Bock beta-0.2

- Gravity 17.5 BLG
- ABV 7.5 %
- IBU **25**
- SRM **14.5**
- Style Doppelbock

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 29.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 31.5 liter(s)

Steps

- Temp 50 C, Time 10 min
 Temp 64 C, Time 15 min
 Temp 73 C, Time 45 min
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 24.5 liter(s) of strike water to 54.3C
- Add grains
- Keep mash 10 min at 50C
- · Keep mash 15 min at 64C
- Keep mash 45 min at 73C
- Keep mash 0 min at 78C
- Sparge using 11.9 liter(s) of 76C water or to achieve 29.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg <i>(50%)</i>	80 %	4
Grain	Strzegom Monachijski typ I	2.6 kg <i>(37.1%)</i>	79 %	16
Grain	Karmelowy Czerwony	0.3 kg (4.3%)	75 %	59
Grain	Caraaroma	0.3 kg <i>(4.3%)</i>	78 %	400
Grain	Carahell	0.3 kg <i>(4.3%)</i>	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tettnanger	85 g	90 min	3 %
Boil	Tettnanger	15 g	10 min	3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	23 g	Fermentis Division of S.I.Lesaffre

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	3 g	Boil	10 min