

## Zula III

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- 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	---