

Zula III

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **19**
- SRM **3.4**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **3 %**
- Size with trub loss **26.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.3 liter(s)**

Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

Steps

- Temp **67.5 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **75.4C**
- Add grains
- Keep mash **60 min** at **67.5C**
- Keep mash **1 min** at **78C**
- Sparge using **21.9 liter(s)** of **76C** water or to achieve **32.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|-----|
| Grain | Viking Pilzneński 3,2-4,5 EBC | 2.5 kg (48.1%) | 82 % | 4 |
| Grain | Viking Pszeniczny 3,5-6,5 EBC | 2.5 kg (48.1%) | 85 % | 5 |
| Grain | Płatki owsiane | 0.2 kg (3.8%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------|--------|----------|------------|
| Boil | lunga 11% AA | 15 g | 60 min | 11 % |
| Boil | Zula 7,3% AA | 15 g | 15 min | 7 % |
| Aroma (end of boil) | Zula 7,3% AA | 35 g | 0 min | 7 % |
| Dry Hop | Zula 7,3% AA | 50 g | 7 day(s) | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|-------|--------|------------|
| US-05 | Ale | Slant | 50 ml | --- |