

# Warka strong

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **31**
- SRM **13**
- Style **Strong Scotch Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **2 %**
- Size with trub loss **21.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.9 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.7 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **15 min**

## Mash step by step

- Heat up **18.7 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **30 min** at **72C**
- Keep mash **15 min** at **76C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.23 kg (60.6%)	79 %	6
Grain	Jęczmień niesłodowany	0.81 kg (15.2%)	75 %	2
Grain	Strzegom Karmel 300	0.48 kg (9.1%)	70 %	299
Grain	Pszeniczny	0.81 kg (15.2%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Progress	24.23 g	60 min	6.9 %
Boil	Progress	24.23 g	30 min	6.9 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Bayanus 995	Wine	Dry	17.77 g	---

## Extras

Type	Name	Amount	Use for	Time
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Fining	Mech Irlandzki	8.07 g	Boil	15 min
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