

Grand Champion 2013 (prawie)

- Gravity **21.8 BLG**
- ABV **9.8 %**
- IBU **114**
- SRM **7.4**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **80 min**
- Evaporation rate **6 %/h**
- Boil size **29.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.7 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **32.9 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **77 C**, Time **4 min**

Mash step by step

- Heat up **24 liter(s)** of strike water to **74.5C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **4 min** at **77C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **29.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg (50.5%)	80 %	3.85
Grain	Strzegom Monachijski typ I	1.4 kg (14.1%)	79 %	16
Grain	Weyermann pszeniczny jasny	1 kg (10.1%)	80 %	6
Grain	Biscuit Malt	0.5 kg (5.1%)	79 %	45
Sugar	Cukier	1 kg (10.1%)	100 %	0
Grain	Pale Ale	1 kg (10.1%)	80 %	7

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	50 g	60 min	11.2 %
Boil	Columbus/Tomahawk/Zeus	75 g	60 min	12.5 %
Boil	Simcoe	25 g	10 min	11.4 %
Boil	Citra	25 g	10 min	13.5 %
Boil	Amarillo	25 g	5 min	8.9 %
Boil	Amarillo	25 g	2 min	8.9 %
Boil	Simcoe	25 g	0 min	11.4 %
Dry Hop	Citra	25 g	3 day(s)	13.5 %

Dry Hop	Amarillo	25 g	3 day(s)	8.9 %
Dry Hop	Simcoe	25 g	3 day(s)	11.4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	250 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Water Agent	Chlorek wapnia	10 g	Boil	80 min