TECHNICAL DATA SHEET – COMBINED DIVIDING CURTAIN

1. COMBINED DIVIDING CURTAIN PRODUCT CODE: S07602

2. **KEY POINTS:**
   a. All system components (engine, driving axle, safety brakes, pulleys…) are incorporated into ALU truss construction.

   b. No need of additional roof brackets, subconstructions etc. ALU Truss can be fixed at any place to roof construction, roof brackets.

   c. Short time of final assembling/installation.

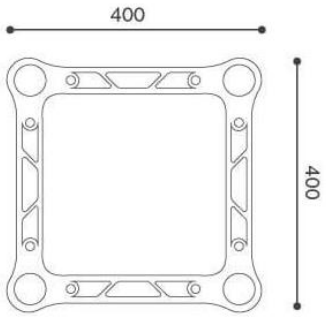
3. CARRIER STRUCTURE – ALUMINIUM TRUSS

The aluminium truss 40 x 40cm is produced exclusively in the twist resistant version and with a thicker aluminium profile compared to the other structures.

A good behaviour under application of more important concentrated and distributed load is granted also for longer spans. The resistance to twisting is improved thanks to the new diagonal tubes design.

This truss is specially designed for dividing curtains. It allows to cover areas of small and large dimensions giving the chance to apply loads and keeping a perfect behaviour of the structure. In the aluminium truss the driving shaft with drive mechanism (engine, axle, bearings, supports, safety brakes) is incorporated with fixation elements.

Installation of the aluminium truss is very easy and can be in different variations (under roof structure, suspended from the ceiling…).

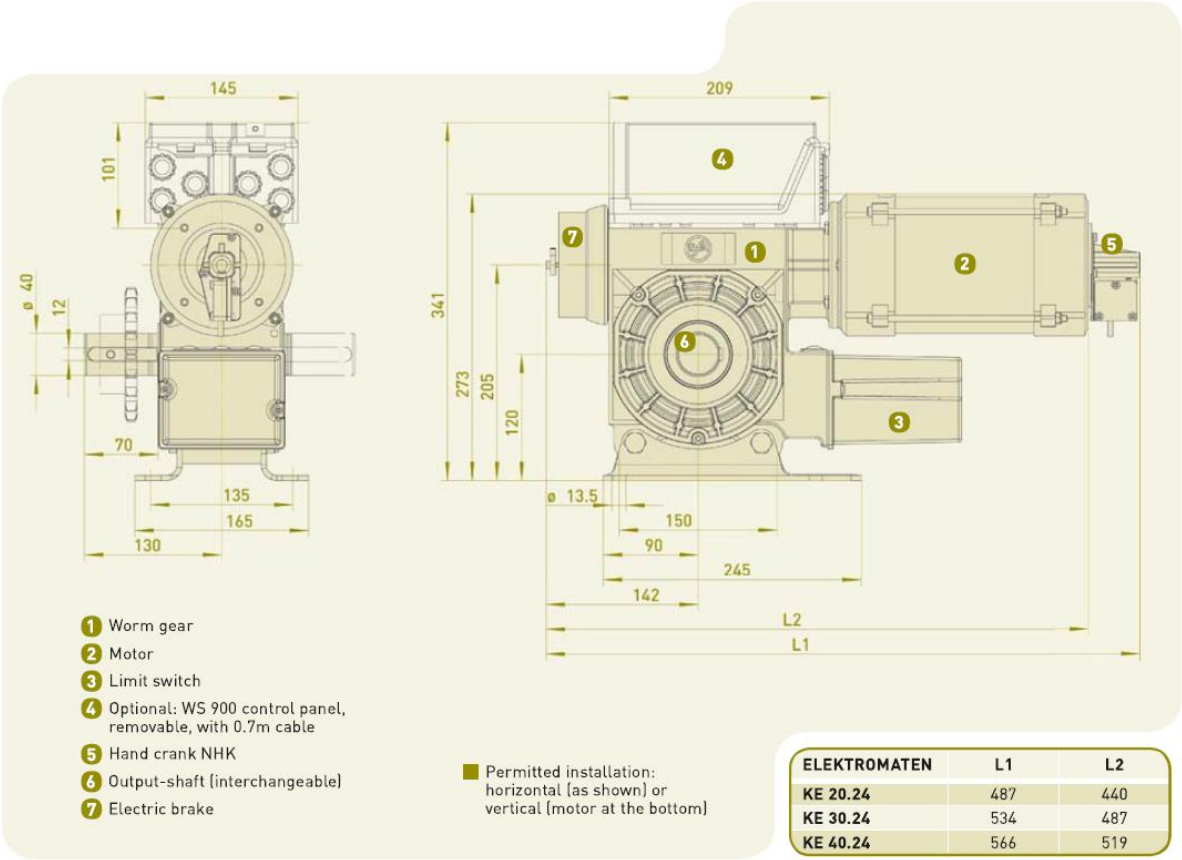


4. MOTOR / ENGINE

ELEKTROMATEN KE are special drives for COMBINED DIVIDING CURTAIN.

The engine is driven by directly from drive reducer shaft. Prevention of curtain falling back requires a safety brake of the appropriate size.

The engine consists of: worm gear, interchangeable output-shaft, emergency manual operator, integrated limit switches and electrical motor.



ELEKTROMATEN	L1	L2
KE 20.24	487	440
KE 30.24	534	487
KE 40.24	566	519

5. SAFETY BRAKE

Compact design with the same outer dimensions for all sizes. Visual indication of the triggering mechanism provided by a plunger (operating and braking position)

Maintenance-free and self-controlling.

Max. operating speed OPEN up to 45 rpm . Switch for safety circuit in protection class IP65.

Floating foot for horizontal installation. Dependent on the direction of rotation.

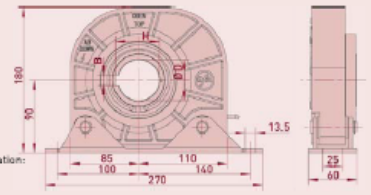
Function:
Locking catch and locking wheel (triggering mechanism) trigger the braking action if the max. operation speed is exceeded. The special tooth geometry of the ratchet wheel reduces reaction time and thus the braking distance. The structure is only subject to extremely low braking moments.

Technical data

Safety brake		FG 40-30	FG 80-40	FG 120-50
Max. torque	Nm	400	800	1200
Max. operation speed	rpm	24	24	24
Hollow-shaft Ø	mm	30	40	50
Locking torque [1]	Nm	1150	2260	3530
Safety brake (approval number)		TorFV 3 / 009	TorFV 3 / 009	TorFV 3 / 009
Temperature range	°C	-20 / +60	-20 / +60	-20 / +60
Protection class	IP	65	65	65
Weight	kg	3,5	3,5	3,5
Part no. installation drawing (dxf, dwg)		50000724	50000724	50000724
Part no. safety brake Part no. safety brake (ATEX-T3)		10002270.00001 10002532.00001	10002271.00001 10002533.00001	10002272.00001 10002534.00001

1 Please refer to note in section 4.2

Dimensions



■ Permitted position of installation: Horizontal (as shown), observe direction of rotation

Safety brake	Ø D	B	H
FG 40-30	30	8	33,3
FG 80-40	40	12	43,3
FG 120-50	50	14	53,8

6. DRIVING SHAFT WITH WINDING SYSTEM

All the parts of the driving shaft with winding system are incorporated within the carier structure (aluminium truss).

Complete modular system consists of:

Motor cage, Motor brackets, Screws U-shape, Motor screws, Hooks J-shape, Roof brackets, Winding discs, Cotter pins, Support axles, Bearing and brake screws, Bearing and brake brackets, Brake brackets, Bearings, Brake screws, Motor tubes, Brake tubes, Clamp + cylindrical pin, Taper protection, Dowels, Side and main blockers, Middle and side triangle, Belts, Rivet pipes, PVC plugs, Triangle pipes.

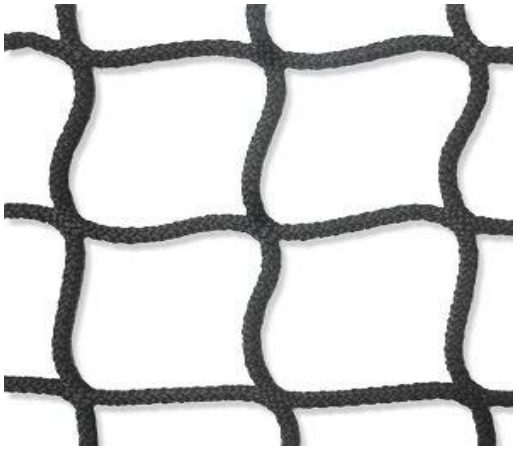
After making contract the client gets official ASSEMBLY INSTRUCTIONS with technical specifications and 3-D pictures.

7. NET

Our special net combines the latest weave technology with the usual high quality to make a material with a “unique” surface and outstanding technical properties. Perfect rolling characteristics are guaranteed. The low elongation levels on side elements under slight tension make this product range into an product with great characteristics.

Material properties:

Polypropylene net made of mesh size 100×100 mm, or 4 mm, UV resistant.



Possible colour of net:

- Black
- White

8. PVC

Our special PVC combines the latest weave technology with the usual high coating quality to make a material with a “unique” surface and outstanding technical properties. Perfect rolling characteristics is guaranteed. The low elongation levels on side elements under slight tension make this product range into a product with universal uses.

Material properties:

- Flame retardant
- Optimum rolling characteristics
- High wind stability
- Bend resistant

Colours:

- Grey
- Beige

Technical characteristics

Type of coating: PVC
Finish: Textured surface
Flame retardancy: B1
Total weight: 1200gr/m2

Bottom part of the curtain made from double layer PVC for better acoustic characteristics and prevent two players from hitting (one from one side of the hall one from the other)

9. STATIC CALCULATION

Complete system is made in accordance with technical regulations and standards. We declare that we have taken into account the following technical regulations and standards:

EN DIN 18032-4:2002

Eurocodes:

SIST EN 1990:2004 Eurocode – Basics of project design
Eurocode 1 – Actions on structures
Eurocode 3 – Design of steel structures
Eurocode 9 – Design of aluminium structures
After making contract the client gets official STATEMENT OF COMPLIANCE with technical

regulations and standards for the chosen product. Before contract we can send sample of static calculation from previous projects.

Static calculation document consists of:

Compliance statement
Technical report
Statical calculation

10. APPROVALS AND CERTIFICATES

Aluminium truss:

Aluminium truss is approved by the European Economic Area (EEA) with CE certificate which marks a certification that marks and indicates the conformity with health, safety and environmental protection standards for products sold within the EEA.

Motor/Engine:

Type test according to:

DIN EN 12453 DIN EN 60335-1
DIN EN 60335-2-103
TÜV NORD CERT GmbH

Safety/brake:

Certificate of conformity to DIN EN 12604 / 12605
Certificate no.: TorFV 3/009
Test report: 24034382

11. WARRANTY

2-year warranty on motor/engine and safety brake

5-year on whole structure (aluminium truss and winding system)

12. VISUALIZATION OF THE SYSTEM