

Zelandarin

- Gravity **10.2 BLG**
- ABV ---
- IBU **34**
- SRM **5.2**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.5 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

Steps

- Temp **65 C**, Time **75 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **15.8 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **75 min** at **65C**
- Keep mash **5 min** at **76C**
- Sparge using **14.2 liter(s)** of **76C** water or to achieve **25.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Karmel 30	0.5 kg (11.1%)	75 %	30
Grain	Strzegom Pale Ale	4 kg (88.9%)	79 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	3 g	60 min	15.5 %
Boil	Mandarina Bavaria	14 g	30 min	10 %
Boil	Mandarina Bavaria	36 g	10 min	10 %
Dry Hop	Mandarina Bavaria	40 g	7 day(s)	10 %
Dry Hop	WAI-ITI	50 g	7 day(s)	4.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	10 g	---

Extras

Type	Name	Amount	Use for	Time
Fining	Mech irlandzki	3 g	Boil	10 min
Other	Chłodnica	0 g	Boil	15 min

Other	Uwodnić Mech	0 g	Boil	60 min
-------	--------------	-----	------	--------