

Performance text "electrohydraulic anti-RAM barriers"

Scope of application:

Drive-through barrier, for impact loads up to 550 KN. Computational verification and dynamic simulation according to *PAS68: 2013 Anti Ram Barrier V / 7500 (N2) /50/90:2.0/3.3* corresponding to 7,5to @ 50Km/h

Design type:

Extremely robust, electrohydraulic barrier system with a maximum opening moment of 10 KNm, consisting of TÜV model tested barrier with barrier housing, barrier boom adapter and barrier boom with integrated circumferential inner steel cable, and 2 abutments of welded steel plates for bolting to the steel concrete foundation.



Basic data:

Barrier width Up to 10 m

Barrier boom steel or aluminum profile, dimensions and dimensioning project-

specific, with internal circumferential steel cable

Blocking effect The impact load of up to 550 KN is initiated as a bending moment

into the abutments by means of a circumferential steel cable lying inside the barrier boom. So that the tensile forces can be safely induced into the abutment, 2 rigid locking bolts are located at the ends of the boom. The force effect arises only between the both abutments and the steel cable, so that in the event of a crash the barrier

drive is only lightly loaded.

Catching cable endless cable, diameter = 20mm, minimum breaking load = 55to

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Barrier height 0.8 to 1m from top of floor

Impact absorption > 723KJ

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PAS68 2013 Classification V / 7500 (N2) /50/902.0/3.3

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Opening time 8 to 15 sec. depending on barrier boom length and weight

-25 ° C to + 70 ° C Temperature range

Barrier frame stable welded steel construction fully galvanized and powder coated.

The base plate of the frame can be screwed directly onto the foun-

dation.

Barrier fork stable welded steel construction fully galvanized and powder coated.

Main shaft stainless steel, D = 60mm, 2-sided bearing in pedestal

housings and sealed deep groove ball bearings

Barrier drive Hydraulic cylinder with electric motor-driven hydraulic unit and 5

liter oil tank integrated as a compact unit into the barrier frame.

Drive motor three-phase motor, 2.2KW, 400 VAC, 50 Hz

Pump pressure adjustable up to 200 bars

D = 80mm, stroke = 300mm, nominal force = 65 KN, both end posi-Hydraulic cylinder

tions provided with adjustable damping, in addition with lowering

brake valve as safety in the event of sudden pressure drop.

Equipment Valve unit, filter, hand pump, hydraulic lines as screwed hose con-

nections

Emergency opening via manual pump and manual valve actuation

Stable construction made of 2mm stainless steel, powder-coated Barrier housing

(customer-specific) and bolted to the barrier frame. For maintenance

purposes, a simple disassembly is possible.

2 abutments Extremely robust welded construction of 10, 15 and 20mm steel

> plates, fully galvanized and powder coated. The abutment at the end of the barrier has a locking mechanism that prevents the boom from

bending upwards in the event of a crash.

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Control Programmable logic controller to control the required barrier and

interlock functions as well as the optional functions

- Control loop detector

- Light beam evaluation

- safety edge

- Key switch

- custom signal exchange

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