

Material research



Guardrail

01

Material: Hot-dip
galvanized steel
Length: 4300 mm
Height: 306 mm
Thickness: 3 mm
Weight: 42 kg
Price: 130 chf

01. Fabrikat

02. Production

03. Ageing

04. Site

05. References

06. Design

07. Xxx

08. Xxx



Abb. 1

Abb. 1: Blech roh

Abb. 2: Blech feuerverzinkt

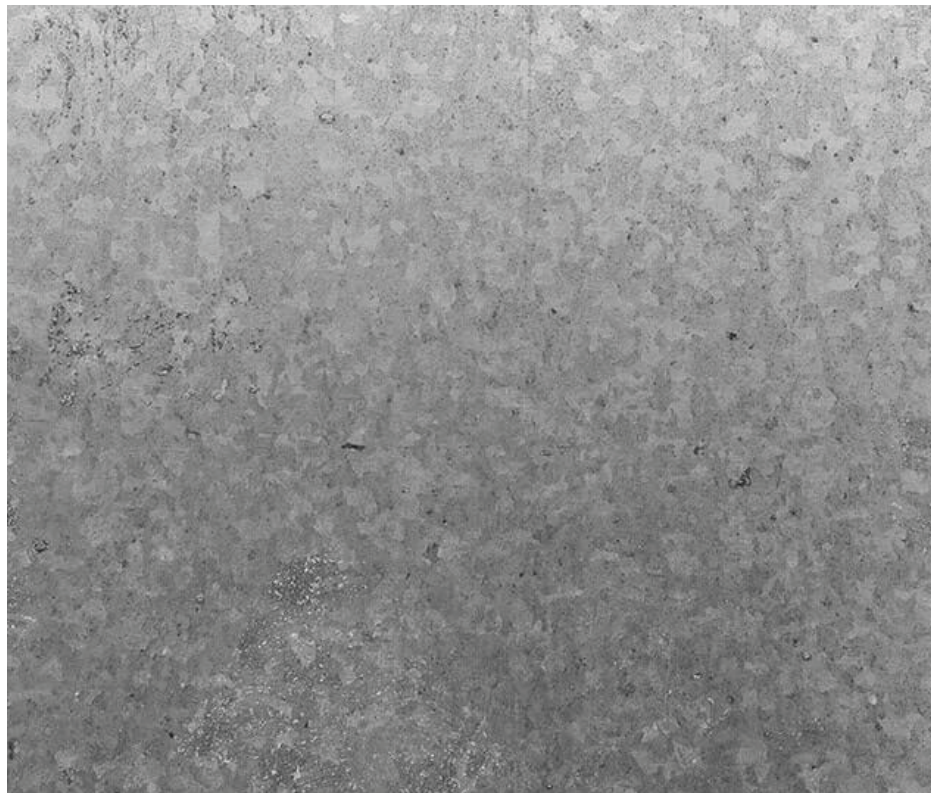


Abb. 2



A



B



C

Abb. 3

Abb. 3: Schutzplankenprofil: Typ A, B und C
Abb. 4: Leitplanke

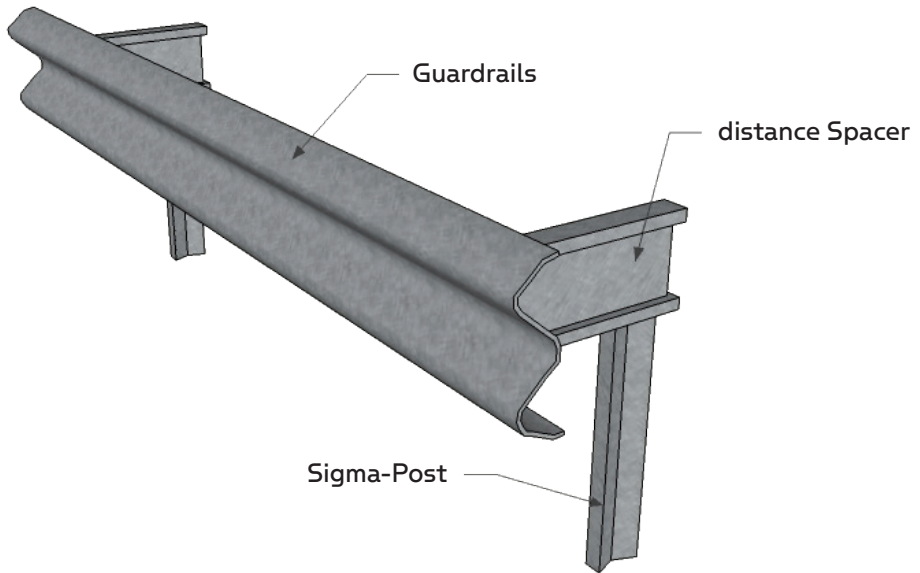


Abb. 4

Guardrail:

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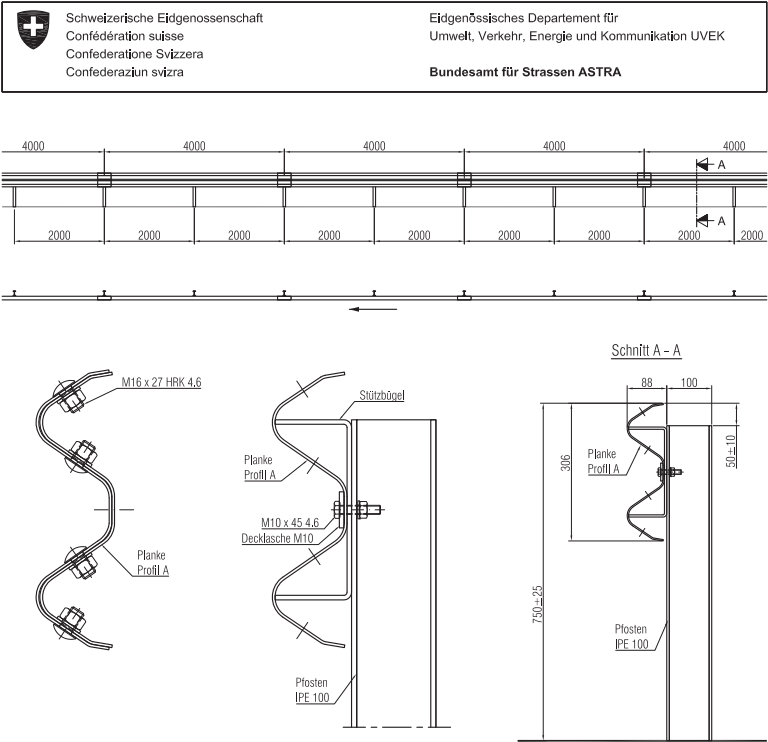


Abb. 5

Abb. 5: Fahrzeugrückhaltesystem
Abb. 6: Fahrzeugrückhaltesystem



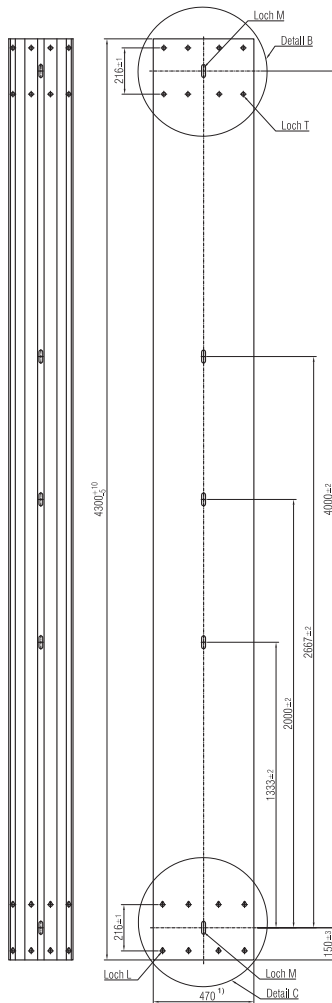
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Departement für
Umwelt, Verkehr, Energie und Kommunikation UVEK

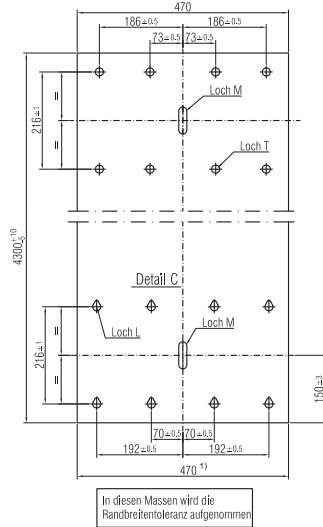
Bundesamt für Strassen ASTRA

Ansicht von A

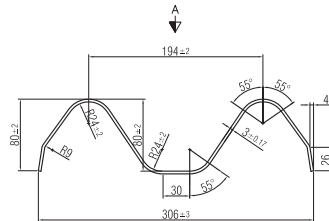
Abwicklung



Detail B



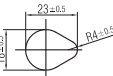
Querschnitt



Detail Loch T



Detail Loch L



Detail Loch M

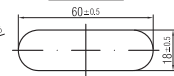


Abb. 6

12

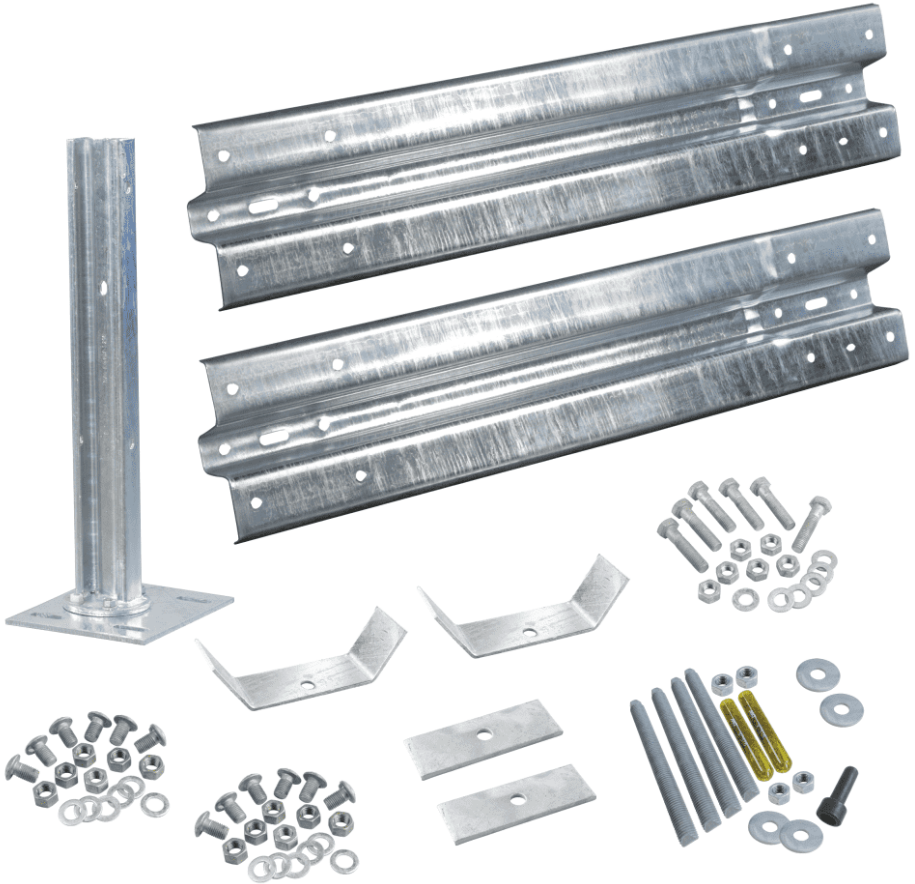


Abb. 7

Abb. 7: Einzelteile Fahrzeugrückhaltesystem
Abb. 8: Pfeiler - und Säulenschutz

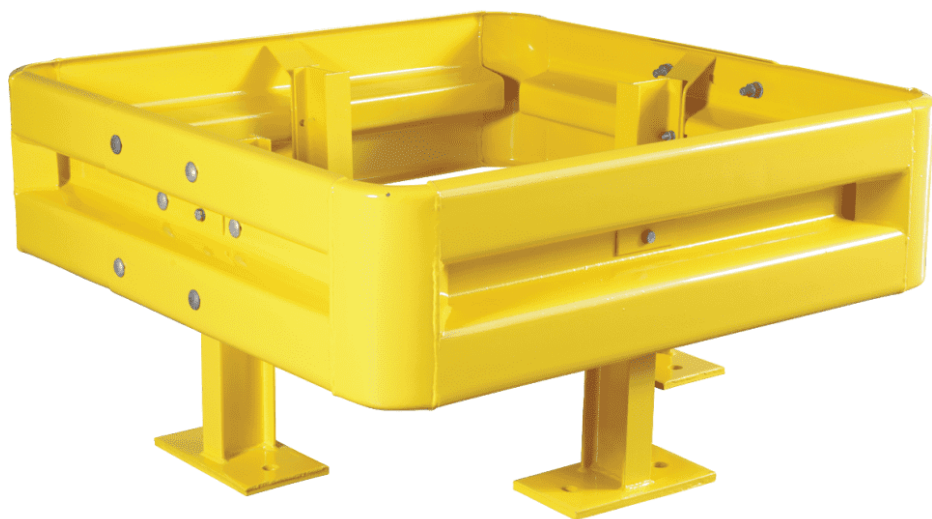


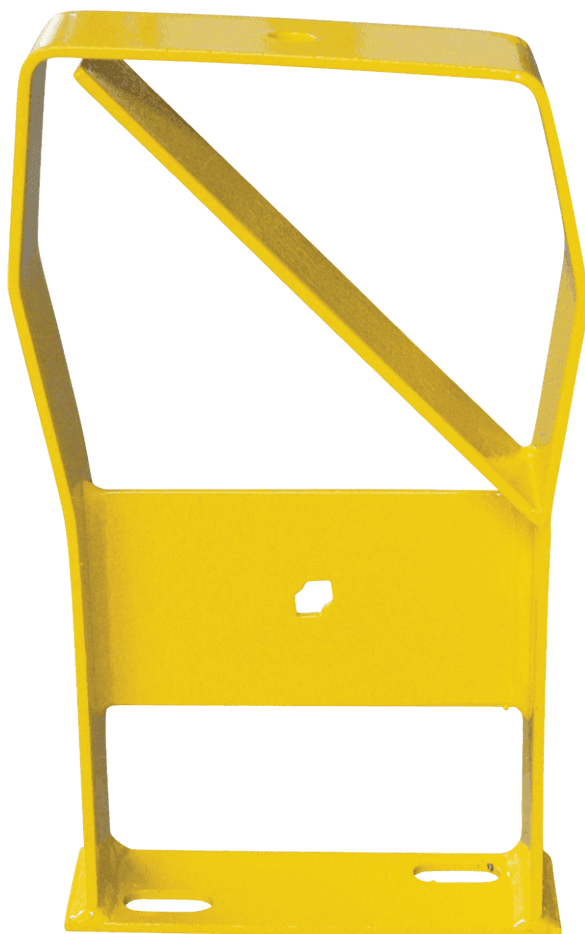
Abb. 8



14

Abb. 9

Abb. 9: Wandhalter 300 mm für Stahlschutzplanken
Abb. 10: Wandhalter 500 mm für Stahlschutzplanken



15

Abb. 10



Abb. 11

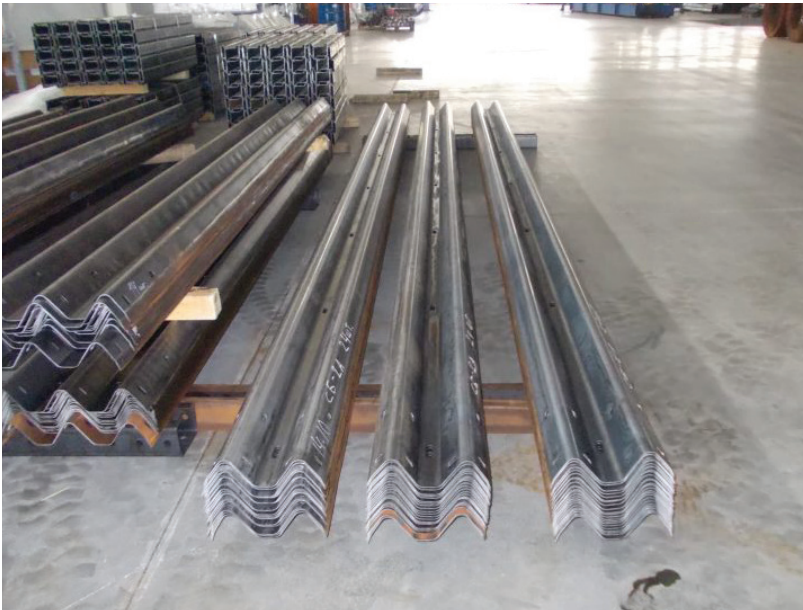


Abb. 12

Abb. 11: Profilieranlage Leitplanken

Abb. 12: Leitplanken roh

Abb. 13: Zinkbad

Abb. 14: Verfahren Feuerverzinkung



Abb. 13

17

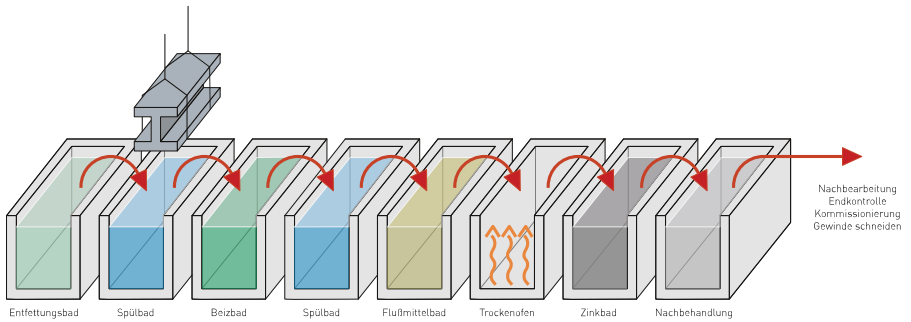


Abb. 14



Abb. 15

Abb. 15: Leitplanke korrodiert
Abb. 16: Leitplanke verbogen



Abb. 16

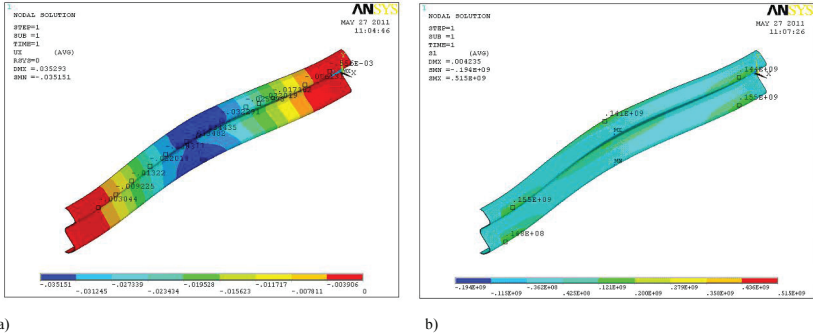


Fig. 13. Beams of the guardrail MS-A: a – deflections, b – stresses (our research)

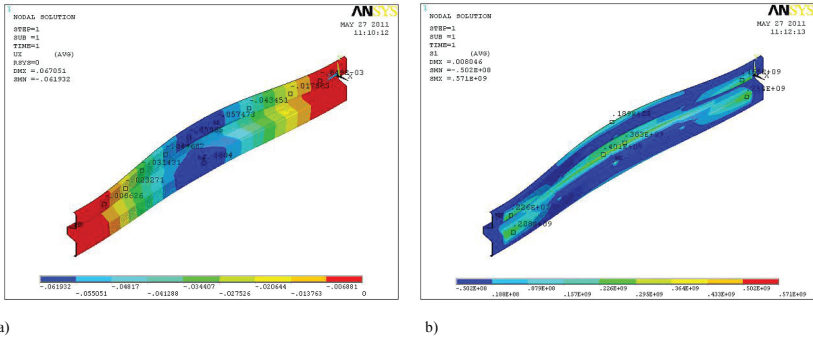


Fig. 14. Beams of the guardrail MS-B: a – deflections, b – stresses (our research)

Abb. 17

Abb. 17: Simulation Verformung nach Zusammenstoss
Abb. 18: Lager Leitplanken Firma Gysi Leitplanken



Abb. 18



Abb. 19

Abb. 19: Bauplatz Parkhaus Hauptbahnhof

Abb. 20: Bauplatz Parkhaus Hauptbahnhof



Abb. 20

24



Abb. 21

Abb. 21: Bauplatz Parkhaus Hauptbahnhof
Abb. 22: Bauplatz Parkhaus Hauptbahnhof



25

Abb. 22



Abb. 23

Abb. 23: Jacques Hondelatte, Des gratte-ciel dans la tête
Abb. 24: Andy Warhol, White Disaster, (Car Crash 19 Times)

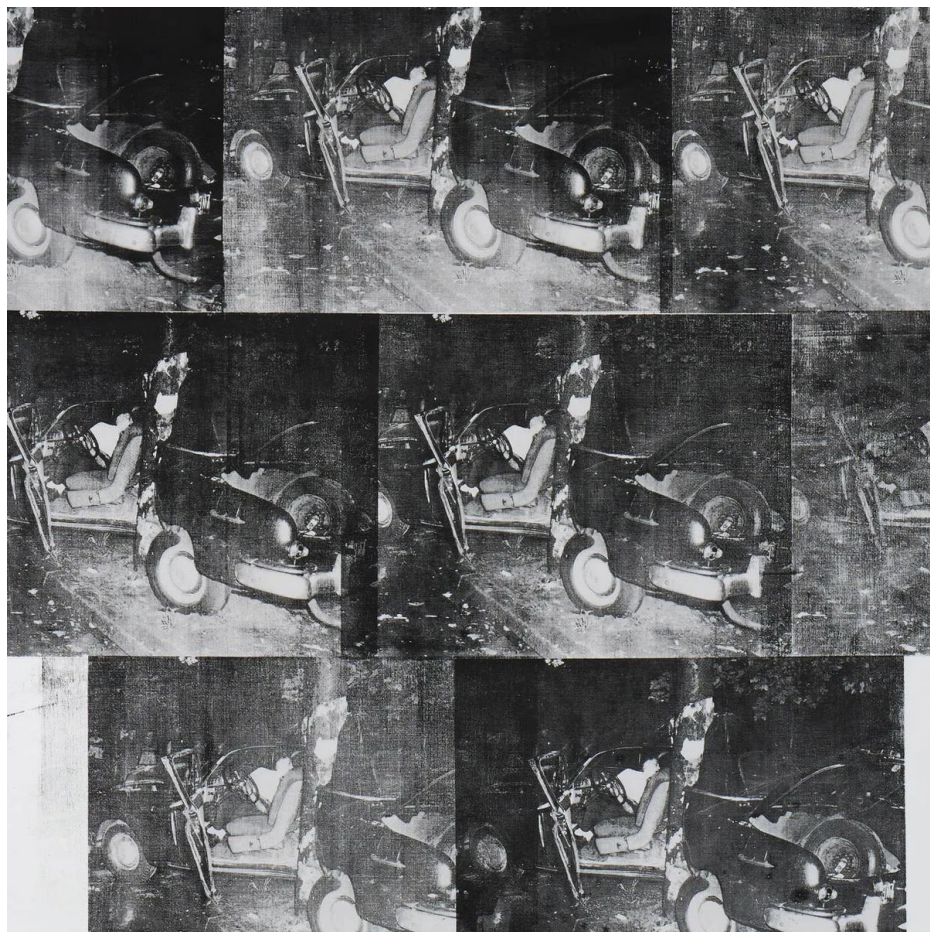


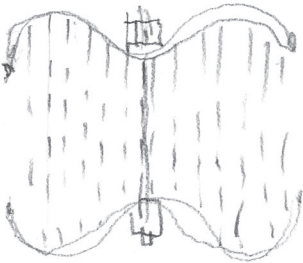
Abb. 24

ALGIES?

CA 4.3 METER



EARTH AND SPRAW?
LIGHTWEIGHT?



PILLAR?



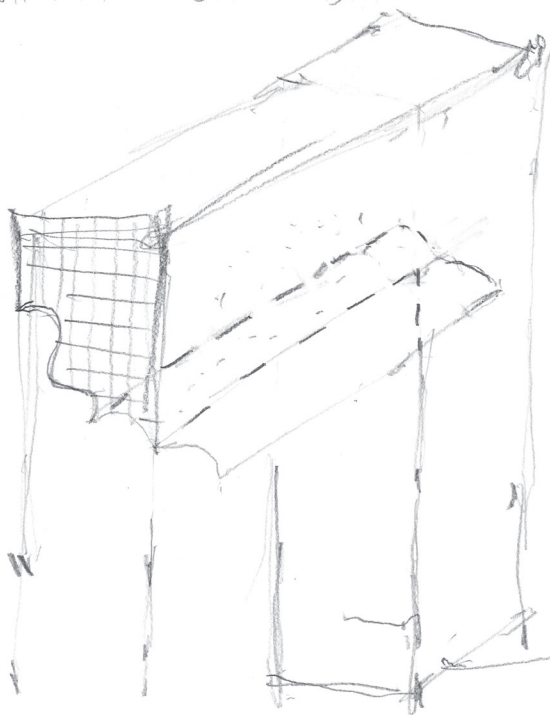
CONNECTION



CEILING

SYSTEM

GUARDRAIL CRASH BARRIER

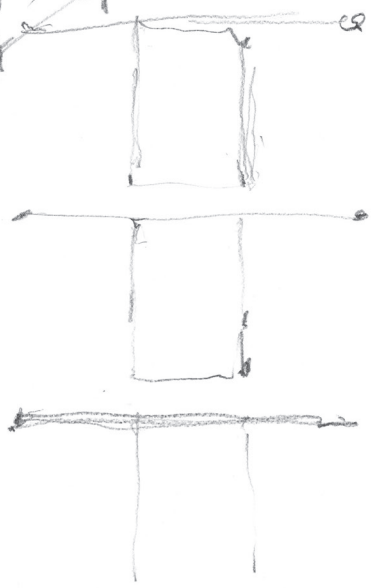


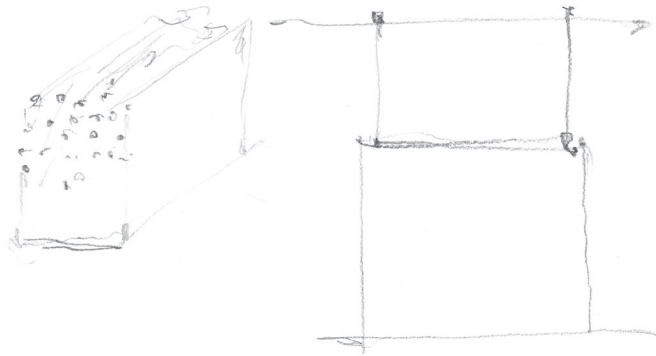
LINTEL?

PRESTRESSED?



CONSTRUCTION





CRASH BAYICK



BUMP

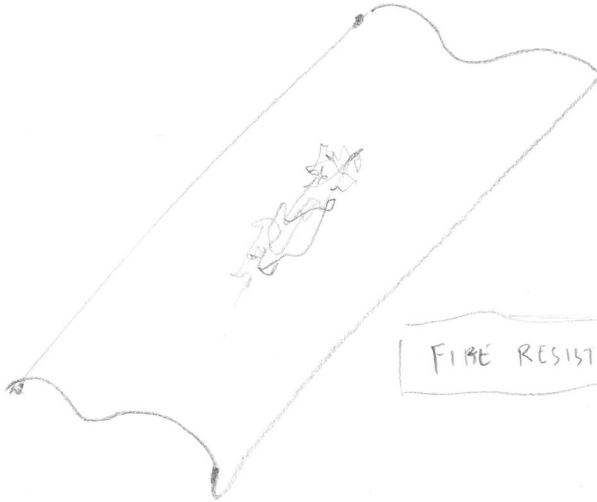
RUST

FORM WORK

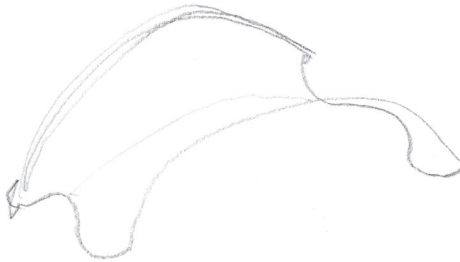
CAN RUST

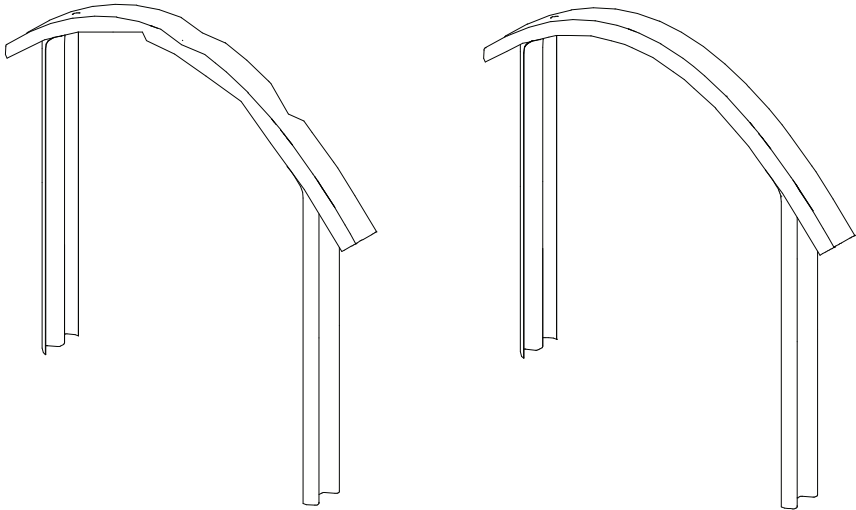
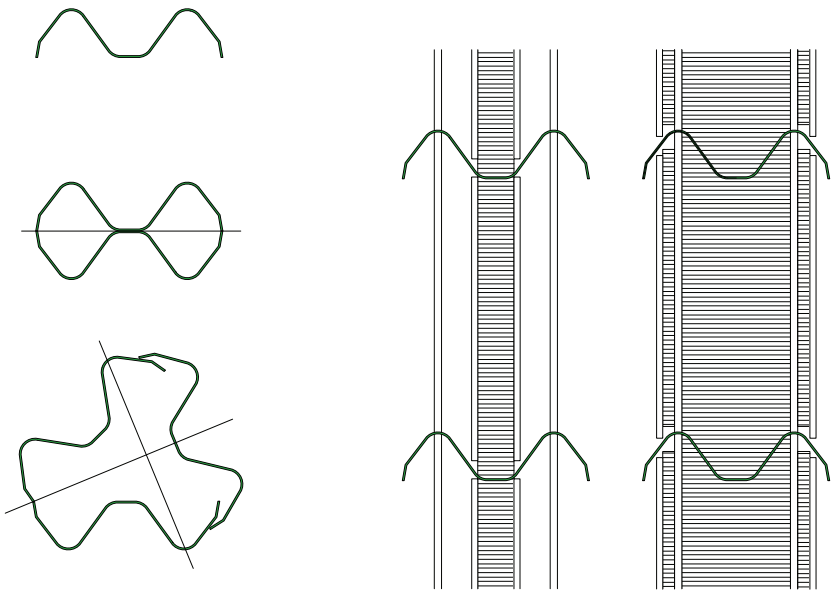
NOT NEEDED

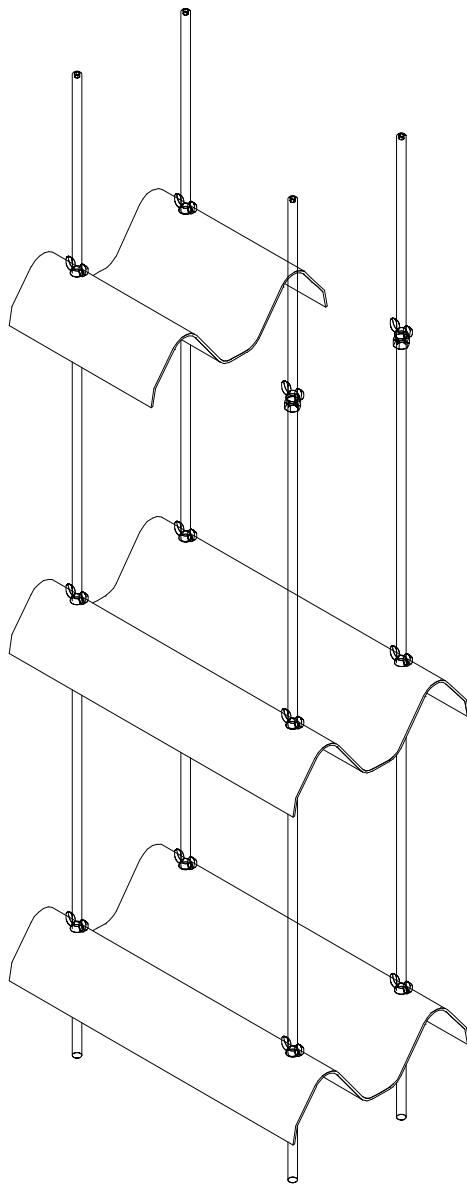
AS LOAD-BEARING
STRUCTURE

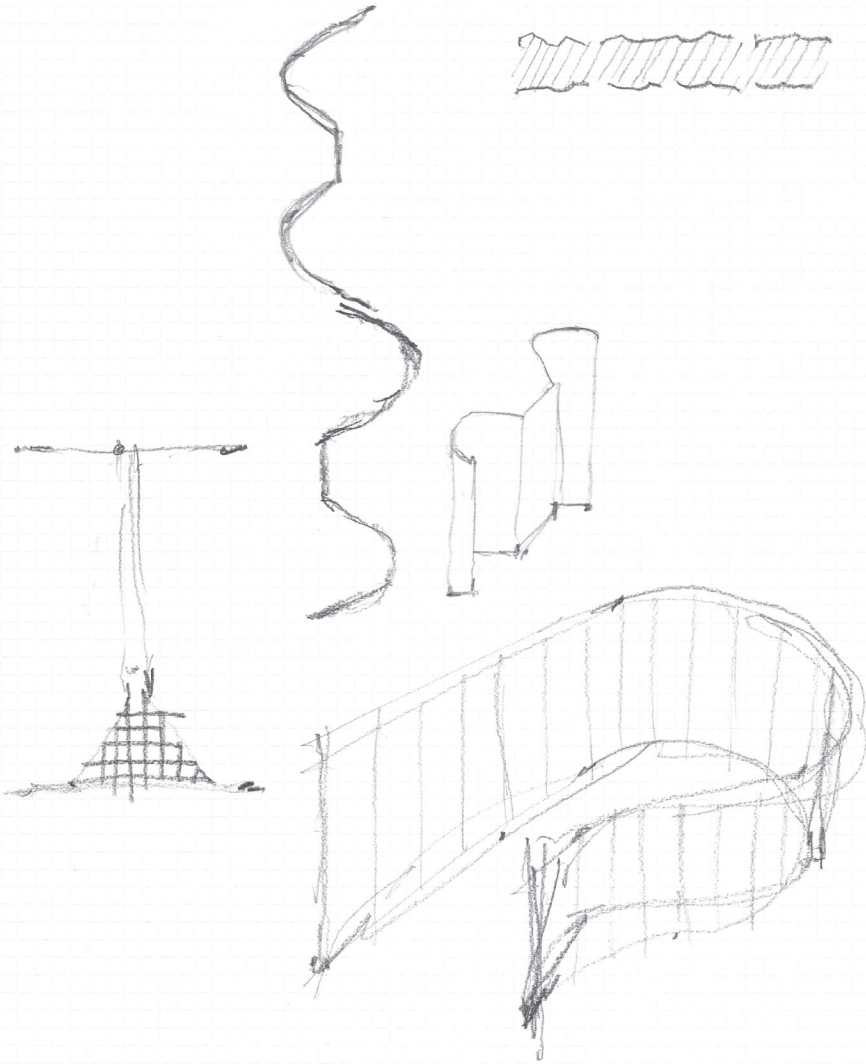


FIRE RESISTANCE

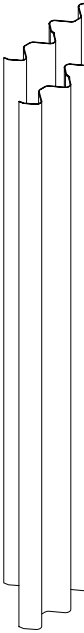
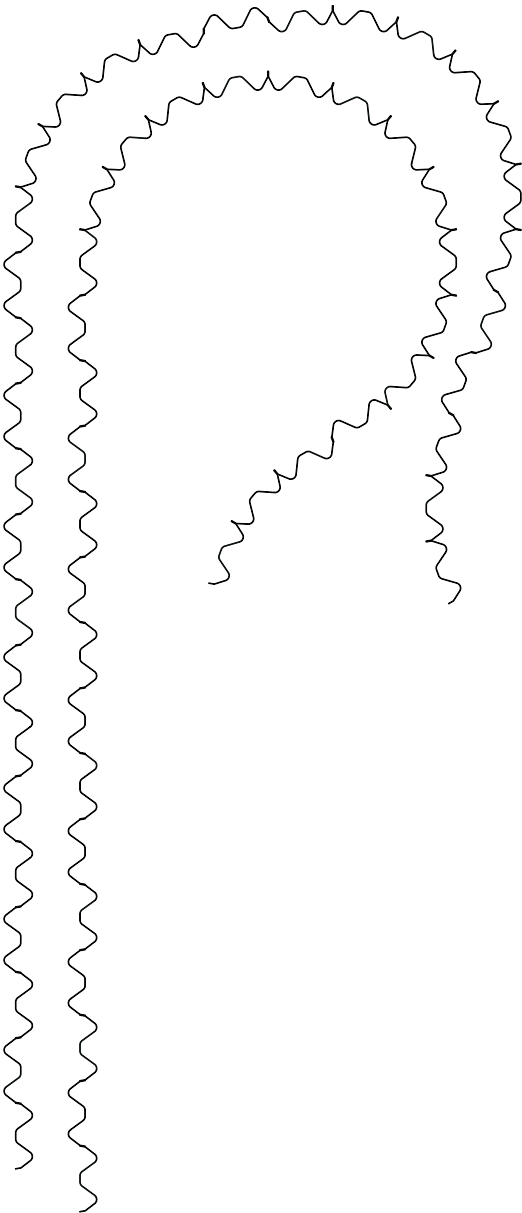


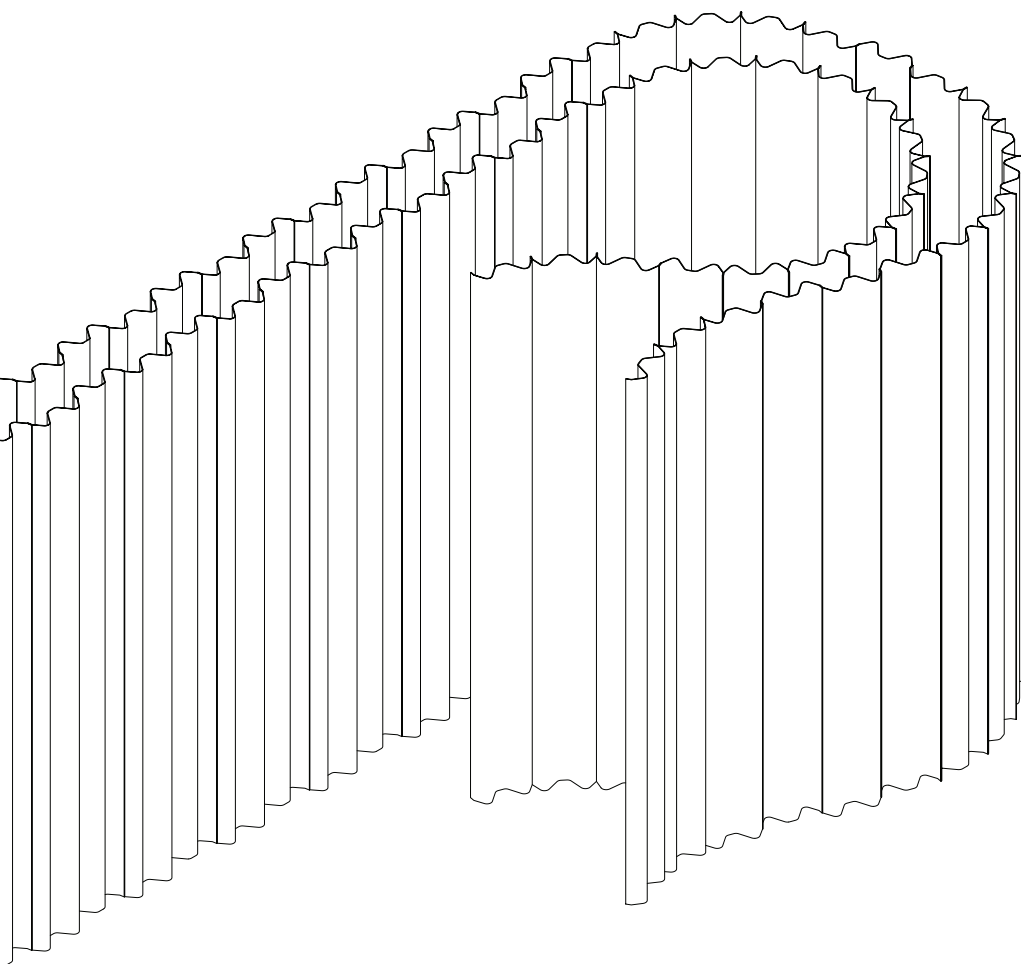


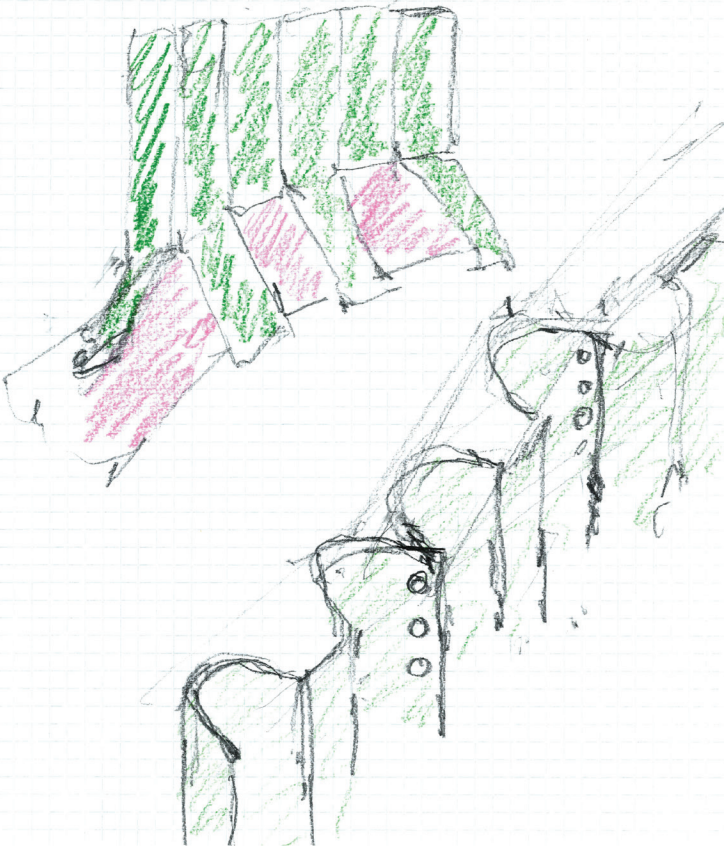
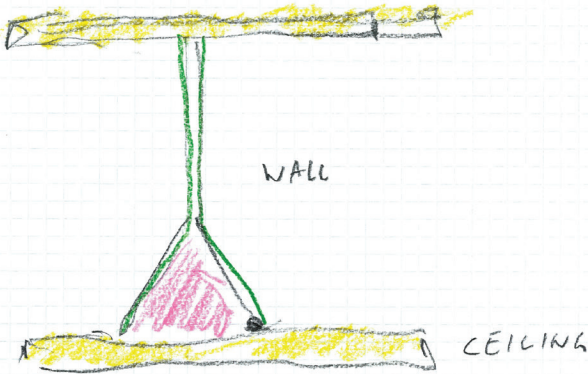


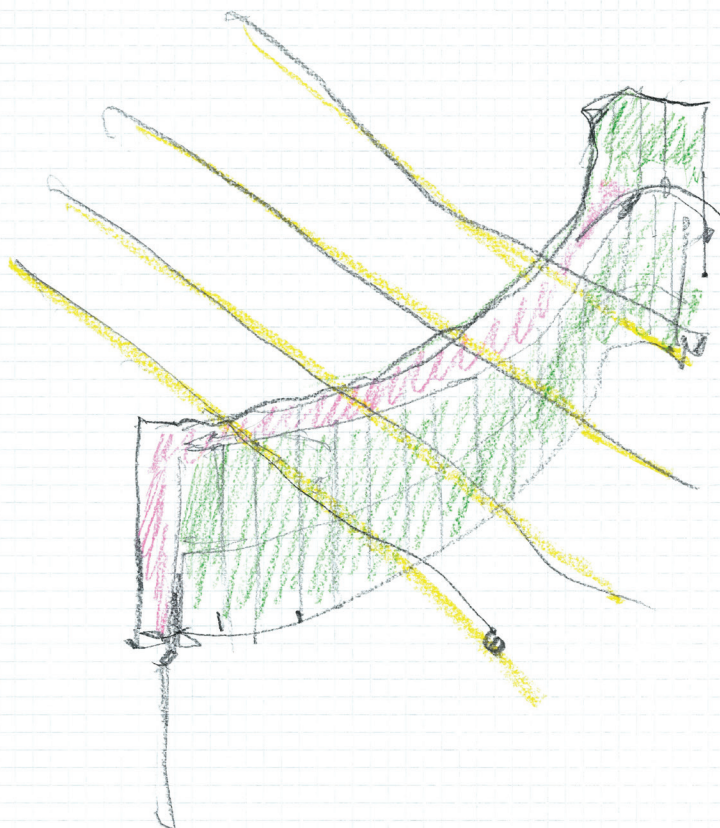












WOOD BEAM



GUARDRAIL



EARTH / CLAY





