

GREEN KARUZELA

- Gravity **16.1 BLG**
- ABV ---
- IBU **29**
- SRM **4.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **1600 liter(s)**
- Trub loss **5 %**
- Size with trub loss **1680 liter(s)**
- Boil time **60 min**
- Evaporation rate **3 %/h**
- Boil size **1895.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **1515 liter(s)**
- Total mash volume **2020 liter(s)**

Steps

- Temp **70 C**, Time **80 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **1515 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **80 min** at **70C**
- Keep mash **10 min** at **76C**
- Sparge using **885.2 liter(s)** of **76C** water or to achieve **1895.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	300 kg (59.4%)	81 %	4
Grain	Płatki owsiane	120 kg (23.8%)	85 %	3
Grain	Płatki pszeniczne	60 kg (11.9%)	85 %	3
Grain	Żytni	25 kg (5%)	85 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Citra	1200 g	40 min	13 %
Aroma (end of boil)	Mosaic	1200 g	40 min	10 %
Dry Hop	Citra	4000 g	5 day(s)	12 %
Dry Hop	Mosaic	4000 g	5 day(s)	10 %
Dry Hop	Simcoe	4000 g	5 day(s)	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
London Ale III	Ale	Slant	10000 ml	White Labs

Extras

Type	Name	Amount	Use for	Time
------	------	--------	---------	------

Water Agent	Chlorek wapnia	500 g	Mash	60 min
-------------	----------------	-------	------	--------