- Gravity 11.7 BLG
- ABV ---
- IBU **33**
- SRM 4.6
- Style American Wheat or Rye Beer

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.1 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 14 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 1 min at 78C
- Sparge using 15.1 liter(s) of 76C water or to achieve 25.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg <i>(44.4%)</i>	80 %	5
Grain	Strzegom Pszeniczny	2 kg <i>(44.4%)</i>	81 %	6
Adjunct	ryż	0.5 kg <i>(11.1%)</i>	80 %	1

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	15.5 %
Boil	Citra	10 g	15 min	12 %
Boil	Citra	10 g	10 min	12 %
Boil	Citra	10 g	5 min	12 %
Aroma (end of boil)	Mosaic	13 g	0 min	10 %
Whirlpool	Mosaic	12 g	0 min	10 %
Dry Hop	Mosaic	25 g	4 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	12 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Flavor	skórka limonki	30 g	Secondary	4 day(s)