Bock

- Gravity 17.7 BLG
- ABV ----
- IBU **25**
- SRM 21.6
- Style Traditional Bock

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.8 liter(s)
- Total mash volume 26.4 liter(s)

Steps

- Temp **55** C, Time **20 min** Temp **64** C, Time **30 min** Temp **72** C, Time **30 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 19.8 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 20 min at 55C
- Keep mash 30 min at 64C
- Keep mash 30 min at 72C
- Keep mash 0 min at 78C
- Sparge using 12.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.5 kg <i>(22.7%)</i>	80 %	4
Grain	Viking Pale Ale malt	1 kg <i>(15.2%)</i>	80 %	5
Grain	Monachijski	3 kg <i>(45.5%)</i>	80 %	16
Grain	Special B Castle	0.3 kg <i>(4.5%)</i>	70 %	350
Grain	Weyermann - Melanoiden Malt	0.4 kg <i>(6.1%)</i>	81 %	53
Grain	Biscuit Malt	0.4 kg (6.1%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10.5 %
Boil	Hallertau	40 g	5 min	5.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - Urquell	Lager	Slant	200 ml	Wyeast Labs