West Coast Rye IPA

- Gravity 16.4 BLG
- ABV 6.9 %
- IBU **57**
- SRM **8.6**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 24 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.6 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 20.7 liter(s)
- Total mash volume 27.6 liter(s)

Steps

- Temp 62 C, Time 20 min
 Temp 68 C, Time 25 min
 Temp 72 C, Time 25 min
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 20.7 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 62C
- · Keep mash 25 min at 68C
- Keep mash 25 min at 72C
- Keep mash 10 min at 78C
- Sparge using 14.8 liter(s) of 76C water or to achieve 28.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3.4 kg <i>(49.3%)</i>	81 %	4
Grain	Viking Pale Ale malt	2.1 kg <i>(30.4%)</i>	80 %	5
Grain	Żytni	1 kg <i>(14.5%)</i>	85 %	8
Grain	Caramel/Crystal Malt - 10L	0.4 kg <i>(5.8%)</i>	75 %	160

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	25 g	60 min	12.4 %
Boil	Centennial	15 g	60 min	9.5 %
Boil	Centennial	15 g	30 min	9.5 %
Boil	Columbus/Tomahawk/Zeus	25 g	10 min	12.4 %
Dry Hop	Simcoe	50 g	5 day(s)	13.1 %
Dry Hop	Mosaic	25 g	5 day(s)	12 %
Dry Hop	Citra	25 g	5 day(s)	13.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Slant	380 ml	Mangrove Jack's