Specification NSHEV

Project data

Name	Muuga Sadam, Peahoone, Maardu tn 57, Muuga	Company	Euro Vent Est OÜ
Date of generation	1/15/26	Order number	
Location of the project	Estonia	CPR-Number	1368-CPR-C-7112
Editor	Albert Dubnitski	Type designation	FES RE 974 1582 - KA 24V
Description		Window name	SEA
		Building area	SE TRx - L
		Quantity	2
		Position no.	DH-016540-1

Entered values

SASH REQUIREMENTS

Material	Aluminium
Area of use	Facade
Angle of installation	90 °
Opening direction	outward
Opening type	Bottom-hung vent
Mounting type	punched window (depth of embrasure = 0 mm)
Sash width	974 mm
Sash height	1582 mm
Total glass thickness	16 mm

Minimum glass thickness of single pane 6 mm, for fire source-facing side of toughened/laminated glass, insulated glass

Sash weight	62 kg
Opening stroke	800 mm
Wind load	1500 Pa

PROFILE DEFINITION

System	Reynaers
Series	CS 77
Sash profile	008.1051.XX
Frame profile	008.3183.XX
Exchange profile	008.3101.XX

DRIVE REQUIREMENTS

Drive position	Side opposite the hinge
Distance to hinge	1582 mm
Number of drives	1
Drive type	Chain drive

PERFORMANCE CLASSES EN 12101-2

Aerodynamic opening area (annex B):

Without crosswind and without wind deflectors.

Classification of functional safety (annex C):

Re1000 + Le10.000

Low ambient temperature (annex E):

T(-15)

Wind load classification (annex F)

1500 Pa

Classification of heat resistance (annex G)

B_{300} *30-E*

Specification NSHEV

Calculated results

RESULT AERODYNAMIC CALCULATION

Clear sash width	914 mm
Clear sash height	1522 mm
Geometric reference surface acc. to EN 12101-2 (Av)	1.391 m²
Clear sash width/Clear sash height	0.601
Opening angle	30.00 °
Cv value at angle 30 °	0.376
Aerodynamic cross section per window (A_a)	0.523 m²
Entire aerodynamic cross section (2x A_a)	1.046 m²

REQUIRED PERFORMANCE

Max. req. force of pressure	0 N
Max. force of pressure at stroke	0 mm
Max. req. tensile force	153 N
Max. tensile force at stroke	800 mm
Max. req. locking pressure (at 0 mm stroke)	1156 N
Holding force at stroke	153 N
Nominal locking force of the drives	1500 N

Products

DRIVE

Appropriate

Drive type	Chain drive
Label	CDC-0252-0800-1-ACB
Amount of drives per SHEV	1
Entire amount	2

BRACKET SET CHAIN DRIVE

Label	BS-CDC-PA01-M-VFO
Article number	26.800.03
Space requirements sash profile	20 mm
Space requirements frame profile	42 mm
Amount of console sets per SHEV	1
Entire amount	2

Notes: The specified profiles and drives must be coordinated and checked with regard to the connection of the NRWG to the building structure and with the project and execution drawings of the architect/metal and window construction company for technical feasibility. Only tested seals may be used. The operating and installation instructions as well as the application drawings of the brackets and drives of D+H Mechatronic AG must be observed and complied with. The manufacturer of the NRWG must have a valid certificate of performance constancy for the product. Please ensure certification. Without a CPR number, the calculated NRWG is not valid (see top left on the NRWG specification). The specified CPR number indicates a certified performance range, which must cover the calculated values of the NRWG position; otherwise, there is no valid EN-12101-2 solution (no conformity with the specified standard). The parameters listed above are based on tests carried out and passed by D+H Mechatronic AG in the individual classifications of DIN EN-12101-2. The processing guidelines of the various profile system, fitting, scissor, and glass manufacturers must be strictly observed and followed! The design and planning of NRWG are carried out in accordance with national requirements (e.g. Germany: DIN 18232, Part 2).