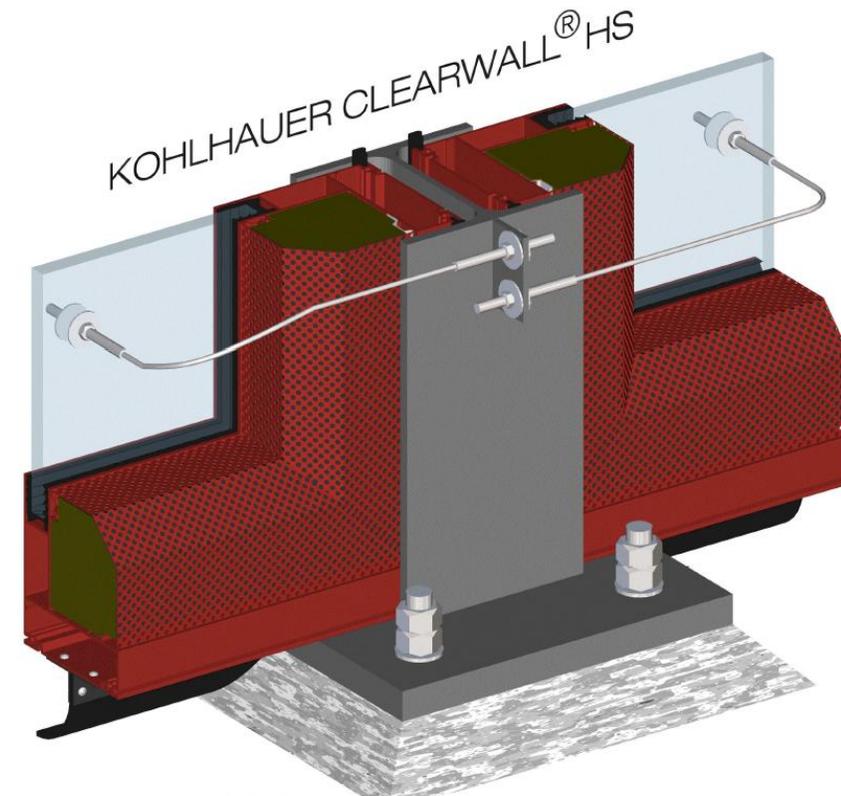
SCORSA FLEX

Hinge joint profiles



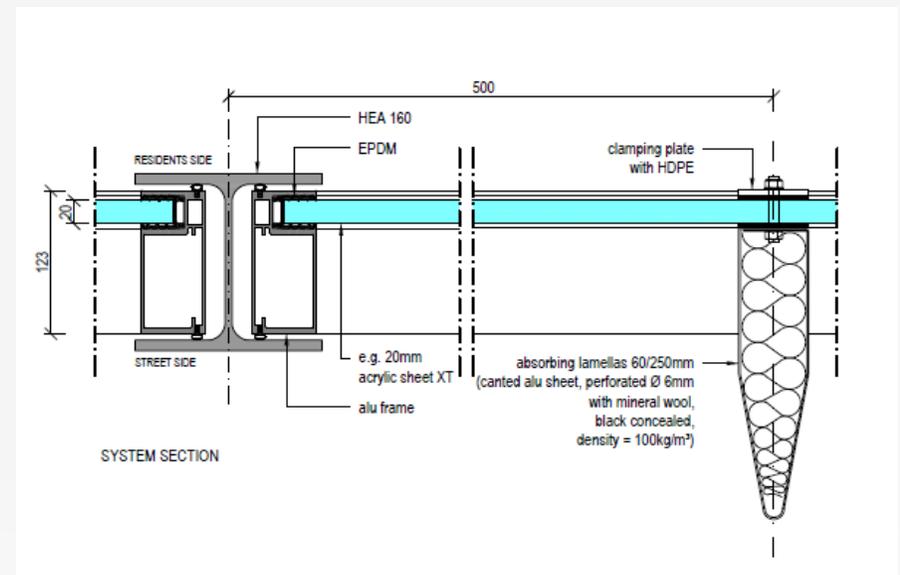
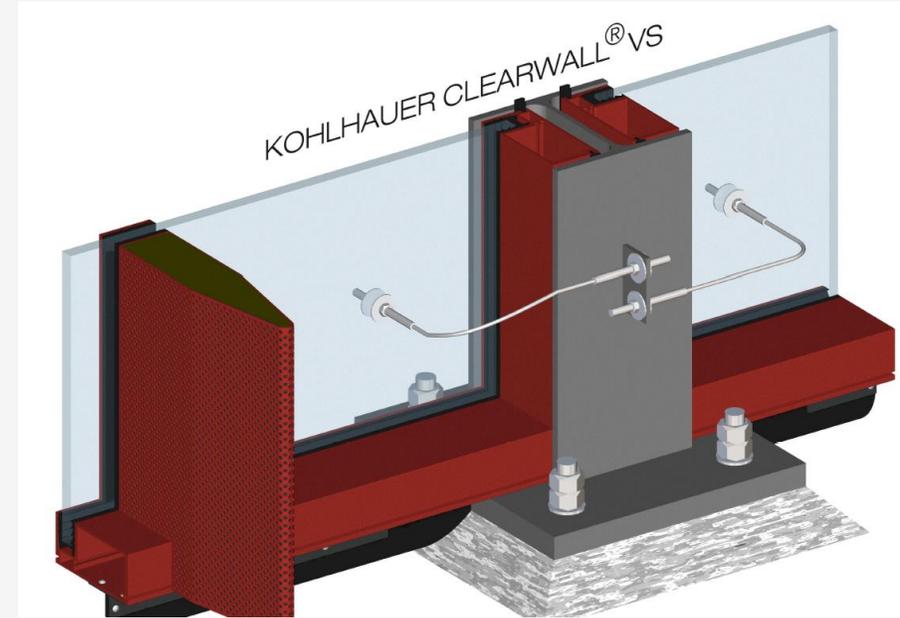
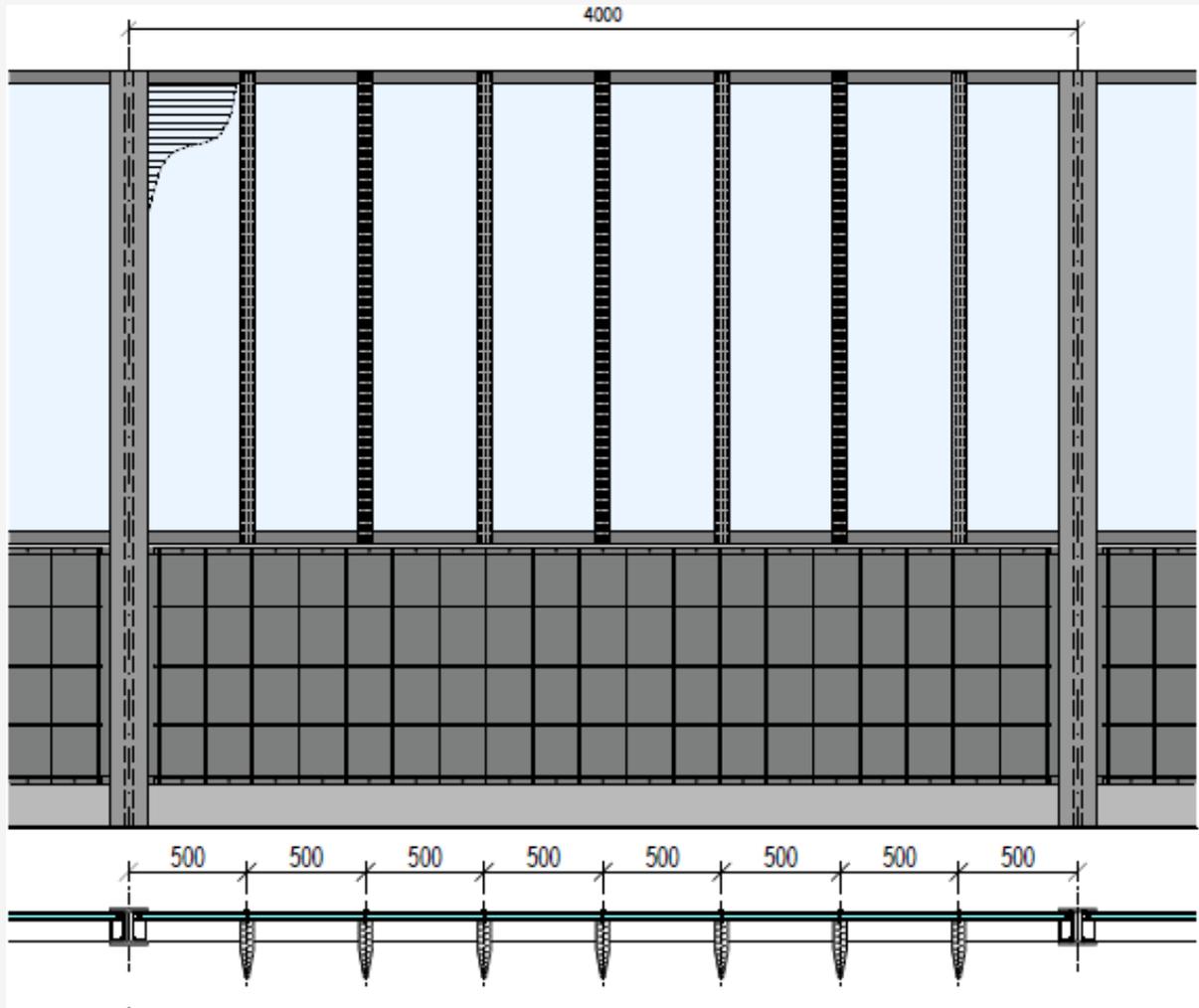
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

CLEARWALL HS



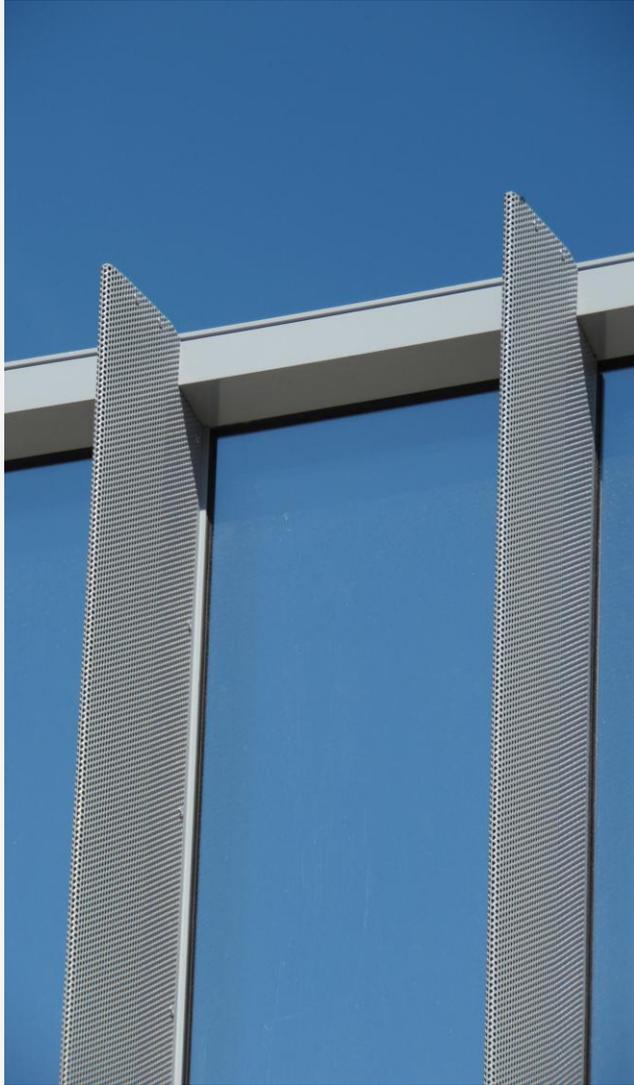
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

CLEARWALL VS



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

CLEARWALL VS

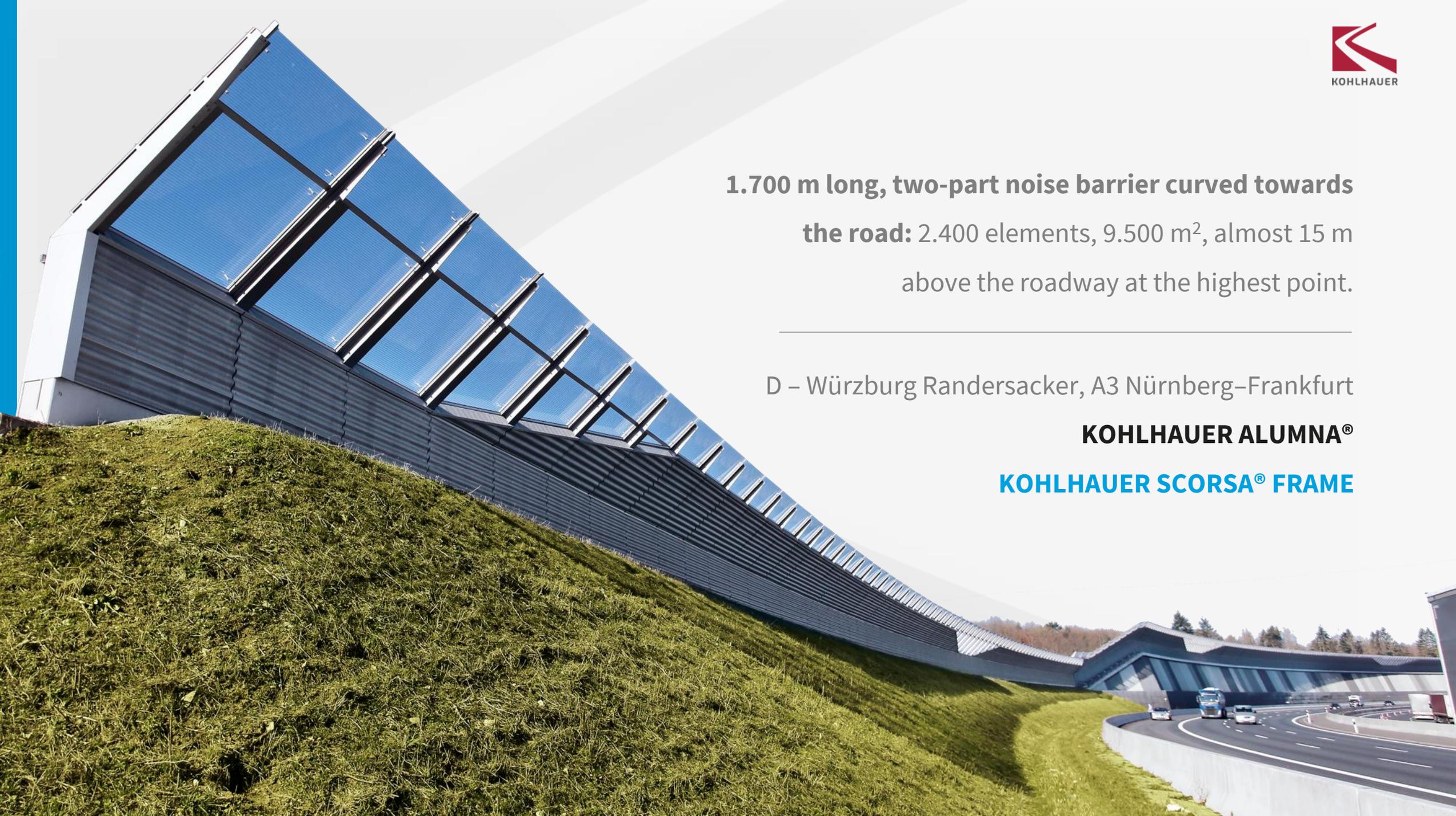


**1.700 m long, two-part noise barrier curved towards
the road:** 2.400 elements, 9.500 m², almost 15 m
above the roadway at the highest point.

D – Würzburg Randersacker, A3 Nürnberg–Frankfurt

KOHLHAUER ALUMNA®

KOHLHAUER SCORSA® FRAME



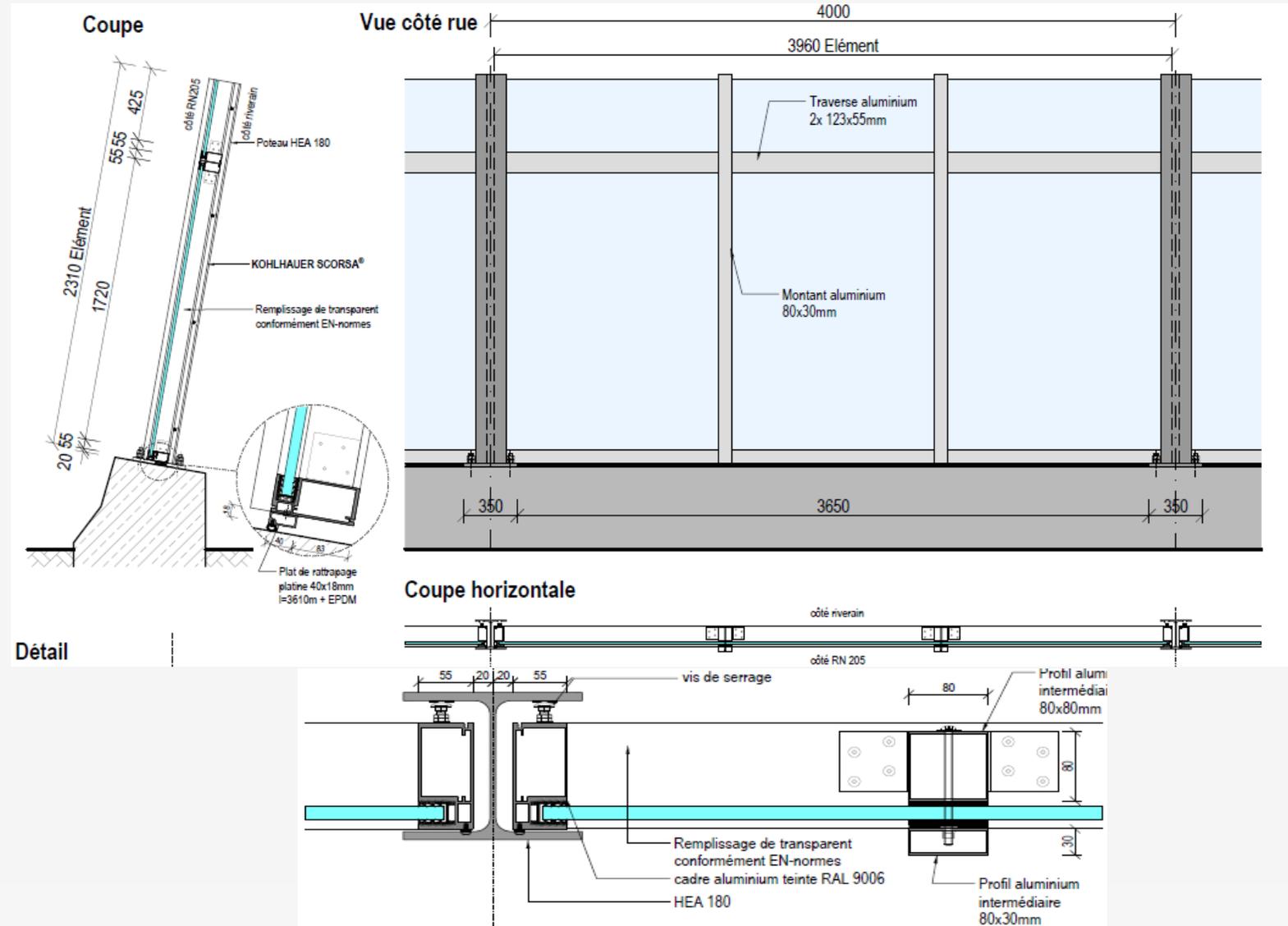
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME EXAMPLES



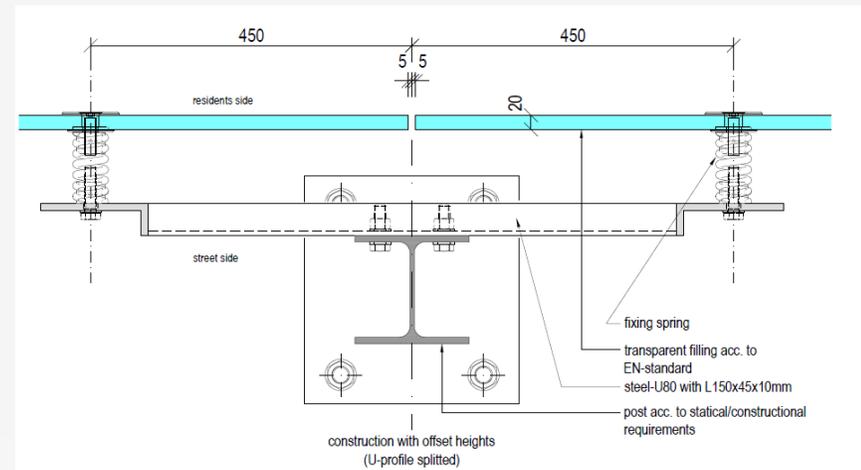
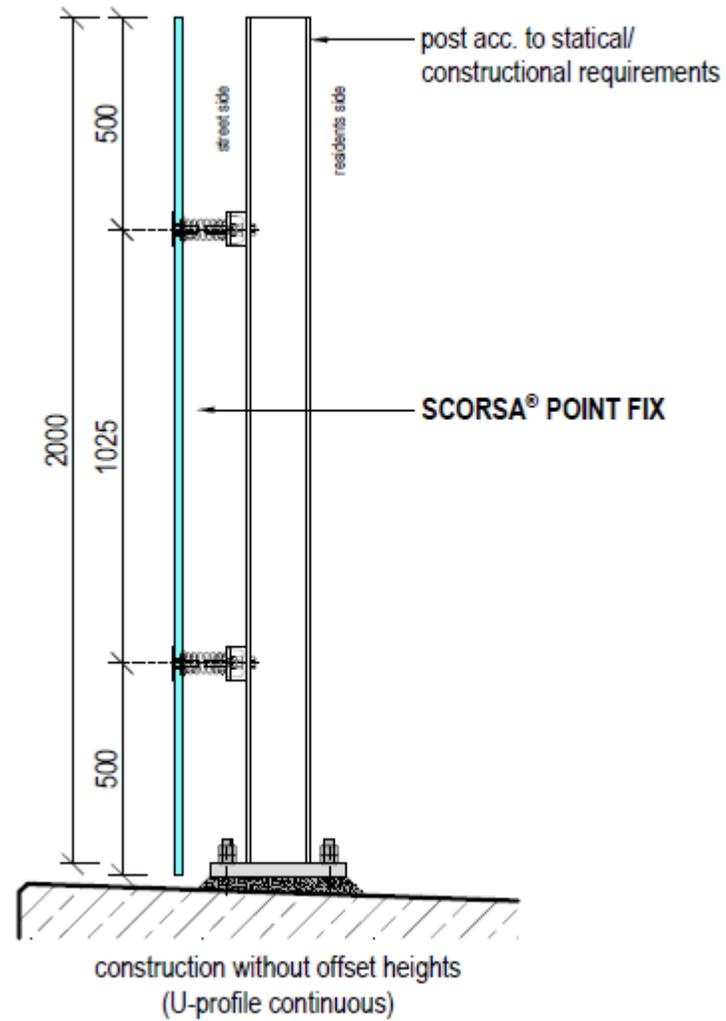
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

VARIATIONS WITH VSF



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA POINT FIX



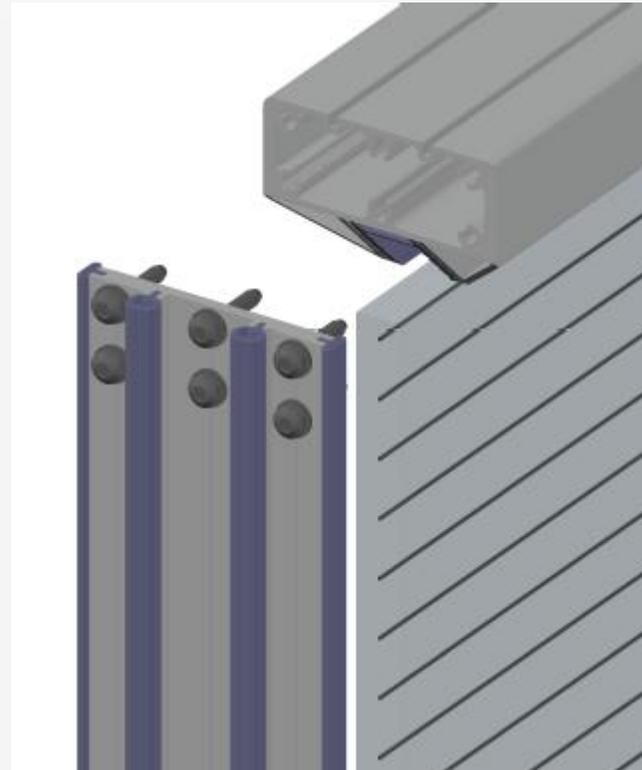
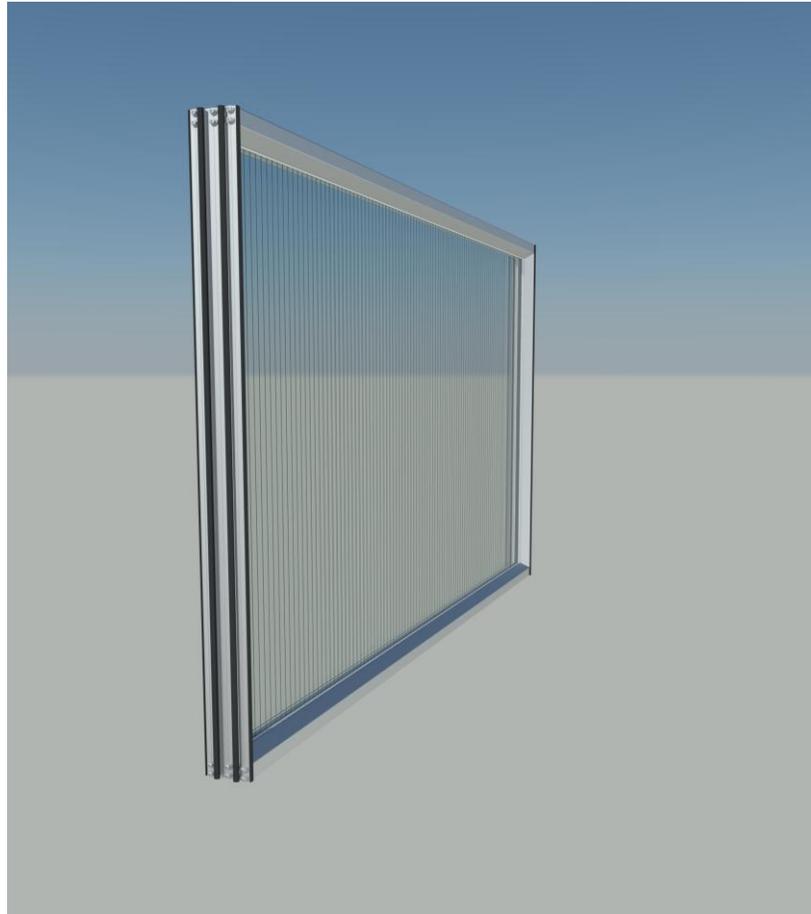
NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME CVV

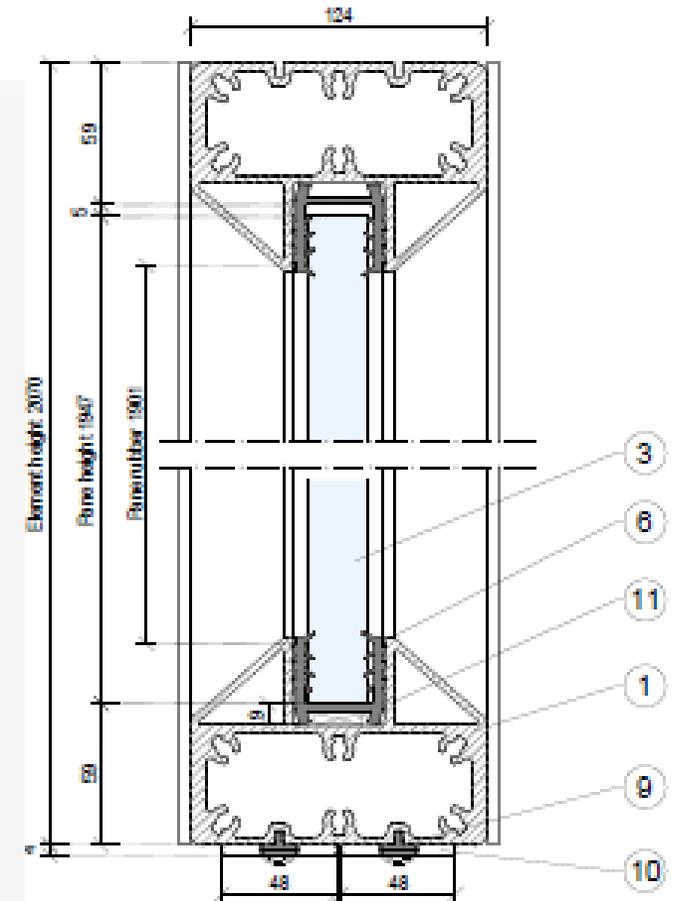


NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

HS2 SCORSA RAIL SFR-01-CW



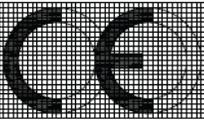
Vertical section A - A
Scale 1:2.5



Element height: 2070mm
 Panel height: 1947mm
 Expansion joint 2.5m (max. 10mm)

NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

SCORSA FRAME PROFILES OVERVIEW




Notified body # 1390
ITT-Report 1390-CPD-0479-11/Z
24,01,2011

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**KOHLHAUER
SCORSA**
FRAME-B XT-15

Designed by R.Kohlhauer GmbH
Product produced in Germany

2011

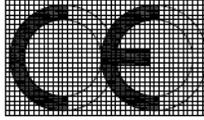
EN 14388:2005

Transparent noise barrier for reducing traffic and
all other noise, acoustic reflective

Acoustic element type:	Kohlhauer SCORSA® FRAME-B XT-15
Standard size L x H x T:	1,96 x 3,00 x 0,07 m
Sheetst:	PMMA t = 15 mm
Frames:	ALUMINIUM EN-AW 6060 T6
Post type	HE-A/-B/-M, (U-) 160/180/200

Dry weight:	1,17 kN
Reduced wet weight:	1,17 kN
Resistance to loads:	
Maximum vertical load:	NPD
Normal (90°) load (due to wind and static):	1,31 kN/m²
Normal (90°) load (due to wind, static external and self weight)	NPD
Blending moment at ground level (due to snow clearance)	2,23 kNm
Normal (90°) load (due to snow clearance)	9,22 kN/(2x2 m)
Impact of Stones:	Fulfilled
Resistance to brushfire:	Class 1
Airborne sound insulation:	DL _R = 30 dB
Durability:	NPD
Estimated service life, acoustics	30 Years
Estimated service life, structure	30 Years

rev 01/11-04-18/ver




Notifizierte Stelle # 0800
Prüfbericht ATP 2.1/18-032-1A
14.05.2018

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**KOHLHAUER
SCORSA**
ABK-SF2 PMMA-12/-15 2x2,5

Designed by R.Kohlhauer GmbH
Product produced in European Union

2018

EN 14388:2005

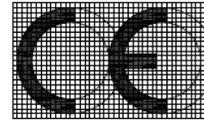
Transparentes Schallschutzelement gegen Verkehrsschall und
und Allgemeinschall, akustisch reflektierend

Akustikelement Typ:	Kohlhauer SCORSA® ABK-SF2 PMMA-12/-15 2x2,5
Standardgröße L x H x T:	1,96 x [0,25...2,50] x 0,125 m
Scheiben:	PMMA t = 12 / 15 mm
Rahmen:	ALUMINIUM EN-AW 6060 T6
Pfostentypen:	HE-A/-B/-M, (U-) 160

Trockengewicht:	≤ 0,17 kN/m²
Ermäßigtes Naßgewicht:	≤ 0,17 kN/m²
Bauteilwiderstände:	
Normal (90°) (Wind- und statische Last):	1,62 kN/m²
Vertikal (0°) (Statische Last) :	NPD
Normal (90°) (Schneeräumung):	15 kN/(2x2)m² *
Herabfallende Wandteile:	Klasse 2 *
Steinschlag:	Erfüllt
Brandwiderstand:	Klasse 3
Luftschalldämmung:	t = 12 mm DL _R ≥ 27 dB (Gruppe B3)** t = 15 mm DL _R ≥ 26 dB (Gruppe B3)**
Dauerhaftigkeit:	NPD
Geschätzte Lebensdauer, Akustik	30 Jahre
Geschätzte Lebensdauer, Struktur	30 Jahre

* Nur gültig für getestete Elementgröße - siehe Prüfbericht ATP
** Wert gem. Gutachterlicher Stellungnahme

rev 01/11-04-18/ver




Notified body # 0800
ITT-Report S 2.1/11-137-5
30,05,2011

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**KOHLHAUER
SCORSA**
FRAME-R PC-8

Designed by R.Kohlhauer GmbH
Product produced in Germany

2011

EN 14388:2005

Transparent noise barrier for reducing traffic and
all other noise, acoustic reflective

Acoustic element type:	Kohlhauer SCORSA® FRAME-R PC-8
Standard size L x H x T:	3,96 x 1,00 x 0,07 m
Sheets:	PC t = 8 mm
Frames:	ALUMINIUM EN-AW 6060 T6
Post type	HE-A/-B/-M, (U-) 160/180/200

Dry weight:	0,60 kN
Reduced wet weight:	NPD
Resistance to loads:	
Normal (90°) load (due to wind and static):	1,05 kN/m²
Vertical (0°) load (static external and self weight):	0,81 kN/m²
Normal (90°) load (due to snow clearance)	NPD
Danger of falling debris	NPD
Impact of stones	Fulfilled
Resistance to brushfire	Class 2
Airborne sound insulation:	DL _R = 27 dB (group B3)
Durability:	NPD
Estimated service life, acoustics	30 years
Estimated service life, structure	30 years

rev 01/11-04-18/ver

NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

ACOUSTIC TESTING DIN EN 1793-5 / 1793-6



ACOUSTB
Projet

MESURE DES
PERFORMANCES
ACOUSTIQUES
DES ÉCRANS

Martigues (13)

ACOUSTB



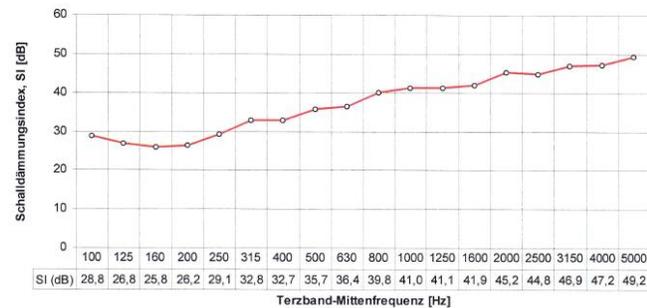
ACOUSTB
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MESURE DES
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ACOUSTB

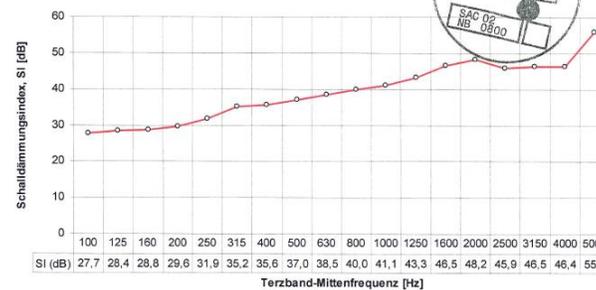
SI "akustisches Element"



Einzahl-Angabe akustisches Element $DL_{SI,E} = 36$ dB

Kategorie D3

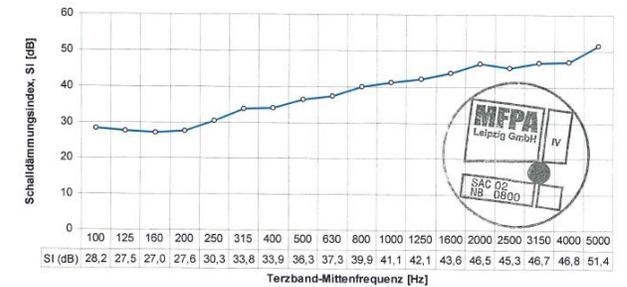
SI "Pfosten"



Einzahl-Angabe Pfosten $DL_{SI,P} = 39$ dB

Kategorie D4

SI "Mittelwert akustisches Element und Pfosten"



Einzahl-Angabe für die Gesamtheit $DL_{SI,G} = 37$ dB

Kategorie D4



OPAQUE

WALLS INTEGRATED INTO THE LANDSCAPE WITH
VISIBLE ADDED VALUE

- **KOHLHAUER ALUFERA®** – lightweight, highly absorbent grid insulation system on both sides
- **KOHLHAUER PLANTA®** – green solution, that creates natural habitats
- **KOHLHAUER LIGNA®** – environmentally friendly systems with renewable raw materials
- **KOHLHAUER ALUMNA®** – modern design with excellent customizable functionality

ADVANTAGES

KOHLHAUER ALUFERA®

- + Ventilation and drainage channels for constant noise protection and water drainage
- + Modular standard elements

KOHLHAUER PLANTA®

- + Suitable for extensive plating on both sides
- + Materials used 100 % recyclable

KOHLHAUER LIGNA®

- + Environmentally friendly
- + Long life cycle

KOHLHAUER ALUMNA®

- + Excellent sound insulation & absorption
- + Different color coatings possible

Allround grid insulation system offers a wide range of design options: 30.000 m² manufactured under license by a partner in the KOHLHAUER network.

BIH – Prnjavor-Doboj

KOHLHAUER ALUFERA®

Over 3.000 m² of green noise barrier

adapts to its surroundings and provides a new habitat for small animals and plants by planting along the wall.

I – Bergamo

KOHLHAUER PLANTA®



Innovative, environmentally friendly noise protection elements made from renewable raw materials: ecological, economical and visually appealing.

D – Beilngries, Altmühl-Jura

KOHLHAUER LIGNA®



Almost **1.500 m²** of **noise protection elements** produced in Gaggenau „**Made in Germany**“ and delivered to Singapore in containers.

SGP – Canberra MRT-Station

KOHLHAUER SCORSA[®] FRAME

KOHLHAUER ALUMNA[®]





SPECIALS

SPECIAL NOISE PROTECTION TASKS
PARTICULARLY WELL SOLVED

- **KOHLHAUER VOLTA®** – Solar integration solution with high yield through standard modules
- **TAP-RAIL** – frame system tested for railroad lines combines absorption with transparency
- **URBAN PROTECTION SHIELD** – Slim, adaptable complete system for urban areas

ADVANTAGES

KOHLHAUER VOLTA®

- + System integration of photovoltaics into the sound insulation system
- + Decentralized, sustainable energy generation

TAP-RAIL

- + Absorbent noise protection without obstructing the view
- + Highest noise protection for residents

URBAN PROTECTION SHIELD

- + Coherent overall concept for steel construction in combination with noise protection elements
- + Wide variety of frame and glass designs, steel or point fixing

Large number of **environmental projects.**

D – Neuötting, Michaelifeld

KOHLHAUER VOLTA®

KOHLHAUER SCORSA FRAME®

KOHLHAUER ALUFERA®



Transformation of an old noise barrier with attached wooden elements into a **multifunctional noise barrier with integrated PV elements**: 250m long, 800m² PV area with 105.000 kWh output per year, saving almost 50.000 kg/year of CO₂ emissions.

D – Meitingen-Waltershofen

KOHLHAUER ALUFERA®

KOHLHAUER VOLTA®



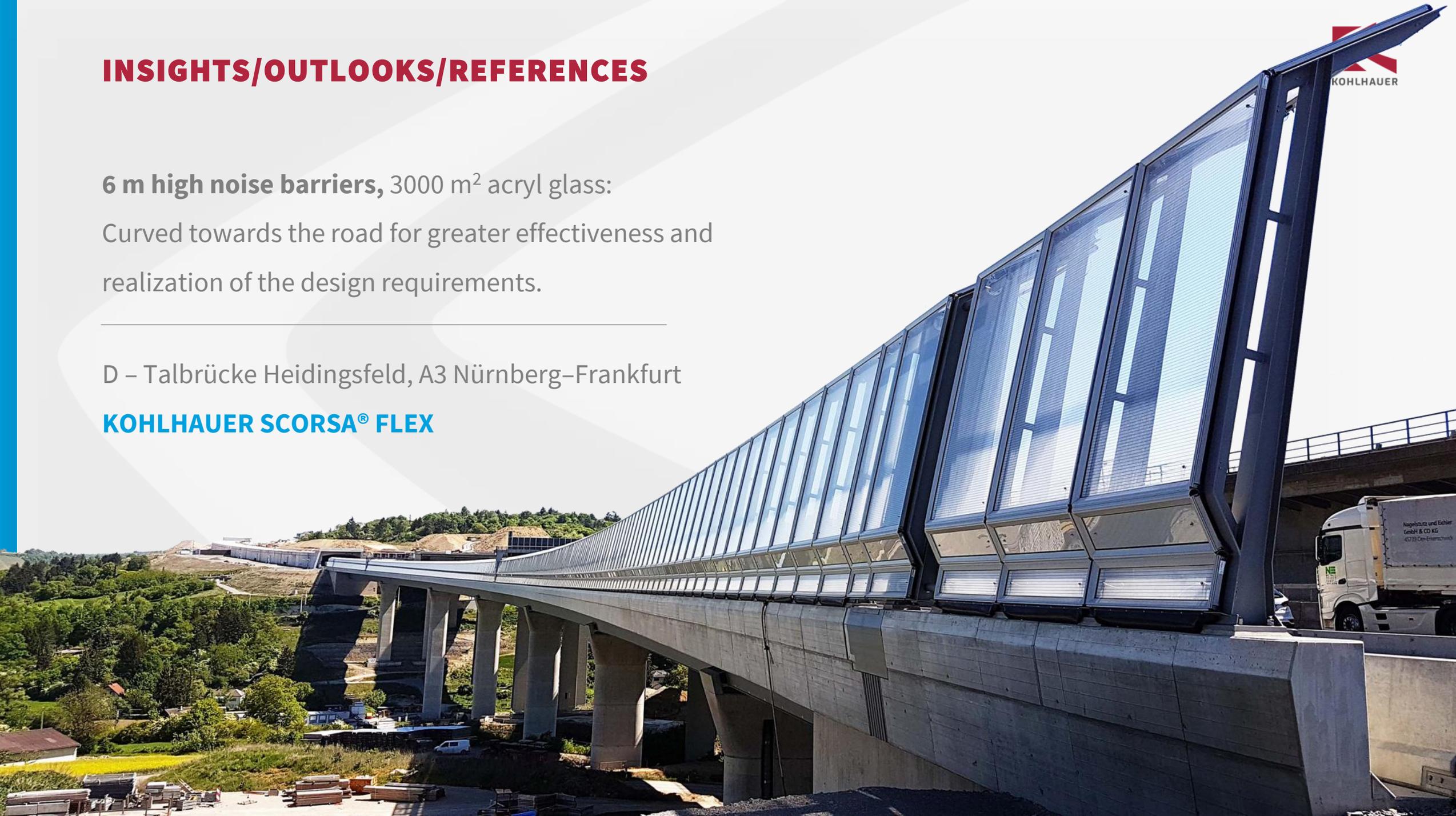
INSIGHTS/OUTLOOKS/REFERENCES

6 m high noise barriers, 3000 m² acryl glass:

Curved towards the road for greater effectiveness and realization of the design requirements.

D – Talbrücke Heidingsfeld, A3 Nürnberg–Frankfurt

KOHLHAUER SCORSA® FLEX



NOISE PROTECTION SOLUTIONS FROM KOHLHAUER

20 YEARS OLD PROJECTS



KOHLHAUER AFTER-SALES SERVICES LONG-TERM SUPPORT SOLUTIONS

WE OFFER



- Long-lasting durability, with a **CE-certified** service life of 30 years
- **Easy and efficient replacement** of components and panels
- **Comprehensive technical support** throughout all project phases
- Collaboration with **certified partner companies** for anti-graffiti treatments, fully meeting your project requirements

WAYS TO REACH US

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