C E R T I F I C A T E

Welding of railway vehicles and components according to EN 15085-2:2020

SVS/15085/CL2/215/17/2

The Swiss Welding Association hereby certifies that the welding company

HAKAMA AG
Hauptstrasse 50
4112 Bättwil
Switzerland

fulfills the requirements
for the scope according to

EN 15085-2:2020 classification level CL2 in the type of activity P

in the range indicated in the annex.

validity: 2023-11-21 until 2026-11-20

Basel, 2023-11-20
Place and date of issue

Lead auditor: B.Sc. WILKE

Dr. Ing. SUTTER
Head of certification body

Scope of the certificate

Scope:

Welding process according to EN ISO 4063	Material group according to CEN ISO/TR 15608	Dimensions	Remarks
131	22.3	t = 1 - 4 mm	BW, partly mechanized
135	1.1 1.1/8.1 8.1	t = 1.4 - 4 mm t = 0.75 - 3 mm t = 1 - 3 mm	FW, partly mechanized BW, partly mechanized FW, partly mechanized
141	22.3 7.1 8.1 8.1 8.1 8.1	t = 1 - 4 mm t = 1 - 3 mm D ≥ 500 mm t = 0.6 - 2.4 mm D ≥ 10.6 mm t = 1 - 2 mm t = 1 - 3 mm t = 1.4 - 6 mm D ≥ 13.5 mm	BW/FW BW BW, (Tube) BW FW FW, t1= 1.4-4mm (Tube) mit t2= 2.1-6mm (Plate)
212	8.1	t = 1.5 mm	-
52	8.1 8.1 8.1	t = 0.8 - 3.6 mm t = 1 - 1.5 mm t = 1.6 - 2.4 mm	fully mechanized, Stitch seam t1=1mm with t2=3mm, s: 2-3mm, process:521 fully mechanized fully mechanized
786	8.1	t = 1.5 mm	M3, M8

Area of Application:
- New build of components for railway vehicles

Responsible welding coordinator(s): Manuel Hofer, Level B (IWS) born: 1982-09-04

1st deputy(ies) of the responsible welding coordinator(s): -

Others deputies: Markus Schütz, Level C (IWP) born: 1967-06-10

Remarks: "Small manufacturer with a single welding shop"

The welding coordinator Manuel Hofer is entitled to test welders / operators in accordance with the relevant standards within the scope of this certificate.

Register no.: SVS/15085/CL2/215/17/2

General provisions:
The General Terms and Conditions of the Swiss Welding Association apply in the currently valid version.