

# Zula lunga Pale Ale

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **31**
- SRM **4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

## Steps

- Temp **65 C**, Time **45 min**
- Temp **75 C**, Time **20 min**

## Mash step by step

- Heat up **16.2 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **20 min** at **75C**
- Sparge using **17 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (92.6%)	80 %	5
Grain	płatki jęczmienne	0.4 kg (7.4%)	60 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	14 g	50 min	11 %
Boil	Zula	40 g	0 min	7 %
Whirlpool	Zula	60 g	30 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand - LalBrew Voss Kveik	Ale	Dry	11 g	---