



RISK ANALYSES

BASED ON EN-ISO 12100:2016

Palace 110-S Semi Automatic

Scandicwall



| Type Investigation | Project number | Compiled by | Review by | Date of release | Revision | |
|--------------------|----------------|---|---|-----------------|----------------|------|
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INVESTIGATION REQUESTED BY

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1. INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report was commissioned by Parthos B.V. ('client' and/or 'manufacturer') and compiled by Certification Company. The purpose of this report is to assess the safety risks of the Palace 110-S Semi Automatic.

1.2 PRODUCT IDENTIFICATION

For the purpose of investigation, the following products were taken into the account:

| IDENTIFICATION | DESCRIPTION |
|---|--|
| GENERIC DENOMINATION | Operable wall |
| FUNCTION / INTENDED USE | Separating of spaces |
| MODEL | Palace 110-S Semi Automatic |
| OVERALL DRAWING / PHOTOGRAPHIC EXAMPLE |  |
| ELECTROMAGNETIC ENVIRONMENT | Commercial & (light) industry |

2. RISK ANALYSES

An on-site inspection was carried out on the march 29th 2022. The inspection took place at your location in Hoofddorp (NL) in the presence of Mr. Bas van den Wildenberg as representative of Parthos B.V. The risk assessment is partly based on the European harmonised standard EN-ISO 12100:2010 – Safety of machinery - General principles for design -

| S | SEVERITY | P | PROBABILITY | E | EXPOSURE |
|-----|--|-----|-------------------------------|-----|--------------------------------------|
| 100 | Catastrophe (<i>many fatalities</i>) | 10 | Might well be expected | 10 | Continuous |
| 40 | Disaster (<i>few fatalities</i>) | 6 | Quite possibly | 5 | Frequent (<i>daily</i>) |
| 15 | Very serious (<i>serious injury</i>) | 3 | Unusual but possible | 3 | Occasional (<i>once per week</i>) |
| 7 | Important (<i>disability</i>) | 1 | Remotely possible | 2 | Unusual (<i>once per month</i>) |
| 3 | Noticeable (<i>minor first aid accident</i>) | 0.5 | Conceivable but very unlikely | 1 | Rare (<i>a few times per year</i>) |
| 1 | Low risk (<i>very minor accident</i>) | 0.1 | Practically impossible | 0.5 | Very rare (<i>yearly or less</i>) |

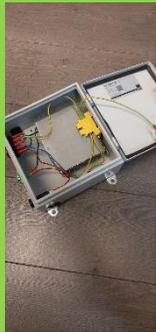
| R | RISK | MEASUREMENT |
|---------|------------------|----------------------------------|
| >320 | Very high risk | Consider discontinuing operation |
| 160-320 | High risk | Immediate correction required |
| 70-160 | Substantial risk | Correction needed |
| 20-70 | Possible risk | Attention indicated |
| 0 <20 | Risk | Perhaps acceptable |

ABBREVIATIONS USED IN THE RISK ANALYSES (LIFE PHASES)

| ABBREVIATION | MEANING |
|--------------|---------------------------|
| T | Transport |
| S | Storage |
| MI | Mounting and installation |
| C | Commissioning |
| U | Use |
| DM | Dismantle |
| M | Maintenance |
| MA | Malfunction |
| DC | Decommissioning |
| D | Disposal |
| ALL | All life phases |

| # | LOCATION/DESCRIPTION | HAZARD IDENTIFICATION | LIFE PHASE | S | P | E | RISK BEFORE REDUCTION | RISK REDUCTION MEASURE PROPOSAL | S | P | E | RISK AFTER REDUCTION | MEASURE EXECUTED |
|---------------------------|--|-----------------------|------------|---|---|---|-----------------------|--|---|-----|---|----------------------|--------------------------------|
| MECHANICAL HAZARDS | | | | | | | | | | | | | |
| 6 | <p>The power supply is placed above the suspended ceiling. When removing a ceiling tile, there is a danger that the power supply will fall.</p>  | Falling parts | ALL-TSD | 3 | 6 | 1 | 18 | <p>Mount the power supply box to a fixed construction.</p>  | 3 | 0,1 | 1 | 0,3 | See installation manual |

| # | LOCATION/DESCRIPTION | HAZARD IDENTIFICATION | LIFE PHASE | S | P | E | RISK BEFORE REDUCTION | RISK REDUCTION MEASURE PROPOSAL | S | P | E | RISK AFTER REDUCTION | MEASURE EXECUTED |
|------------------------------|---|-----------------------|--------------|----|---|---|-----------------------|---|----|---|-----|----------------------|---|
| II ELECTRICAL HAZARDS | | | | | | | | | | | | | |
| 4 | Dangerous voltage is present in the power supply box. Warning missing  | Live parts | M/DM/M/MA/DC | 15 | 1 | 1 | 15 | Place icon on the lid:  | 15 | 1 | 0,5 | 7,5 |  |

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|---|--|---|------------|----|-----|---|-----------------------|---|----|-----|---|----------------------|---|
| 7 | <p>The connection terminal of the power supply is used as a branch for the protective conductor. Risk of the protective conductor coming loose.</p>  | Parts which have become live under fault conditions | ALLE-TSD | 15 | 0,5 | 1 | 7,5 | We recommend installing an earth bar to which the incoming protective conductor is connected and with a separate outgoing terminal a connection is made to the metal box and to the PE connection of the Meanwell power supply. | 15 | 0,1 | 1 | 1,5 |  |

| | | | | | | | | | | | | | |
|-----------|--|--------------------------|----------------|--|--|--|--|--|--|--|--|--|---|
| <p>9a</p> | <p>A Meanwell power supply is included in the power supply box. This is not mounted according to the mounting instructions. Risk of overheating with various consequences.</p>  | <p>Thermal radiation</p> | <p>ALL-TSD</p> | | | | | <p>Follow the installation manual of the Meanwell power supply</p> | | | | | <p>Another type of power supply is applied with sufficient free space</p>  |
|-----------|--|--------------------------|----------------|--|--|--|--|--|--|--|--|--|---|

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|----|--|-----------------------|------------|---|---|---|-----------------------|---|---|---|---|----------------------|--|
| 9b | <p>In the power supply box, a thermal protection is incorporated in the 24V DC line, which is probably not specified for a voltage of 24V DC.</p>  | Thermal radiation | ALL-TSD | | | | | Provide a Eaton-Heinemann thermal protection data sheet to further determine this risk. | | | | | <p>Risk is not applicable. Thermal protection is suitable for 230V AC</p> |

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|---|---|-----------------------|------------|---|---|---|-----------------------|---|---|---|---|----------------------|---|
| VII MATERIAL / SUBSTANCE HAZARDS | | | | | | | | | | | | | |
| 9 | <p>The power supply box is equipped with a thermal protection, it is unclear whether this part meets the EU Directives. Various consequences</p>  | Fumes | ALLE-TSD | | | | | Provide in a CE declaration of conformity | | | | | <p>A declaration of conformity has been issued by the manufacturer of the power supply unit. Document MvZ/29082022/1</p> |

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|-------|--|-----------------------|------------|---|---|---|-----------------------|--|---|---|---|----------------------|---|
| VII I | ERGONOMIC HAZARDS | | | | | | | | | | | | |
| 8 | <p>During installation, you should constantly look up to see if the partition wall hangs properly in the rails.</p>  | Posture | G | 3 | 3 | 3 | 27 | Provide an instruction in the user manual to reduce the ergonomic load | 3 | 3 | 1 | 9 | After consultation with the client, this risk is negligible |

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|---|--|---|------------|---|---|---|-----------------------|--|---|---|---|----------------------|---|
| X | OTHER HAZARDS | | | | | | | | | | | | |
| 1 | <p>The power supply box does not have a Parthos type designation. This is a shortcoming in light of applicable laws and regulations and involves several risks.</p>  | <p>Various dangers due to the lack of traceability data</p> | ALL | | | | | <p>Provide the power supply box with a nameplate with traceability data.</p> | | | | |  |

3. CONCLUSION

Certification Company was commissioned by Parthos B.V. ('**client** and/or '**manufacturer**') to carry out a risk analyses on the operable wall, type Palace 110-S Semi Automatic. The mentioned risks have been addressed and risks reduction proposals have been implemented.

Almere, September 13th

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ANNEX I INSPECTION PICTURES

