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Onderwerp Ventilatieberekening  
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|              |        |             |          |            | gebruiksfunctie | -     | m² | m                                     | m³ | bezetting |         |   | min. vereist luchtdebiet |                 |      |                    | bezetting  |   | ontwerp luchtdebiet |                       |                 |                 | Bbl 2025<br>luchtdebiet | ontwerp toevoerlucht debiet |      |      |  | ontwerp<br>luchtafzuig |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|              |        |             |          |            |                 |       |    |                                       |    | pers/m²   | m²/pers | n | m³/h*pp                  | l/s*m²          | m³/h |                    | m²/pers    | n | ppm                 | m³/h*p.p.<br>dm³/s*m² | h <sup>-1</sup> | h <sup>-1</sup> |                         | h <sup>-1</sup>             | m³/h | m³/h |  |                        | m³/h | m³/h |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| begane grond |        |             |          |            |                 | 2.827 |    |                                       |    |           |         |   |                          |                 |      |                    |            |   |                     |                       |                 |                 |                         |                             |      |      |  |                        |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

Project Depot Utrecht  
Projectnr. 3739EW  
Onderwerp Ventilatieberekening  
Datum 25-9-2026  
Opsteller Marcel Luijs

PvE gezonde kantoren  
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| ruimte nr.    | ruimte                      | klimaattype                        | Bbl 2025    | oriëntatie | bouwkundig      |       |       | Besluit bouwwerken leefomgeving - 2025 |         |           |         |        |                          | Brandveiligheid |   | lucht<br>kwaliteit | ventilatie            |                 |                     |                 |      |      |                         |                             |      |            |
|---------------|-----------------------------|------------------------------------|-------------|------------|-----------------|-------|-------|----------------------------------------|---------|-----------|---------|--------|--------------------------|-----------------|---|--------------------|-----------------------|-----------------|---------------------|-----------------|------|------|-------------------------|-----------------------------|------|------------|
|               |                             |                                    |             |            | gebruiksfunctie | -     | m²    | m                                      | m³      | bezetting |         |        | min. vereist luchtdebiet |                 |   |                    | bezetting             |                 | ontwerp luchtdebiet |                 |      |      | Bbl 2025<br>luchtdebiet | ontwerp toevoerlucht debiet |      |            |
|               |                             |                                    |             |            |                 |       |       | pers/m²                                | m²/pers | n         | m³/h*pp | l/s*m² | m³/h                     | m²/pers         | n | ppm                | m³/h*p.p.<br>dm³/s*m² | h <sup>-1</sup> | h <sup>-1</sup>     | h <sup>-1</sup> | m³/h | m³/h |                         | m³/h                        | m³/h | m³/h       |
| V.01.04       | trappenhuis                 |                                    | gem. ruimte |            | 13              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 24                       | -               | 0 | -                  |                       |                 |                     |                 |      | 30   | gane grond, afzu        | 0                           | 0    |            |
| T.01.02       | techniekruiimte             |                                    | industrie   |            | 34              | 3,75  | 127   | -                                      | -       | 0         | -       |        |                          | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      | 0          |
| V.01.05       | depotgang                   |                                    | industrie   |            | 85              | 3,75  | 318   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 170  |                         |                             | 170  | overstroom |
| V.01.06       | sluis                       |                                    | industrie   |            | 2               | 3,75  | 8     | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| T.01.04       | Berging EP   EG             |                                    | industrie   |            | 6               | 3,75  | 22    | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    | depotgang               |                             |      | 170        |
| T.01.03       | schacht                     |                                    | industrie   |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| V.01.07       | vluchttrappenhuis           |                                    | industrie   |            | 11              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 19                       | -               | - | -                  |                       |                 |                     |                 |      | 0    | natuurlijk              |                             |      |            |
| D.01.04       | depot SHBW                  | depot/ zone A                      | industrie   |            | 71              | 3,75  | 268   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 10                          | 134  |            |
| D.01.05       | depot EP   EG               | depot/ zone A                      | industrie   |            | 449             | 3,75  | 1.685 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 60                          | 842  |            |
| 2e verdieping |                             |                                    |             |            |                 | 1.256 |       |                                        |         |           |         |        |                          |                 |   |                    |                       |                 |                     |                 |      |      |                         |                             |      |            |
| D.02.01       | depot EP   EG               | depot/ zone A                      | industrie   |            | 298             | 3,75  | 1.117 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 37                          | 560  |            |
| D.02.02       | depot UMU                   | depot/ zone A                      | industrie   |            | 200             | 3,75  | 750   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 25                          | 380  |            |
| T.02.01       | techniekruiimte             |                                    | industrie   |            | 29              | 3,75  | 108   | -                                      | -       | 0         | -       |        |                          | -               | - | -                  |                       |                 |                     |                 |      |      |                         |                             |      |            |
| V.02.01       | goederenlift                | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 17              |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      | -          |
| V.02.02       | lifthal                     |                                    | gem. ruimte |            | 30              | 3,75  | 111   | -                                      | -       | 0         | -       | 0,7    | 74                       | -               | - | -                  |                       |                 |                     |                 |      | 80   |                         |                             |      | 80         |
| V.02.03       | personenlift/ brandweerlift | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      |            |
| V.02.04       | trappenhuis                 |                                    | gem. ruimte |            | 13              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 24                       | -               | 0 | -                  |                       |                 |                     |                 |      | 30   | gane grond, afzu        | 0                           | 0    |            |
| T.02.02       | techniekruiimte             |                                    | industrie   |            | 34              | 3,75  | 127   | -                                      | -       | 0         | -       |        |                          | -               | - | -                  |                       |                 |                     |                 |      |      |                         |                             |      |            |
| V.02.05       | depotgang                   |                                    | industrie   |            | 85              | 3,75  | 318   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 170  |                         |                             | 170  | overstroom |
| V.02.06       | sluis                       |                                    | industrie   |            | 2               | 3,75  | 8     | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| T.02.04       | Berging UMU                 |                                    | industrie   |            | 6               | 3,75  | 22    | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    | depotgang               |                             |      | 170        |
| T.02.03       | schacht                     |                                    | industrie   |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| V.02.07       | vluchttrappenhuis           |                                    | industrie   |            | 11              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 19                       | -               | - | -                  |                       |                 |                     |                 |      | 0    | natuurlijk              |                             |      |            |
| D.02.03       | depot Berging               | depot/ zone A                      | industrie   |            | 523             | 3,75  | 1.962 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 70                          | 990  |            |
| 3e verdieping |                             |                                    |             |            |                 | 1.228 |       |                                        |         |           |         |        |                          |                 |   |                    |                       |                 |                     |                 |      |      |                         |                             |      |            |
| D.03.01       | depot UMU                   | depot/ zone A                      | industrie   |            | 483             | 2,85  | 1.377 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 50                          | 690  |            |
| T.03.01       | techniekruiimte             |                                    | industrie   |            | 29              | 2,85  | 82    | -                                      | -       | 0         | -       |        | 0                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      | 0          |
| V.03.01       | goederenlift                | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 17              |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      | -          |
| V.03.02       | lifthal                     |                                    | gem. ruimte |            | 30              | 2,85  | 84    | -                                      | -       | 0         | -       | 0,7    | 74                       | -               | - | -                  |                       |                 |                     |                 |      | 80   |                         |                             |      | 80         |
| V.03.03       | personenlift/ brandweerlift | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      |            |
| V.03.04       | trappenhuis                 |                                    | gem. ruimte |            | 13              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 24                       | -               | 0 | -                  |                       |                 |                     |                 |      | 30   | gane grond, afzu        | 0                           | 0    |            |
| T.03.02       | techniekruiimte             |                                    | industrie   |            | 34              | 2,85  | 97    | -                                      | -       | 0         | -       |        | 0                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      | 0          |
| V.03.05       | depotgang                   |                                    | industrie   |            | 85              | 2,85  | 242   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 170  |                         |                             | 170  | overstroom |
| V.03.06       | sluis                       |                                    | industrie   |            | 2               | 2,85  | 6     | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| T.03.04       | Berging UMU                 |                                    | industrie   |            | 6               | 2,85  | 17    | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    | depotgang               |                             |      | 170        |
| T.03.03       | schacht                     |                                    | industrie   |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| V.03.07       | vluchttrappenhuis           |                                    | industrie   |            | 11              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 19                       | -               | - | -                  |                       |                 |                     |                 |      | 0    | natuurlijk              |                             |      |            |
| D.03.02       | depot UMU                   | depot/ zone A                      | industrie   |            | 509             | 2,85  | 1.450 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 50                          | 725  |            |
| 4e verdieping |                             |                                    |             |            |                 | 1.225 |       |                                        |         |           |         |        |                          |                 |   |                    |                       |                 |                     |                 |      |      |                         |                             |      |            |
| D.04.01       | depot CM                    | depot/ zone A                      | industrie   |            | 484             | 2,85  | 1.378 | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 50                          | 690  |            |
| T.04.01       | techniekruiimte             |                                    | industrie   |            | 29              | 2,85  | 82    | -                                      | -       | 0         | -       |        | 0                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      | 0          |
| V.04.01       | goederenlift                | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 17              |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      | -          |
| V.04.02       | lifthal                     |                                    | gem. ruimte |            | 30              | 2,85  | 84    | -                                      | -       | 0         | -       | 0,7    | 74                       | -               | - | -                  |                       |                 |                     |                 |      | 80   |                         |                             |      | 80         |
| V.04.03       | personenlift/ brandweerlift | natuurlijke ventilatie, dmv dakkap | gem. ruimte |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      |      | natuurlijk              |                             |      |            |
| V.04.04       | trappenhuis                 |                                    | gem. ruimte |            | 13              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 24                       | -               | 0 | -                  |                       |                 |                     |                 |      | 30   | gane grond, afzu        | 0                           | 0    |            |
| T.04.02       | techniekruiimte             |                                    | industrie   |            | 34              | 2,85  | 97    | -                                      | -       | 0         | -       |        | 0                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      | 0          |
| V.04.05       | depotgang                   |                                    | industrie   |            | 85              | 2,85  | 242   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 170  |                         |                             | 170  | overstroom |
| V.04.06       | sluis                       |                                    | industrie   |            | 2               | 2,85  | 6     | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| T.04.04       | Berging CM                  |                                    | industrie   |            | 6               | 2,85  | 17    | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    | depotgang               |                             |      | 170        |
| T.04.03       | schacht                     |                                    | industrie   |            | 5               |       |       | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 |                     |                 |      | 0    |                         |                             |      |            |
| V.04.07       | vluchttrappenhuis           |                                    | industrie   |            | 11              |       | 0     | -                                      | -       | 0         | -       | 0,5    | 19                       | -               | - | -                  |                       |                 |                     |                 |      | 0    | natuurlijk              |                             |      |            |
| D.04.02a      | depot CM                    | depot/ zone A                      | industrie   |            | 296             | 2,85  | 843   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 30                          | 430  |            |
| D.04.02b      | depot CM                    | depot/ zone A                      | industrie   |            | 211             | 2,85  | 600   | -                                      | -       | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 30                          | 300  |            |
| 5e verdieping |                             |                                    |             |            |                 | 1.254 |       |                                        |         |           |         |        |                          |                 |   |                    |                       |                 |                     |                 |      |      |                         |                             |      |            |
| D.05.01       | depot Archief EP/EG         | depot/ zone A                      | industrie   |            | 121             | 2,85  | 345   | 0,05                                   | 20      | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 20                          | 173  |            |
| D.05.02       | depot schilderijen UMU      | depot/ zone A                      | industrie   |            | 134             | 2,85  | 381   | 0,05                                   | 20      | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 20                          | 191  |            |
| D.05.03       | depot schilderijen CM       | depot/ zone A                      | industrie   |            | 241             | 2,85  | 687   | 0,05                                   | 20      | 0         | -       | -      | -                        | -               | - | -                  |                       |                 | 1/30                | 1/2             |      | 0    |                         | 30                          | 343  |            |

Project Depot Utrecht  
Projectnr. 3739EW  
Onderwerp Ventilatieberekening  
Datum 25-9-2026  
Opsteller Marcel Luijs

PvE gezonde kantoren  
klasse B  
m³/h\*p.p.  
40



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| ruimte nr.    | ruimte                        | klimaattype                        | Bbl 2025           | oriëntatie | bouwkundig      |       |      | Besluit bouwwerken leefomgeving - 2025 |       |           |         |    |                          | Brandveiligheid |      | lucht<br>kwaliteit | ventilatie |     |                       |                 |                 | Bbl 2025<br>luchtdebiet | ontwerp toevoerlucht debiet |                         |             |        | ontwerp<br>luchtafzuig |      |
|---------------|-------------------------------|------------------------------------|--------------------|------------|-----------------|-------|------|----------------------------------------|-------|-----------|---------|----|--------------------------|-----------------|------|--------------------|------------|-----|-----------------------|-----------------|-----------------|-------------------------|-----------------------------|-------------------------|-------------|--------|------------------------|------|
|               |                               |                                    |                    |            | gebruiksfunctie | -     | m²   | m                                      | m³    | bezetting |         |    | min. vereist luchtdebiet |                 |      |                    | bezetting  |     | ontwerp luchtdebiet   |                 |                 |                         | m³/h                        | m³/h                    | m³/h        | m³/h   |                        | m³/h |
|               |                               |                                    |                    |            |                 |       |      |                                        |       | pers/m²   | m²/pers | n  | m³/h*pp                  | l/s*m²          | m³/h | m²/pers            | n          | ppm | m³/h*p.p.<br>dm³/s*m² | h <sup>-1</sup> | h <sup>-1</sup> | h <sup>-1</sup>         | m³/h                        | m³/h                    |             | m³/h   | m³/h                   | m³/h |
| T.05.01       | techniekruimte                |                                    | industrie          |            |                 | 29    | 2,85 | 82                                     | -     | -         | 0       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        |                        | 0    |
| V.05.01       | goederenlift                  | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 17    |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        | -                      |      |
| V.05.02       | lifthal                       |                                    | gem. ruimte        |            |                 | 30    | 2,85 | 84                                     | -     | -         | 0       | -  | 0,7                      | 74              | -    | -                  | -          |     |                       |                 |                 |                         | 80                          |                         |             |        | 80                     |      |
| V.05.03       | personenlift/ brandweerlift   | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 5     |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        |                        |      |
| V.05.04       | trappenhuis                   |                                    | gem. ruimte        |            |                 | 13    |      | 0                                      | -     | -         | 0       | -  | 0,5                      | 24              | -    | 0                  | -          |     |                       |                 |                 |                         | 30                          | gane grond, afzuig      | 0           | 0      |                        |      |
| T.05.03       | techniekruimte                |                                    | industrie          |            |                 | 34    | 2,85 | 96                                     | -     | -         | 0       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.05.05       | depotgang                     |                                    | industrie          |            |                 | 85    | 2,85 | 242                                    | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 170                         |                         |             | 170    | overstroom             |      |
| V.05.06       | sluis                         |                                    | industrie          |            |                 | 2     | 2,85 | 6                                      | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        |                        |      |
| T.05.04       | Berging CM                    |                                    | industrie          |            |                 | 6     | 2,85 | 17                                     | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           | depotgang               |             |        | 170                    |      |
| T.05.03       | schacht                       |                                    | industrie          |            |                 | 5     |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        |                        |      |
| V.05.07       | vluchttrappenhuis             |                                    | industrie          |            |                 | 11    |      | 0                                      | -     | -         | 0       | -  | 0,5                      | 19              | -    | -                  | -          |     |                       |                 |                 |                         | 0                           | natuurlijk              |             |        |                        |      |
| D.05.06       | depot CM                      | depot/ zone A                      | industrie          |            |                 | 524   | 2,85 | 1.492                                  | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       | 1/30            | 1/2             |                         | 0                           |                         | 50          | 750    |                        |      |
| 6e verdieping |                               |                                    |                    |            |                 | 1.259 |      |                                        |       |           |         |    |                          |                 |      |                    |            |     |                       |                 |                 |                         |                             |                         |             |        |                        |      |
| D.06.01       | depot CM                      | depot/ zone A                      | industrie          |            |                 | 500   | 2,85 | 1.426                                  | 0,05  | 20        | 0       | -  | -                        | -               | -    | -                  | -          |     |                       | 1/30            | 1/2             |                         |                             |                         | 50          | 720    | 720                    |      |
| T.06.01       | techniekruimte                |                                    | industrie          |            |                 | 29    | 2,85 | 82                                     | -     | -         | 0       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.06.01       | goederenlift                  | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 17    |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        | -                      |      |
| V.06.02       | lifthal                       |                                    | gem. ruimte        |            |                 | 30    | 2,85 | 84                                     | -     | -         | 0       | -  | 0,7                      | 74              | -    | -                  | -          |     |                       |                 |                 |                         | 80                          |                         |             |        | 80                     |      |
| V.06.03       | personenlift/ brandweerlift   | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 5     |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        |                        |      |
| V.06.04       | trappenhuis                   |                                    | gem. ruimte        |            |                 | 13    |      | 0                                      | -     | -         | 0       | -  | 0,5                      | 24              | -    | 0                  | -          |     |                       |                 |                 |                         | 30                          | gane grond, afzuig      | 0           | 0      |                        |      |
| T.06.02       | techniekruimte                |                                    | industrie          |            |                 | 34    | 2,85 | 96                                     | -     | -         | 0       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.06.05       | depotgang                     |                                    | industrie          |            |                 | 85    | 2,85 | 242                                    | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 170                         |                         |             | 170    | overstroom             |      |
| V.06.06       | sluis                         |                                    | industrie          |            |                 | 2     | 2,85 | 6                                      | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        |                        |      |
| T.06.04       | Berging CM                    |                                    | industrie          |            |                 | 6     | 2,85 | 17                                     | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           | depotgang               |             |        | 170                    |      |
| T.06.03       | schacht                       |                                    | industrie          |            |                 | 5     |      |                                        | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        |                        |      |
| V.06.07       | vluchttrappenhuis             |                                    | industrie          |            |                 | 11    |      | 0                                      | -     | -         | 0       | -  | 0,5                      | 19              | -    | -                  | -          |     |                       |                 |                 |                         | 0                           | natuurlijk              |             |        |                        |      |
| D.06.02       | depot CM                      | depot/ zone A                      | industrie          |            |                 | 523   | 2,85 | 1.491                                  | -     | -         | 0       | -  | -                        | -               | -    | -                  | -          |     |                       | 1/30            | 1/2             |                         |                             |                         | 50          | 750    | 750                    |      |
| 7e verdieping |                               |                                    |                    |            |                 | 1.211 |      |                                        |       |           |         |    |                          |                 |      |                    |            |     |                       |                 |                 |                         |                             |                         |             |        |                        |      |
| S.07.01       | restauratie atelier mode      | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 74    | 3,53 | 261                                    | 0,05  | 20        | 2       | -  | -                        | -               | -    | 2                  | -          | 40  |                       | 3,3             |                 |                         | 80                          |                         |             | 760    | 760                    |      |
| S.07.02       | restauratie atelier CM        | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 101   | 3,53 | 358                                    | 0,05  | 20        | 3       | -  | -                        | -               | -    | 3                  | -          | 40  |                       | 3,0             |                 |                         | 120                         |                         |             | 965    | 965                    |      |
| S.07.03       | restauratie atelier UMU       | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 75    | 3,53 | 264                                    | 0,05  | 20        | 1       | -  | -                        | -               | -    | 1                  | -          | 40  |                       | 6,6             |                 |                         | 40                          |                         |             | 760    | 760                    |      |
| S.07.04       | magazijn/ opslag              | secundaire rmt collectie/ zone F   | overig             |            |                 | 61    | 3,53 | 216                                    | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     | 0,5                   |                 |                 |                         | 110                         |                         |             | 143    | 110                    |      |
| S.07.05       | Vernisruimte                  | Industrie                          | Industrie          |            |                 | 20    | 3,53 | 70                                     | 0,05  | 20        | 1       | -  | -                        | -               | -    | 1                  | -          | 40  |                       | 1,7             |                 |                         | 40                          |                         |             | 11.000 | 11.000                 |      |
| S.07.06       | proefopstellingen UMU         | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 40    | 3,53 | 140                                    | 0,05  | 20        | 2       | -  | -                        | -               | -    | 2                  | -          | 40  |                       |                 |                 |                         | 80                          |                         |             | 400    | 80                     |      |
| V.07.08       | verkeersruimte                |                                    | gem. ruimte        |            |                 | 104   |      |                                        | -     | -         | -       | -  | 0,7                      | 261             | -    | -                  | -          |     |                       |                 |                 |                         | 270                         |                         |             | 270    | 270                    |      |
| T.07.01       | Serviceruimte / techniekrui   |                                    | overig             |            |                 | 29    | 3,53 | 102                                    | -     | -         | -       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.07.01       | goederenlift                  | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 17    |      |                                        | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        |                        |      |
| V.07.02       | lifthal                       |                                    | gem. ruimte        |            |                 | 30    | 3,53 | 104                                    | -     | -         | -       | -  | 0,7                      | 74              | -    | -                  | -          |     |                       |                 |                 |                         | 80                          |                         |             |        | 80                     |      |
| V.07.03       | personenlift/ brandweerlift   | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 5     |      |                                        | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        |                        |      |
| V.07.04       | trappenhuis                   |                                    | gem. ruimte        |            |                 | 13    |      | 0                                      | -     | -         | -       | -  | 0,5                      | 24              | -    | 0                  | -          |     |                       |                 |                 |                         | 30                          | gane grond, afzuig LBK2 |             |        |                        |      |
| T.07.02       | techniekruimte                |                                    | industrie          |            |                 | 34    | 3,53 | 120                                    | -     | -         | -       | -  |                          | 0               | -    | -                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.07.05       | depotgang                     |                                    | gem. ruimte        |            |                 | 85    | 3,53 | 300                                    | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         | 160                         |                         |             | 170    | overstroom             |      |
| V.07.06       | sluis                         |                                    | gem. ruimte        |            |                 | 2     | 3,53 | 8                                      | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             |                         |             |        |                        |      |
| T.07.04       | Gebedsruimte                  |                                    | andere bijeenkomst |            |                 | 6     | 3,53 | 20                                     | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             | depotgang               |             |        | 170                    |      |
| T.07.03       | schacht                       |                                    | gem. ruimte        |            |                 | 5     |      | 0                                      | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       |                 |                 |                         |                             |                         |             |        |                        |      |
| V.07.07       | vluchttrappenhuis             |                                    | gem. ruimte        |            |                 | 11    | 3,53 | 37                                     | -     | -         | -       | -  | 0,5                      | 19              | -    | -                  | -          |     |                       |                 |                 |                         | 0                           | natuurlijk              |             |        |                        |      |
| D.07.01       | depot CM                      | depot/ zone A                      | industrie          |            |                 | 502   | 3,53 | 1.772                                  | -     | -         | -       | -  | -                        | -               | -    | -                  | -          |     |                       | 1/30            | 1/2             |                         |                             |                         | 60          | 886    | 886                    |      |
| 8e verdieping |                               |                                    |                    |            |                 | 1.220 |      |                                        |       |           |         |    |                          |                 |      |                    |            |     |                       |                 |                 |                         |                             |                         |             |        |                        |      |
| S.08.01       | raadpleegruimte               | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 118   | 3,12 | 369                                    | 0,125 | 8         | 6       | 23 | -                        | 140             | -    | 6                  | -          | 40  |                       | 0,7             |                 | 150                     | 240                         |                         |             | 1.105  | 1.105                  |      |
| S.08.02       | conserveringsruimte           | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 120   | 3,12 | 374                                    | 0,05  | 20        | 4       | 23 | -                        | 94              | -    | 4                  | -          | 40  |                       | 0,4             |                 | 100                     | 160                         |                         |             | 1.140  | 1.140                  |      |
| S.08.04       | uitwerk-/ vrijwilligersruimte | secundaire rmt collectie/ zone F   | kantoor            |            |                 | 56    | 3,12 | 174                                    | 0,05  | 20        | 8       | 23 | -                        | 187             | -    | 8                  | -          | 40  |                       | 1,8             |                 | 190                     | 320                         |                         |             | 770    | 770                    |      |
| T.08.01       | MER                           |                                    | overig             |            |                 | 29    | 3,12 | 90                                     | -     | -         | 0       | 23 | -                        | 0               | -    | 0                  | -          | 40  |                       |                 |                 | 0                       | 40                          |                         |             |        | 40                     |      |
| V.08.01       | goederenlift                  | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 17    | -    | -                                      | -     | -         | -       | -  | -                        | -               | -    | 0                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        | 191                    |      |
| V.08.02       | lifthal                       |                                    | gem. ruimte        |            |                 | 30    | 3,12 | 94                                     | -     | -         | -       | -  | 0,7                      | 80              | -    | 0                  | -          |     |                       |                 |                 |                         |                             |                         | bibliotheek |        | 80                     |      |
| V.08.04       | personenlift/ brandweerlift   | natuurlijke ventilatie, dmv dakkap | gem. ruimte        |            |                 | 5     | -    | -                                      | -     | -         | -       | -  | -                        | -               | -    | 0                  | -          |     |                       |                 |                 |                         |                             | natuurlijk              |             |        | 55                     |      |
| V.08.03       | trappenhuis                   |                                    | gem. ruimte        |            |                 | 13    | -    | -                                      | -     | -         | -       | -  | 0,5                      | 24              | -    | 0                  | -          |     |                       |                 |                 |                         | 30                          | gane grond, afzuig LBK2 |             |        | 270                    |      |
| T.08.02       | techniekruimte                |                                    | kantoor            |            |                 | 34    | 3,12 | 105                                    | -     | -         | -       | -  |                          | 0               | -    | 0                  | -          |     |                       |                 |                 |                         | 0                           |                         |             |        | 0                      |      |
| V.08.08       | verkeersruimte                |                                    | gem. ruimte        |            |                 | 112   | 3,12 | 348                                    | -     | -         | -       | -  | 0,7                      | 78              | -    | 0                  | -          |     |                       |                 |                 |                         |                             |                         | bibliotheek |        | 80                     |      |

|                   |                      |
|-------------------|----------------------|
| <b>Project</b>    | Depot Utrecht        |
| <b>Projectnr.</b> | 3739EW               |
| <b>Onderwerp</b>  | Ventilatieberekening |
| <b>Datum</b>      | 25-9-2026            |
| <b>Opsteller</b>  | Marcel Luijs         |

PvE gezonde kantoren  
klasse B  
 $\text{m}^3/\text{h}^*\text{p.p.}$   
40

 **galjema**

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| ruimte nr.   | ruimte                                                                                                                                                                                                                                                                                                                                                              | klimaattype           | Bbl 2025        | oriëntatie | bouwkundig  |        |        | Besluit bouwwerken leefomgeving - 2025 |         |     |                          |        | Brandveiligheid |         | lucht kwaliteit | ventilatie          |                       |                 |                 |                         |                             |       |  |       |                        |            |  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|-------------|--------|--------|----------------------------------------|---------|-----|--------------------------|--------|-----------------|---------|-----------------|---------------------|-----------------------|-----------------|-----------------|-------------------------|-----------------------------|-------|--|-------|------------------------|------------|--|
|              |                                                                                                                                                                                                                                                                                                                                                                     |                       |                 |            | oppervlakte | hoogte | inhoud | bezetting                              |         |     | min. vereist luchtdebiet |        | bezetting       |         |                 | ontwerp luchtdebiet |                       |                 |                 | Bbl 2025<br>luchtdebiet | ontwerp toevoerlucht debiet |       |  |       | ontwerp<br>luchtafzuig |            |  |
|              |                                                                                                                                                                                                                                                                                                                                                                     |                       | gebruiksfunctie | -          | m²          | m      | m³     | pers/m²                                | m²/pers | n   | m³/h*pp                  | l/s*m² | m³/h            | m²/pers | n               | ppm                 | m³/h*p.p.<br>dm³/s*m² | h <sup>-1</sup> | h <sup>-1</sup> | h <sup>-1</sup>         | m³/h                        | m³/h  |  | m³/h  | m³/h                   | m³/h       |  |
| V.08.05      | verkeersruimte                                                                                                                                                                                                                                                                                                                                                      |                       | gem. ruimte     |            | 63          | 3,12   | 196    | -                                      | -       | -   | -                        | 0,7    | 44              | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.09a     | bibliotheek                                                                                                                                                                                                                                                                                                                                                         | werkrmt cf BB/ zone H | bijeenkomst     |            | 43          | 3,12   | 134    | 0,125                                  | 8       | 0   | 14                       | -      | 0               | -       | 0               | -                   | 40                    |                 |                 |                         | 0                           | 0     |  |       | 1.255                  | 60         |  |
| D.08.05b     | berging                                                                                                                                                                                                                                                                                                                                                             |                       | overig          |            | 11          | 3,12   | 33     | -                                      | -       | -   | -                        | -      | 25              | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       | 50                     |            |  |
| S.08.07      | kantine/ pantry                                                                                                                                                                                                                                                                                                                                                     | werkrmt cf BB/ zone H | bijeenkomst     |            | 103         | 3,12   | 322    | 0,125                                  | 8       | 17  | 14                       | -      | 245             | -       | 0               | -                   | 40                    |                 |                 |                         | 250                         | 680   |  |       | 1.095                  | 1.095      |  |
| V.08.09b     | bibliotheek                                                                                                                                                                                                                                                                                                                                                         | werkrmt cf BB/ zone H | bijeenkomst     |            | 42          | 3,12   | 131    | 0,125                                  | 8       | 0   | 14                       | -      | 0               | -       | 0               | -                   | 40                    |                 |                 |                         | 0                           | 0     |  |       | 1.095                  | overstroom |  |
| S.08.05a     | fotostudio                                                                                                                                                                                                                                                                                                                                                          | werkrmt cf BB/ zone H | kantoor         |            | 11          | 3,12   | 33     | 0,050                                  | 20      | 2   | 14                       | -      | 29              | -       | 0               | -                   | 40                    |                 |                 |                         | 30                          | 80    |  |       | 200                    | 200        |  |
| V.08.06      | sluis                                                                                                                                                                                                                                                                                                                                                               |                       | gem. ruimte     |            | 4           | 3,12   | 14     | -                                      | -       | -   | -                        | 0,7    | 11              | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 25         |  |
| D.08.05b     | Berging                                                                                                                                                                                                                                                                                                                                                             |                       | kantoor         |            | 11          | 3,12   | 33     | -                                      | -       | -   | -                        | -      | -               | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | -          |  |
| T.08.03      | schacht                                                                                                                                                                                                                                                                                                                                                             |                       | gem. ruimte     |            | 5           | -      | -      | -                                      | -       | -   | -                        | -      | -               | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | -          |  |
| V.08.07      | vluchtrappenhuis                                                                                                                                                                                                                                                                                                                                                    |                       | gem. ruimte     |            | 9           | 3,12   | 27     | -                                      | -       | -   | -                        | 0,7    | 22              | -       | 0               | -                   |                       |                 |                 | 0                       |                             |       |  |       |                        | -          |  |
| S.08.19      | kantoor EG                                                                                                                                                                                                                                                                                                                                                          | werkrmt cf BB/ zone H | kantoor         |            | 26          | 3,12   | 82     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 295                    | 295        |  |
| S.08.18      | kantoor EP                                                                                                                                                                                                                                                                                                                                                          | werkrmt cf BB/ zone H | kantoor         |            | 28          | 3,12   | 87     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 305                    | 305        |  |
| S.08.17      | kantoren flex                                                                                                                                                                                                                                                                                                                                                       | werkrmt cf BB/ zone H | kantoor         |            | 63          | 3,12   | 195    | 0,05                                   | 20      | 12  | 23                       | -      | 281             | -       | 12              | -                   | 40                    |                 |                 |                         | 290                         | 480   |  |       | 745                    | 745        |  |
| S.08.16      | kantoor UMU                                                                                                                                                                                                                                                                                                                                                         | werkrmt cf BB/ zone H | kantoor         |            | 15          | 3,12   | 47     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 200                    | 200        |  |
| S.08.15      | kantoor CM                                                                                                                                                                                                                                                                                                                                                          | werkrmt cf BB/ zone H | kantoor         |            | 15          | 3,12   | 46     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 200                    | 200        |  |
| S.08.14      | kantoor CM                                                                                                                                                                                                                                                                                                                                                          | werkrmt cf BB/ zone H | kantoor         |            | 30          | 3,12   | 92     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 485                    | 485        |  |
| S.08.13      | kantoor UMU                                                                                                                                                                                                                                                                                                                                                         | werkrmt cf BB/ zone H | kantoor         |            | 26          | 3,12   | 80     | 0,05                                   | 20      | 2   | 23                       | -      | 47              | -       | 2               | -                   | 40                    |                 |                 |                         | 50                          | 80    |  |       | 285                    | 285        |  |
| S.08.8a      | overleg/ bespreek (collegezaal)                                                                                                                                                                                                                                                                                                                                     | werkrmt cf BB/ zone H | bijeenkomst     |            | 66          | 3,12   | 204    | 0,125                                  | 8       | 40  | 14                       | -      | 576             | -       | 40              | -                   | 40                    |                 |                 |                         | 580                         | 1.600 |  |       | 1.600                  | 1.600      |  |
| S.08.8b      | vergader ruimte                                                                                                                                                                                                                                                                                                                                                     | werkrmt cf BB/ zone H | bijeenkomst     |            | 43          | 3,12   | 135    | 0,125                                  | 8       | 24  | 14                       | -      | 346             | -       | 24              | -                   | 40                    |                 |                 |                         | 350                         | 960   |  |       | 1.200                  | 1.200      |  |
| S.08.8a / 8b | Evenementruimte 100 personen*                                                                                                                                                                                                                                                                                                                                       | werkrmt cf BB/ zone H | bijeenkomst     |            | 43          | 3,12   | 135    | 0,125                                  | 8       | 100 | 14                       | -      | 1.440           | -       | 100             | -                   |                       |                 |                 | 1440                    | 0                           |       |  | 2.800 | 2.800                  |            |  |
| S.08.20      | berging                                                                                                                                                                                                                                                                                                                                                             |                       | overig          |            | 7           | 3,12   | 20     | -                                      | -       | -   | -                        | -      | 25              | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.21      | printer                                                                                                                                                                                                                                                                                                                                                             |                       | overig          |            | 6           | 3,12   | 20     | -                                      | -       | -   | -                        | -      | 25              | -       | 0               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.11a     | voorruimte toilet                                                                                                                                                                                                                                                                                                                                                   |                       | kantoor         |            | 9           | 3,12   | 29     | -                                      | -       | -   | -                        | -      | -               | -       | -               | -                   |                       |                 |                 |                         | 50                          |       |  |       |                        |            |  |
| S.08.11b     | Berging EP/EG                                                                                                                                                                                                                                                                                                                                                       |                       | kantoor         |            | 2           | 3,12   | 6      | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.11c     | toilet                                                                                                                                                                                                                                                                                                                                                              |                       | kantoor         |            | 1           | 3,12   | 3      | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.11d     | toilet                                                                                                                                                                                                                                                                                                                                                              |                       | kantoor         |            | 1           | 3,12   | 3      | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.11e     | toilet                                                                                                                                                                                                                                                                                                                                                              |                       | kantoor         |            | 1           | 3,12   | 3      | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.11f     | toilet                                                                                                                                                                                                                                                                                                                                                              |                       | kantoor         |            | 1           | 3,12   | 3      | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| S.08.10      | MIVA-toilet                                                                                                                                                                                                                                                                                                                                                         |                       | kantoor         |            | 4           | 3,12   | 11     | -                                      | -       | -   | -                        | -      | 25              | -       | -               | -                   |                       |                 |                 |                         |                             |       |  |       |                        | 50         |  |
| *            | Evenementruimte 100 pers. Is dezelfde ruimte als ruimte S.08.8a en S.08.8b, alleen zijn er dan meerdere personen aanwezig en dient de totale benodigde ventilatie-eis minimaal aan het bouwbesluit te voldoen (dit wordt zeker gehaald, 2 x zoveel per persoon), de maximale temperatuur eis voor de ruimte volgens voldoet niet als er 100 personen aanwezig zijn. |                       |                 |            |             |        |        |                                        |         |     |                          |        |                 |         |                 |                     |                       |                 |                 |                         |                             |       |  |       |                        |            |  |