Special Bitter

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **44**
- SRM **14.4**
- Style Special/Best/Premium Bitter

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.1 liter(s)
- Total mash volume 18.8 liter(s)

Steps

- Temp 68 C, Time 75 min
 Temp 76 C, Time 1 min

Mash step by step

- Heat up 14.1 liter(s) of strike water to 76C
- Add grains
- Keep mash 75 min at 68C
- Keep mash 1 min at 76C
- Sparge using 17 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	2 kg <i>(42.6%)</i>	81 %	6
Grain	Strzegom Wiedeński	1 kg <i>(21.3%)</i>	79 %	10
Grain	Amber Malt	0.5 kg <i>(10.6%)</i>	75 %	43
Grain	Caramel/Crystal Malt - 30L	0.4 kg (8.5%)	75 %	59
Grain	Caramel/Crystal Malt - 40L	0.4 kg (8.5%)	74 %	79
Grain	Caramel/Crystal Malt - 120L	0.4 kg (8.5%)	72 %	236

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	60 g	60 min	5.1 %
Boil	East Kent Goldings	30 g	15 min	5.1 %
Aroma (end of boil)	East Kent Goldings	30 g	5 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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Lallemand - LalBrew Verdant IPA	Ale	Dry	11.5 g	Lallemand