

#31 The Butcher

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **74**
- SRM **12.9**
- Style **Red IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.8 liter(s)**
- Total mash volume **26.4 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19.8 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **5 min** at **78C**
- Sparge using **13.2 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------------------|-------------------|----------------|-------|------|
| Grain | Strzegom Pale Ale | 6.5 kg (98.5%) | 79 % | 6 |
| Grain | Strzegom Barwiący | 0.1 kg (1.5%) | 68 % | 1300 |
| dodany na wygrzew | | | | |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 15 g | 60 min | 15.5 % |
| Boil | Citra | 15 g | 30 min | 12.9 % |
| Boil | Simcoe | 15 g | 30 min | 14.5 % |
| Boil | Amarillo | 15 g | 15 min | 9.7 % |
| Boil | Citra | 15 g | 15 min | 12 % |
| Boil | Simcoe | 15 g | 15 min | 14.5 % |
| Dry Hop | Amarillo | 50 g | 7 day(s) | 9.7 % |
| Dry Hop | Citra | 50 g | 7 day(s) | 12.9 % |
| Dry Hop | Simcoe | 50 g | 7 day(s) | 13.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|--------|-----|
| Safale US-05 | Ale | Dry | 11.5 g | --- |
|--------------|-----|-----|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|---------|--------|
| Fining | whirlfloc | 0.5 g | Boil | 10 min |