

## 2 warka wersja 2

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **15**
- SRM **15.7**
- Style **Specialty Beer**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **1 %/h**
- Boil size **26 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.6 liter(s)**

### Steps

- Temp **53 C**, Time **20 min**
- Temp **67 C**, Time **49 min**
- Temp **72 C**, Time **30 min**

### Mash step by step

- Heat up **19.6 liter(s)** of strike water to **58.9C**
- Add grains
- Keep mash **20 min** at **53C**
- Keep mash **49 min** at **67C**
- Keep mash **30 min** at **72C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **26 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	1 kg (14.3%)	81 %	4
Grain	Strzegom Monachijski typ I	2 kg (28.6%)	79 %	16
Grain	Karmelowy Jasny 30EBC	1 kg (14.3%)	75 %	30
Grain	Viking melanoidynowy	0.5 kg (7.1%)	75 %	60
Grain	Karmelowy Pszeniczny Strzegom	1 kg (14.3%)	79 %	130
Grain	Carahell	0.5 kg (7.1%)	77 %	26
Grain	Weyermann - Carapils	1 kg (14.3%)	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	7 g	60 min	15.5 %
Aroma (end of boil)	Mosaic	12 g	10 min	11.3 %
Dry Hop	Mosaic	10 g	5 day(s)	11.3 %
Dry Hop	Columbus/Tomahawk/Zeus	10 g	5 day(s)	15.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	500 ml	---

## Extras

Type	Name	Amount	Use for	Time
Other	Ananas	2000 g	Secondary	7 day(s)
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Spice	Skórka pomarańczy	10 g	Secondary	7 day(s)
Flavor	Ksylitol	300 g	Secondary	7 day(s)