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## **Description of construction article chapter 4.9 and 4.10**

# TRIPLAN LITE®

## A complete glazed partitioning system

- Glazed walls in same minimalistic design for walls with requirements for high sound insulation and fire resistance
- Fire classification from EW30 to EI60
- Sound classification up to 50 dB Rw
- New glazed door solution with an option for individual design

Find more details on TRIPLAN LITE® and Triplan's other products at [www.triplan.net](http://www.triplan.net).

## Application



This description is made available for architects and engineers as inspiration and help in connection with working out specifications for tenders and descriptions where TRIPLAN products are found desirable.

The text is written in such a way that it can be inserted into tenders where product- and manufacturer names are allowed to be mentioned.

The structure in the description follows the description as per the norm issued by the organization BIPS (Molio) version B1.000 at the level of construction articles and must be regarded as a gross list regarding the scope that can be included in the description of the construction article. The user may freely copy and modify the text and scope in order to adapt the text to the relevant requirement.

The use of the symbols '<' and '>' in the text mean that the user must evaluate the text that is written within the symbols and adapt it for the relevant project. It should be remarked that a listing within these symbols separated by a semicolon (;) define the actual possibilities for selections in the current situation.

Please note that all text and data contained in this tender description is made available without any responsibility from TRIPLAN's side. The text must be regarded as a guidance and inspiration and must be adjusted and quality proved in relation to the relevant project and should also be adjusted to correspond to the relevant legislation for this sector.

## 4.9 Materials and products

### System

Glazed partitioning system consisting of glasses without horizontal junctions, fixed in U-shaped aluminium runners towards ceiling, floor and adjoining walls, including doorframes in aluminium or steel, including door leaves.

### The periphery of the partition (adjoining to other building areas)

The glazed partitioning is finished at head, base and vertical junctions towards other surfaces using U shaped aluminium runners with adhesive acoustic tape for sound insulation. The runners are fitted direct on adjoining walls without a joint.

All runners must be 30 mm tall.

*Optionally 40 or 60 mm tall head runners for higher tolerances or telescopic function.*

The section surface is <natural anodized; white RAL 9010; black RAL 9005; optional RAL colour>

The glass is fixed at base, head and sides using black rubber gaskets. The gaskets are fitted on both sides of the glass. The gaskets must be designed in a thickness to suit the chosen type of glass and must be shaped with grooves that click into the runners to ensure that the gaskets are fitted evenly without "waves".

### Glass types

Clear glass in safety class as per the type of construction and type of use and in accordance with demands to fire and sound reduction as stipulated for the relevant project.

### Door types

Glazed doors, framed glazed doors, wooden doors in dimensions that meet fire- and sound classification as per plans, elevations and door schedule. Ironmongery as per description.

### 4.9.1 TRIPLAN LITE® 34-43 dB

#### 4.9.1.1 Glass

Glass is <clear; matt; colour xx> with polished edges.

Glass junctions are carried out using a 2 mm clear adhesive tape.

Glasses are joined in corners as <butt joined; mitred> using a 2 mm clear adhesive tape.

#### 4.9.1.2 Doorframes

Maximum <52x52; 52x75> mm doorframe in aluminium with an acoustic gasket.

Strike plate must be suitable for the selected door and must be flush with the doorframe.

Section surface is <natural anodized; white RAL 9010; black RAL 9005; optional RAL-colour>

#### 4.9.1.3 Door leaves

- 4.9.1.3.1 47 mm glazed door with 2 layers of glass and with a glazed surface and aluminium frame. The glass surface is <clear glass with 60 mm matted edge; glass in a colour as specified in the project>. Matted edge is <white Ral 9010; black Ral 9005; Ral 9006; optional Ral-colour> The lock case is a slim lockcase such as Assa Abloy Connect 220/212 or as specified in the project. Doors are fitted with Assa Abloy 3228 pin hinges. Door width as per the project and door height is <M21; M21 with overpanel; special height; full height>
- 4.9.1.3.2 <10; 12 mm> <hardened; hardened and laminated> glazed door. Glass is <clear; matt; colour xx> Lock case is Triplan standard 565 in stainless steel <with; without> opening for cylinder and hinges are in steel or aluminium. Door width as per the project and door height is <M21; special height; fullheight>
- 4.9.1.3.3 <40; 62> mm solid wooden door. Doors are with surface <painted in an NCS-colour as per the project; veneer as per the project> Lock case is Assa Abloy 565 or as per the project's specification of ironmongery and doors are with pin hinges. Door width as per the project and door height is <M21; M21 with overpanel; special height; fullheight>

## **4.9.2 TRIPLAN LITE® 46-50 dB**

### 4.9.2.1 Glass

Glass is <clear; matt; colour xx> 2-layer isolation glass with polished edges.  
Glass junctions are with <35 mm aluminium transom; 5 mm black wet sealant>  
Glasses are joined in corners with an aluminium corner section of max. 72x72 mm.

### 4.9.2.2 Doorframes

Max. 52x75 mm doorframe in aluminium with an acoustic gasket.  
Strike plate must match the chosen doorleaf and be flush with the doorframe.  
Frame surface is <natural anodized; white Ral 9010; black Ral 9005; optional Ral-colour>

### 4.9.2.3 Doorleaves

- 4.9.2.3.1 47 mm glazed door with 2 layers of glass and with a glazed surface and aluminium frame. The glass surface is <clear glass with 60 mm matted edge; glass in a colour as specified in the project>. Matted edge is <white Ral 9010; black Ral 9005; Ral 9006; optional Ral-colour> The lock case is a slim lockcase such as Assa Abloy Connect 220/212 or as specified in the project. Doors are fitted with Assa Abloy 3228 pin hinges. Door width as per the project and door height is <M21; M21 with overpanel; special height; full height>
- 4.9.2.3.2 <10; 12 mm> <hardened; hardened and laminated> glazed door with drop seal. Glass is <clear; matt; colour xx>

Lock case is Triplan standard 565 in stainless steel <with; without> opening for cylinder and hinges are in steel or aluminium.

Door width as per the project and door height is <M21; special height; fullheight>

- 4.9.2.3.3 <40; 62> mm solid wooden door with drop seal. Doors are with surface <painted in an NCS-colour as per the project; veneer as per the project> Lock case is Assa Abloy 565 or as per the project's specification of ironmongery and doors are with pin hinges.  
Door width as per the project and door height is <M21; M21 with overpanel; special height; fullheight>

### **4.9.3 TRIPLAN LITE® E - EI**

#### **4.9.3.1 Glass**

Glass is clear fire rated with polished edges.

Glass junctions are with <35 mm aluminium transom; 4 mm black fire rated sealant and max. 15 mm black glass edges; 4 mm clear fire rated sealant> (Observe: lower permitted height by clear junction. Observe: EW-demands with clear fire rated sealant can be solved using an EI-solution)

Glasses are joined in corners with an aluminium corner section.

#### **4.9.3.2 Doorframes**

Doorframe for respectively EW, EI30, EI60: Max. 85 x <50; 60; 70> mm doorframe in steel with an acoustic gasket.

Strike plate must match the chosen doorleaf.

Frame surface is < silver Ral 9006; white Ral 9010; black Ral 9005; optional Ral-colour>

#### **4.9.3.3 Doorleaves**

- 4.9.3.3.1 Framed glazed door with clear fire rated glass. Lock case is a Triplan standard slim lockcase or as specified in the project. Door closer is a Triplan standard as per the project.  
Door width as per the project and door height is <M21; special height; full height>

- 4.9.3.3.2 <40; 62> mm solid wooden door. Doors are with surface <painted in an NCS-colour as per the project; veneer as per the project> Lock case is Assa Abloy 565 or as per the project's specification of ironmongery and doors are with pin hinges.

Door height is M21.

Door closer as per the project.

## **4.10 Installation**

Glazed walls and doors must be installed as per the instructions of the manufacturer.

Before installation it is necessary to check that adjoining building surfaces are even and plumb in order to achieve complete tightness between the runners with acoustic tape and the adjoining building surface. By larger unevenness than this it is necessary to consult a supervisor for further agreement.

Junctions and mitred junctions must be completely tight.

Visible glass junctions must be with even and tight sealants.

Rubber gaskets between runners and glass must be even and with tight junctions.