

Carpentry Specifications



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4. Building component specifications

The building component-ID, title for the building component specifications

Each building component comprises the following points:

- Scope and location
- Reference to drawings
- Adjacent and adjoining components
- Design
- Materials and products
- Execution of works
- Surfaces
- Samples
- Control
- The work environment

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2. Scope

2.1. General information

The work comprises the building components and other services stated in point 2.2, which are described in more detail in the work specifications or in the drawings.

In addition, the work comprises the stipulations in the Case Specifications and any services required in tender forms, for example extra work or omissions that can be connected to the current works.

2.2. Building components

The work comprises all works and deliveries that are necessary for the full completion of building components.

The work encompasses the following building components:

- New roof construction,
- new penthouse walls construction,
- terrace,
- non-load carrying external wall,
- new windows and doors,
- bay windows,
- fixed furniture,
- internal dry lined walls,
- suspended ceilings

The following components, delivered by the employer/other contractor, is mounted as part of the current works:

- Metal studs,
- channels,
- angles,
- brackets and associated components,
- screws
- balcony construction
- stainless steel rails

The following components, delivered by the employer/other contractor, are mounted as part of the current works:

The Electrical work trade deliver and mount following components in internal and external walls:

- Electrical boxes and conduit pipes acc. To drw. No. xxxxxxxx.

Plumber work trade deliver and install following:

- Sanitary fittings for water armature

Ventilation installation in the suspended ceiling

Downpipes in the walls

2.3. Design and detail design

The new exterior wall detail- fixture of the fibre cement cladding panels on the façade

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2.4. The building site

See Case Specifications chapter 4

2.5 Health and Safety

See Case specifications chapter 4 and 5

2.6 The surrounding environment

See Case Specification chapter 5

2.7. Quality Assurance

2.7.1. General information

See case specification chapter 7

2.7.2. Documentation of quality

See case specification chapter 7

See tender control plan

2.7.3. O&M (Operation and Maintenance)-documentation

The following documentation for the work's quality must be delivered:

See case specification chapter 7.4.3.

2.8. Planning and scheduling of work

Contractor must be participating in elaboration of a detailed time schedule

Contractor must be in cooperation with other contractors

2.9. Samples

If relevant and better (decided by the client) products is found; samples may have to be done.

3. General Specifications

3.1. Reference

3.1.1. Norms and standards

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The norms and standards mentioned below, in their latest editions and with any enclosures are valid for the works - - with any amendments, additions and omissions that are stated in these work specifications and on the drawings.

The notes and directions, etc. stated in the references are to be construed as requirements that only can be deviated from if they are stated in these work specifications and/or on the drawings, or agreed with the project management.

- DS 1003 - Modular sizes for windows 1982
- DS 1028.3 Interior doors - Door leaves 1983
- DS 1126.1 Joints in building – Terminology 1983
- DS 1132-1 Walls - Testing resistance to hard body impact 1988
- DS 1134 Outer doors and window frames - Surfaces adjacent to walls 1987
- DS 1065-2- fire technical classifications. Cladding. Class 1 and class 2 cladding 1990
- DS 1109- glue laminated constructions. Production and control 1979

3.1.2. Directions/instructions

Where the directions, reports and other documents in their latest edition, with any enclosures and together with the project documents, are made valid for the works, the stated recommendations, directions, procedures, advice, etc, must be construed as demands.

3.2 Materials and products

The required documentation for the materials and products used, for example in the form of product certificates, receipts, etc., must be presented for the project management for their approval.

The following materials and products must not be delivered onto the building site before the project management's documentation for them are available:

- Steel studs and tracks
- Fire resistant slabs
Material must be limited combustibility- must fulfill Building Regulations and supporting documentation requirements to provide 15min period of fire resistance.
- Insulation
Insulation must have a thermal conductivity at $\lambda_p=0.34\text{W/mK}$. It must be of a non-combustible material.
- Screws
Screws must at least be of quality 4.6 according to DS/EN 20898-1 and 6.5.5, 7.3.3, 4, and 5
- Brackets
Brackets must be at least an anti-corrosive

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Materials and products of specific brands can be prescribed for the works. Other product brands can be used if they are on the same footing as the ones prescribed. Documentation for this must be presented to the project management.

3.3 Execution of works

Done constructions placing and measures has to (where nothing else is mentioned in the project) follow these given tolerances:

Main measures/ levels: +/- 10mm

Holes for windows and doors: +5/-0 mm

3.4. Control

The following Tender Control Plan must be worked into the contractor's Control Plan.

If faults or mistakes are found in the inspections that have been executed within a control section the contractor must rectify that in the time limit given by project manager.

And inspection brought up to 100%.

3.5 Relation to other works

The steel supporting construction, demolition works, new balcony fixtures must be done before work on the new external walls is commenced.

3.6. Work environment

See Case specifications chapter 4 and 5.

4. Building Component Specifications

Building Component ID, the title for the building component specifications

South façade non-load carrying external wall

- **Extent and location**

The work comprises delivery of materials and execution. All wall components installation, balconies, windows and doors, sunscreen fixture finishing.

- **References to drawings**

- Situation plan
- 1st floor plan
- 2nd floor plan
- 3rd floor plan

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- 4th floor plan
- Facade drawing
- Cross Section
- Detail of wall connection with window
- Detail of balcony connection

- **Adjoining building components**
- New wall construction is mounted.
- Windows and doors are mounted.
- Electrical installations are installed by other contractor.

- **Materials and products**
 - Studs and tracks-195x50mm of steel
 - Z profile- 25 and 100 mm
 - Insulation- 195mm and 100 mm thickness with $\lambda=0,034\text{W/mK}$
 - Fire resistant slabs- 15,4mm 15min fire resistant
 - Gypsum boards- 13mm
 - Hydro wind boards- 13mm, water proof
 - DMP- 0.2mm
 - Brackets- anti-corrosive
 - Screws- at least of quality 4.6 according to DS/EN 20898-1 and 6.5.5, 7.3.3, 4, and 5

- **Execution**

All demands for the execution of the work in sub section 3.1.1

C profile tracks are fixed to existing concrete slab.

Starting from the basement wall C profile tracks are aligned all the way up. No tolerance in vertical, C profile studs and tracks, construction is allowed. Vertical lines or laser must be used to have straight wall construction. It is not allowed to use steel structure for aligning because of tolerance (+/-10mm for steel aligning)

C profile studs are fixed to tracks using special brackets and screws.

- **Surfaces**

Demands to surfaces – with reference to specifications in chap 3

- **Tests and samples**

See sub section 3.4

- **Quality Control**

See sub section 3.4

- **Work Environment**

See subsection 3.6